

# USPS Pricing Engine SDK

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May 21, 2015

## Summary

This is the Domestic and International Pricing Engine SDK (version 11.2.0.0) for the May 2015 Release. The following is a list of enhancements included in this release.

## Databases

This release includes the new 2015 databases. The database can be created by either restoring from backup or executing the full creation SQL script. Both the database backups and the SQL scripts are current as of Feb 27th 2015; be sure to apply all maintenance SQL scripts that have been or will be released after Feb 27th 2015. The database backups and full SQL scripts can be found on the download server.

### Database Backups

/Pricing Engine SDK/SDK Packages/11.2/USPS\_DOM\_2015 SQL Server 2012 Backup.zip

/Pricing Engine SDK/SDK Packages/11.2/USPS\_INTL\_2015 SQL Server 2012 Backup.zip

### Database SQL script

/Pricing Engine SDK/SDK Packages/11.2/USPS\_DOM\_2015 SQL Server 2005 Script.zip

/Pricing Engine SDK/SDK Packages/11.2/USPS\_INTL\_2015 SQL Server 2005 Script.zip

## Prices

### 1001 - Prices cells changing - Price Tables

Most prices have been updated.

## Domestic and International Pricing Engine

### Updated version number and sign all DLLs

All the libraries have been update to version 11.2.0.0 and re-signed.

### Delete Customer Type map CNSB\_Retail\_Stamps\_009R4

Delete the Domestic and International customer maps for 009R4 CNSB Retail Stamps. The following error message will now be returned when the Customer Type is 009R4:

We are unable to complete your request. This application now requires the identification of a payment method – (postage meter, permit, eVS). Please close out and restart the application to get the latest version

## Domestic Pricing Engine

### 1300-285 - FCM parcels moved to competitive

First-Class Mail Parcel Retail has been moved to First-Class Package Service. The First-Class Mail Parcel (Mail service ID 7) mail service will no longer be returned by the Pricing Engine. The First-Class Retail price is now being returned as the Retail "R" Postage Price for the First-Class Package Service (Mail service ID 55).

This update has not been approved to move to Production, a new script (*Task 2893 1300-285 - FCM parcels moved to competitive – Undo.sql*) has been included in the package that will revert the system back to the original state.

### 1900-283 - Simplify Extra Service Offerings

Changes have been made to the Domestic Pricing Engine to implement Simplify Extra Service Offerings. These changes include adding new extra services and removing obsolete extra services. Extra service combinations have also been modified per the requirements. All the customer maps have been updated to include and remove the extra services allowed for each customer type.

#### Extra Services Added

ID	Name
170	Certified Mail Restricted Delivery
171	Certified Mail Adult Signature Required
172	Certified Mail Adult Signature Restricted Delivery
173	Signature Confirmation Restricted Delivery
174	Signature Confirmation Electronic Restricted Delivery
175	Collect on Delivery Restricted Delivery
176	Registered Mail Restricted Delivery
177	Insurance Restricted Delivery
178	Insurance Restricted Delivery (PME)
179	Insurance Restricted Delivery (PM)
180	Insurance Restricted Delivery (bulk only)
190	Special Handling – Fragile
191	Special Handling – Hazardous Material Transportation
192	Special Handling – Live Animal Transportation
193	Special Handling – Perishables
194	Special Handling – Cremated Remains

#### Extra Services Removed

ID	Name
111	Restricted Delivery
113	Special Handling
157	Special Handling

The Pricing Engine allows for the new “Special Handling” extra services to be specified as the Mail Piece Content. Reference the following tables for content and price detail keys:

### Content Keys

Key	Description
LiveAnimals	The mail piece content is a Live Animal(s). Equivalent to Special Handling - Live Animal Transportation
DayOldPoultry	The mail piece content is a Live Animal(s) that is Day Old Poultry.
Hazmat	The mail piece content is Hazmet. Equivalent to Special Handling - Hazardous Material Transportation
GroundTransportation	The mail piece requires Ground Transportation.
Nonmachinable	The mail piece is Not Machinable.
CrematedRemains	The mail piece content is Cremated Remains Equivalent to Special Handling - Cremated Remains
Perishables	The mail piece content is Perishable. Equivalent to Special Handling - Perishables
Fragile	The mail piece content is Fragile Equivalent to Special Handling - Fragile

