
FaxFinder® Web Services API

FF240-IP, FF240, FF440, FF840,
FF130, FF230, FF430, and FF830



Developer Guide

FaxFinder Web Services API Developer Guide
FF240, FF440, FF840, FF240-IP FF130, FF230, FF430, FF830
S000527A, Version A

Copyright

This publication may not be reproduced, in whole or in part, without prior expressed written permission from Multi-Tech Systems, Inc. All rights reserved.

Copyright © 2012, by Multi-Tech Systems, Inc.

Multi-Tech Systems, Inc. makes no representations or warranties with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. Furthermore, Multi-Tech Systems, Inc. reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of Multi-Tech Systems, Inc. to notify any person or organization of such revisions or changes. Check Multi-Tech's web site for current versions of our product documentation.

Revision History

Revision	Date	Description
A	05/03/2012	Initial release

Trademarks

Multi-Tech Registered Trademarks: FaxFinder, Multi-Tech, and the Multi-Tech logo.

All other products and technologies are the trademarks or registered trademarks of their respective holders.

Contacting Multi-Tech

Knowledge Base

The Knowledge Base provides immediate access to support information and resolutions for all Multi-Tech products. Visit <http://www.multitech.com/kb.go>.

Installation Resources

To download manuals, firmware, and software, visit <http://www.multitech.com/setup/product.go>.

Support Portal

To create an account and submit a support case directly to our technical support team, visit: <https://support.multitech.com>

Technical Support

Business Hours: M-F, 9am to 5pm CT

Country	By Email	By Phone
Europe, Middle East, Africa:	support@multitech.co.uk	+(44) 118 959 7774
U.S., Canada, all others:	support@multitech.com	(800) 972-2439 or (763) 717-5863

World Headquarters

Multi-Tech Systems, Inc.
2205 Woodale Drive
Mounds View, Minnesota 55112
Phone: 763-785-3500 or 800-328-9717
Fax: 763-785-9874

Warranty

To read the warranty statement for your product, please visit: <http://www.multitech.com/warranty.go>

Contents

Chapter 1 – General Information.....	4
Authorization	4
HTTPS	4
Examples	4
Chapter 2 – Web Service APIs.....	5
Scheduling a Fax	5
Retrieving Fax Entries	7
Aborting a Fax Entry	8
Rescheduling a Fax Entry	8
Retrieving User Information.....	9
Retrieving Contacts.....	9
Adding New Contacts	10
Modifying Contacts	11
Deleting Contacts	11
Retrieving Contact IDs.....	12
Retrieving Groups	12
Modifying Groups	13
Deleting Groups	14
Retrieving Group IDs.....	14
Retrieving Cover Pages	14
Verify User	15
Retrieving Information about the FaxFinder	15
General Status Codes	16
Schedule Fax Element	17
Fax Entry Element	19
User Element	21
Contact Element.....	22
Group Element	22

Chapter 1 – General Information

This document illustrates the HTTP/XML communication between the FaxFinder Web Service (FFWS) and a client. FFWS provides an interface to FFx40 and FF240-IP FaxFinders for client applications. Client applications can use FFWS for sending faxes, managing contacts and monitoring fax status.

Authorization

All request requiring authorization must have the Authorization header set using Basic authentication. If this is not set or the username or password are incorrect then “401 Unauthorized” is returned. See RFC 2617 for implementation

HTTPS

The server supports HTTPS. Secure requests can be sent to the default HTTPS port 443.

Examples

Examples included in this document are also available through the Multi-Tech System Developer Resources website at multitech.net. This site includes a developer forum.

Chapter 2 – Web Service APIs

Scheduling a Fax

An application can schedule a fax by posting the schedule fax XML to the ofax resource. If the fax is scheduled successfully, a response is returned with the scheduled entries.

Notes:

- Place each file that you want to attach as fax pages in an attachment element.
- Inline attachments are attachments with the file contents inserted in the content tag.
- Use base64 to encode inline attachments.
- Unless the file basename is not unique among the attachments, the attachment name can usually be set to the file basename.
- The name is used primarily for error responses, so if you want to know which attachment failed, make this field unique.

Set the attachment content type to match the type of the file being transferred. For Example, if attaching a PDF, set the content type to “application/pdf”. FaxFinder uses content type to convert the file into fax pages. It does not attempt to guess the content type.

Limits	Request size: 36MB Maximum Recipients per Fax: 400	
Query Parameters	None	
HTTP Request Line	POST /ffws/v1/ofax HTTP/1.1	
HTTP Response Status Codes	201 Created	The fax has been created successfully.
	400 Bad Request	Invalid request. The fax has not been scheduled. The response message may provide more details.

