Introduction

The described interface is based on a SOAP protocol (Simple Object Access Protocol) and is provided as a Web Service. With this interface XML formatted requests are transferred to the FAX.de server to send fax documents, SMS or iLetter (post letters)

To keep the interface as simple as possible, we reduced the available calls to a minimum. With these few calls you will be able to connect to our service from all kinds of web or office applications very easily.

1.   SendJob (to send FAX, SMS, eMail, iLetter oder QSign)
2.   JobStatus (get the progress state and a result report)
3.   CancelJob (cancel a job)
4.   RequestReceived (search for and retrieve an incoming fax)
5.   DeleteReceived (delete an inbound fax from server)

The parameters and result codes of the above calls are described on the following pages.

The detailed call conventions for the XML requests can be found at

https://ccs.fax.de/xmlws.exe?intf=IntfXMLWS

A WSDL document to import by your development software is offered at

https://ccs.fax.de/xmlws.exe?/wsdl/IntfXMLWS

The service is reachable via http and https.

Samples for C# und PHP are available online in our support area at "more downloads"

SendJob

```
int  SendJob (   in      string Account,
                 in      string Password,
                 in      int JobType,
                 in      string Recipient,
                 in      base64Binary RecipientFile,
                 in      string SendText,
                 in      string SendFilename1,
                 in      base64Binary SendFile1,
                 in      string SendFilename2,
                 in      base64Binary SendFile2,
                 in      string SendFilename3,
                 in      base64Binary SendFile3,
                 in      dateTime SendDateTime,
                 in      string Options,
                 out     int  JobId,
                 out     int RecipientsCount,
                 out     int PageCount)
```

This function initiates the transmission of a document. The document is sent to a single recipient given with the parameter Recipient or – with the job types Fax, SMS, email – to a distribution list given in RecipientFile.

Simple fax notes or SMS messages are given with SendText. More complex fax documents, letters and QSign invoices are given in SendFile1..3. When sending letters the destination address must be located on the first page of SendFile1 document. Refer DIN676 to figure out the required exact address position to become visible in a window envelope.

Note:
- To dispose an email job you need an according activation. Please contact our support team.
- To place jobs with multiple recipients you need an according activation. Please contact our support team.

Parameters SendJob:

Account	Your customer id
Password	Your password
JobType	0=Fax 1=SMS 2=eMail 3=iLetter (black/white) 4=iLetter (color) 8=QSign (qualified signed invoices)
Recipient	Preferable a single recipient. A reference id may be appended embedded in []. Multiple recipients, divided by comma are also possible, but not recommended. Use RecipientFile instead.
RecipientFile	Multiple recipients in a CSV file format. The file has at least one recipient per line and may contain an optional reference id. The file format is CSV, with comma as field delimiter and CrLf or Lf for line break. <table><tr><td>Recipient</td><td>Fax-No., Mobil-No., eMail</td></tr><tr><td>Reference-Id</td><td>optional, for identification in protocol</td></tr><tr><td>Line break</td><td>CrLf or Lf (Unix/Linux)</td></tr></table>
SendText	<table><tr><td>Fax</td><td>The text will be formatted onto a fax form and sent as first page.</td></tr><tr><td>SMS</td><td>SMS message body</td></tr><tr><td>eMail</td><td>Mail text</td></tr><tr><td>iLetter</td><td>-</td></tr><tr><td>QSign</td><td>An individual mail body the signed invoice will be sent with. Refer to the QSIGN documentation for more details.</td></tr></table>
SendFilename1/2/3 SendFile1/2/3	Up to 3 filenames and files of type TIF, BMP, HTML, DOC, XLS, PDF. We need the filename in particular the extension to differ the file's type.
SendDateTime	Scheduled date and time (UTC) to send the job. A missing value or a time in the past will cause immediately sending. Hint: some development tools or libraries do transform local times to UTC internal, when creating the XML document.
Options	Several send options, see table below
JobId	Return value with the id of the new job. Use this id to request the job's state or to cancel a job.
RecipientsCount	Returns the number of valid recipients in Recipients or RecipientFile.
PageCount	Returns the number of pages which will be sent to each recipient. The total page count is the sum of SendText and SendFile1..3. On SMS jobs PageCount is the number of required messages with 160 chars each.