### Price Detail Keys

Key	Description
LA	Live Animal Fee
S	Sunday/Holiday Fee
A	10:30 AM Delivery Fee
NM	Nonmachinable Fee
X	Base Price
F	Fragile Fee

## International Pricing Engine

### 2100-271 - One Americas Zone pricing

Changes have been made to the International Pricing Engine to implement Canadian zone pricing. When requesting rates for Priority Mail International to Canada the 3-digit Origin ZIP code and the first digit of the Destination Postal code is now required. The Pricing Engine will also accept the 5-digit Origin ZIP code and any number of digits for the Destination Postal code.

### *Structure change*

An errors section has been added to the International ServicesWithPricing class. This section contains a collect of error numbers/ messages objects.

### *GetServicesWithPricing method*

If the specified country is Canada and the Origin ZIP code and/or Destination Postal code is not specified in the request; an error will be returned in the new error section of the ServicesWithPricing class.

### *CalculateServicePrice method*

If the specified country is Canada and the Origin ZIP code and/or Destination Postal code is not specified in the request; an exception will be thrown.

## **2101 - Updating Prohibitions, Restrictions, and Observations in the Individual Country Listings. (Regulatory)**

### *Tokelau - regulatory*

- Changed parent country from Western Samoa to New Zealand
- Changed from PMEI price group 6 to price group 10
- Changed from PMI price group 6 to price group 10
- Changed Name to "Tokelau (New Zealand)"
- Changed CountryNumber to 244
- Changed Code to (NZ)

### *Western Samoa - regulatory*

- Changed name from "Western Samoa" to "Samoa" - 10512
- Changed child countries to end with "(Samoa)"
  - Atafu (Samoa) - 10505
  - Fakaofu (Samoa) - 10506
  - Nukunonu (Samoa) - 10507
  - Savaii Island (Samoa) - 10508
  - Upolu Island (Samoa) - 10511

### *Saint (St.) Christopher - regulatory*

- Changed name from "Saint Christopher and Nevis" to " Saint (St.) Kitts and Nevis " - 10400
- Changed child countries to end with "(Saint (St.) Kitts and Nevis)"
  - Nevis (Saint (St.) Kitts and Nevis) - 10399
  - Saint Kitts (Saint (St.) Kitts and Nevis) - 10401

## **2102 - Additional Countries for PMEI (with Price Group)**

Priority Mail Express International will now be returned for the following countries

<b>ID</b>	<b>Name</b>
10048	Burma
10049	Myanmar (Burma)
10225	Canton Island (Kiribati)
10226	Christmas Island (Kiribati)
10227	Enderbury Island (Kiribati)
10228	Fanning Island (Kiribati)
10229	Gilbert Islands (Kiribati)
10230	Kiribati
10231	Ocean Island (Kiribati)
10372	Sao Tome and Principe

## Instructions

1. Copy all DLLs
2. Restore the database backups or execute full SQL scripts
3. Execute or **Re-Execute** SQL scripts in order shown below or execute the batch files