Example

```
1 POST /ffws/v1/ofax HTTP/1.1
2 content-type: application/xml
3 authorization: Basic YWRtaW46YWRtaW4=
4 <?xml version="1.0" encoding="UTF-8"?>
5 <schedule_fax>
6   <cover_page>
7     <url>https://192.168.2.1/ffws/v1/data/cover_pages/default.pdf</url>
8     <enabled>true</enabled>
9     <subject>Test Subject</subject>
10    <comments>Test Message</comments>
11  </cover_page>
12  <sender>
13    <name>Sender Name</name>
14    <organization>Sender Org</organization>
15    <phone_number>218-555-3333</phone_number>
16    <fax_number>218-555-3334</fax_number>
17    <email_address>sender@Example.com</email_address>
18  </sender>
19  <recipient>
20    <name>Rcpt 1 Name</name>
21    <organization>Rcpt 1 Org</organization>
22    <fax_number>-218-555-3335</fax_number>
23    <phone_number>218-555-3336</phone_number>
```

```

24 </recipient>
25 <attachment>
26   <location>inline</location>
27   <name>attachment1.txt</name>
28   <content_type>text/plain</content_type>
29   <content_transfer_encoding>base64</content_transfer_encoding>
30   <content>dGVzdA==</content>
31 </attachment>
32 <max_tries>3</max_tries>
33 <priority>3</priority>
34 <try_interval>30</try_interval>
35 <receipt>failure</receipt>
36 <receipt_attachment>none</receipt_attachment>
37 <schedule_all_at>2008-08-07T20:30:00</schedule_all_at>
38 </schedule_fax>
39 -----
40 HTTP/1.1 201 Created
41 content-type: application/xml
42
43 <?xml version="1.0" encoding="UTF-8"?>
44 <response>
45   <message>Success</message>
46   <fax_entry>
47     <fax_entry_url>https://192.168.2.1/ffws/v1/ofax/0000001B/0000</fax_entry_url>
48     <fax_url>https://192.168.2.1/ffws/v1/ofax/0000001B</fax_url>
49     <state>preprocessing</state>
50     <schedule_message>New fax entry</schedule_message>
51     <created>2008-08-01 08:43:29</created>
52     <stime>2008-08-01 08:52:29</stime>
53     <try_number>1</try_number>
54     <agent>FFWS</agent>
55     <preview>https://192.168.2.1/ffws/v1/data/preview/0000001B-0000.pdf</preview>
56     <cover_page>
57       <url>https://192.168.2.1/ffws/v1/data/cover_pages/default.pdf</url>
58       <enabled>true</enabled>
59       <subject>Test Subject</subject>
60       <comments>Test Message</comments>
61     </cover_page>
62     <sender>
63       <username>admin</username>
64       <name>Sender Name</name>
65       <organization>Sender Org</organization>
66       <phone_number>218-555-3333</phone_number>
67       <fax_number>218-555-3334</fax_number>
68       <email_address>sender@Example.com</email_address>
69     </sender>
70     <recipient>
71       <name>Rcpt 1 Name</name>
72       <organization>Rcpt 1 Org</organization>
73       <fax_number>218-555-3335</fax_number>
74       <phone_number>218-555-3336</phone_number>
75     </recipient>
76     <max_tries>3</max_tries>
77     <priority>3</priority>
78     <try_interval>30</try_interval>
79     <receipt>failure</receipt>
80     <receipt_attachment>none</receipt_attachment>
81     <pages>0</pages>
82     <approver></approver>
83     <approval_time></approval_time>
84   </fax_entry>
85 </response>

```

Retrieving Fax Entries

Query Parameters	all_users=true false An Admin level user can set this option to query all users instead of just faxes belonging to the authenticated user. complete_limit=LIMIT Limit the number of completed faxes returned in a general query (/ffws/v1/ofax) to LIMIT. By default the limit is 10. Faxes displayed in the completed list are (pre)viewable and reschedulable. sending complete Retrieve faxes by class. include_modem_info=true false Include modem level information in the response (init_time, connect_time, ...). Requesting this information is costly and it also increases the size of the response. Modem information only exists after the modem has completed at least one full attempt.	
HTTP Request Line	GET /ffws/v1/ofax HTTP/1.1 GET /ffws/v1/ofax/FAXKEY HTTP/1.1 GET /ffws/v1/ofax/FAXKEY/ENTRYKEY HTTP/1.1	
HTTP Response Status Codes	200 OK	Here are the fax entries.

Example

1	GET /ffws/v1/ofax HTTP/1.1
2	content-type: application/xml
3	authorization: Basic YWRtaW46YWRtaW4=
4	-----
5	HTTP/1.1 200 OK
6	content-type: application/xml
7	<?xml version="1.0" encoding="UTF-8"?>
8	<response>
9	<message>Success</message>
10	<fax_entry>
11	<fax_entry_url>https://192.168.2.1/ffws/v1/ofax/0000001B/0000</fax_entry_url>
12	<fax_url>https://192.168.2.1/ffws/v1/ofax/0000001B</fax_url>
13	<state>aborted</state>
14	<schedule_message>Fax aborted by user</schedule_message>
15	<created>2008-08-01 08:43:29</created>
16	<stime>2008-08-01 08:52:29</stime>
17	<try_number>1</try_number>
18	<agent>FFWS</agent>
19	<preview>https://192.168.2.1/ffws/v1/data/preview/0000001B-0000.pdf</preview>
20	<cover_page>
21	<url>https://192.168.2.1/ffws/v1/data/cover_pages/default.pdf</url>
22	<enabled>true</enabled>
23	<subject>Test Subject</subject>
24	<comments>Test Message</comments>
25	</cover_page>
26	<sender>
27	<username>admin</username>
28	<name>Sender Name</name>
29	<organization>Sender Org</organization>
30	<phone_number>218-555-3333</phone_number>
31	<fax_number>-218-555-3334</fax_number>
32	<email_address>sender@Example.com</email_address>
33	</sender>

```

34 <recipient>
35   <name>Rcpt 1 Name</name>
36   <organization>Rcpt 1 Org</organization>
37   <fax_number>218-555-3335</fax_number>
38   <phone_number>218-555-3336</phone_number>
39 </recipient>
40 <max_tries>3</max_tries>
41 <priority>3</priority>
42 <try_interval>30</try_interval>
43 <receipt>failure</receipt>
44 <receipt_attachment>none</receipt_attachment>
45 <pages>1</pages>
46 </fax_entry>
47 </response>

