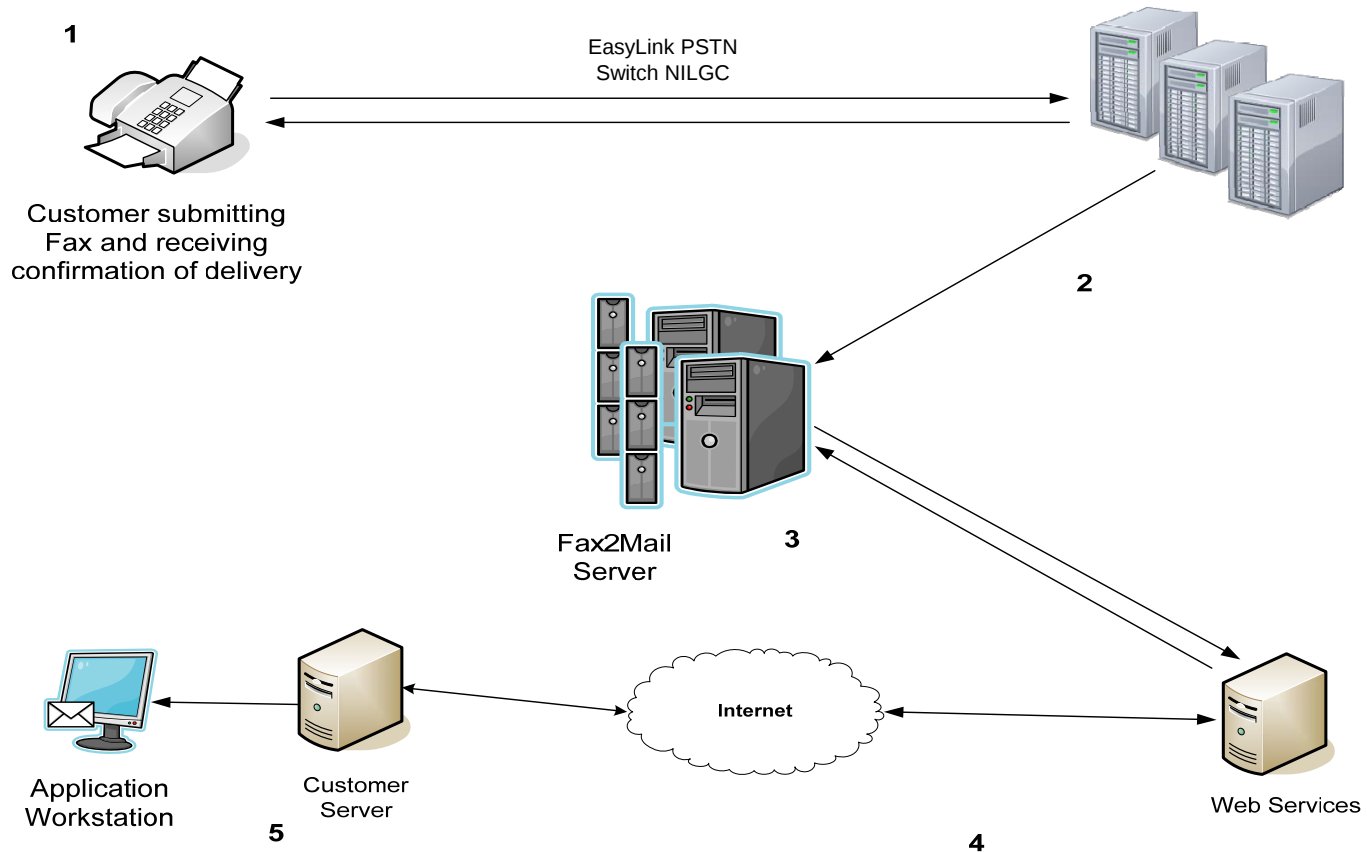


F2M Using Web Service Push

F2M Delivery using Web Services Push



Receiving Faxes

- Listener
 - Customer apps must "receive" the Web Services Push using a "listener"
- Message Format
 - Format of inbound message containing fax described in schema/WSDL files
- MetaData Available
 - Submission Time
 - Completion Time
 - Customer Ref
 - Billing Code
 - Call Date
 - Connect Time
 - Baud Rate
 - Page Count
 - Mode
 - Internal Fax ID
 - ANI
 - DNIS