Results SendJob:

0	Job accepted and scheduled
-1	Invalid/wrong password
-2	Unknown customer id
-3	Document does not exist
-4	Server error
-5	Recipient number blocked
-6	Unsupported document type
-7	Error converting document
-8	Not authorized for foreign destinations or this job type
-14	Error converting document
-65	Internal error handling the recipients file
-66	Internal error handling the document
-77	Identical job already established (duplicate?)
-1309	Document with more than 3 pages while in evaluation period (before any payment)
1	Not authorized
2	Blank customer id
3	Evaluation period expired
4	Invalid job type
6	Credit not yet available (first debit + 14 days)
7	Insufficient credit (only iLetter, JobType=3,4)
8	No valid recipient
9	Recipient is blacklisted
10	Internal error on QSign
11	QSign: iLetter with multiple recipient not allowed
15	SendFile does not exist
45	Recipient number not allowed (premium number)
46	Recipient invalid
47	Recipient incorrect
54	No incoming payment (J5)
58	Error converting document
61	Insufficient excepted quantity (prepaid packages)
75	No given SendText nor SendFiles

Parameter Options

With the parameter Options you may set several sending options. Separate options by semicolon ";".

ISDNABS= CALLERID=	Caller Id signaled to the recipient
STATIONID=	Fax stations id displayed on the recipients fax machine and printed in the fax header line, max. 20 chars alphanumeric. Without this option we use your customer name from your profile instead.
FAXHEADER=	Free text in the fax header line, max. 30 chars alphanumeric. Without this option we use your fax number from your profile instead.
FAXRETRY=	Number of retries to deliver the fax
MAILFROM=	Mail sender address at job type eMail or QSign
FLASHSMS	Send SMS as flash
SMSFROM=	SMS caller id, max. 16 chars numeric or 11 chars alphanumeric
STATURL=	An URL, which is called, when the job is finished. This URL must contain tokens, which are replaced by real values at call time. Create a script on your web server, which updates the results into your database. The length of the URL is limited to 128 chars.

$JID	The job id
$RCV	Recipient number or address
$STAT	Send result (OK, BUSY, NOANSWER, VOICE, NORING, ISDNERR, NOSERVICE, BLACKLIST, SENDFAIL)
$MSGS	Number of pages / messages
$COST	Sending fee in Euro excl. tax
$RID	The recipient's station-ID (Fax only)
$CID	Reference id, given in Recipient or RecipientFile
$DATE	Date of sending (DD.MM.YY)
$TIME	Time of sending (end of transmission) formatted HH:MM:SS (MESZ)
$SEC	Duration in seconds
$RET	Number of retries
$COD	Fax coding (MMR…)
$SPD	Fax speed

Sample:
option: STATURL=www.yourdomain.com/status &JOBID=$JID &STAT=$STAT
called by FAX.de: www.yourdomain.com/status &JOBID=123456 &STAT=OK

JobStatus

int **JobStatus** (in   string **Account**,
                         in   string **Password**,
                         in   int **JobId**,
                         out   string **SendResult**,
                         out   datetime **SendDateTime**,
                         out   string **RemoteId**,
                         out   base64Binary **StatusFile**)

This call performs a state of a running job. The job is referenced by the job id, which the previous call to SendJob returned. In case the job already finished the protocol is returned in StatusFile as a CSV file. Additionally, on single recipient jobs, the send result, send timestamp and the receiving station id (fax only) is returned. On multiple recipient jobs, SendResult will contain the keyword "multi" and SendDateTime the timestamp of the last transmission. On fax jobs, the content of SendResult shows a more detailed error reason. All other job types will show OK, indicating a SMS was delivered to the mobile network, an eMail was sent to the mail server or a letter was transferred to our letter center.

