Product Integration API

28 Mar 2024



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Table of Contents

Product Integration API **1/19**
Overview 1/19
Submit Fax 2/19
Response 3/19
Get Outbound Fax Details 7/19
Download outbound fax document 9/19
Get Outbound Faxes List 11/19
Get Inbound Faxes List 13/19
_ 13/19
Get Inbound Fax Details 16/19
Download Inbound fax document 18/19

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Product Integration API

Overview

This section describes the REST API that can be used to integrate Digital Fax and third party systems, making them capable to automate fax-related activities.

Basic Authentication

The REST API identifies its user with **HTTP Basic Authentication**. That is, if a function requires authentication, then it requires the *Authorization* HTTP header, which must be as follows:

```
Authorization: Basic <userPasswordBase64>
```

where <userPasswordBase64> is the base64 encoding of <user>:<password>.

For instance, suppose you need to call a function with user="myuser" and password="mypassword". You need to base64-encode the string "myuser:mypassword", which is "bXl1c2VyOm15cGFzc3dvcmQ=", obtaining the following HTTP header:

```
Authorization: Basic bXl1c2VyOm15cGFzc3dvcmQ=
```

Basic Authentication with SSO support

Starting from Imagicle 204.Spring.1 release, Imagicle REST APIs can be invoked by a user with SSO authentication. To enable this feature, the following setting file must be amended:

\StonevoiceAS\Apps\ApplicationSuite\Settings**ApplicationSuite.defaults**

Locate the parameter "AllowBasicAuthForSsoUsersViaWebApi" and change its default value from 0 to 1 â
`AllowBasicAuthForSsoUsersViaWebApi=1`

UCX Cloud Suite customers can contact Imagicle Support to enable this feature in their Cloud instance.

Postman samples

The attached ZIP file (at the bottom of this page) contains a json collection file that you can import into Postman. It includes some useful samples to understand how to invoke with Postman the relevant API methods.

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Submit Fax

Submits a fax job, in order to send one or more documents to one or more recipients.

Resource URL

POST fw/Apps/StoneFax/WebAPI/Faxes/Outbound

Resource Information

- Request Content-Type: multipart/form-data
- Response Content-Type: application/json
- Requires authentication: Yes

URL Parameters

None

Request body

The request body is a multipart/form-data containing a part that describes the submit information and as many parts as the attachments you want to send along the fax.

The submit information part must be as follows:

- Content-Type: application/json
- Content-Disposition: form-data; name=jsondata
- The content of this part must be a JSON with the following model:

Fax

Name	Type	Required	Description	Default	Example
subject	string	optional	The subject of the fax	*null*	"The fax subject"
coverPageName	string	optional	The name of the cover page to use (not including the COV file extension). If specified, it must match the name of an existing cove page. If the specified coverpage does not exists, the fax will be sent without any coverpage.	*null*	"BusinessCover"
recipients	Recipient[]	required	The recipients of the fax. It must contain at least one recipient. See below for the Recipient data structure details.	[]	
sendAsUsername	string	optional	The username to use as the fax sender. • Level 2 users: can only send as the fax group they belong to • Level 6 users: like level 2 users	*null*	"userToImpersonate"

			• Level 10 users: can send as any valid Digital Fax user If not specified, the sender will be the user invoking this method.		
notifyByEmail	bool	optional	True if you want to receive email notifications about the transmission status. False otherwise	false	true
notificationEmailAddress	string	optional	Use this parameter to specify a recipient email address for the transmission report email, different from the sending user email address. If not specified, the sending user email address will be used. This parameter is ignored if notifyByEmail=FALSE	*null*	"mailfornotifications@domain.com"
speedyDirectoryName	string	optional	The name of an existing Speedy directory. Use this parameter to send the fax to every fax contact contained of the Speedy directory (fax multicast). Such contacts will be additional recipients respect to the ones specified by the Recipients[] array.	*null*	"directory1"
body	string	optional	The fax body (plain text). If null or empty, then the rest of the multipart body must contain at least one valid attachment.	*null*	"The fax body"

Recipient

Name	Type	Required	Description	Default	Example
firstName	string	optional	Recipient's first name	*null*	"John"
lastName	string	optional	Recipient's last name	*null*	"Doe"
faxNumber	string	required	Recipient's fax number	*null*	"123456"

Response

202 Accepted

Fax has been submitted and is being processed.

