

FAXAGE

Internet Fax API Documentation

EC Data Systems, Inc.
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Overview

The FAXAGE Internet Fax API provides capabilities that an application programmer can use to integrate Fax capabilities into their application utilizing the FAXAGE service as a backend. The integration itself is accomplished via HTTPS POST operations.

POSTS are sent to the following URLs:

- <https://www.faxage.com/httpsfax.php> - Fax sending and receiving operations
- <https://www.faxage.com/getcdr.php> - Call detail record collection
- <https://www.faxage.com/provision.php> - Automated number provisioning

Each of these URLs will be described in this documentation in terms of both required and optional variables that are sent to the URL in order to accomplish certain operations. Responses from the FAXAGE system are additionally defined throughout this documentation in the relevant section.

Example code is supplied in Perl, Java, PHP, Visual Basic (as a Visual Studio 2010 project) and Progress for one or more of these operations. The basic structure (HTTPS POST with a series of required and optional variables passed in) is essentially the same for all components and operations that can be performed utilizing the API. Thus an example of every operation in every language is not supplied.

The httpsfax.php URL

There are nine basic operations (six related to sending and three for receiving) as detailed below. There are also four ‘other’ operations for enabling and disabling inbound fax reception on DID’s assigned to your account, checking portability and listing currently assigned DID’s. Each of these operations is described in further detail later in this document, as far as required and optional parameters and possible responses.

Sending-related Operations

1. **sendfax** - allows for posting one or more files that will be faxed to a specified destination. It can also accept a URL rather than file(s) and will download the specified URL and fax out the HTML content or document that the URL points to
2. **status** - allows for checking status (pending, success, failure) of a fax that has been sent
3. **dlstatus** - allows for downloading a copy of a sent fax as imaged and sent
4. **dltrans** – allows for downloading a ‘transmittal page’ PDF (job summary information, plus shrunk-down version of first page) for sent faxes.
5. **clear** - allows for deleting status records for faxes that have completed sending (either success or failed)
6. **stopfax** - allows a pending job to be stopped/cancelled

Receiving-related Operations

1. **listfax** - allows for listing of currently received faxes
2. **getfax** - allows for downloading of a received fax
3. **delfax** - allows for deleting a received fax (presumably after it’s downloaded)

Other Operations

1. **disabledid** - allows for a number to be ‘busied out’ so that faxes cannot come in to it
2. **enabledid** - allows for a number that had been disabled to be re-enabled (all numbers are enabled for inbound by default when set up)
3. **portable** - allows for checking of a phone number as to whether or not FAXAGE can provide service in the rate center in which the number resides. I.e.: whether or not the number is potentially portable to FAXAGE
4. **listlines** - allows for listing all currently assigned DID’s

A debugging URL is also provided that is equivalent to the httpsfax.php URL, except that it also returns the contents of your POST, so that you can see what our server thinks you passed us:

<https://www.faxage.com/httpsfax-debug.php>

Sendfax Operation

The sendfax-example.pl script provides an example of code that uses this operation. Examples for the sendfax operation are also provided in Visual Basic (.NET, VS 2010), Java, PHP and Progress. All of these can be found under the example-code directory distributed with the API zip file.

Note the optional 'URL Mode' below. If you wish to POST a URL to be downloaded and faxed out rather than file data, please use the variables shown rather than the first set of Required POST Variables which are for the 'standard' mode.

Supported File Types

As of this writing, the following file types are supported for sending, others may become available over time, so please check with us if the type of content you wish to send is not listed here:

Description	Extension(s)
JPEG Image	JPG, JPEG
Adobe PDF	PDF
Adobe PostScript	PS
TIFF Image	TIF, TIFF
Microsoft Word	DOC
Microsoft Word Template	DOT
Microsoft Word 2007	DOCX
OpenOffice Writer Doc (Open Document Text)	ODT
Rich Text	RTF
Microsoft Excel	XLS
Microsoft Excel 2007	XLSX
OpenOffice Calc Spreadsheet	ODS
Comma-separated CSV	CSV
HTML	HTM, HTML
Bitmap Image	BMP
GIF Image	GIF
HP Printer Control Language	PCL
Plain Text	TXT

Required POST Variables for Standard Mode

Variable	Description
username	Assigned FAXAGE username
company	Assigned FAXAGE company credential
password	Assigned FAXAGE password
recipname	Recipient Name – 32 chars max
faxno	Fax Number – 10 digits, numeric only
operation	Hard coded to ‘sendfax’ (w/o the quotes)
faxfilenames[]	Array of file names. These must end in a supported extension – see the table above for a list
faxfiledata[]	Corresponding array of base64-encoded strings that are the contents/data of the file in faxfilenames. E.g.: if faxfilenames[0] is test.doc, then faxfiledata[0] should be the base64-encoded contents of test.doc

Required POST Variables for URL Mode

The URL mode will support faxing the HTML content and will use stylesheets as well as images, etc. However, any client-side scripting will not be executed by the parser on our end.

