



Calendar Pro Web SDK Integration Guide

The SDK user guide is used for creating web-based solutions that use the Calendar Web Service to create and print personalized calendars.

This short document provides information on how to integrate the web based front-end with the back end Internet service.

Overview

The integration process is quite simple and straightforward. The web site can be designed in any way and can include as many pages as needed. The web interface needs to support the ability of the user to:

1. Select a calendar template (or use a template provided by the web application).
2. Select other calendar defaults, the year, the default holiday overlay, etc.
3. Insert images (upload or select from a list of images on the server)
4. Insert customized text, if applicable.
5. Insert personal events, if applicable.

Note that the range can range from using a pre-defined calendar to a fully customized and personal calendar.

After the user had selected / inserted all the personal information, she should do the actual purchase. This does happen on your web site.

Once the purchase is approved, the following needs to happen:

1. All the calendar information is placed on the ftp server. Each file can be located in a different directory.
2. An http message is sent to our server notifying the system that a calendar is ready for print. The system will later connect to the ftp site and take the information to be processed.
3. The system will respond with an http call to a supplied URL for failure or success.

Detailed Explanation

Calendar Templates and Template Files

Technically, a template is a file that describes the visual elements of the printed calendar. That may include the picture(s) location on the page, the font used, color used, page location of graphics, etc. The template is a file format compatible with the Calendar Pro Template Specification

The HTTP Message

The job is posted to Digi-Labs processing queue by invoking the following http message:

```
http://www.sendtodigilabs.net  
/website/FTPOrders.asp?vendorID=VENDOR_ID&dir=DIR&filename=FILE_NAME&orderid=ORDER_ID
```

where:

VENDOR_ID is the vendor id as provided by Digi-Labs at the time of the agreement. As part of setting up this agreement, you will also supply us with the ftp server host, user name and password. This ftp information will be used to pull the complete job from your servers.

DIR is the ftp directory (from the ftp root directory in which the job description file will reside.

FILE_NAME the name of the job description file. This file contains all the information needed to compose the personal calendar.

ORDER_ID Vendor supplied order id number

The http response for this message will be either to call the partner predefined success url or fail url. Those urls are provided by the partner at registration time as part of the vendor agreement.

The FTP Server (and Vendor Agreement)

All the calendar elements are placed on an ftp server. The information is then pulled from the server for processing at a later time. The ftp information (host id, user name, password) will be supplied at the time of the agreement and will be used to pull the needed files for processing.

The vendor agreement will provide the necessary set up of the relationship. Without this agreement, the vendor is not recognized in the system and posted jobs are not processed.

The Job Description File

A job description file is a text file (.txt) that contains all the needed information for the job. The file is a tab-delimited text file. This is the file format:

Custom Calendar	1	Signature & Version (mandatory)
VID	DIGI-LABS	Vendor ID
COPIES	1	Number of copies
SHIPTO		Shipping information tag – begin
NAME	Mr. John Doe	
STREET1	123 Wonderful Ave.	
STREET2	---	
CITY	Perfect City	
STATE	CA	
COUNTRY	USA	
ZIP	91112	
PHONE	123-4567890	
EMAIL	john@greatjob.com	
END		End of shipping information
YEAR	2003	Calendar year (YYYY format)
HOLIDAY	US Holidays	Holidays to include (from list of available)
HOLIDAY	Jewish Holidays	
TEMPLATE	caltest/lp-plain.txt	Template file to use (full ftp path)
IMAGES		Image list – start
caltest/1.jpg		
caltest/1.jpg		
caltest/2.jpg		
caltest/3.jpg		
caltest/4.jpg		
caltest/5.jpg		
caltest/6.jpg		
caltest/7.jpg		
caltest/8.jpg		
caltest/9.jpg		
caltest/10.jpg		List of images (full ftp path)

caltest/11.jpg			
caltest/12.jpg			
END			List of images – end
TEXT			User text – start
Text 0			
Text 1			
Text 2			
Text 3			
Text 4			Strings of user supplied text
Text 5			
Text 6			
Text 7			
Text 8			
Text 9			
Text 10			
Text 11			
Text 12			
END			User supplied text - end
EVENTS			User event list – start
1	12	My Birthday	User events in the format of
6	20	Special Day	Day month description
12	17	Another Day	
END			User events – End
END			Job definition - END

Notes:

1. The right column is for explanation ONLY and should not be part of the file.
2. Fields in the file are separated with a TAB.
3. The signature is a mandatory field. Files will not be recognized as valid job description without this field.
4. The HOLIDAY tag can be repeated for each holiday layer desired. (Currently, valid layers are: US Holidays, Jewish Holidays, Chinese Holidays, Muslim Holidays, Mexican Holidays). In the case a holiday exist in more than one layer, it will appear only once.

5. Templates files are supplied with the SDK package. Contact us if you wish to develop your own templates. In general, all templates are for 13 pages of a Gregorian calendar (header page + 12 month), on a 12" x 18" page size. Path should be the full ftp path from the ftp root.
6. Image list starts with the tag IMAGES and ends with an END. The list of images can be of any length. Each image is specified with its full ftp path. Images allowed are gif and jpeg only. Images are used in their sequential order. For example, if the template has 1 picture per page, than the first image will replace the header page image, the second will replace the January's page, etc. If the header page contains two images, than images 1 & 2 will be used for the header page, image 3 for Januarys, etc.
7. Text list starts with the tag TEXT and ends with an END. The text list can be of any length. Each text item is a string with no line breaks or tabs allowed. Text strings are used in their sequential order. Text will replace only items that are marked in the template with the tag %%%USER%%%.
8. The user events list starts with the tag EVENTS and ends with an END. The text list can be of any length. Each event is described by its "MM <TAB> DD <TAB> String". Events strings should not include line breaks or tabs. Illegal dates will be dropped.
9. The file should end with an END

The Template File

Templates files are supplied in the integration package. If you are interested in designing your own templates, please contact us.

Images and User Text

Images supported are images of the JPEG and GIF formats. Please be aware that for decent print quality, images should be at least 150 dots-per-inch resolution (DPI). A 300 DPI will yield excellent results.

Text length should be limited to what can be fit on the page, based on the template. Text will wrap around lines if there is enough space defined in the template for that text.

Sorry, but at this point we can not guarantee accuracy for non-English text.

Personal Events

Personal events are defined by the date (month and day) and a textual description. The description should be limited in length to fit a 'day box'. It is allowed to have more than one event per date.

Job Description QA Tool

The Job Description QA tool is a Java based tool that will attempt to read a job description file and report error in the process. It can be used during the development process to verify that files created are valid job descriptions.

Troubleshooting

Look for support at www.digi-labs.net or email us at info@digi-labs.net

Questions? Call us at (650) 906-8963 or email as at info@digi-labs.net