Response body

Name	Type	Description
ids	string[]	The submitted job ids (one per recipient)

Error response

400 Bad Request

Response body

Name	Type	Description

reason	BadRequestReason	The reason why the request has been rejected

BadRequestReason

Value	Descritpion
SyntaxError	The JSON part contains a syntax error and cannot be parsed
InvalidRecipients	No recipients provided, or at least one of the recipients has no fax number
InvalidAttachments	The attachments supplied are invalid
InvalidDirectoryName	There is no such Speedy directory having the given name
InvalidUsername	There is no such user having the given username

401 Unauthorized

- No authentication provided
- Wrong credentials

403 Forbidden

- Insufficient privilege level
- Outgoing faxes disabled for the user
- Outgoing faxes disabled for the impersonated user

Examples

Fax without attachments

This example sends a fax only containing a body (i.e. without attachments) to two recipients, enabling email notifications:

POST fw/Apps/StoneFax/WebAPI/Faxes/Outbound

Request body:

```
--dcb45cdc-6ac3-46ad-8dea-892a8989588d
Content-Type: application/json; charset=utf-8
Content-Disposition: form-data; name=jsondata

{
   "subject" : "My fax subject",
   "coverPageName" : "BusinessCover",
   "recipients" :
   [
      {
         "firstName" : "John",
         "lastName" : "Doe",
         "faxNumber" : "123456"
      },
      {
         "firstName" : "Jane",
         "lastName" : "Doe",
         "faxNumber" : "789012"
      }
   ],
   "notifyByEmail" : "true",
   "body" : "Hello everybody!"
}
--dcb45cdc-6ac3-46ad-8dea-892a8989588d
```

The response body is:

```
{
   "ids":[
```

```
            "IAS-N1_6a504a1d-12d6-44a7-a249-db6c4389f413_0",
            "IAS-N1_6a504a1d-12d6-44a7-a249-db6c4389f413_1"
         ]
}
```

Fax with an attachment

This other example sends a fax only with a body and an attachment to one recipient, enabling email notifications:

POST fw/Apps/StoneFax/WebAPI/Faxes/Outbound

Request body:

```
--8176a96c-1355-400a-8d63-69a230e8c5ea
Content-Type: application/json; charset=utf-8
Content-Disposition: form-data; name=jsondata

{
   "subject" : "My fax subject with an attachment",
   "coverPageName" : "BusinessCover",
   "recipients" :
   [
      {
         "firstName" : "John",
         "lastName" : "Doe",
         "faxNumber" : "123456"
      }
   ],
   "notifyByEmail" : "true",
   "body" : "Hello everybody! Please find the attachment."
}
--8176a96c-1355-400a-8d63-69a230e8c5ea
Content-Disposition: form-data; name=""; filename="Attachment.txt"
Content-Type: text/plain

Hi, I'm an attachment!

--8176a96c-1355-400a-8d63-69a230e8c5ea
```

The response body is:

```
{
   "ids":[
            "IAS-N1_1322b0b2-696f-4b0e-807d-3707e9a5d1d2_0"
         ]
}
```

Fax with multiple attachments

If you need to send a fax with two or more attachments, all you have to do is add one form part for each additional attachment you need to send. In this example we send a fax with a body and two attachments:

POST fw/Apps/StoneFax/WebAPI/Faxes/Outbound

Request body:

```
--8176a96c-1355-400a-8d63-69a230e8c5ea
Content-Type: application/json; charset=utf-8
Content-Disposition: form-data; name=jsondata

{
   "subject" : "My fax subject with an attachment",
```

```
   "coverPageName" : "BusinessCover",
   "recipients" :
   [
      {
         "firstName" : "John",
         "lastName" : "Doe",
         "faxNumber" : "123456"
      }
   ],
   "notifyByEmail" : "true",
   "body" : "Hello everybody! Please find the attachment."
}
--8176a96c-1355-400a-8d63-69a230e8c5ea
Content-Disposition: form-data; name=""; filename="Attachment1.txt"
Content-Type: text/plain

Hi, I'm an attachment!

--8176a96c-1355-400a-8d63-69a230e8c5ea
Content-Disposition: form-data; name=""; filename="Attachment2.txt"
Content-Type: text/plain

Hi, I'm another attachment!

--8176a96c-1355-400a-8d63-69a230e8c5ea
```

The response body is:

```
{
   "ids":[
            "IAS-N1_1322b0b2-696f-4b0e-807d-3707e9a5d1d2_0"
         ]
}
```

Get Outbound Fax Details

Gets the details of an outbound fax identified by its id.