Parameters JobStatus:

Account	Your customer id	
Password	Your password	
JobId	The job id returned by SendJob	
SendResult	Send result (OK, Busy, …). Only fax jobs do have detailed results. Jobs with multiple recipients will return "multi" here, the result for each recipient is shown in StatusFile.	
	OK	Fax, SMS, Brief was successful sent
	busy	The recipient's number was repeatedly called, but always busy.
	No answer	The remote station was ringing, but the call wasn't answered
	Voice	The fax negotiation failed. (i.e. human, TAM, bad line, incompatible hardware)
	Call failed	The connection to the dialed number failed. (i.e. destination number too short or wrong, service not supported or number out of order)
	Send-Fail	A fax connection was successfully negotiated, but page transmission failed, (i.e. paper jam, instable line on VoIP users)
	Blacklist	Recipient is blacklisted and will not be called.
	Canceled	The job was canceled
SendDateTime	Send timestamp UTC. On jobs with multiple recipients date/time of the last transmission or attempt. Hint: some development tools or libraries do transform local times to UTC internal, when creating the XML document.	
RemoteId	Station id of the receiving fax machine (fax jobs only)	

StatusFile	Detailed results as CSV file.	
	Column	**Content**
	RECIPIENT	Recipients number of mail address
	JOBTYPE	Job type (FAX, SMS, mail, letter, QSign)
	RESULT	Send result (OK, Busy, …)
	REMOTEID	Remote station id (fax only)
	PAGES	Number of pages or SMS chunks.
	SENDDATETIME	Timestamp UTC, formatted YYYY-MM-DD HH:MM:SS
	DURATION	Duration (fax only)
	REFID	Reference id of recipient, as given in SendJob, parameter Recipient in [] or as column Reference-Id in RecipientFile.
	Sample StatusFile: "RECIPIENT","JOBTYPE","RESULT","REMOTEID","PAGES","SENDDATETIME","DURATION","REFID" "+4940123456789","FAX","OK","John Doe","2","2017-06-01 15:53:06","19",""	

Results JobStatus:

0	JobId found, the job has finished and the further result values are filled
1	Unknown customer id
2	Invalid/wrong password
3	Evaluation period expired
4	Account locked
5	Job id not found
6	Job is still in progress

CancelJob

Int **CancelJob** (in   string **Account**,
                     in   string **Password**,
                     in   int **JobId**)

With CancelJob you may stop a placed job. The job is referenced by its id, which was returned by SendJob.

Parameters CancelJob:

Account	Your customer id
Password	Your password
JobId	Job id, returned by SendJob

Results CancelJob:

0	Job canceled successfully
1	The job was already finished and could not be canceled anymore
-1	Unknown customer id or password mismatch
-2	Unknown job id
-3	Account locked

RequestReceived

int **RequestReceived** (in   string **Account**,
                           in   string **Password**,
                           out   long **FaxId**,
                           out   string **CalledNumber**,
                           out   dateTime **ReceiveDate**,
                           out   string **Originator**,
                           out   string **RemoteId**,
                           out   int **Pages**,
                           out   base64Binary **FaxImage**)

This function retrieves an inbound fax from FAX.de server. The document will be returned as Tiff file.

Important:
After retrieving and handling the retrieved fax you must delete it from our server with a call to DeleteReceived. Otherwise you would retrieve the same fax again with your next call.

Parameters RequestReceived:

Account	Your customer id
Password	Your password
FaxId	A unique id of the retrieved fax
CalledNumber	Number, which accepted the incoming call
ReceiveDate	Timestamp of fax reception (UTC)
Originator	Senders caller id, if signaled
RemoteId	Senders station id, if set in remote machine
Pages	Number of pages in document
FaxImage	Fax document as Tiff file

Results RequestReceived:

0	A new received fax was found and is returned in FaxImage
1	Unknown customer id
2	Invalid/wrong password
3	Evaluation period expired
4	Account locked
5	No new faxes found in inbox

DeleteReceived

int **DeleteReceived** (in   string **Account,**
                           in   string **Password,**
                           in   long **FaxId**)

A call to this function deletes an inbound fax from our server. Reference the document by fax id, which was returned by your previous call to RequestReceived.

Parameters DeleteReceived:

Account	Your customer id
Password	Your password
FaxId	Inbound document id

Results DeleteReceived:

0	Fax was deleted from your inbox
1	Unknown customer id
2	Invalid/wrong password
3	Evaluation period expired
4	Account locked
5	Unknown fax id