



Introduction

Introducing Mercury

Your corporate shipping has just become easier! The satisfaction of your customers depends on the accuracy of your shipments, and there is no better place to access your shipment information than directly from your database.

Mercury is a complete product line of shipping solutions. Each solution empowers businesses with integrated web-based shipping for individual carriers. Sonicode assists in the integration of Mercury with their client's existing web applications. Mercury has been designed to offer your company the ultimate in flexibility. Because it has been designed to easily integrate with your existing database, it provides the most efficient and error-free way to ship domestic shipments.

Each Mercury product is a complete web-based shipping application written in PHP that can interface with a multitude of existing databases. This allows the user to pull data directly from their existing sales, financial, and CRM databases.

Why Choose Mercury?

Mercury comes ready to integrate with your existing sales, financial, and CRM databases. After a simplified integration process, you can simply enter an order number and Mercury retrieves the ship-to name, address, shipping service and more. Mercury even has the ability to make your accounting department more efficient by automatically updating orders with freight charges and tracking information. Mercury allows you to centrally manage shipping activities across multiple carriers and corporate locations using only a web browser.

Mercury receives the label information and shipping rate data directly from the shipping carrier, so you know your information will always be up to date and accurate. You will never need to install rate updates when shipping carriers change their rates. Carrier approved shipping labels can be printed automatically on a UPS compatible thermal label printer or printed on a laser printer. Shipments can be reprinted if necessary and voided if there was an error. Shipment details can be viewed for each individual shipment and a shipping summary report is built in to keep track of shipments within any date range. No modem is required to upload your shipments. All shipments are posted to the shipping carrier via the Internet in real time.

Supported FedEx Shipping Services *(Mercury :: FedEx only)*

- ▶ FedEx Priority Overnight
- ▶ FedEx Standard Overnight
- ▶ FedEx 2-Day Air
- ▶ FedEx Express Saver
- ▶ FedEx Ground

Supported UPS Shipping Services *(Mercury :: UPS only)*

- ▶ UPS Ground
- ▶ UPS 3-Day Select
- ▶ UPS 2-Day Air
- ▶ UPS Next Day Air Saver
- ▶ UPS Next Day Air
- ▶ UPS Next Day Air Early AM

Supported Service Options

- ▶ Bill Sender, Recipient, or 3rd Party
- ▶ Insured Value
- ▶ COD Secured / Non-Secured
- ▶ Future Ship Date
- ▶ Delivery Confirmation
- ▶ Signature Required
- ▶ Saturday Delivery
- ▶ Hold At Location

Supported FedEx Package Types *(Mercury :: FedEx only)*

- ▶ FedEx Letter
- ▶ FedEx Pak
- ▶ FedEx Box
- ▶ FedEx Tube

Supported FedEx Package Types *(Mercury :: UPS only)*

- ▶ UPS Letter
- ▶ UPS Tube
- ▶ UPS Pak
- ▶ UPS Express Box
- ▶ UPS 25G Box
- ▶ UPS 10G Box

Supported Other Package Types

- ▶ Other (Your own packaging)
- ▶ Custom Packages (Automatically enter package dimensions)

Supported Databases

- ▶ MySQL
- ▶ PostgreSQL
- ▶ InterBase
- ▶ Mini SQL
- ▶ Microsoft SQL Server
- ▶ Oracle 7/8/8i
- ▶ ODBC (Open Database Connectivity)
- ▶ SyBase
- ▶ Informix
- ▶ FrontBase

Server Requirements

- ▶ Linux or UNIX Web Server
- ▶ PHP 4.3.0 or Later
- ▶ Compiled curl + SSL Support

Client Requirements

- ▶ Internet Explorer 5.0 or greater
- ▶ Netscape Navigator 6.0 or greater
- ▶ Mozilla 1.6 or greater
- ▶ UPS compatible thermal label printer (for thermal label support)
- ▶ Installed and configured UPS Online thermal label printer drivers (for thermal label support)
- ▶ UPS Online thermal label Active X component
- ▶ Laser printer (for laser printer support)