Any supported file type (such as a Word document or PDF) may also be passed in URL mode, provided that these are available at a designated URL. Use the optional faxurltypes[] array if they are script-supplied (i.e.: the extension of the URL does not match the document type), otherwise HTML content is assumed for all URLs.

HTML passed to FAXAGE (in standard mode as a file versus URL mode) can contain external hyperlinks to images, etc. via HTTP or HTTPS as long as the links are absolute (i.e.: begin with http:// or https://) or images, etc. can be passed as additional files along with the HTML, depending on developer preference.

Variable	Description
username	Assigned FAXAGE username
company	Assigned FAXAGE company credential
password	Assigned FAXAGE password
recipname	Recipient Name – 32 chars max
faxno	Fax Number – 10 digits, numeric only
operation	Hard coded to ‘sendfax’ (w/o the quotes)
faxurl	Absolute URL path (beginning with http:// or https://) to the URL to be faxed
faxurls[]	Can be used in place of Faxurl to send an array list of multiple URLs to be faxed

Optional POST Variables for Both URL and Standard Modes

Variable	Description
tagname	In the header of each fax page, this specifies the name that will follow From: If unspecified, the default for your company will be used
tagnumber	In the header of each fax page, this specifies the fax number that will follow tagname. 14 characters max. If unspecified, the default for your company will be used. This should be in 1.XXX.XXX.XXXX format
em_notify	If this variable is set to 1, then the final status of the job will be pushed via email to the email address associated with the user credentials that submitted the job. This can be used as an alternative to polling for status through the API. The format of the email is the JOBID (see 'possible responses' below) in the subject line and the body will contain the same record format as would be provided by the 'status' operation (see the <StatusRecord> format definition in the 'status' operation section of this document)
url_notify	Set to an absolute URL (beginning with http:// or https://) to have the FAXAGE system POST back the fax job status record when the fax completes. See the 'Callback URL POST' section below for a listing of what is posted back.
resolution	Set to '1' for fine resolution or '2' for hyperfine. If not passed, the fax will use your default account settings (as specified in the website under 'Admin' -> 'Outgoing Fax Settings' -> 'Resolution and Retries')
contrastalgo	Set to '1' for the default contrast enhancement algorithm or '2' for an algorithm that produces more darkening (useful for lighter scans). The default if not passed is '1'
priority	Set to 'high' or 'low'. By default, if this is not passed, the priority is 'high'. Setting certain faxes to 'low' priority allows your other faxes to complete ahead of them by jumping ahead of low priority faxes in your queue. For instance, you could send a batch of faxes as 'low' priority, but one-off user faxes as 'high', so that they would be able to jump the queue ahead of your batch

Optional POST Variables for URL Mode Only

Variable	Description
async	If this variable is set to 1, then the FAXAGE system will return your jobid immediately and retrieve the URL content specified asynchronously (after your connection is completed). The default is

	to retrieve the URL before returning
faxurltypes[]	If the faxurls[] array is used, this can be passed as well. By default the system determines the filetype of a URL based on its extension and defaults to HTML if unknown (such as an ASP or PHP page being passed). The faxurltypes[] array can contain a list of extensions, corresponding to the indexes in the faxurl[] array. For example, if faxurls[0] is http://www.example.com/download.asp?docid=2 and this URL will return a Word document, then faxurltypes[0] would be set to 'doc'

Possible Responses

Response	Meaning
ERR01: Database connection failed	Internal FAXAGE error
ERR02: Login incorrect	One or more of username, company, password is incorrect or your account is disabled for some reason
ERR03: No files to fax	No valid files were found in faxfilenames[] and/or faxfiledata[]
ERR04: Fax number <number> appears to be invalid	The faxno variable does not contain a 10-digit numeric only string
ERR05: <reason>	The number you tried to fax to was blocked (outside of continental US, Canada and Hawaii or a 555, 911, or other invalid/blocked type of number)
JOBID: <numeric-job-id>	Successful send. The jobid reported can later be used to get status, etc. for this job
ERR08: Unknown operation specified or bad POST <POST contents>	Either operation is not correctly hard coded or the POST was bad, the POST contents are returned for debugging purposes
ERR15: Invalid Job ID	Internal FAXAGE error – the job was not properly inserted into our database

Callback URL POST Response

If url_notify is passed into the initial sendfax call, then the following variables and values will be posted back to a URL you specify when the fax completes. You will need to set up a web page at the URL you designate in the sendfax call that can handle a POST of the variables listed below and do what you need with the information. It is still possible to poll for status (using the 'status' operation) if a callback is missed for any reason.