```

Aborting a Fax Entry

HTTP Request Line	DELETE /ffws/v1/ofax/FAXKEY HTTP/1.1 DELETE /ffws/v1/ofax/FAXKEY/ENTRYKEY HTTP/1.1	
HTTP Response Status Codes	202 Accepted	An abort has been sent. The fax entry will be aborted if possible.
	400 Bad Request	The fax specified could not be aborted. The user may not be the owner of the fax or the fax could not be found.

Example

```

1 DELETE /ffws/v1/ofax/0000001B/0000 HTTP/1.1
2 content-type: application/xml
3 authorization: Basic YWRtaW46YWRtaW4=
4 -----
5 HTTP/1.1 202 Accepted
6 content-type: application/xml

```

Rescheduling a Fax Entry

Query Parameters	at=TIME TIME := now DATETIME.UTC.URLENCODED DATETIME.UTC.URLENCODED := YYYY-MM-DDTHH%3AMM%3ASS .	
HTTP Request Line	PUT /ffws/v1/ofax/FAXKEY/ENTRYKEY?at=TIME HTTP/1.1	
HTTP Response Status Codes	202 Accepted	Attempting to reschedule faxes. There is no guarantee that all entries will be rescheduled. For instance, entries that are sending when the reschedule is received will not be rescheduled.
	400 Bad Request	The fax specified could not be rescheduled. The user may not be the owner of the fax or the fax could not be found

Example

```

1 PUT /ffws/v1/ofax/0000001B/0000?at=2008-08-09T22%3A30%3A00 HTTP/1.1
2 content-type: application/xml
3 authorization: Basic YWRtaW46YWRtaW4=
4 -----
5 HTTP/1.1 202 Accepted
6 content-type: application/xml

```

Retrieving User Information

HTTP Request Line	GET /ffws/v1/users/USERNAME HTTP/1.1	
HTTP Response Status Codes	200 OK	Success
	403 Forbidden	Authenticated user does not have permission to view data associated with username.
	404 Not Found	No user found with that username.

Example

1	GET /ffws/v1/users/admin HTTP/1.1
2	content-type: application/xml
3	authorization: Basic YWRtaW46YWRtaW4=
4	-----
5	HTTP/1.1 200 OK
6	content-type: application/xml
7	<?xml version="1.0" encoding="UTF-8"?>
8	<response>
9	<message>Success</message>
10	<user>
11	<user_url>https://192.168.2.1/ffws/v1/users/admin</user_url>
12	<name>Administrator</name>
13	<username>admin</username>
14	<email_address>admin@Example.com</email_address>
15	<phone_number>218-555-3333</phone_number>
16	<fax_number>218-555-3334</fax_number>
17	<organization>Example Org</organization>
18	</user>
19	</response>

Retrieving Contacts

Query Parameters	limit=LIMIT Limit the number of results to LIMIT. offset=OFFSET Skip OFFSET entries from the start. Only valid when limit is specified. name=SUBSTR fax_number=SUBSTR phone_number=SUBSTR organization=SUBSTR Search for contacts by field name. If you specify more than one, they are concatenated with AND. order=field name Sort contacts by field name. Not available for FFx30 models.	
HTTP Request Line	GET /ffws/v1/contacts/USERNAME HTTP/1.1 GET /ffws/v1/contacts/USERNAME/ID HTTP/1.1 GET /ffws/v1/contacts/global_contact_list HTTP/1.1 GET /ffws/v1/contacts/global_contact_list/ID HTTP/1.1	
HTTP Response Status Codes	200 OK	Success
	403 Forbidden	Authenticated user does not have permission to view data associated with username.
	404 Not Found	No user found with that username.