Resource URL

GET fw/Apps/StoneFax/WebAPI/Faxes/Outbound/{id}

Resource Information

- Response Content-Type: application/json
- Requires authentication: Yes

URL Parameters

Name	Type	Required	Description	Default	Example
id	string	required	The id of the fax	*null*	IAS-N1_d53957a4-c6fa-4a89-9198-f32da47e6a58_0

Response

200 OK

Fax info have been returned.

Response body

Response body is a JSON object representing outbound fax data:

Name	Type	Description
fax	Fax	The outbound fax data

Fax

Name	Type	Description
faxId	string	The fax id
username	string	The username of the user the fax belongs to
subject	string	The fax subject
recipient	Recipient[]	The fax recipients
status	Status	The status of the fax. Possible values are: • Completed • Failed • Queued • InProgress • Canceled
detailedStatus	string	A more detailed version of the fax status
numberOfPages	int	The number of fax pages
serverName	string	The name of the server that sent the fax
submitTime	DateTime	The time when the fax has been submitted to the system (ISO 8601)
startTime	DateTime	The time when the fax sending was started (ISO 8601)
endTime	DateTime	The time when the fax sending was concluded (ISO 8601)
failureReason	string	The possible failure reason

Q931Code	int	The Q931 Code representing the possible failure reason
size	int	Size in bytes of the fax

Recipient

Name	Type	Description
name	string	The complete name (first and last name) of the recipient
faxNumber	string	The recipient's fax number

Error response

401 Unauthorized

- No authentication provided
- Wrong credentials

403 Forbidden

- Insufficient privilege level

404 NotFound

- No such outbound fax having the given id

Examples

GET fw/Apps/StoneFax/WebAPI/Faxes/Outbound/IAS-N1_d53957a4-c6fa-4a89-9198-f32da47e6a58_0


```
{
   "__type":"OutboundFax:StoneFax.Faxes",
   "detailedStatus":null,
   "endTime":"2016-11-25T15:57:40.0000000",
   "faxId":"IAS-N1_6a504a1d-12d6-44a7-a249-db6c4389f413_0",
   "numberOfPages":1,
   "recipient":{
                  "faxNumber":"10002",
                  "name":"Mario Rossi"
               },
   "serverName":"IAS-N1",
   "size":2897,
   "startTime":"2016-11-25T15:57:12.0000000",
   "status":"Completed",
   "username":"user1",
   "Q931Code":null,
   "failureReason":null,
   "subject":"The fax subject",
   "submitTime":"2016-11-25T15:56:56.0000000"
}
```

Download outbound fax document

Downloads an outbound fax document.

Resource URL

GET fw/Apps/StoneFax/WebAPI/Faxes/Outbound/{id}.{format}

Resource Information

- Response Content-Type: depending on the value of {format} parameter:
  - tiff: image/tiff
  - pdf: application/pdf
- Requires authentication: Yes

URL Parameters

Name	Type	Required	Description	Default	Example
id	string	required	The id of the fax to download	*null*	IAS-N1_d53957a4-c6fa-4a89-9198-f32da47e6a58_0
format	Format	required	The format of the file to download. Must be one of the following: • pdf • tiff	*null*	pdf

Response

200 OK

Fax has been downloaded.

Error response

401 Unauthorized

- No authentication provided
- Wrong credentials

403 Forbidden

- Insufficient privilege level

404 NotFound

- No such fax outbound having the given id

410 Gone

- The fax exists, but related document has been removed

Examples

GET fw/Apps/StoneFax/WebAPI/Faxes/Outbound/IAS-N1_d53957a4-c6fa-4a89-9198-f32da47e6a58_0.tiff

Get Outbound Faxes List

Gets the list of outgoing faxes owned by authenticated user.

