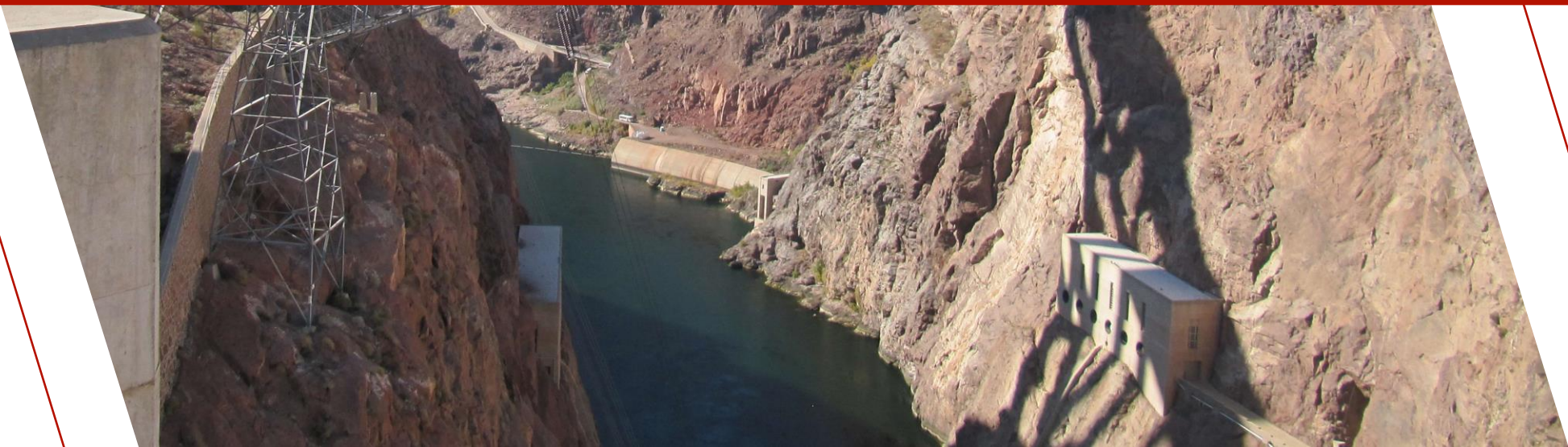PAYPAL AND SALESFORCE EXAMPLES

PAYPAL AND SALESFORCE EXAMPLES

- Example objects are included to provide help with developing your own interfaces to REST-based Web services

  - **PayPal® (*obj/example/paypal/api)**

  - **Salesforce® (*obj/example/salesforce/api)**

- The example code can be used as a reference, or it can be copied and tailored to your specific needs

- **Important Note:**

  - These examples are provided only to serve as a guide when developing your own REST interfaces and are not supported by PxPlus since the PayPal® and Salesforce® APIs may be subject to change without notice

PAYPAL AND SALESFORCE EXAMPLES

PayPal® Example Object

- Handles authentication with PayPal® and allows you to send and receive money using PayPal®

  - This object currently points to the PayPal® sandbox API for testing but can be easily modified to point to the live PayPal® API once testing is done

- Before you can interface with PayPal® from PxPlus, a Client ID and Client Secret must be obtained from PayPal®

  - To do this, first create a PayPal® developer account and then follow the instructions provided at this Web site: **https://developer.paypal.com/docs/api-basics/manage-apps/**

- The PayPal® object runs an EZWeb server on the port specified in the constructor

  - The EZWeb server is used for handling PayPal® order payment call-backs

  - If an order payment is completed, the HTML page ***obj**/**example**/**paypal**/**paycomplete.htm** will be loaded

  - If the order payment is cancelled, the HTML page ***obj**/**example**/**paypal**/**paycancel.htm** will be loaded

  - Currently, the callback HTML pages are simply text stating whether the payment was completed or cancelled

PAYPAL AND SALESFORCE EXAMPLES

PayPal® Example Object

- To instantiate the PayPal® object using the handle **paypal** (where **paypal** could be any numeric variable), enter the following command:

  paypal=NEW("*obj/example/paypal/api", clientID$, clientSecret$, ezPort)

- No need to login to a PayPal® account on object instantiation

Items Object

- PxPlus has also provided the Items object used by the **PayPal** object

- Purpose of the Items object is to create orders and invoices

  - Use this object to add all the items to the order/invoice and set the tax and shipping cost

  - It will automatically calculate the sub-total and total

- To instantiate the Items object using the handle **items** (where **items** could be any numeric variable), enter the following command:

  items=NEW("*obj/example/paypal/items")