Example

```

1 GET /ffws/v1/contacts/admin HTTP/1.1
2 content-type: application/xml
3 authorization: Basic YWRtaW46YWRtaW4=
4 -----
5 HTTP/1.1 200 OK
6 content-type: application/xml
7 <?xml version="1.0" encoding="UTF-8"?>
8 <response>
9   <message>Success</message>
10  <contact>
11    <contact_url>https://192.168.2.1/ffws/v1/contacts/admin/3</contact_url>
12    <name>Contact Name</name>
13    <fax_number>218-555-3335</fax_number>
14    <phone_number>218-555-3336</phone_number>
15    <organization>Contacts Org</organization>
16  </contact>
17 </response>

```

Adding New Contacts

HTTP Request Line	POST /ffws/v1/contacts/USERNAME HTTP/1.1	
HTTP Response Status Codes	200 OK	Created
	403 Forbidden	Authenticated user does not have permission to change data associated with username.
	404 Not Found	No user found with that username.
	400 Bad Request	The provided XML is not valid.

Example

```

1 POST /ffws/v1/contacts/admin HTTP/1.1
2 content-type: application/xml
3 authorization: Basic YWRtaW46YWRtaW4=
4 <?xml version="1.0" encoding="UTF-8"?>
5 <contact>
6   <name>Test Recipient</name>
7   <fax_number>218-555-3335</fax_number>
8   <phone_number>218-555-3336</phone_number>
9   <organization>Some org</organization>
10 </contact>
11 -----
12 HTTP/1.1 200 OK
13 content-type: application/xml
14 <?xml version="1.0" encoding="UTF-8"?>
15 <response>
16   <message>Created</message>
17   <contact>
18     <contact_url>https://192.168.2.1/ffws/v1/contacts/admin/6</contact_url>
19     <name>Test Recipient</name>
20     <fax_number>218-555-3335</fax_number>
21     <phone_number>218-555-3336</phone_number>
22     <organization>Some org</organization>
23   </contact>
24 </response>

```

Modifying Contacts

HTTP Request Line	PUT /ffws/v1/contacts/USERNAME/id HTTP/1.1	
HTTP Response	200 OK	Modified successfully.
Status Codes	403 Forbidden	Authenticated user does not have permission to change data associated with username.
	404 Not Found	No user found with that username.
	400 Bad Request	The provided XML is not valid.

Example

1	PUT /ffws/v1/contacts/admin/6 HTTP/1.1
2	content-type: application/xml
3	authorization: Basic YWRtaW46YWRtaW4=
4	<?xml version="1.0" encoding="UTF-8"?>
5	<contact>
6	<name>Change name</name>
7	<fax_number>218-555-3335</fax_number>
8	<phone_number>218-555-3336</phone_number>
9	<organization>Some org</organization>
10	</contact>
11	-----
12	HTTP/1.1 200 OK
13	content-type: application/xml
14	<?xml version="1.0" encoding="UTF-8"?>
15	<response>
16	<message>Modified</message>
17	</response>

Deleting Contacts

HTTP Request Line	DELETE /ffws/v1/contacts/USERNAME/id HTTP/1.1	
HTTP Response	200 OK	Deleted
Status Codes	403 Forbidden	Authenticated user does not have permission to change data associated with username.
	404 Not Found	No user found with that username.

Example

1	DELETE /ffws/v1/contacts/admin/ 6 HTTP/1.1
2	content-type: application/xml
3	authorization: Basic YWRtaW46YWRtaW4=
4	-----
5	HTTP/1.1 200 OK
6	content-type: application/xml
7	<?xml version="1.0" encoding="UTF-8"?>
8	<response>
9	<message>Deleted</message>
10	</response>

Retrieving Contact IDs

HTTP Request Line	GET /ffws/v1/contact_oids/USERNAME HTTP/1.1	
HTTP Response Status Codes	200	Success
	404	Not found

Example

1	GET /ffws/v1/contact_oids/admin HTTP/1.1
2	content-type: application/xml
3	authorization: Basic YWRtaW46YWRtaW4=
4	-----
5	HTTP/1.1 200 OK
6	content-type: application/xml
7	<?xml version="1.0" encoding="UTF-8"?>
8	<response>
9	<message>Success</message>
10	<oids>1,2,3,4,5,6,7,8,9,10,11,12,13,14,33,34,35</oids>
11	</response>

Retrieving Groups

Query Parameters	limit=LIMIT Limit the number of results to LIMIT. offset=OFFSET Skip OFFSET entries from the start. Only valid when limit is specified. name=SUBSTR description=SUBSTR Search for groups by field name. If you specify more than one, they are concatenated with AND. order=field name Sort groups by field name. Not available for FFx30 models.	
HTTP Request Line	GET /ffws/v1/contact_groups/USERNAME HTTP/1.1 GET /ffws/v1/contact_groups/global_contact_list HTTP/1.1	
HTTP Response Status Codes	200 OK	Success
	403 Forbidden	Authenticated user does not have permission to view data associated with username.
	404 Not Found	No user found with that username.

