

USPS Pricing Engine SDK

July 11, 2019

Summary

This is the International Pricing Engine SDK (version 11.7.4.0) for the July 26, 2019 Release. The following is a list of enhancements included in this release.

TT16965 Kahala interface and the Price Engine

The international price engine has migrated its Kahala Guaranteed Calculator services to use the new SDC Guaranteed Calculator Wrapper/SDC interface. This is a change to how the price engine formats requests to the SDC API. It is an internal change and should not impact your systems.

All methods in the Service Delivery Extensions library were updated to support the new request format. You should test the following methods:

- GetStatesOrProvinces
- GetCity
- GetPostalCodes
- GetExpressMailGuaranteed

Additionally, the GetExpressMailGuaranteed allows the caller to specify a Sunday mailing, pre-dating and post-dating. These changes will mean that when you use the new interface you should not receive the following errors:

- -10170 Shipping Date cannot be less than today's date.
- -10171 Shipping day cannot be a Sunday.

Any errors you do receive related to this functionality will be from Kahala.

DLL versions to remain 11.7.0.0

All the libraries will remain 11.7.0.0.

Impact on Existing Applications

You will have to rebuild your applications.

You will need to add two new application settings to your configuration files:

```
<appSettings>
  <add key="ServiceDeliveryCalculator.Available.International" value="true"/>
  <add key="ServiceDeliveryCalculator.Provider.International" value="GCW"/>
</appSettings>
```

The "ServiceDeliveryCalculator.Available.International" setting indicates if international guarantee services are available/desirable.

The “`ServiceDeliveryCalculator.Provider.International`” setting instructs the engine to use the new SDC Guarantee Calculator Wrapper request methods. “`KPG`” is another valid value. This instructs the engine to use the prior KPG request interface.

You will need to indicate the web service reference points in the “`system.ServiceModel`” as well. These include:

Endpoints

SIT Environment Endpoint

```
<system.ServiceModel>
  <bindings>
    <basicHttpBinding>
      <!-- Kahala GCWrapper version -->
      <binding name="GCWrapperSOAPInterfaceBinding" maxReceivedMessageSize="2147483647" maxBufferPoolSize="2147483647">
        <readerQuotas maxArrayLength="2147483647" maxStringLength="2147483647" />
      </binding>
    </basicHttpBinding>
  </bindings>
  <behaviors />
  <client>
    <!-- Kahala GCWrapper version -->
    <endpoint address="http://eagnmmbd281.usps.gov:9080/sdc-services/services/sdcInternationalPassthrough"
      binding="basicHttpBinding" bindingConfiguration="GCWrapperSOAPInterfaceBinding"
      contract="International.KPG.GCWrapper.GCWrapperSOAPInterface_SEI"
      name="GCWrapperSOAPInterface" />
  </client>
</system.ServiceModel>
```

NOTE: This is a non-SSL service reference.

CAT Environment Endpoint

```
<system.serviceModel>
  <bindings>
    <basicHttpBinding>
      <!-- Kahala GCWrapper version -->
      <binding name="GCWrapperSOAPInterfaceBinding" maxReceivedMessageSize="2147483647" maxBufferPoolSize="2147483647">
        <readerQuotas maxArrayLength="2147483647" maxStringContentLength="2147483647" />
        <security mode="Transport">
          <transport clientCredentialType="Certificate"/>
        </security>
      </binding>
    </basicHttpBinding>
  </bindings>
  <behaviors>
    <endpointBehaviors>
      <!-- Kalaha GCW version -->
      <behavior name="endpointCredentialBehaviorGCW">
        <clientCredentials>
          <clientCertificate
            storeLocation="LocalMachine"
            storeName="Root"
            x509FindType="FindByThumbprint"
            findValue="74f9f52cd3789f5c80c821d62534769fc8c70851" />
        </clientCredentials>
      </behavior>
    </endpointBehaviors>
  </behaviors>
  <client>
    <!-- Kahala GCWrapper version -->
    <endpoint address="https://sdcl-cat.usps.gov/sdc-services/services/sdcInternationalPassthrough"
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PROD Environment Endpoint

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        <security mode="Transport">
          <transport clientCredentialType="Certificate"/>
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      </binding>
    </basicHttpBinding>
  </bindings>
  <behaviors>
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      <!-- Kahala GCW version -->
      <behavior name="endpointCredentialBehaviorGCW">
        <clientCredentials>
          <clientCertificate
            storeLocation="LocalMachine"
            storeName="Root"
            x509FindType="FindByThumbprint"
            findValue="7a4e8399671601f90e3099f456f0f81155536b70" />
        </clientCredentials>
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    </endpointBehaviors>
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  </client>
</system.serviceModel>

```

Instructions

1. Copy the DLLs
2. Rebuild your application
3. Update your application configuration file.

Contents

Description	File
Folder	DLL
International Business Rate Engine	RateEngine_IntlBusiness.dll
Service Delivery Extensions	ServiceDeliveryExtensions.dll
Folder	Documentation
Release Notes	USPS Pricing Engine SDK 11_7_4_0.pdf

Reported Defects and Change Request

None at this time	
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Configuration text provided for convenience

SIT configuration text

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        </endpointBehaviors>
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