Resource URL

```
GET fw/Apps/StoneFax/WebAPI/Faxes/Outbound/Mine
```

Resource Information

- Response Content-Type: application/json
- Requires authentication: Yes

URL Parameters

Name	Type	Required	Description	Default	Example
page	int	optional	The number of the page which we want to retrieve. It must be greater or equal than 1.	1	3
pageSize	int	optional	The size of the page where the results will be stored in. It must be greater or equal than 0. If 0, page will be ignored and will be returned all inbound faxes of the user.	0	10
date	string	optional	The time interval of the faxes to be retrieved. It must be specified via RHS colon syntax using one of the following operators: "between", "after", "before".	null	between:2018-01-01T00:00:00;2018-12-31T23:59:59

Response

200 OK

The list of outgoing faxes is returned.

Response body

Response body is a JSON object representing outbound faxes list:

Name	Type	Description
faxlist	Fax	The outbound faxes list

Fax

Name	Type	Description
faxId	string	The fax id
username	string	The username of the user the fax belongs to
recipient	Recipient	The fax recipient
subject	string	The subject of the fax
status	Status	The status of the fax. Possible values are: • Completed • Failed

		• Queued • InProgress • Canceled
date	string	The ISO date when the fax has been submitted

Recipient

Name	Type	Description
name	string	The complete name (first and last name) of the recipient
faxNumber	string	The recipient's fax number

Error response

400 Forbidden

- The filters are not valid

401 Unauthorized

- No authentication provided
- Wrong credentials

403 Forbidden

- Insufficient privilege level

404 NotFound

- No such outbound fax having the given id

Examples

```
GET fw/Apps/StoneFax/WebAPI/Faxes/Outbound/Mine
```


```
{
    "faxList": [
        {
            "__type": "LessInfoOutboundFax:StoneFax.Faxes",
            "date": "2020-12-02T16:20:44.0000000",
            "faxId": "IAS-N1_eb031e4f-58fd-45af-ae0d-77f95d5ce6d1_0",
            "recipient": {
                "faxNumber": "200",
                "name": "200"
            },
            "status": "Completed",
            "username": "user1",
            "subject": "abc"
        }
    ]
}
```

Get Inbound Faxes List

Gets the list of inbound faxes owned by authenticated user.

Resource URL

```
GET fw/Apps/StoneFax/WebAPI/Faxes/Inbound/Mine
```

Resource Information

- Response Content-Type: application/json
- Requires authentication: Yes

URL Parameters

Name	Type	Required	Description	Default	Example
page	int	optional	The number of the page which we want to retrieve. It must be greater or equal than 1.	1	3
pageSize	int	optional	The size of the page where the results will be stored in. It must be greater or equal than 0. If 0, page will be ignored and will be returned all inbound faxes of the user.	0	10
date	string	optional	The time interval of the faxes to be retrieved. It must be specified via RHS colon syntax using one of the following operators: "between", "after", "before".	null	between:2018-01-01T00:00:00;2018-12-31T23:59:59

Response

200 OK

The list of incoming faxes is returned.

Response body

Response body is a JSON object representing inbound faxes list:

Name	Type	Description
FaxList	Fax	The inbound faxes list

Fax

Name	Type	Description
faxId	string	The fax id
username	string	The username of the user the fax belongs to
recipient	Recipient	The fax recipient
sender	Sender	The fax sender
status	Status	The status of the fax. Possible values are: • Completed • Failed • Queued • InProgress • Canceled
date	string	The ISO date when the fax has started to be received

Sender

Name	Type	Description
name	string	The complete name (first and last name) of the sender
faxNumber	string	The sender's fax number

Recipient

Name	Type	Description
name	string	The complete name (first and last name) of the recipient
faxNumber	string	The recipient's fax number

Error response

400 Forbidden

- The filters are not valid

401 Unauthorized

- No authentication provided
- Wrong credentials

403 Forbidden

- Insufficient privilege level

Examples

```
GET fw/Apps/StoneFax/WebAPI/Faxes/Inbound/Mine
```


```
{
    "faxList": [
        {
            "__type": "LessInfoInboundFax:StoneFax.Faxes",
            "date": "2020-12-02T16:33:31.0000000",
            "faxId": "IAS-N1_401d6c8c07d6b7a_0",
            "recipient": {
                "faxNumber": "200",
                "name": "user2"
            },
            "status": "Completed",
            "username": "user2",
            "sender": {
                "faxNumber": "100",
                "name": null
            }
        }
    ]
}
```

Get Inbound Fax Details

Gets the details of an inbound fax identified by its id.