Full Data Structure

- **Status** – This element will always contain only the following, mandatory elements of **StatusType**:
 - **StatusCode** - Always 0 (zero) to indicate success
 - **SubmissionTime** – Recorded at appropriate processing point
 - **CompletionTime** – Recorded at appropriate processing point
- **SubmitId** – Not applicable
- **JobDocuments**
 - **RecStatus**
 - **Code** – Always 0 (zero) to indicate success
 - **JobId**
 - **XDN** – PGS domain name where the inbound fax was processed
 - **MRN** – PGS Job number associated with the inbound fax.
- **UserId** – PGS User ID associated with the job
- **ServiceType** – TBD
- **CustomerRef** - Customer Reference from the user's profile.
- **BillingCode** - Billing Code from the user's profile.
- **JobDocumentData**
 - **TransactionInfo**
 - **CallDate** - Time the fax was received by PGS.
 - **ConnectTime** - Duration of the inbound fax call (in seconds).
 - **BaudRate** - Baud Rate (speed) of fax reception.
 - **PageCount** - Number of pages in the fax.
 - **Mode** - Mode of the fax (standard or fine)
 - **InternalFaxId** - PGS Internal unique identifier for the fax. **TSID** - Fax ID (also known as RCSID) from the sending fax machine.
 - **ANI** - Calling number (the phone number from which the fax was received)
 - **DNIS** - Destination number (the number to which the fax was delivered).
-
- **DocumentInfo**
 - **JobDocumentType** – Indicates the type of delivery within the job. For a web services fax delivery, possible values are "Delivery" (the "email body" associated with the fax), "Delivery Attachment" (the fax message itself) or "Report" (if reports are also delivered via Web Services)
 - **DocumentNumber**
 - **XDN** – PGS domain name.
 - **DocNo** – PGS Internal number for the document being delivered.
 - **Filename** – The name of the file. For the actual fax, the file name will be determined based on the file naming pattern associated with the user (and chosen via the Fax2Mail web site).
 - **CharacterSet** - Character Set associated with the document.
 - **DocType** – A description of the actual type of the document. Values used for delivery of faxes via web services would be "text", "TIFF", "PDF", and possible "CSV" (for reports)
 - **FileData**
 - The actual contents of the document with a mandatory **format** attribute capable of having two values: "**text**" and "**base64**".

Raw XML Data Received – Part 1

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
- <Envelope xmlns="http://schemas.xmlsoap.org/soap/envelope/" xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
- <Header>
- <Response xmlns="http://premconn.premiereconnect.com/RequestResponse/2008/10">
  <SenderKey>http://premconn.premiereglobal.com/wsda</SenderKey>
  <ReceiverKey>http://137.236.224.42/FaxReceiver/UrlFaxReceiver.php</ReceiverKey>
  <ProcessingID>863845-6</ProcessingID>
</Response>
</Header>
- <Body>
- <JobDocumentTransmitResult xmlns="http://premconn.premiereconnect.com/JobDocumentTransmit/2008/10">
  - <Status>
    <StatusCode>0</StatusCode>
    <SubmissionTime>2009-04-07T00:15:59Z</SubmissionTime>
    <CompletionTime>2009-04-07T00:15:59Z</CompletionTime>
  </Status>
  - <JobDocuments>
    <RecStatus code="0">OK</RecStatus>
  - <JobId>
    <XDN>test2</XDN>
    <MRN>863845</MRN>
  </JobId>
    <UserId>T2/GCAMMER</UserId>
    <ServiceType>F2M</ServiceType>
  - <JobDocumentData>
    - <TransactionInfo>
      <CallDate>2009-04-07T00:15:53Z</CallDate>
      <ConnectTime>24</ConnectTime>
      <BaudRate>26400</BaudRate>
      <PageCount>1</PageCount>
      <Mode>STANDARD</Mode>
      <InternalFaxId>t2rcc1.xpedite.com_22008794_20090407</InternalFaxId>
```

Raw XML Data Received – Part 2