Variable Name	Value
jobid	The numeric jobid returned by sendfax originally
commid	Numeric communications job identifier
destname	The destination name
destnum	The destination fax number
shortstatus	One of 'pending', 'success' or 'failure'
longstatus	Descriptive failure reason or other descriptive text about the status. NOTE: This text is intended to be human-readable and is subject to change, programmatic parsing or rendering of the 'longstatus' field is not recommended.
sendtime	Time this job was submitted YYYY-MM-DD HH:MM:SS format
completetime	Time this job was completed YYYY-MM-DD HH:MM:SS format, all 0's if the job is pending
xmittime	Transmit time for this job HH:MM:SS format
pagecount	The number of pages in the job
xmitpages	The number of pages actually transmitted (once the job is completed – it shows '0' while the fax is in progress)

Status Operation

The status-example.pl script provides an example of code that uses this operation.

Required POST Variables

Variable	Description
username	Assigned FAXAGE username
company	Assigned FAXAGE company credential
password	Assigned FAXAGE password
operation	Hard coded to 'status' (w/o the quotes)

Optional POST Variables

Variable	Description
jobid	If specified, reports only the status of the requested jobid, otherwise reports status of all jobids for your company
jobids[]	Alternative to 'jobid' to request status for an array list of jobs as opposed to a single job
pagecount	Hard code this variable to '1'. If passed, this will cause the page count to be displayed as the last field on each status record. If not passed, then page counts will not be displayed
useronly	Hard code to '1'. If passed, the status call will only show records pertaining to faxes sent by the calling username, versus showing all records for the account, which is the default mode of operation
extqueue	Hard code to '1'. If passed, extended queue status will be shown for faxes that are currently in queue
csid	Hard code to '1'. If passed, will return the remote station ID for completed faxes
showlogin	Hard code to '1'. If passed, will show the username corresponding to the credentials that were used to send the fax
xmitpages	Hard code to '1'. If passed, will show the number of pages actually transmitted
begin	Date and time from which status records should begin in YYYY-MM-DD HH:MM:SS format
end	Date and time from which status records should end in YYYY-MM-DD HH:MM:SS format

Possible Responses

Response	Meaning
ERR01: Database connection failed	Internal FAXAGE error
ERR02: Login incorrect	One or more of username, company, password is

	incorrect or your account is disabled for some reason
ERR06: No jobs to display or job id specified not found	The jobid you passed was not found or there are simply no jobs to report for your company at this time
<StatusRecord>	<p>The format of the status record(s) returned is as follows (newline separation if multiple records). See below for definition of each field</p> <pre><jobid><tab><commid><tab><destname><tab><destnum><tab><shortstatus><tab><longstatus><tab><sendtime><tab><completetime><tab><xmittime>(OPTIONAL: <tab><pagecount><tab><csid><tab><login><tab><xmitpages>)</pre> <p>See the pagecount optional variable above – A page count may be passed as a final field</p>
ERR08: Unknown operation specified or bad POST <POST contents>	Either operation is not correctly hard coded or the POST was bad, the POST contents are returned for debugging purposes

Definition of Status Record Fields

jobid – The numeric jobid returned by sendfax originally

commid – Communications job identifier. Useful for support debugging

destname – The destination name

destnum – The destination fax number

shortstatus – One of ‘pending’, ‘success’ or ‘failure’

longstatus – Descriptive failure reason or other descriptive text about the status. NOTE: This text is intended to be human-readable and is subject to change, programmatic parsing or rendering of the ‘longstatus’ field is not recommended. If the extqueue value is passed, then the longstatus will be postfixed with ‘Tries: <number of tries so far> Status: <status of last attempt>’. This can be useful for monitoring what is going with retries on jobs

sendtime – Time this job was submitted YYYY-MM-DD HH:MM:SS format

completetime – Time this job was completed YYYY-MM-DD HH:MM:SS format, all 0’s if the job is pending

xmittime – Transmit time for this job

pagecount – Optional if the pagecount variable is POSTed. This will display the number of pages in the job

csid – Optional if the csid variable is POSTed. This will display the CSID (the fax machine identifier) for the station called, if available

login – Optional if the showlogin variable is POSTed. This will display the login of the credentials that sent each fax record

xmitpages – Optional if the xmitpages variable is POSTed. This will display the number of pages actually transmitted (once the job is completed – it shows '0' while the fax is in progress)