Example

```

1 GET /ffws/v1/contact_groups/admin HTTP/1.1
2 content-type: application/xml
3 authorization: Basic YWRtaW46YWRtaW4=
4 -----
5 HTTP/1.1 200 OK
6 content-type: application/xml
7 <?xml version="1.0" encoding="UTF-8"?>
8 <response>
9   <message>Success</message>
10  <contact_group>
11    <contact_group_url>https://172.16.128.5/ffws/v1/contact_groups/admin/4</contact_group_url>
12    <name>g one</name>
13    <description>g one</description>
14    <contact>https://172.16.128.5/ffws/v1/contacts/admin/1</contact>
15    <contact>https://172.16.128.5/ffws/v1/contacts/admin/2</contact>
16    <contact>https://172.16.128.5/ffws/v1/contacts/global_contact_list/3</contact>
17  </contact_group>
18  <contact_group>
19    <contact_group_url>https://172.16.128.5/ffws/v1/contact_groups/admin/6</contact_group_url>
20    <name>g two</name>
21    <description>g two org</description>
22    <contact>https://172.16.128.5/ffws/v1/contacts/admin/2</contact>
23    <contact>https://172.16.128.5/ffws/v1/contacts/global_contact_list/4</contact>
24  </contact_group>
25 </response>

```

Modifying Groups

HTTP Request Line	PUT /ffws/v1/contact_groups/USERNAME/id HTTP/1.1	
HTTP Response	200 OK	Modified successfully.
Status Codes	403 Forbidden	Authenticated user does not have permission to change data associated with username.
	404 Not Found	No user found with that username.
	400 Bad Request	The provided XML is not valid.

Example

```

1 PUT /ffws/v1/contact_groups/admin/6 HTTP/1.1
2 content-type: application/xml
3 authorization: Basic YWRtaW46YWRtaW4=
4 <?xml version="1.0" encoding="UTF-8"?>
5 <contact_group>
6   <contact_group_url>https://172.16.128.5/ffws/v1/contact_groups/admin/4</contact_group_url>
7   <name>Change name</name>
8   <description>change description</description>
9   <contact>https://172.16.128.5/ffws/v1/contacts/admin/1</contact>
10  <contact>https://172.16.128.5/ffws/v1/contacts/admin/2</contact>
11  <contact>https://172.16.128.5/ffws/v1/contacts/global_contact_list/3</contact>
12 </contact_group>
13 -----
14 HTTP/1.1 200 OK
15 content-type: application/xml
16 <?xml version="1.0" encoding="UTF-8"?>
17 <response>
18   <message>Modified</message>
19 </response>

```

Deleting Groups

HTTP Request Line	DELETE /ffws/v1/contact_groups/USERNAME/id HTTP/1.1	
HTTP Response Status Codes	200 OK	Deleted
	403 Forbidden	Authenticated user does not have permission to change data associated with username.
	404 Not Found	No group found with that username.

Example

1	DELETE /ffws/v1/contact_groups/admin/ 6 HTTP/1.1
2	content-type: application/xml
3	authorization: Basic YWRtaW46YWRtaW4=
4	-----
5	HTTP/1.1 200 OK
6	content-type: application/xml
7	<?xml version="1.0" encoding="UTF-8"?>
8	<response>
9	<message>Deleted</message>
10	</response>

Retrieving Group IDs

HTTP Request Line	GET /ffws/v1/contact_group_oids/USERNAME HTTP/1.1	
HTTP Response Status Codes	200	Success
	404	Not found

Example

1	GET /ffws/v1/contact_group_oids/admin HTTP/1.1
2	content-type: application/xml
3	authorization: Basic YWRtaW46YWRtaW4=
4	-----
5	HTTP/1.1 200 OK
6	content-type: application/xml
7	<?xml version="1.0" encoding="UTF-8"?>
8	<response>
9	<message>Success</message>
10	<oids>1,2,3,4,5,6,7,8,9,10,11,12,13,14,33,34,35</oids>
11	</response>

Retrieving Cover Pages

HTTP Request Line	GET /ffws/v1/data/cover_pages HTTP/1.1	
HTTP Response Status Codes	200 OK	Success

Example

```

1 GET /ffws/v1/data/cover_pages HTTP/1.1
2 content-type: application/xml
3 authorization: Basic YWRtaW46YWRtaW4=
4 -----
5 HTTP/1.1 200 OK
6 content-type: application/xml
7 <?xml version="1.0" encoding="UTF-8"?>
8 <response>
9   <message>Success</message>
10  <file>
11    <name>default.pdf</name>
12    <type>application/pdf</type>
13    <url>https://192.168.2.1/ffws/v1/data/cover_pages/default.pdf</url>
14  </file>
15  <file>
16    <name>multitech.pdf</name>
17    <type>application/pdf</type>
18    <url>https://192.168.2.1/ffws/v1/data/cover_pages/multitech.pdf</url>
19  </file>
20  <file>
21    <name>sample1.pdf</name>
22    <type>application/pdf</type>
23    <url>https://192.168.2.1/ffws/v1/data/cover_pages/sample1.pdf</url>
24  </file>
25  <file>
26    <name>sample2.pdf</name>
27    <type>application/pdf</type>
28    <url>https://192.168.2.1/ffws/v1/data/cover_pages/sample2.pdf</url>
29  </file>
30 </response>

```

Verify User

Authenticates the user and then simply returns 200 OK.