PAYPAL AND SALESFORCE EXAMPLES

```
clientID$="xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
clientSecret$="xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
listenPort=8080
paypal=new("*obj/example/paypal/api",clientID$,clientSecret$,listenPort)
items=new("*obj/example/paypal/items")
items'TaxPercentage=13
items'ShippingCost=11
items'AddItem("CPU",459.49)
items'AddItem("Memory",112.99)
orderId$=paypal'NewOrder$(items)
input "Press any key to continue after paying the order",*;print ""
 if paypal'CaptureOrder(orderId$)=1 \
        then print "Captured payment" \
        else msgbox "Failed to capture payment","Error"
drop object items
drop object paypal
```

PAYPAL AND SALESFORCE EXAMPLES

Pay with PayPal

Enter your email address to get started.

Email or mobile number

Forgot email?

Next

or

Pay with a credit or Visa Debit card

Cancel and return to John Doe's Test Store

English | Français

JD $657.90 CAD

Ship to John Doe   Change

1 Maire-Victorin, Toronto ON M5A 1E1

Pay with

○ PayPal balance $657.90
                           CAD

☐ Make this my preferred way to pay

○ RBC Royal Bank
  Checking ••••3982

○ Visa
  ••••5203

+ **Add debit or credit card**

Complete Purchase

Cancel and return to John Doe's Test Store

Purchase Complete

The purchase has been completed. Please return to the application.

It is safe to close this tab/browser window.

PAYPAL AND SALESFORCE EXAMPLES

Salesforce® Example Object

- Handles authentication with Salesforce® and allows you to work with Salesforce® Accounts and Opportunities, as well as perform a Salesforce® query

- Before you can interface with Salesforce® from PxPlus, a Client ID and Client Secret must be obtained from Salesforce®

  - To do this, first create a Salesforce® developer account, and then follow the instructions provided at both of these Web sites:

    https://help.salesforce.com/articleView?id=connected_app_create_basics.htm&type=5

    https://help.salesforce.com/articleView?id=connected_app_create_api_integration.htm&type=5

Salesforce® Example Object

- To instantiate the Salesforce® object using the handle **salesforce** (where **salesforce** could be any numeric variable), enter the following command:

    Salesforce=NEW("*obj/example/salesforce/api", clientId\$, clientSecret\$[, refreshToken\$])

- During object instantiation, the user is asked to select and login to a Salesforce® account via the default Web browser

    - When this process is completed, the **Login()** method must be run to complete the login to Salesforce®

- The Refresh token can optionally be used to avoid having to select a Salesforce® account and login more than once

    - Once logged in to Salesforce®, the **RefreshToken\$** property can be accessed

    - The next time the Salesforce® object is instantiated, just include the saved Refresh token, and it will be logged into the same Salesforce® account automatically

- The login lasts for 15 minutes by default. After that, you need to call **Login()** again; otherwise, the methods will fail

Account Object

- Used to create, read and update Salesforce® account

- Only includes a subset of the account fields and can be modified by adding or removing fields as needed for your own application (Required field: Name$)

- To instantiate the Account object using the handle **account** (where **account** could be any numeric variable), enter the following command:

    account=NEW("*obj/example/salesforce/account")

Opportunity Object

- Used to create, read and update Salesforce® opportunities

- Only includes a subset of the opportunity fields and can be modified by adding or removing fields as needed for your own application (Required fields: CloseDate$, Name$, StageName$)

- To instantiate the Opportunity object using the handle **opportunity** (where **opportunity** could be any numeric variable), enter the following command:

  opportunity=NEW("*obj/example/salesforce/opportunity")

PAYPAL AND SALESFORCE EXAMPLES

```
clientID$="xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
clientSecret$="xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"
salesforce=new("*obj/example/salesforce/api",clientID$,clientSecret$)
input "Press any key to continue after logging into Salesforce account and allowing PxPlus access:",*;print ""
salesforce'Login()
newOpportunity=new("*obj/example/salesforce/opportunity")
newOpportunity'Name$="Example Corp Server Upgrades"
newOpportunity'AccountId$="0014x00000CMnEIAAL"
newOpportunity'Description$="They need to buy 50 new servers to upgrade old ones."
newOpportunity'Amount=30000
newOpportunity'CloseDate$="2024-12-30"
newOpportunity'StageName$="Prospecting"
newOpportunityId$=salesforce'NewOpportunity$(newOpportunity)
drop object newOpportunity
drop object salesforce
```