Dlstatus Operation

Required POST Variables

Variable	Description
username	Assigned FAXAGE username
company	Assigned FAXAGE company credential
password	Assigned FAXAGE password
operation	Hard coded to 'dlstatus' (w/o the quotes)
jobid	The jobid to retrieve

Possible Responses

Response	Meaning
ERR01: Database connection failed	Internal FAXAGE error
ERR02: Login incorrect	One or more of username, company, password is incorrect or your account is disabled for some reason
ERR06: No jobs to display or job id specified not found	The jobid you passed was not found or there are simply no jobs to report for your company at this time
ERR24: File is not yet converted	Images can only be retrieved after the file(s) have actually been imaged (I.e.: The fax must either be In Queue or completed to be able to retrieve an image)
ERR25: File does not exist	This can be either an internal error, or if the status is a 'Failed Conversion', then there is no image to retrieve
<TIFF IMAGE DATA>	In the successful case, a binary response of the TIFF image of the transmitted fax is returned

DltransOperation

Required POST Variables

Variable	Description
username	Assigned FAXAGE username
company	Assigned FAXAGE company credential
password	Assigned FAXAGE password
operation	Hard coded to 'dltrans' (w/o the quotes)
jobid	The jobid to retrieve

Possible Responses

Response	Meaning
ERR01: Database connection failed	Internal FAXAGE error
ERR02: Login incorrect	One or more of username, company, password is incorrect or your account is disabled for some reason
ERR06: No jobs to display or job id specified not found	The jobid you passed was not found or there are simply no jobs to report for your company at this time
ERR24: File is not yet converted	Images can only be retrieved after the file(s) have actually been imaged (I.e.: The fax must either be In Queue or completed to be able to retrieve an image)
ERR25: File does not exist	This can be either an internal error, or if the status is a 'Failed Conversion', then there is no image to retrieve
<PDF FILE>	In the successful case, a binary response of a PDF, which is a transmittal page is returned

Clear Operation

The clear-example.pl script provides an example of code that uses this operation. Clear will only clear records of completed jobs (presumably after the programmer has processed them using the status operation). Pending jobs cannot be cleared through the API.

Required POST Variables

Variable	Description
username	Assigned FAXAGE username
company	Assigned FAXAGE company credential
password	Assigned FAXAGE password
operation	Hard coded to 'clear' (w/o the quotes)
jobid	The jobid to clear the status record for

Optional POST Variables

None

Possible Responses

Response	Meaning
ERR01: Database connection failed	Internal FAXAGE error
ERR02: Login incorrect	One or more of username, company, password is incorrect or your account is disabled for some reason
ERR07: Job ID: <jobid> not found, does not belong to you or is pending and cannot be cleared yet	The jobid you passed was not found, is not a job for your company or is in a pending state
<jobid> cleared	Successful clear of the specified jobid's status record
ERR08: Unknown operation specified or bad POST <POST contents>	Either operation is not correctly hard coded or the POST was bad, the POST contents are returned for debugging purposes

Listfax Operation

The listfax-example.pl script provides an example of code that uses this operation.

Required POST Variables

Variable	Description
username	Assigned FAXAGE username
company	Assigned FAXAGE company credential
password	Assigned FAXAGE password
operation	Hard coded to 'listfax' (w/o the quotes)

Optional POST Variables

Variable	Description
useronly	Hardcode to '1'. If specified only shows faxes that the currently passed credentials (if a non-manager account is being used) has access to from a website-security perspective. This allows automatic filtering on a per-user basis when using the API if it is desirable to control user access on the FAXAGE side versus building your own capabilities to filter faxes into your application
idasc	Hardcode to '1'. Causes faxes to be listed in order by recvid (see listfax record definition below) ascending. Recvid is an incremented numeric field, so this is basically an 'oldest to newest' type of listing. The default is to list by the receiving number, then by date received descending ('newest to oldest', grouped by receiving fax number)
filename	Hardcode to '1'. Causes a fifth returned column, which contains the internal filename associated with each received fax
starttime	Hardcode to '1'. If set, causes the start time as well as the received time to be returned (the recvdate is the receive time in the return record, which is really the 'end time' of the transmission). Using this, incoming fax duration can be calculated as recvdate - starttime
begin	Set to a YYYY-MM-DD HH:MM:SS format string to list only faxes received after the specified date/time
idgt	Set to a recvid in order to list faxes only greater than the passed recvid. Recvid is always unique and ascending, so sending the largest recvid you have seen so far ensures that you get only 'new' faxes that you have not yet listed
Pagecount	If passed, will return the page count for each fax as the last item in the record.