Resource URL

```
GET fw/Apps/StoneFax/WebAPI/Faxes/Inbound/{id}
```

Resource Information

- Response Content-Type: application/json
- Requires authentication: Yes

URL Parameters

Name	Type	Required	Description	Default	Example
id	string	required	Fax ID	*null*	IAS-N1_401d6c8c07d6b7a_0

Response

200 OK

Fax info have been returned.

Response body

Response body is a JSON object representing outbound fax data:

Name	Type	Description
fax	Fax	The inbound fax data

Fax

Name	Type	Description
faxId	string	The fax id
username	string	The username of the user the fax belongs to
subject	string	The fax subject
recipient	Recipient[]	The fax recipients
sender	Sender	The fax sender
status	Status	The status of the fax. Possible values are: • Completed • Failed • Queued • InProgress • Canceled
numberOfPages	int	The number of fax pages
detailedStatus	string	A more detailed version of the fax status
serverName	string	The name of the server that sent the fax
submitTime	DateTime	The time when the fax has been submitted to the system (ISO 8601)
startTime	DateTime	The time when the fax sending was started (ISO 8601)
endTime	DateTime	The time when the fax sending was concluded (ISO 8601)

size	int	Size in bytes of the fax

Sender

Name	Type	Description
name	string	The complete name (first and last name) of the sender
faxNumber	string	The sender's fax number

Recipient

Name	Type	Description
name	string	The complete name (first and last name) of the recipient
faxNumber	string	The recipient's fax number

Error response

401 Unauthorized

- No authentication provided
- Wrong credentials

403 Forbidden

- Insufficient privilege level

404 Not Found

- No such inbound fax having the given id

Examples

```
GET fw/Apps/StoneFax/WebAPI/Faxes/Inbound/IAS-N1_401d6c8c07d6b7a_0
```


```
{
    "fax": {
        "__type": "InboundFax:StoneFax.Faxes",
        "detailedStatus": null,
        "endTime": "2020-12-02T16:34:45.0000000",
        "faxId": "WIN-SM96NKMUNDO_401d6c8c07d6b7a_0",
        "numberOfPages": 2,
        "recipient": {
            "faxNumber": "200",
            "name": "user2"
        },
        "serverName": "WIN-SM96NKMUNDO",
        "size": 63616,
        "startTime": "2020-12-02T16:33:31.0000000",
        "status": "Completed",
        "username": "user2",
        "sender": {
            "faxNumber": "100",
            "name": null
        }
    }
}
```

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Download Inbound fax document

Get the document of the fax identified by given id and format

Resource URL

```
GET fw/Apps/StoneFax/WebAPI/Faxes/Inbound/{id}.{format}
```

Resource Information

- Response Content-Type (two possible values, depending on "format"):
  - tiff: image/tiff
  - pdf: application/pdf
- Requires authentication: Yes

URL Parameters

Name	Type	Required	Description	Default	Example
id	string	required	The id of the fax which you want retrieve the document	*null*	IAS-N1_401d6c8c07d6b7a_0.pdf
format	string	required	The format of the file to download. Must be one of the following: • pdf • tiff	*null*	pdf

Response

200 OK

Fax has been downloaded.

Error response

401 Unauthorized

- No authentication provided
- Wrong credentials

403 Forbidden

- Insufficient privilege level

404 NotFound

- No such inbound fax having the given id

410 Gone

- The fax exists, but related document has been removed

Examples

```
GET fw/Apps/StoneFax/WebAPI/Faxes/Inbound/IAS-N1_401d6c8c07d6b7a_0.pdf
```