## Contents

Description	File
Folder	Database
Folder	Domestic
SQL Script	Update_Adult_Signature.sql
SQL Script	Task 3219 - Special Handling.sql
SQL Script	Task 3221 - Add fee_rd.sql
SQL Script	Task 3222 - Remove insurance indicator add fee_rd.sql
SQL Script	Mailing Services Prices-Proposed Updated 02.06.15.sql
SQL Script	Shipping Services Prices-Proposed.sql
SQL Script	1001 - Prices cells changing - Discounts and Surcharges.sql
SQL Script	1900-283 - Simplify Extra Service Offerings - Step 1.sql
SQL Script	1900-283 - Simplify Extra Service Offerings - Step 2.sql
SQL Script	1900-283 - Simplify Extra Service Offerings - Step 3.sql
SQL Script	Task 2893 1300-285 - FCM parcels moved to competitive - Undo.sql  <b>Notes:</b> <ol style="list-style-type: none"> <li>1. Execute if “1300-285 - FCM parcels moved to competitive” has not been approved.</li> <li>2. The “Execute Domestic Price Change Updates.bat” will execute this script.</li> </ol>
SQL Script	Task 2893 1300-285 - FCM parcels moved to competitive.sql  <b>Notes:</b> <ol style="list-style-type: none"> <li>1. Execute if “1300-285 - FCM parcels moved to competitive” has been approved.</li> </ol>
SQL Script	1001 - Recreate Standard Mail Flats tables.sql
SQL Script	1001 - Populate Standard Mail Flats tables.sql
SQL Script	1600-130 Incent 5-digit Scheme and 2000-79 FSS Fine Tuning.sql
SQL Script	Bug 3312 - Add PM Large Flat Box APO-FPO-DPO.sql
SQL Script	Task 3495 - Add Size to Priority Mail Window Flat Rate Envelope.sql
SQL Script	Task 2962 - Domestic Automated Pricing Files.sql
SQL Script	Bug 3644 - Footnotes should have Loss Limit as 50000.sql
Batch File	Execute Domestic Price Change Updates.bat
Folder	CustomerMaps
SQL Scripts	CreateClient_*

<b>Batch File</b>	Execute Domestic Customer Maps Updates.bat
<b>Folder</b>	International
<b>SQL Script</b>	Create_PriorityMailCanada.sql
<b>SQL Script</b>	Create_ZoneChart.sql
<b>SQL Script</b>	Alter IPA and ISAL column widths.sql
<b>SQL Script</b>	Bug3242 Correct LinkBusiness WebURL for Grenadines.sql
<b>SQL Script</b>	Task 2950 - 2101 Updating Prohibitions.sql
<b>SQL Script</b>	Task 2100-271 Canada Zone Pricing.sql
<b>SQL Script</b>	2102 - Additional Countries for PMEI - ICL.sql
<b>SQL Script</b>	2102 - Additional Countries for PMEI.sql
<b>SQL Script</b>	Mailing Services Prices-Proposed Updated 02.06.15.sql
<b>SQL Script</b>	Shipping Services Prices-Proposed.sql
<b>SQL Script</b>	Task 2962 - International Automated Pricing Files.sql
<b>SQL Script</b>	Task 4099 - Update Broken Links.sql
<b>Batch File</b>	Execute International Price Change Updates.bat
<b>SQL Script</b>	ZNCHART.INTER.TXT_DeleteStartDate.sql
<b>SQL Script</b>	ZNCHART.INTER.TXT_BCPStartDate.sql
<b>Batch File</b> <i>Executed as part of the "Execute International Price Change Updates.bat"</i>	ZoneChart_SqlUpdate.bat
<b>Folder</b>	CustomerMaps
<b>SQL Scripts</b>	CreateClient_*
<b>Batch File</b>	Execute International Customer Maps Updates.bat
<b>Folder</b>	Libraries
<b>Rate Engine Framework</b>	RateEngine_Framework.dll
<b>Business Framework</b>	RateEngine_Business.dll
<b>Domestic Business Rate Engine</b>	RateEngine_DomBusiness.dll
<b>International Business Rate Engine</b>	RateEngine_IntlBusiness.dll
<b>Service Delivery Extensions</b>	ServiceDeliveryExtensions.dll
<b>Folder</b>	Test Tools
<b>Domestic Business Test Tool</b>	DomBusinessSrvTest.exe
<b>International Business Test Tool</b>	IntlBusinessSrvTest.exe
<b>Libraries and Configuration files</b>	*
<b>Design Model</b>	Pricing Engine Design Model.pdf
<b>Release Notes</b>	USPS Pricing Engine SDK 11_2_0_0.pdf