Possible Responses

Response	Meaning
ERR01: Database connection failed	Internal FAXAGE error
ERR02: Login incorrect	One or more of username, company, password is incorrect or your account is disabled for some reason
ERR11: No incoming faxes available	There are no incoming faxes to list for you
<Listfax Record>	<p>The format of the listfax record(s) returned is as follows (newline separation if multiple records). See below for definition of each field:</p> <pre><recvid><tab><recvdate>(OPTIONAL: <tab><starttime>) <tab><CID><tab><DNIS>(OPTIONAL: <tab><filename>)(OPTIONAL: <tab><pagecount>)</pre> <p>The 'OPTIONAL' return values above in parentheses have to do with whether the 'filename' and/or 'starttime' optional variables are passed.</p>
ERR08: Unknown operation specified or bad POST <POST contents>	Either operation is not correctly hard coded or the POST was bad, the POST contents are returned for debugging purposes

Definition of Listfax Record Fields

recvid – Numeric ID for this received fax

recvdate – Date/time fax was received YYYY-MM-DD HH:MM:SS format

starttime – Date/time the phone was initially answered for the call in YYYY-MM-DD HH:MM:SS format

CID – Caller ID (XXX)XXX-XXXX format, will be 'Unavailable' if unavailable

DNIS – The phone number the fax came in to (XXX)XXX-XXXX format. Useful for determining 'who' the fax is for if you have multiple phone numbers and use these to route

filename – The internal filename associated with this fax (e.g.: fax12345.pdf)

pagecount – The number of pages in the fax

Getfax Operation

The getfax-example.pl script provides an example of code that uses this operation. Note that faxes will be returned as either PDF's or TIFF's, depending on the settings in the website under 'Admin' -> 'Fax Format'. The default is PDF unless changed.

Required POST Variables

Variable	Description
username	Assigned FAXAGE username
company	Assigned FAXAGE company credential
password	Assigned FAXAGE password
operation	Hard coded to 'getfax' (w/o the quotes)
faxid	The numeric ID of the fax to get, retrieved from the listfax operation

Optional POST Variables

None

Possible Responses

Response	Meaning
ERR01: Database connection failed	Internal FAXAGE error
ERR02: Login incorrect	One or more of username, company, password is incorrect or your account is disabled for some reason
ERR12: FAX ID <faxid> not found or does not belong to you	The faxid passed in is invalid or is an ID that does not belong to your company
ERR13: File could not be opened	Internal FAXAGE error
<filedata>	Success condition. Headers will be content-type: application/octet-stream and disposition: attachment, a unique filename is also supplied in the headers. The actual data returned will be the binary contents of the fax itself. This looks just like a website sending a file to a browser for Open or Save type of operation. Depending on your company setup, the file will either be a TIFF image or an Adobe PDF
ERR08: Unknown operation specified or bad POST <POST contents>	Either operation is not correctly hard coded or the POST was bad, the POST contents are returned for debugging purposes

Delfax Operation

The delfax-example.pl script provides an example of code that uses this operation.

Required POST Variables

Variable	Description
username	Assigned FAXAGE username
company	Assigned FAXAGE company credential
password	Assigned FAXAGE password
operation	Hard coded to 'delfax' (w/o the quotes)
faxid	The numeric ID of the fax to delete, obtained from listfax

Optional POST Variables

None

Possible Responses

Response	Meaning
ERR01: Database connection failed	Internal FAXAGE error
ERR02: Login incorrect	One or more of username, company, password is incorrect or your account is disabled for some reason
ERR14: FAX ID <faxid> not found or does not belong to you	The requested faxid either does not exist or is not a fax belonging to your company
<faxid> Deleted	Success condition
ERR08: Unknown operation specified or bad POST <POST contents>	Either operation is not correctly hard coded or the POST was bad, the POST contents are returned for debugging purposes

Stopfax Operation

The stopfax-example.pl script provides an example of code that uses this operation.