Installation

1.) Register with FedEx *(Mercury :: FedEx only)*

Before you can start creating FedEx Shipments with Mercury, you must first pass the FedEx certification process. This certification process ensures your labels are printed properly and can be scanned by FedEx. The first step in the certification process is to send an email to websupport@fedex.com requesting to have your Express and/or Ground account number setup in the test environment. Your request email must include a contact name, FedEx account number, company name, phone number, and email address. Once you have submitted your request, you will be notified via email within (24) twenty-four hours that you may begin the certification process. The following is a sample request email:

Hello,

Please add our account to the test server so that we can proceed with the certification process. Our information is as follows:

Contact Name: <your contact name>
Account Number: <your account number>
Company Name: <your company name>
Phone Number: <your phone number>
Email Address: <your email address>

Thank You

2.) Register with UPS *(Mercury :: UPS only)*

Before you can start shipping with Mercury :: UPS, you must first pass sign up for access to the UPS XML Ship Premium Tool and the UPS certification process. Mercury connects directly to UPS servers to create and receive shipping labels. The certification process ensures your labels are printed properly and can be scanned by UPS. Perform the following steps to sign up for the required UPS XML Ship Premium Tool.

- a.) Register With UPS by directing your web browser to the following URL:
https://www.ups.com/servlet/registration?loc=en_US_EC&returnto=http://www.ec.ups.com/ecommerce/techdocs/online_tools.html
- b.) Once registered and logged in you need to request an XML Access Key
- c.) Select the "Get XML Access Key option"
- d.) This will give you a valid XML access key to use our tools to perform Rates, Rate Shopping, Tracking, Time In Transit, Availability requests

- e.) You will then need to apply for and receive permission from UPS for use of their " Premium "tools which includes ability to do what you need, create Shipping Label, void existing shipment (created by the system) and perform Signature Tracking requests
- f.) Once you receive approval from them then your userid and password (received in step 1) will be upgraded to gain access to their premium tools API, also you will then be able to request an upgraded (premium enabled) XML access key

3.) Install Mercury

- g.) Download Mercury from <http://www.sonicode.com/>
- h.) Make sure your web server owns the installation path.
 - On Linux and UNIX use the following command: `chown -R www <your install path>`
- i.) Extract the application.
 - On Linux and UNIX use the following command: `tar -zxvf mercury.fedex.1.0.tar.gz`
- j.) Mercury uses the ionCube Encoder to secure and optimize the code. In case your server doesn't have ionCube support already enabled, the required Loaders are included with Mercury. On most systems running non-threaded web servers (e.g. Apache 1 on Unix or Apache 2 without threading and safe mode enabled), the encoded files will automatically install the Loader when needed, or you can permanently install the Loader by adding a single line to the php.ini file. With automatic loading, no changes to the php.ini file or a server restart are necessary
- k.) Create a new database on your database server. We recommend using phpMyAdmin or phpPgAdmin for database administration for MySQL and PostgreSQL databases respectively. After creating the new database, remember to create set your user permissions accordingly.
- l.) Launch your web browser and direct it to the URL where you installed Mercury. Your browser will be automatically redirected to the application installer (**Figure A.**). Enter the corresponding data for each field and click "Install" when finished. Your configuration file will be written and the required database tables will be created.

Instructions: Please enter the required data below. Most database hosts are on localhost, but certain scenarios may require an IP address to be entered. Also, database user must have sufficient privileges to create tables in the database.

Database Host: localhost	Database Name: mercury_fedex
Database User: 	Database Password:
Database Type: MySql	Label Format: Laser Printer
Shipper Company Name: 	Shipper Department: Shipping Department
Shipper Address 1: 	Shipper City:
Shipper Address 2: 	Shipper State:
Shipper Address 3: 	Shipper Zipcode:
Shipper Country: US	Shipper Phone: 1234567890
Shipper Email: 	

Figure A. – The Mercury installation dialog.

After your successful installation, point your browser to the root URL installation path of Mercury. Pull down the FedEx menu and select “FedEx Express Settings” (**Figure B.**). Enter your FedEx account number in the appropriate field. If you plan on shipping FedEx Ground, do the same for the “FedEx Ground Settings” dialog.