HTTP Request Line	GET /ffws/v1/verify HTTP/1.1	
HTTP Response Status Codes	200 OK	Verified

Example

```

1 GET /ffws/v1/verify HTTP/1.1
2 content-type: application/xml
3 authorization: Basic YWRtaW46YWRtaW4=
4 -----
5 HTTP/1.1 200 OK
6 content-type: application/xml
7 <?xml version="1.0" encoding="UTF-8"?>
8 <response>
9   <message>Verified</message>
10 </response>

```

Retrieving Information about the FaxFinder

HTTP Request Line	GET /ffws/v1/about HTTP/1.1	
HTTP Response Status Codes	200 OK	Success

Example

```

1 GET /ffws/v1/verify HTTP/1.1
2 content-type: application/xml
3 authorization: Basic YWRtaW46YWRtaW4=
4 -----
5 HTTP/1.1 200 OK
6 content-type: application/xml
7 <?xml version="1.0" encoding="UTF-8"?>
8 <response>
9   <message>Success</message>
10  <about>
11    <model>FF230</model>
12    <version>2.0</version>
13  </about>
14 </response>

```

General Status Codes

Be aware that other Status Codes that do not pertain specifically to the resource requested may be returned. See RFC 2616 for a listing of all possible codes.

Some FFWS general errors:

Error	Description
401 Unauthorized	Authorization required
415 Unsupported Media Type	Content-Type must be set to 'application/xml'
405 Method Not Allowed	The resource does not support that method
503 Service Unavailable	Temporary overloading

Schedule Fax Element

Most elements under `schedule_fax` are optional. If an element is left out, an appropriate default or an empty string will be substituted.

```

1  <!-- Describes one or more faxes to send -->
2  <schedule_fax>
3  <!-- Cover page information -->
4    <cover_page>
5    <!-- URL of cover page on server to use -->
6    <!-- default: default.pdf -->
7    <!-- required: no -->
8    <!-- value: string -->
9      <url>https://192.168.2.1/ffws/v1/data/cover_pages/default.pdf</url>
10   <!-- Enable or disable the inclusion of a cover page -->
11   <!-- default: true -->
12   <!-- required: no -->
13   <!-- value: boolean -->
14     <enabled>true</enabled>
15   <!-- Subject added to subject field on cover page -->
16   <!-- default: "" -->
17   <!-- required: no -->
18   <!-- value: string -->
19     <subject>Test Subject</subject>
20   <!-- Message added to the comments field on cover page -->
21   <!-- default: "" -->
22   <!-- required: no -->
23   <!-- value: string -->
24     <comments>Test Message</comments>
25   </cover_page>
26   <!-- Sender information -->
27   <sender>
28   <!-- The name of the sender -->
29   <!-- default: "" -->
30   <!-- required: no -->
31   <!-- value: string -->
32     <name>Sender Name</name>
33   <!-- Sender Organization/company -->
34   <!-- default: "" -->
35   <!-- required: no -->
36   <!-- value: string -->
37     <organization>Sender Org</organization>
38   <!-- Sender phone number -->
39   <!-- default: "" -->
40   <!-- required: no -->
41   <!-- value: string -->
42     <phone_number>218-555-3333</phone_number>
43   <!-- Sender fax number -->
44   <!-- default: "" -->
45   <!-- required: no -->
46   <!-- value: string -->
47     <fax_number>218-555-3334</fax_number>
48   <!-- Sender email address-->
49   <!-- This field must be included to receive email alerts -->
50   <!-- default: "" -->
51   <!-- required: no -->
52   <!-- value: string -->
53     <email_address>sender@example.com</email_address>
54   </sender>
55   <!-- Recipient information -->
56   <!-- At least one recipient must be included -->
57   <!-- A fax is sent to each recipient -->
58   <recipient>

```

```

59 <!-- Recipient Name -->
60 <!-- default: "" -->
61 <!-- required: no -->
62 <!-- value: string -->
63 <name>Rcpt 1 Name</name>
64 <!-- Recipient Organization -->
65 <!-- default: "" -->
66 <!-- required: no -->
67 <!-- value: string -->
68 <organization>Rcpt 1 Org</organization>
69 <!-- Recipient Fax Number -->
70 <!-- The fax number to send to -->
71 <!-- required: yes -->
72 <!-- value: string -->
73 <fax_number>218-555-3335</fax_number>
74 <!-- Recipient Phone Number -->
75 <!-- default: "" -->
76 <!-- required: no -->
77 <!-- value: string -->
78 <phone_number>218-555-3336</phone_number>
79 </recipient>
80 <!-- Attachments to send as fax pages -->
81 <attachment>
82 <!-- Attachment location -->
83 <!-- required: yes -->
84 <!-- value: inline | external -->
85 <location>inline</location>
86 <!-- Attachment name -->
87 <!-- A unique name associate with this attachment -->
88 <!-- Used to differentiate between attachments -->
89 <!-- required: yes if location == inline -->
90 <!-- value: string -->
91 <name>attachment1.txt</name>
92 <!-- Attachment type must be one of: -->
93 <!-- application/pdf -->
94 <!-- application/postscript -->
95 <!-- text/plain -->
96 <!-- image/tiff -->
97 <!-- required: yes if location == inline -->
98 <!-- value: string -->
99 <content_type>text/plain</content_type>
100 <!-- Content encoding -->
101 <!-- Must be set to base64 -->
102 <!-- required: yes if location == inline -->
103 <!-- value: string -->
104 <content_transfer_encoding>base64</content_transfer_encoding>
105 <!-- Content of attachment base64 encoded -->
106 <!-- required: yes if location == inline -->
107 <!-- value: string -->
108 <content>dGVzdA==</content>
109 <!-- HTTP URL of attachment hosted on another web server -->
110 <!-- required: yes if location == external -->
111 <!-- value: string -->
112 <url>http://Example.com/fax/report.pdf</url>
113 </attachment>
114 <!-- Maximum number of tries until failure of fax -->
115 <!-- default: 3 -->
116 <!-- required: no -->
117 <!-- value: integer -->
118 <max_tries>3</max_tries>
119 <!-- Priority level of fax -->
120 <!-- Must be of value from 0..5 where 0 is the highest -->
121 <!-- A higher priority fax will send before a lower priority fax -->