NOTE: Only faxes 'In Queue' or 'Waiting for conversion' that are not currently transmitting can be stopped.

Required POST Variables

Variable	Description
username	Assigned FAXAGE username
company	Assigned FAXAGE company credential
password	Assigned FAXAGE password
operation	Hard coded to 'stopfax' (w/o the quotes)
jobid	The numeric ID of the fax to delete, obtained from listfax

Optional POST Variables

None

Possible Responses

Response	Meaning
ERR01: Database connection failed	Internal FAXAGE error
ERR02: Login incorrect	One or more of username, company, password is incorrect or your account is disabled for some reason
ERR19: JOB ID <jobid> not found or does not belong to you	The requested faxid either does not exist or is not a fax belonging to your company
<jobid> stopped	Success condition
ERR18: No jobid specified	The 'jobid' variable was not specified or did not contain a numeric job id
ERR20: Job ID - <jobid> - is not In Queue	The jobid is not currently in an 'In Queue' or 'Waiting for conversion' status and, therefore, is ineligible to be stopped
ERR21: Job ID - <jobid> - not found on fax server	The jobid is not on the fax server at present and, therefore, cannot be stopped. This may be indicative of an internal status error within FAXAGE
ERR22: Job ID - <jobid> - is in transmission	The jobid is currently being transmitted and, therefore, cannot be stopped
ERR23: Job ID - <jobid> - failed to stop	General failure to stop. The request is otherwise valid, but just didn't work
ERR08: Unknown operation specified or bad POST <POST contents>	Either operation is not correctly hard coded or the POST was bad, the POST contents are returned for debugging purposes

Disabledid Operation

The enable-disable-example.php script provides an example of code that uses this operation and the enabledid operation. 'Disabling' a DID causes all calls to that DID to receive a fast-busy signal. Enabling a DID turns it back on for faxes to come in. All DIDs are enabled by default when initially set up on FAXAGE.

Required POST Variables

Variable	Description
Username	Assigned FAXAGE username
Company	Assigned FAXAGE company credential
Password	Assigned FAXAGE password
Operation	Hard coded to 'disabledid' (w/o the quotes)
didnumber	The 10-digit did to disable

Optional POST Variables

None

Possible Responses

Response	Meaning
ERR01: Database connection failed	Internal FAXAGE error
ERR02: Login incorrect	One or more of username, company, password is incorrect or your account is disabled for some reason
ERR17: DID <didnumber> not found or doesn't belong to you	The requested didnumber either does not exist or is not a number belonging to your company
ERR16: invalid DID number - <didnumber>	The value of the 'didnumber' variable is not a 10-digit number or was not specified
Disabled <didnumber>	Success condition
ERR08: Unknown operation specified or bad POST <POST contents>	Either operation is not correctly hard coded or the POST was bad, the POST contents are returned for debugging purposes

Enabledid Operation

The enable-disable-example.php script provides an example of code that uses this operation and the disabledid operation. 'Disabling' a DID causes all calls to that DID to receive a fast-busy signal. Enabling a DID turns it back on for faxes to come in. All DIDs are enabled by default when initially set up on FAXAGE.

Required POST Variables

Variable	Description
Username	Assigned FAXAGE username
Company	Assigned FAXAGE company credential
Password	Assigned FAXAGE password
Operation	Hard coded to 'enabledid' (w/o the quotes)
didnumber	The 10-digit did to enable

Optional POST Variables

None

Possible Responses

Response	Meaning
ERR01: Database connection failed	Internal FAXAGE error
ERR02: Login incorrect	One or more of username, company, password is incorrect or your account is disabled for some reason
ERR17: DID <didnumber> not found or doesn't belong to you	The requested didnumber either does not exist or is not a number belonging to your company
ERR16: invalid DID number - <didnumber>	The value of the 'didnumber' variable is not a 10-digit number or was not specified
Enabled <didnumber>	Success condition
ERR08: Unknown operation specified or bad POST <POST contents>	Either operation is not correctly hard coded or the POST was bad, the POST contents are returned for debugging purposes

Portable Operation

This allows for checking a number against FAXAGE's rate center database to find out if it is portable to FAXAGE. What this actually checks is to see if the number is in a rate center we service.

