



PICTUREPAY® INTEGRATION USING SSO

Allied Payment Network

VERSION 2.2

ABSTRACT

The purpose of this document is to provide a high level overview of FlexPay/PicturePay® integration using our SSO API interface to login to our bill pay application.

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PURPOSE

The purpose of this document is to provide a high level overview of FlexPay/PicturePay® integration using our SSO API interface to login to our bill pay application.

SCOPE

This guidance is limited in scope and does not necessarily provide all information necessary to complete an implementation.

FLEXPAY/PICTUREPAY® INTEGRATION USING SSO

API DESIGN

The API is designed in a RESTful style. It uses HTTP verbs GET, PUT, and POST to retrieve resources at a URL. The resources can be serialized in either JSON or XML.

AUTHENTICATION

The API is authenticated through the AUTHORIZATION header. Each call is authenticated independently.

The Authentication line, in general, looks like this:

Authorization: TIMESTAMP domain=ALLIED;timestamp=Tue, 16 Sep 2014 13:59:25 GMT;signature=JT3JfEO43LptmKUN2IPUiFkpZrs=;publicKey=12345

The signature is a BASE64 encoding of a HMACSHA1 hash. The private key is issued to the vendor. The payload for the hash, in this case, is url + "/r/n" + timestamp + "/r/n"

You may use other authentication payloads which include the entire http body.

There is no need for Allied to maintain a credential store on behalf of the users.

SECURITY

All calls are made over HTTPS/SSL.

Calls are secured using a public / private key pair.

You may choose to sign the entire payload, or just the URL and timestamp.

API key pairs may be issued by vendor or by financial institution.

REQUIRED API CALL

The following API call is required to perform an integration where the User information is passed to our billpay application.

- SSO

SSO

This API function allows the developer to pass the required information (user id, accounts, name and address, etc.) to the Allied bill pay application.

API SSO CALL/RESPONSE SYNTAX

SSO CALL SYNTAX

POST /SSO

Header Example:

Connection: close

Content-Length: 824

Content-Type: application/json

Accept: */*

Authorization: Authorization: TIMESTAMP domain=Allied;timestamp=Wed, 07 Oct 2015 08:18:56

GMT;signature=N2ExODU3ZTczZDM2ZGE1MWZhYjNiNmI0ZmZiNGMzODg1NWVIMDBmYw==;publicKey=gaqr1
17GhQkMxmRldurU

Host: api.alliedpayment.com

X-Forwarded-For: 192.168.1.2, 192.168.1.4

X-Forwarded-Port: 443

X-Forwarded-Proto: https, https

Body:

Allied.Domain.DTOs.SSOToken {

CustomerId (string, optional): String,

FinancialInstitutionId (string, required): String,

**The following fields marked with asterisks are required unless the information is provided
in the Account Section**

FirstName* (string, optional): String,

MiddleName (string, optional): String,

LastName* (string, optional): String,

OR

PrimaryCompanyName* (string, optional): String,

Address1* (string, optional): String,

Address2 (string, optional): String,

City* (string, optional): String,

State* (string, optional): String,

```
    Zip* (string, optional): String,
    OverrideName (string, optional): String,
    Email (string, optional): String,
    Timeout (integer, optional): Int32,
    CompanyNames (array, optional): IEnumerable[System.String],
    PhoneNumbers (array, optional)
    Allied.Domain.DTOs.SSOToken+PhoneNumber {
        :IEnumerable[Allied.Domain.DTOs.PhoneNumber,
        Number (string, optional): String,
        Name (string, optional): String,
        IsTextCapable (boolean, optional): Boolean
    }
    DailyLimit (number, optional): Decimal,
    LogoutUri (string, optional): String,
    UserName (string, required): String,
    ForeignKey (string, optional): String
```

The following fields marked with asterisks are required unless the information is provided above (Optional Address Format. The customer name MUST be in first line.

```
    NameAddress1* (string, optional): String,
    NameAddress2* (string, optional): String,
    NameAddress3* (string, optional): String,
    NameAddress4 (string, optional): String,
    NameAddress5 (string, optional): String,
}
Accounts (array, required (minimum of 1 account))
Allied.Domain.DTOs.SSOToken+AccountInformation {
    :IEnumerable[Allied.Domain.DTOs.AccountInformation,
    AccountCIF (string, optional): String,
    AccountNumber (string, required): String,
    AccountName (string, optional): String,
    AvailableAccountBalance (number, optional (required if balance checking
enabled)): Double,
    CollectedAccountBalance (number, optional): Double,
    RoutingNumber (string, required): String,
    AccountOwnerType (string, optional): String,
    AccountType (string, required): String,
```

MICRAccountNumber (string, optional):string

The following fields marked with asterisks are required if a customer address is not provided. The customer name MUST be in the first line.