```

```

122 <!-- when there is more than one fax ready to send. -->
123 <!-- default: 3 -->
124 <!-- required: no -->
125 <!-- value: integer -->
126 <priority>3</priority>
127 <!-- Interval in seconds between failure tries -->
128 <!-- default: 30 -->
129 <!-- required: no -->
130 <!-- value: integer -->
131 <try_interval>30</try_interval>
132 <!-- Fax Receipt -->
133 <!-- Send a fax receipt to senders email: "always" | "never" | "failure" -->
134 <!-- default: "failure" -->
135 <!-- required: no -->
136 <!-- value: string -->
137 <receipt>failure</receipt>
138 <!-- Fax Attachment with Receipt -->
139 <!-- Send the fax pages as an attachment with receipt: "pdf" | "tiff" | "none" -->
140 <!-- default: "pdf" -->
141 <!-- required: no -->
142 <!-- value: string -->
143 <receipt_attachment>none</receipt_attachment>
144 <!-- URL of scheduled faxes -->
145 <!-- Added by FFWS -->
146 <!-- value: string -->
147 <fax_url>https://192.168.2.1/ffws/v1/ofax/0000001C</fax_url>
148 <!-- Total number of fax pages not including the cover page -->
149 <!-- Added by FFWS -->
150 <!-- value: integer -->
151 <pages>1</pages>
152 <!-- Schedule all faxes to send at a specified UTC time -->
153 <!-- If this options is not present then faxes will be -->
154 <!-- scheduled to send as soon as possible. -->
155 <!-- Format: %FT%T -->
156 <!-- required: no -->
157 <!-- value: string -->
158 <schedule_all_at>2008-08-07T20:30:00</schedule_all_at>
159 </schedule_fax>
160
161

```

Fax Entry Element

This element represents an actual fax that will be sent. Some of the elements are the same as elements provided in schedule_fax. See the documentation above for an explanation of those fields.

```

1 <!-- Describes a Fax Entry -->
2 <fax_entry>
3 <!-- URL of this fax_entry -->
4 <!-- value: string -->
5 <fax_entry_url>https://172.16.0.13/ffws/v1/ofax/00000FD1/0000</fax_entry_url>
6 <!-- URL of scheduled_fax group to which this fax_entry is a part of -->
7 <!-- value: string -->
8 <fax_url>https://172.16.0.13/ffws/v1/ofax/00000FD1</fax_url>
9 <!-- Current state of this fax entry -->
10 <!-- Can be one of: -->
11 <!-- preprocessing -->
12 <!-- approval_pending -->
13 <!-- pending -->
14 <!-- sending -->
15 <!-- sent -->
16 <!-- aborted -->

```

```

17 <!-- failed -->
18 <!-- dead -->
19 <!-- value: string -->
20 <state>sent</state>
21 <!-- Human readable string describing the current status -->
22 <!-- value: string -->
23 <schedule_message>Successfully sent fax</schedule_message>
24 <!-- Human readable time representing the time -->
25 <!-- in the faxfinders time zone, when the fax -->
26 <!-- was created. -->
27 <!-- This value will be approximately the time when -->
28 <!-- the fax was scheduled. -->
29 <!-- value: string -->
30 <created>2009-01-30T04:43:26</created>
31 <!-- A contextual field which varies based on the -->
32 <!-- state. -->
33 <!-- When the fax is pending this field represents -->
34 <!-- the time when FaxFinder will try to send it. -->
35 <!-- When the fax is sending this field represents -->
36 <!-- the time when FaxFinder actually started sending it. -->
37 <!-- In any other case it is the time of completion. -->
38 <!-- value: string -->
39 <stime>2009-01-30T05:04:00</stime>
40 <!-- The number of unsuccessful tries that have already occurred -->
41 <!-- value: string -->
42 <try_number>1</try_number>
43 <!-- Sending Agent -->
44 <!-- value: string -->
45 <agent>FFWS</agent>
46 <!-- Fax Preview URL -->
47 <!-- value: string -->
48 <preview>https://172.16.0.13/ffws/v1/data/preview/00000FD1-0000.pdf</preview>
49 <cover_page>
50 <enabled>>false</enabled>
51 <url></url>
52 <subject></subject>
53 <comments></comments>
54 </cover_page>
55 <sender>
56 <username>admin</username>
57 <name></name>
58 <organization></organization>
59 <phone_number></phone_number>
60 <fax_number></fax_number>
61 <email_address></email_address>
62 </sender>
63 <recipient>
64 <name>test recipient</name>
65 <organization>test org</organization>
66 <fax_number>5816</fax_number>
67 <phone_number></phone_number>
68 </recipient>
69 <max_tries>3</max_tries>
70 <priority>3</priority>
71 <try_interval>300</try_interval>
72 <receipt>failure</receipt>
73 <receipt_attachment>failure</receipt_attachment>
74 <pages>6</pages>
75 <approver>_SYSTEM_</approver>
76 <approval_time>2009-01-30T04:43:28</approval_time>
77 <!-- Modem level information included when include_modem_info=true. -->
78 <!-- A modem entry is added for each attempt and is only available -->
79 <!-- after one full attempt has completed. -->