Required POST Variables

Variable	Description
Username	Assigned FAXAGE username
Company	Assigned FAXAGE company credential
Password	Assigned FAXAGE password
Operation	Hard coded to 'portable' (w/o the quotes)
didnumber	The 10-digit did to check

Optional POST Variables

None

Possible Responses

Response	Meaning
ERR01: Database connection failed	Internal FAXAGE error
ERR02: Login incorrect	One or more of username, company, password is incorrect or your account is disabled for some reason
'0' or '1'	Success condition – 1 indicates portable, 0 indicates not portable
ERR08: Unknown operation specified or bad POST <POST contents>	Either operation is not correctly hard coded or the POST was bad, the POST contents are returned for debugging purposes

Listlines Operation

This allows for listing all lines currently assigned to your account.

Required POST Variables

Variable	Description
Username	Assigned FAXAGE username
Company	Assigned FAXAGE company credential
Password	Assigned FAXAGE password
Operation	Hard coded to 'listlines' (w/o the quotes)

Optional POST Variables

None

Possible Responses

Response	Meaning
ERR01: Database connection failed	Internal FAXAGE error
ERR02: Login incorrect	One or more of username, company, password is incorrect or your account is disabled for some reason
List of lines	Success condition – a newline-separated list of 10-digit numbers assigned to your account is returned
ERR08: Unknown operation specified or bad POST <POST contents>	Either operation is not correctly hard coded or the POST was bad, the POST contents are returned for debugging purposes

The getcdr.php URL

The getcdr.php URL provides an interface that allows for pulling call detail records from the FAXAGE system. This can be used by service providers for generating downstream billing or by clients who wish to have realtime CDR access for internal purposes (chargeback, accounting or usage monitoring, for example).

The getcdr.php functionality works by sending an HTTPS POST to <https://www.faxage.com/getcdr.php> with the following variables in the POST. Example code for this URL is provided under the 'PHP' example code directory distributed with this documentation.

Required POST variables

Variable Name	Value
Username	Assigned FAXAGE username
Company	Assigned FAXAGE company credential
Password	Assigned FAXAGE password

Optional POST variables

NOTE: Although these parameters show as optional, one of the below two options ***must*** be specified (otherwise, nothing will be returned):

- Both begin and end
- 'nuidgt' (generally used in conjunction with 'nuidshow')

Variable Name	Value
Begin	Timestamp in YYYY-MM-DD HH:MM:SS format from which records are to begin
End	Timestamp in YYYY-MM-DD HH:MM:SS format from which records are to end
Nuidshow	Utilized with the 'nuidgt' variable, this one shows the optional numeric unique ID for each call detail record (which can then be specified using the nuidgt variable for subsequent queries). Hardcode this to '1' to use
Nuidgt	Numeric unique ID for which only records greater than the value passed should be returned. Should be set to the highest prior numeric unique id that was returned, as these are always numerically incremented over time

Successful return values for the getcdr.php URL

The return record format looks like this if nuidshow is not set (begin/end are used). Records are newline-separated and comma-delimited within each record:

```
calldate,direction,src,dst,duration
```

If nuidshow is set to '1', then the format looks like this:

```
nuid,calldate,direction,src,dst,duration
```

Where:

Nuid – Numeric unique ID

Calldate – date/time of call start in YYYY-MM-DD HH:MM:SS format

Direction – One of 'IN' for inbound calls or 'OUT' for outbound calls

Src – The 'source' of the call. Caller ID number, basically

Dst – The 'destination' of the call. For outbound, this is the dialed number and for inbound this is the receiving fax number

Duration – Billable call duration (pickup to hangup) in seconds for this call record. Note, this is the raw billable duration and is not rounded to 6 second increments

In either case, records are ascending-sorted by calldate.

Possible error responses for the getcdr.php URL

Response	Meaning
ERR01: database connection failed	Internal FAXAGE error
ERR02: login incorrect	One or more of username, company or password is invalid or the account is currently locked out

The provision.php URL

The provision.php URL provides an interface that allows for assigning fax numbers from the FAXAGE system to your account. All numbers are provisioned as ‘virtual numbers’ tied to your account. This can be used by service providers or larger clients looking to automate number provisioning for end-users.

The provision.php functionality works by sending an HTTPS POST to <https://www.faxage.com/provision.php>. The following are the basic modes of operation:

- ‘listac’ returns a list of area codes in which numbers are available for provisioning
- ‘listnpanxx’ returns a list of NPANXX’s (first 6 digits of the phone number) in which numbers are available for provisioning
- ‘listdids’ returns a list of available DIDs for provisioning
- ‘providid’ provisions a specific DID to your account
- ‘deprovidid’ de-provisions (removes) a specific DID from your account

A typical workflow (if using this for user self-signup), might be:

1. Call listac and give the user a list of area codes
2. User picks an area code
3. Call listnpanxx and give the user a list of localities within the area code they picked
4. User picks an NPANXX
5. Call listdids and give the user a list of DID’s they can choose from
6. User picks a DID
7. Call providid and provision the selected DID to your account on the user’s behalf

Example code for this URL is provided under the ‘PHP’ example code directory distributed with this documentation. The ‘listdids’ and ‘providid’ functions are shown in the example.