NameAddress1* (string, optional): String,

NameAddress2* (string, optional): String,

NameAddress3* (string, optional): String,

NameAddress4 (string, optional): String,

NameAddress5 (string, optional): String,

OR

Address1* (string, optional): String,

Address2 (string, optional): String,

City* (string, optional): String,

State* (string, optional): String,

PostalCode* (string, optional): String,

PayFromName (string, optional): String

}

SSO CALL EXAMPLE

POST http://api.alliedpayment.com/sso

HEADER

Connection: close
Content-Length: 794
Content-Type: application/json
Authorization: TIMESTAMP domain=<fi_Name>;timestamp=Thu, 11 Feb 2016 18:43:01
GMT;signature=2yTM+Rvkl4BvO53t/zGJlyuenU=:publicKey=12345
Host: api.alliedpayment.com
User-Agent: Apache-HttpClient/4.2.5 (java 1.5)
X-Forwarded-For: 74.112.0.49, 172.16.0.198
X-Forwarded-Port: 443
X-Forwarded-Proto: https, https

BODY

```
{ "$id": 1, "$type": "Allied.Domain.DTOs.SSOToken",  
  Allied.Domain, "CustomerId": "12345", "FinancialInstitutionId": "(Fi-  
Name>", "FirstName": "DEBORAH", "LastName": "FRED", "Email": "emailaddress@gmail.com", "Timeout": "  
300", "Accounts": { "$type": "System.Collections.Generic.List`1 [[Allied.Domain.DTOs.SSOToken+Acco  
untInformation, Allied.Domain]],  
mscorlib", "$values": [ { "$id": 2, "$type": "Allied.Domain.DTOs.SSOToken+AccountInformation,  
Allied.Domain", "AccountCIF": "xxxxxxx", "AccountNumber": "123654789", "AccountName": "Share  
Draft  
Checking", "AvaliableBalance": 2571.12, "CollectedAvaliableBalance": 2571.12, "RoutingNumber": "0  
74000010", "MICRAccountNumber": "000012345678" } ] }, "PrimaryCompanyName": "", "Address1": "1565  
West RD", "City": "DECATUR", "State": "NV", "Zip": "12345-6789", "Username": "UserName" }
```

SSO CALL RESPONSE EXAMPLE

RESULT 200 (Successful) *Any other response is a failure. We may or may not provide details in the response body depending on the error.*

Server: Microsoft-IIS/8.0

Warning: Unsupported Authentication Scheme

Access-Control-Allow-Origin: *

Access-Control-Allow-Headers: Content-Type, Accept, Authorization

Access-Control-Allow-Methods: GET, POST, PUT, DELETE, OPTIONS

X-Customer-Id: bc114d27-1a0d-45aa-a90b-ddd20e0aec0e

X-User-Id: 38d12b04-6459-48ae-98d4-eb8d72b560e0

X-Performance: 0.1857 ms

Content-Length: 300

Cache-Control: private

X-AspNet-Version: 4.0.30319

Location: <https://api.demo.alliedpayment.com/fis/cuwallet/users/>

Content-Type: application/json

```
{
  "$id": "1",
  "Uri":
  "https://billpay.demo.alliedpayment.com/billpay/sso?IV=ex5S4s8WWqepaxFbgQdiiA,,&ssoToken
=Oaq9N3Q8Am015gr022Uc3v1eUkbHCBcON09TqHYaICKVly9OBeHtGJWfTqog4WQcqOzGhWVh
hKTUgLnY2pCJIT65TOjdhrgodidsasnXLDvAAyMZiwqeI_nglNvqGWK&signature=135880FFC2FEACA
2CA7261C9B0495299CB85EF22"
}
```