## Reported Defects

ID	Title	Status
2730	Weight limit in error message is wrong.	Corrected
3264	1001 - Registered Mail COD Showing wrong fee value	Corrected
3306	2102 - Extra Services are not available for Burma, Kiribati and Sao Tome and Principe	Corrected
3413	1900-283 - Simplify Extra Service Offerings - eVS is not returning all requested Extra Services	Corrected
3489	1900-283 - Simplify Extra Service Offerings - USPS Tracking should be returned for FCM, MM, LM, BPM	Corrected
3529	1900-283 - Simplify Extra Service Offerings - Incorrect Rate for PME and PM Insurance	Corrected
3577	1900-283 - Simplify Extra Service Offerings - Incorrect Loss Limit for Registered Mail	Corrected
3627	1001 - Prices cells changing - Price Tables - Incorrect price for Parcel Select 70 lbs	Corrected
3632	1001 - Prices cells changing - Price Tables - Incorrect Prices for FCM Flats and Parcels 3 ounces	Corrected
3637	1900-283 - Simplify Extra Service Offerings - Insurance Restricted Delivery should display an warning when < \$500	Corrected
3644	1900-283 - Simplify Extra Service Offerings - Footnotes should have Loss Limit as \$50,000.00	Corrected
3671	1900-283 - Simplify Extra Service Offerings - Incorrect Extra Services for APO/FPO/DPO	Corrected
3676	1300-285 - FCM parcels moved to competitive - Incorrect error message	Corrected
3682	2100-271 - One Americas Zone pricing - Incorrect Max Weight for Canada	Corrected
3687	2100-271 - One Americas Zone pricing - Capitalize Postal Code	Corrected
3893	1900-283 - Simplify Extra Service Offerings - Remove Return Receipt Electronic from Insurance over \$500	Corrected
4079	CR EDDM Prices are incorrect when weight is greater than 3.5 oz	Corrected
4084	Incorrect Extra Services for some Mail Service and Combinations	Corrected

### 2730 Weight limit in error message is wrong

#### International Pricing Engine

##### Problem:

Error message regarding weight is wrong. This is in regard to the mail services that have a limit of 4 pounds. The error message says 20 pounds as the limit instead of the 4.

### 3264 1001 - Registered Mail COD Showing wrong fee value

#### Domestic Pricing Engine

##### Problem:

In COD Registered table, the fee is showing a different value than the spreadsheet.

In the Database, the fee is 5.15

In the spreadsheet, the fee is 5.90

### **3306 2102 - Extra Services are not available for Burma, Kiribati and Sao Tome and Principe**

#### **International Pricing Engine**

**Problem:**

No extra services are being returned

### **3413 1900-283 - Simplify Extra Service Offerings - eVS is not returning all requested Extra Services**

#### **Domestic Pricing Engine**

**Problem:**

eVS Comm. Base is missing the following Extra Services 011B6

170 - Certified Mail Restricted Delivery

171 - Certified Mail Adult Signature Required

172 - Certified Mail Adult Signature Restricted Delivery

174 - Signature Confirmation™ Electronic Restricted Delivery

eVS Comm. Plus is missing the following Extra Services 011P6

174 - Signature Confirmation™ Electronic Restricted Delivery

### **3489 1900-283 - Simplify Extra Service Offerings - USPS Tracking should be returned for FCM, MM, LM, BPM**

#### **Domestic Pricing Engine**

**Problem:**

Add USPS Tracking to Media Mail, Library Mail, BPM Parcels and First-Class Package Service

### **3529 1900-283 - Simplify Extra Service Offerings - Incorrect Rate for PME and PM Insurance**

#### **Domestic Pricing Engine**

**Problem:**

When the declared value is \$12 for PME and PM in the domestic retail calc. and a fee is showing – should be No Charge.

## **3577 1900-283 - Simplify Extra Service Offerings - Incorrect Loss Limit for Registered Mail**

### **Domestic Pricing Engine**

#### **Problem:**

For both domestic business and retail:

Liability for loss or damage is limited up to \$25,000.00.

Should now be:

Liability for loss or damage is limited up to \$50,000.00.