Possible error responses for the provision.php URL

These responses apply to all possible operations. Operation specific error responses and success cases are documented under each operation separately.

Response	Meaning
ERR01: database connection failed	Internal FAXAGE error
ERR02: login incorrect	One or more of username, company or password is invalid or the account is currently locked out
ERR03: unknown operation	The 'operation' variable is not specified or does not have one of the valid operations as its value

The listac operation

This operation lists available area codes for provisioning.

Required POST variables

Variable Name	Value
username	Assigned FAXAGE username
company	Assigned FAXAGE company credential
password	Assigned FAXAGE password
operation	Hard code to 'listac'

Optional POST variables

None

Possible Return Values

A newline separated list of area codes in which the system has DID's available for provisioning. E.g.:

202
303
415
....

The listnpanxx operation

This operation lists NPANXX's (first six digits of a phone number) available for provisioning.

Required POST variables

Variable Name	Value
username	Assigned FAXAGE username
company	Assigned FAXAGE company credential
password	Assigned FAXAGE password
operation	Hard code to 'listnpanxx'

Optional POST variables

Variable Name	Value
ac	If passed and set to an area code, the returned npanxx list will only be for the area code passed (the default, if this variable is not passed, is to return all npanxx's available)

Possible Return Values

A list of npanxx's in which the system has DID's available for provisioning or nothing if the 'ac' value was passed and it is not an Area Code in which DID's are available.

The return records are newline separated and are in the following format:

```
<npanxx><tab><rcname><tab><rcstate>
```

Where:

npanxx – The first six digits of a telephone number

rcname – The Ratecenter name associated with this NPANXX (locality, like 'Denver' or 'San Francisco', etc.)

rcstate – The state in which the Ratecenter is located for this NPANXX

Note that for toll-free DID's, both rcname and rcstate will be 'Toll-Free'

An example returned value would be:

```
303991<tab>Denver<tab>CO
```

The listdids operation

This operation lists DID's (full telephone numbers) available for provisioning.

Required POST variables

Variable Name	Value
username	Assigned FAXAGE username
company	Assigned FAXAGE company credential
password	Assigned FAXAGE password
operation	Hard code to 'listdids'

Optional POST variables

Variable Name	Value
ac	Set to an area code (three digits), this will cause the list to only contain DIDs in the specified area code (all DIDs are returned by default)
npanxx	Set to an NPANXX (six digits), this will cause the list to only contain DIDs in the specified NPANXX (all DIDs are returned by default). Also, npanxx will override area code if both are passed, because it is more specific

Possible Return Values

A newline separated list of DIDs (full telephone numbers) available for provisioning, for example:

```
3035551212
3035551234
3035551111
....
```

The provdid operation

This operation provisions a DID (adds a telephone number to your account).

Required POST variables

Variable Name	Value
username	Assigned FAXAGE username
company	Assigned FAXAGE company credential
password	Assigned FAXAGE password
operation	Hard code to 'provdid'
didnumber	The 10-digit number to provision

Optional POST variables

None

Possible Return Values

Return Value	Meaning
ERR04: Invalid DID number, <didnumber>	The 'didnumber' variable was not set to a 10-digit number
ERR05: <didnumber> does not appear to be available	Either you have specified a DID that doesn't exist or it is already assigned to someone and is not available for provisioning
<didnumber> provisioned	This is the successful response case

The deprovidid operation

This operation de-provisions a DID (removes a telephone number from your account).

Required POST variables

Variable Name	Value
username	Assigned FAXAGE username
company	Assigned FAXAGE company credential
password	Assigned FAXAGE password
operation	Hard code to 'deprovidid'
didnumber	The 10-digit number to de-provision

Optional POST variables

None

Possible Return Values

Return Value	Meaning
ERR04: Invalid DID number, <didnumber>	The 'didnumber' variable was not set to a 10-digit number
ERR05: <didnumber> is invalid or does not belong to you	The 'didnumber' either doesn't exist or is not currently assigned to your account
<didnumber> deprovisioned	This is the successful response case