```

```

80     <modem_entry>
81         <modem_number>1</modem_number>
82         <status>pass</status>
83         <remote_id>POTS modem 1</remote_id>
84         <size>403498</size>
85         <pages>6</pages>
86         <resolution>Fine</resolution>
87         <baud_rate>33600</baud_rate>
88         <width>1728</width>
89         <height>Variable</height>
90         <data_compression>mh</data_compression>
91         <error_correction>on</error_correction>
92         <init_time>2009-01-30T05:00:09</init_time>
93         <off_hook_time>2009-01-30T05:00:18</off_hook_time>
94         <connect_time>2009-01-30T05:00:51</connect_time>
95         <elapsed_time>172</elapsed_time>
96         <scan_line_time>0</scan_line_time>
97     </modem_entry>
98 </fax_entry>

```

User Element

This element represents a user registered on the FaxFinder.

```

1  <!-- Describes a User -->
2  <user>
3  <!-- Url of this user -->
4  <!-- value: string -->
5      <user_url>https://192.168.2.1/ffws/v1/users/admin</user_url>
6  <!-- Full name of user -->
7  <!-- required: yes -->
8  <!-- value: string -->
9      <name>Administrator</name>
10 <!-- Username -->
11 <!-- Must be a unique -->
12 <!-- Must contain only characters [A-Za-z0-9_] -->
13 <!-- required: yes -->
14 <!-- value: string -->
15     <username>admin</username>
16 <!-- Email address of user -->
17 <!-- Must be a valid email address -->
18 <!-- required: no -->
19 <!-- default: "" -->
20 <!-- value: string -->
21     <email_address>admin@Example.com</email_address>
22 <!-- Phone number of user -->
23 <!-- required: no -->
24 <!-- default: "" -->
25 <!-- value: string -->
26     <phone_number>218-555-3333</phone_number>
27 <!-- Fax number of user -->
28 <!-- required: no -->
29 <!-- default: "" -->
30 <!-- value: string -->
31     <fax_number>218-555-3334</fax_number>
32 <!-- Organization of user -->
33 <!-- required: no -->
34 <!-- default: "" -->
35 <!-- value: string -->
36     <organization>Example Org</organization>
37 </user>

```

Contact Element

This element represents a user contact.

```

1  <!-- Describes a Contact -->
2  <contact>
3  <!-- URL of this contact -->
4  <!-- value: string -->
5    <contact_url>https://192.168.2.1/ffws/v1/contacts/admin/1</contact_url>
6  <!-- Contact Name -->
7  <!-- required: yes -->
8  <!-- value: string -->
9    <name>contact name</name>
10 <!-- Contact Fax number -->
11 <!-- required: yes -->
12 <!-- value: string -->
13    <fax_number>218-555-3335</fax_number>
14 <!-- Contact Phone Number -->
15 <!-- required: no -->
16 <!-- default: "" -->
17 <!-- value: string -->
18    <phone_number>218-555-3336</phone_number>
19 <!-- Contact Organization -->
20 <!-- required: no -->
21 <!-- default: "" -->
22 <!-- value: string -->
23    <organization>Contacts Org</organization>
24 </contact>

```

Group Element

This element represents a group.

```

1  <!-- Describes a Group-->
2  <contact_group>
3  <!-- URL of this contact -->
4  <!-- value: string -->
5    <contact_group_url> https://172.16.0.36/ffws/v1/contact_groups/admin/3</contact_group_url>
6  <!-- Group Name -->
7  <!-- required: yes -->
8  <!-- value: string -->
9    <name>group 3</name>
10 <!-- Group Description -->
11 <!-- required: no -->
12 <!-- default: "" -->
13 <!-- value: string -->
14    <description></description>
15 <!-- Contacts -->
16 <!-- required: yes -->
17 <!-- value: string -->
18    <contact>https://172.16.0.36/ffws/v1/contacts/admin/19</contact>
19    <contact>https://172.16.0.36/ffws/v1/contacts/admin/20</contact>
20    <contact>https://172.16.0.36/ffws/v1/contacts/admin/21</contact>
21 </contact_group>

```