

Pangea



COMMUNICATIONS CORP.



The Developer's File Interface for Concert Onramp

Communication between the developer's application and Concert Onramp is via three file types:

- *Fax Request File.* This is an ASCII file that contains information to initiate a fax transfer. (A special case of this file is used for initiating an operation on a previous fax request.)
- *Fax Image File.* This is file containing the image of the fax message. It must be in a faxable Tiff format.
- *Fax Response file.* This is an ASCII file that contains status and billing information on the fax from the application (CONCERT or the developer's application) processing the fax for output.

The developer's file interface must be able to handle these three file types as follows:

- The developer's file interface receives, as input, transmission specifications and fax images from the developer's application. As output, it should produce a fax request file and one or more Fax Image files in the format-specified by Concert Onramp.

The developer's file interface will also receive, as input from Concert Onramp, Fax response files that must be converted to a format that the developer's applications understands.

We describe these three file types in the sections that follow.

Fax Request File

The Fax Request file contains specifications for initiating a fax transmission. These include the following:

- Authentication information used for verifying that the user (or server) is authorized to send the fax.
- Specifications for the fax being sent, including the number of pages, number of recipients, image format, correlation string and the level of status reporting requested.
- Destination phone numbers.

Following, is a sample Fax Request file:

```
[AUTHENTICATION]
Login Name=sjones
Password=40311
[FAX]
NumberOfPages=3
Correlations=FaxMsg001
Subject=(no spaces)

[PHONE_00]
DestinationPhoneNumber=44139494040
```

Fax Request File Format

Notice that the Fax Request file is an ASCII file with entries in variable=value format. Fields in the file are as follows:

Section	Variable	Description
[AUTHENTICATION]	LoginName	Login name of authorized user ⁺
	Password	Password of authorized user ⁺
[FAX]	NumberOfPages	Number of pages in the fax Transmission. Value should correspond to number of Image Files.
	Correlation	A string used for correlating Fax Request files with responses (optional). This may be any string supplied by the developer.
[PHONE_00]	DestinationPhoneNumber	One field indicating the destination fax number. The first section is always [PHONE_00]. Phone numbers must be complete including country code, area code and Subscriber number. Only digits are acceptable, and the number may not include any spaces or separators.

Fax Request File Naming Convention

Fax Request files may receive any legal filename but must end with an extension of .000.

Note: The prefix portion of the file is used for naming the fax Image and Fax Response files related to the specific Fax Request file.

Fax Image Files

The CONCERT server accepts fax images from inbound applications must be in TIFF format, one image file per page.

Fax Image File Naming convention

Each Fax Image file receives the filename prefix of the corresponding Fax Request file and a sequentially numbered, three-digit extension indicating the serial order of the page images. Thus, for a Fax Request file named fax00001.000 where the numberOfPages parameter is specified as 3, there should be three Fax Image files named as follows:

fax00001.001
fax00001.002
fax00001.003

Note: Verifying that the number of Fax Image files actually provided correspond to the NumberOfPages specified in the Fax Request file is the responsibility of the developer's application.

Fax Response File

For each Fax Request file, there will be one Fax Response file, indicating the processing status of the fax message. The Fax Response file contains the following information:

- How long it took to deliver the fax, over the {PSTN, to its final destination.
- Number of retries attempted.
- Final status.
- Error code.
- Time of delivery at destination fax machine.
- Total number of pages received by the CONCERT server.
- Total number of pages actually delivered to the destination.
- Correlation string.

Following is a sample Fax Response file:

```

DeliveryDuration=00:00:40
Retry=1
Status=6
ErrorCode=0
DeliveredTime=13:35:15
TotalPages=3
DeliveredPages=3
Correlation=FaxMsg001
    
```

Fax Response File Format

The Fax Response file is an ASCII file with entries in variable= value format. Fields in the file are as follows:

Variable	Description
DeliveryDuration	Dial-up time for transmitting The fax over the PSTN in hh:mm:ss format
Retry	Number of dial-up retries
Retry	1 Success 2 Failed 8,9,10 Canceled by sender
ErrorCode	0 Success (no error) 113 Out of paper 114 Line quality error 116 No answer 117 Bad fax quality 118 No line 119 Busy 120 Voice Answer
DeliveryTime	Time Fax arrive at destination In hh:mm:ss format
TotalPages	Number of pages received by CONCERT Server
DeliveredPages	Actual number of pages Delivered to final destination

Fax Response File Naming Convention

A Fax Response file receives the filename prefix of the corresponding Fax Request file and the extension.res. a sequentially numbered, three-digit suffix indication the serial order of the page images. Thus, for a Fax Request file named fax00001.000 the resulting Fax Response file would be named fax00001.res.

Developer File Access

The files used for passing information between the developer's application and Concert Onramp must be accessed from a shared file system. This shared file system may reside on the CONCERT side, on the developer application's side or on a disk external to both. The developer's application must provide a file access mechanism that can place files on and retrieve files from the share file system.

Share File System

The shared file system is comprised of one directory structure for inbound applications:

Directories	
Request	Store inbound Fax Request files from the developer's application
Data	Stores inbound Fax Image files from the developer's application
Response	Stores Fax Response files from Concert Onramp

Maintaining the shared File System

The application that receives and handles file is responsible for purging the directories when it no longer needs the files. For example, Concert Onramp purges fax requests and image files from the directory **Request** and **Data**. Purging files from **Response**, on the other hand, is the responsibility of the developer's file access mechanism.

High-level File Access Description

The file access mechanism is the developer's responsibility. We provide here high-level descriptions of the developer's file access. These indicate the operation that should be performed and the order in which we recommend they take place.

File Access for an Onramp Application

The developer's file access for an Onramp application should do the following:

1. Receive a Fax Request file and Fax Image files from the developer's file interface.
2. The Transfer the Fax Image files to the **Data** directory o the shared file system.
3. Transfer the Fax Request file to the **Request** directory on the shared file system.

To avoid synchronization problems, we recommend that the file transfer begin under a temporary name. When the transfer is complete, the file should be renamed or simply ensure the image file (Data) is placed in the Data directory BEFORE placing the Request file in the Request Directory.

4. Monitor the **Response** directory for Fax Response files and retrieve these files when they arrive.
5. Pass the Fax Response file to the developer's file Interface.
6. Purge Fax Response files from the shared file system.