```
<TSID>Via Fax</TSID>
<ANI>7034304440</ANI>
<DNIS>7326769158</DNIS>
</TransactionInfo>
- <DocumentInfo>
  <JobDocumentType>Delivery</JobDocumentType>
  - <DocumentNumber>
    <XDN>test2</XDN>
    <DocNo>1130314</DocNo>
  </DocumentNumber>
  <CharacterSet>ISO-8859-1</CharacterSet>
  <DocType>HTML</DocType>
  <FileData
    format="base64">PCFET0NUWVBFIGh0bWwgUFVCTEIDICItLy9XM0MvL0RUR
  </DocumentInfo>
- <DocumentInfo>
  <JobDocumentType>Delivery-Attachment</JobDocumentType>
  - <DocumentNumber>
    <XDN>test2</XDN>
    <DocNo>1130449</DocNo>
  </DocumentNumber>
  <Filename>fax-040609-2015.pdf</Filename>
  <CharacterSet>ISO-8859-1</CharacterSet>
  <DocType>PDF</DocType>
  <FileData
    format="base64">JVBERi0xLjQKJeTjz9IKMiAwIG9iago8PC9TdWJ0eXBIL0ltY1
  </DocumentInfo>
</JobDocumentData>
</JobDocuments>
</JobDocumentTransmitResult>
</Body>
</Envelope>
```

Url Receiver

- Bare minimum:
 - Server (ie: Apache HTTP Server, or Windows IIS)
 - able to receive HTTP POST messages

Implication: does NOT require WSDL

However, WSDL or XML library functions may facilitate post-processing afterwards.
- Structure of PUSH message consists of HTTP POST Header and raw XML data.

Sample communications exchange

Green is push data, and blue response data.

```
POST /put.php HTTP/1.1
Host: 137.236.224.159
Accept: */*
Content-Type: text/xml
SOAPAction: Format
Content-Length: 23618030625608
Expect: 100-continue
```

HTTP/1.1 100 Continue

[illegible]

```
HTTP/1.1
200 OK
Date: Thu, 02 Apr 2009 19:48:30 GMT
Server: Apache/2.2.11 (Win32) PHP/5.2.9
X-Powered-By: PHP/5.2.9
Content-Length: 0
Content-Type: text/html
```



Sample UrlReceiver

- The provided ***UrlReceiver.php*** that customers can download requires:
 - Web server (ie: apache, IIS)
 - php 5

Inbox

- When this script is run for the first time, an “inbox” directory is created. By default, this directory is located in the same directory as the script, however, it *may* be preferable for this directory elsewhere that is not visible via the internet (ie: external of the http(s)docs path). To modify this, change “*inbox*” in the first executable line in ***UrlReceiver.php*** to an appropriate directory that has writable permissions:
- `$inboxDir = "inbox1"; // CHANGE ME`

User Mailboxes & contents

- In this initial phase, Fax2Mail (F2M) creates 3 documents in a user's mailbox extracted from each received XML:
 - Cover Page (html)
 - Fax (generally TIFF or PDF, but user defined)
 - Raw XML
- If a user's mailbox does not exist, then it will be created. This mailbox name is derived from the <UserID> in the XML.

This gets created if it already does not exist

The image shows a file explorer view of a directory structure. On the left, a tree view shows a folder named 'htdocs' containing a subfolder 'UrlReceiver'. Inside 'UrlReceiver' is a file 'UrlReceiver.php' and a folder 'inbox'. The 'inbox' folder contains three subfolders: 'T2-userID1', 'T2-userID2', and 'T2-userID3'. A blue bracket on the left points to the 'inbox' folder with the text 'This gets created if it already does not exist'. A blue bracket at the bottom points to the 'T2-userID' folders with the text 'From <UserID>'. On the right, a file list shows the contents of the 'T2-userID1' folder. The files are listed with their names, sizes, and types. Above the file list, three blue brackets group the file names by their structure: 'ANI if available' for the first part, 'Date' for the second part, and 'Time' for the third part.

File Name	Size	Type
FROM-2125551234-2009-04-02-16.18.08-COVER_854815.html	2 KB	HTML Document
FROM-2125551234-2009-04-02-16.18.08-FAX_854815.pdf	2 KB	Adobe Acrobat Document
FROM-2125551234-2009-04-02-16.18.08-test2_854815.xml	6 KB	XML Document
FROM-unknown-040609-2057.51-COVER_860616.html	2 KB	HTML Document
FROM-unknown-040609-2057.51-FAX_860616.tiff	16 KB	TIF Image
FROM-unknown-040609-2057.51-test2_860616.xml	24 KB	XML Document

ANI if available Date Time

Filename structure

FROM-7034304440-040609-2015-COVER_863845.html



- A) From originating fax number (if available) other wise “unknown” is used
- B) Timestamp mmddyy-hhmm.ss (seconds granularity is in the latest version incase the server gets hit with many push documents at the same time)
- C) Type -COVER.html,
 -FAX (generally TIFF or PDF)
 -XDN.xml
- D) JobID