## **3627 1001 - Prices cells changing - Price Tables - Incorrect price for Parcel Select 70 lbs**

### **Domestic Pricing Engine**

#### **Problem:**

- For Parcel Select ONDC Presort, the Oversized prices is being returned for the 70lb price
- For Parcel Select – Nonpresort, the Oversized prices are being returned for the 70lb price
- For Parcel Select Destination Entry – Nonmachinable, the Oversized prices are being returned for the 70lb price

## **3632 1001 - Prices cells changing - Price Tables - Incorrect Prices for FCM Flats and Parcels 3 ounces**

### **Domestic Pricing Engine**

#### **Problem:**

The following calculators are returning 4 ounce prices when the user enters 3 ounces:

- FCM Flats - Automation Flats
- FCM Flats - Nonautomation Flats
- FCM Flats - Roundtrip DVD, CD or Other Disc Automation Flats
- FCM Flats - Roundtrip DVD, CD or Other Disc Nonautomation Flats
- First-Class Package Service Retail 3 ounce is showing 4 ounce price

## **3637 1900-283 - Simplify Extra Service Offerings - Insurance Restricted Delivery should display an warning when < \$500**

### **Domestic Pricing Engine**

#### **Problem:**

Should display warning about Insurance Restricted Delivery must be more than \$500

## 3644 1900-283 - Simplify Extra Service Offerings - Footnotes should have Loss Limit as \$50,000.00

### Domestic Pricing Engine

**Problem:**

Footnotes states the Liability for loss or damage is limited up to \$25,000.00, should be \$50,000.00

## 3671 1900-283 - Simplify Extra Service Offerings - Incorrect Extra Services for APO/FPO/DPO

### Domestic Pricing Engine

**Problem:**

APO/FPO/DPO Extra Service rules need to be applied to the new Extra Services

## 3676 1300-285 - FCM parcels moved to competitive - Incorrect error message

### Domestic Pricing Engine

**Problem:**

If we submit a weight  $\geq 16$  ounces for "R" or "CB" the following error message is returned:

*"The entered weight must be less than 16 ounces"*

If we submit a weight  $> 13$  and  $\leq 16$  ounces for "R" or "CB" we get the standard error message back from the pricing engine:

*"The requested Mail Service is not available for the specified customer type."*

**Correct Behavior:**

The error message for "R" and "CB" should be:

*"The entered weight must be less than or equal to 13 ounces"*

The error message for "CP" should be:

*"The entered weight must be less than 16 ounces"*

## 3682 2100-271 - One Americas Zone pricing - Incorrect Max Weight for Canada

### International Pricing Engine

**Problem:**

The max weight for Canada PMI is 66lbs – we should change the 70lbs to say 66lbs for Retail, CB, and CP (ibcalc)

## 3687 2100-271 - One Americas Zone pricing - Capitalize Postal Code

### International Pricing Engine

#### Problem:

The user is required to input the Canada Postal Code in All Caps or it will not accept it. Could we put something directly under "Destination Postal Code" that says (Postal Code must be in all caps) or something like that?

#### Solution:

Capitalize Postal Code below checking database for zone

## 1900-283 - Simplify Extra Service Offerings - Remove Return Receipt Electronic from Insurance over \$500

#### Problem:

The product owner is requesting that Return Receipt Electronic not be allowed as an additional Extra Service when paired with insurance greater than \$500. The product owner is stating that the customer can receive signature service and proof of delivery with only the purchase of insurance greater than \$500 via Track and Confirm. Therefore, the Rate Engine will remove the option of purchasing Return Receipt Electronic for items when insurance greater than \$500 is purchased. The Rate Engine will still allow customers to purchase Return Receipt (hardcopy) with insurance greater than \$500.

## 4079 - CR EDDM Prices are incorrect when weight is greater than 3.5 oz

#### Problem:

Standard mail and Nonprofit Standard Mail  
EDDM Letters (Standard Mail Saturation Letters)

Up to 3.5 oz receives automation saturation prices with only a per piece price, this includes listed prices of up to 3.3 oz and over 3.3 up to 3.5 oz. (Std M automation prices only go up to 3.5 oz)

Over 3.5 oz up to 16 oz receives Nonautomation saturation prices with a per piece price and a per lb price.

## 4048 - Incorrect Extra Services for some Mail Service and Combinations

#### Problem:

1. Standard Mail Automation Letters should not have "USPS Tracking Electronic"
2. Standard Mail Automation Flats should not have "USPS Tracking Electronic"
3. Return Receipt should be returned when "Signature Confirmation Restricted Delivery" is selected
4. hazmat should not return "Media Mail", "Library Mail" and "BPM"