Name: FedEx Express	
Login:	Password:
Access ID:	Account: 123456789
Live Server: https://gateway.fedex.com/GatewayDC	Mode: Test Mode
Test Server: https://gatewaybeta.fedex.com/GatewayDC	Save

Figure B. – The Settings Dialog

m.) Once you have received confirmation from FedEx that your account has been added to the test environment (see step 1 above), you are ready to subscribe and receive your test meter account number. Pull down the FedEx menu and select "Subscribe". If all was successful, you will receive a successful response and your meter number will be stored in your FedEx Express and FedEx Ground settings.

4.) Thermal label printer support (optional)

For detailed instructions on how to enable thermal label printing support on Microsoft Windows with Internet Explorer, please contact Soniccode at support@sonicode.com

5.) Customize Mercury

Mercury allows you to specify any SQL query to load order data from your existing sales or CRM database. As of writing, tested database servers include MySQL and PostgreSQL. Mercury supports the following databases by using the popular open source PEAR DB library:

- ▶ dBase
- ▶ FrontBase
- ▶ InterBase
- ▶ Informix
- ▶ Mini SQL
- ▶ Microsoft SQL Server
- ▶ MySQL
- ▶ Oracle 7/8/8i
- ▶ ODBC (Open Database Connectivity)
- ▶ PostgreSQL
- ▶ SQLite
- ▶ Sybase

To specify your custom SQL query, you must edit the configuration options from line 100 down in the file lib/config.php. You can specify which table to load shipping services from as well as what database to load the order details from.

6.) FedEx Certification Process *(Mercury :: FedEx only)*

- a.) FedEx Express: Manually enter each of the provided test shipments in Express Test Supported.doc and print the corresponding shipping labels.
- b.) FedEx Ground: Manually enter each of the provided test shipments in Ground Test Supported.doc TWICE and print the corresponding shipping labels. Remember that you need two shipments for each of the four scenarios.
- c.) Print a short description of how you intend to use Mercury
- d.) Ship your test labels and short usage description via FedEx to:
 - FedEx API Certification
 - C/O Charles Hailey
 - 20 FedEx Parkway
 - 1st Floor Horizontal
 - Collierville TN 38017
 - United States
 - 901-263-8508
- e.) Approval usually takes no longer than 48 hours. After approval you can switch to "Live Mode" in the "FedEx Express Settings" and "FedEx Ground Settings" dialogs from the FedEx pull down menu.

7.) UPS Certification Process *(Mercury :: UPS only)*

UPS requires you to produce 38 different files to gain Shipment certification these files include XML request and response files, label HTML files and label graphic files (see page 114 of the UPS XML Ship API documentation for specific details).

When Mercury is in Test Mode, all XML documents that are sent and received in transactions are stored in your /tmp directory. You will need these XML documents to send to UPS along with the label images. To change between Test Mode and Live Mode go to the UPS->UPS Settings Menu and specify your desired transaction mode in the Mode pull down field.

8.) Using Mercury

- a.) A sample Shipment transaction for order #5000 of the default install database:
 - a. Enter 5000 into the order number field.
 - b. Click "Load Order" or press Enter.
 - c. The address and shipping service will load in each field.
 - d. Enter a shipment weight.
 - e. Click "Ship".
 - f. If you have set up thermal label support, a thermal label will automatically print. If you are using a laser printer, the print dialog will appear. The shipment will display in the shipment browser list after the label has been printed.
- b.) A sample Delete Shipment transaction for order #5000 of the default install database:
 - a. Enter 5000 into the order number field.
 - b. Find the shipment you wish to void in the shipment browser list on the bottom of the screen.
 - c. Click the Void Shipment icon.
 - d. Confirm the Void Shipment dialog.
 - e. The shipment will be deleted from the shipment browser list on the bottom of the screen.
- c.) A sample Close FedEx Ground Shipments transaction:
 - a. Pull down the FedEx option from the pull-down menu and click on "Close FedEx Ground Shipments".
 - b. A print dialog will appear.
 - c. Print the report and present it to the FedEx driver during pickup.