ALLIED PAYMENT API OVERVIEW

Version 1.0

Allied Payment Network

ABSTRACT

The purpose of this document is to provide an overview of the API calls available to developers when interfacing with Allied's payment system.

TABLE OF CONTENTS

PURPOSE 1

AUDIENCE 1

ALLIED PAYMENT API OVERVIEW 1

TERMINOLOGY 1

ENTITY LIST 1

CUSTOMERS 1
USERS 1
TEMPLATES 1
PAYMENTS 1
PHOTOS 2

AUTHENTICATION 2

HTTP METHOD 2
URI 2
X-DATE HEADER (IF EXISTS) 2
X-HTTP-METHOD-OVERRIDE HEADER (IF EXISTS) 2
HTTP BODY CONTENT (IF EXISTS) 2
ENCODE WITH UTF8 2
SIGN USING HMACSHA1 2
SET AUTHORIZATION HEADER WITH THE FOLLOWING VALUES 3

API CALLS 3

CUSTOMERS 3
GET /CUSTOMERINFO/FROMACCOUNT 3
GET /CUSTOMERS/{CUSTOMERID}/HISTORY 3
GET /CUSTOMERS 3
GET /CUSTOMERS/{CUSTOMERID} 3
GET /CUSTOMERS/{CUSTOMERID}/ADDRESS 3
GET /CUSTOMERS/{CUSTOMERID}/PAYMENTS 3
PUT /CUSTOMERS/{CUSTOMERID} 3
PUT /CUSTOMERS/{CUSTOMERID}/ADDRESS 3
POST /CUSTOMERS/CREATE 4
PATCH /CUSTOMERS/{CUSTOMERID} 4
USERS 4
GET /FIS/{FINAME}/USERS 4

GET /FIS/{FINAME}/USERS/{USERNAME} 4
TEMPLATES **4**
GET /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID} 4
GET /CUSTOMERS/{CUSTOMERID}/TEMPLATES 4
GET /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID}/SCHEDULE 4
GET /FIS/{FINAME}/DELIVERYINFO 4
PUT /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID} 4
PUT /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID}/SCHEDULE 4
POST /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID} 5
POST /CUSTOMERS/{CUSTOMERID}/TEMPLATES 5
DELETE /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID} 5
DELETE /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID}/SCHEDULE 5
PATCH /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID} 5
PAYMENTS **5**
GET /PAYMENTS 5
GET /PAYMENTS/{ID} 5
POST /CUSTOMERS/{CUSTOMERID}/SUBMITPAYMENT 5
POST /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID}/SUBMITPAYMENT 5
POST /FIS/{FINAME}/USERS/{USERNAME}/SUBMITPAYMENT 5
POST /PAYMENTS 5
POST /PAYMENTS/{ID} 6
POST /PAYMENTS/{PAYMENTID}/CANCEL 6
PATCH /PAYMENTS/{ID} 6
PHOTOS **6**
GET /PHOTOS/{PHOTOID} 6
GET /PHOTOS/{PHOTOID}/STATUS 6
GET /TICKETS 6
PUT /PHOTOS/{PHOTOID} 6
POST /PHOTOS 6
POST /PHOTOS/{PHOTOID} 6
GENERAL **6**
GET /AUDIT/ 6
GET /AUTH/CHALLENGE 7
GET /AUTH 7
GET /VERSION 7
POST /SSO 7
POST /AUTH 7

STANDARD API ERROR CODES **7**

400 **7**
401 **7**

403 **7**
404 **7**
405 **7**
503 **8**
5XX **8**

SAMPLE SSO REQUEST **8**

SAMPLE RESPONSE **9**

Revision History			
Date	**Version**	**Author**	**Description**
10/1/2014	1.0	Allied Payment	Initial Release

PURPOSE

The purpose of this document is to provide an overview of the API calls available to developers when interfacing with Allied's payment system

AUDIENCE

The audience for this document are architects and developers.

ALLIED PAYMENT API OVERVIEW

This document list the commonly used API call for partner to integrate with Allied's payment system. Detailed information is provided in an online, interactive solution which allows a developer to actually execute the calls and see the results immediately without have to write any code. It also ensures any change to an API are immediately available to the developer.

TERMINOLOGY

The following is a list of terminology used in the AP definitions.

FI	The Financial Institution that owns the Customer.
Payment	A processed or pending transaction that occurs between a customer and a payee.
Payment Template	A collection of information required to process a new payment, which is reused for similar future payments.
Payee	The business or person receiving payments through our system.
Electronic	Describes if a payment can be processed as an ACH.
Recurring	Describes if a payment should be processed on a regular schedule, such as "monthly" or "weekly".

ENTITY LIST

CUSTOMERS

A customer is someone who makes payments and/or stores images.

USERS

Users are the security access to a customer. There can be more than one user per customer.

TEMPLATES

Templates are the information needed to make a payment. They are related to the customer who created them.

PAYMENTS

Payments are the means to perform the payment defined in a template. Multiple payments can have the same template.

PHOTOS

Photos provide information to create a template and, optionally, a payment. They can also be information-only items stored for viewing by a customer.

AUTHENTICATION

Authentication to the Mobile API works as follows:

HTTP METHOD

The request will begin with a HTTP Method. The four most common being used by our service calls are GET, POST, DELETE, and PATCH. Although others do exist, most service calls will use only one of these four.

URI

The actual address where the service will communicate with any requests. The structure of the URI typically begins with 'https://'. The address, and other information required to successfully make these services calls, will be created automatically.

X-DATE HEADER (IF EXISTS)

The date and time of the request or response. Valid values should be in conventional HTTP format example - Date: Wed, 14 Apr 2012 12:30:01 EST

X-HTTP-METHOD-OVERRIDE HEADER (IF EXISTS)

This is necessary if your firewall does not allow DELETE. The alternative is a HTTP POST with a required set method.

HTTP BODY CONTENT (IF EXISTS)

This is used to carry the entity-body associated with the request or response. The message-body differs from the entity- body only when a transfer- coding has been applied.

ENCODE WITH UTF8

This encoding is a variable-width encoding which is backward compatible with ASCII. The encoding also helps avoid complications of endianness and byte order marks in UTF-16 and UTF-32.

SIGN USING HMACSHA1

The signature is unique, and used to authorize to Allied System only.

SET AUTHORIZATION HEADER WITH THE FOLLOWING VALUES

ALLIED <Base 64 encoded public key>:HMACSHA1:<Base 64 Encoded signature> - The request signatures must be Base64 encoded. Base64 encoding converts the signature in a simple ASCII string that can be attached to the request.

**The authentication is appended by /r/n*

API CALLS

CUSTOMERS

GET /CUSTOMERINFO/FROMACCOUNT

GET /CUSTOMERS/{CUSTOMERID}/HISTORY

GET /CUSTOMERS

GET /CUSTOMERS/{CUSTOMERID}

GET /CUSTOMERS/{CUSTOMERID}/ADDRESS

GET /CUSTOMERS/{CUSTOMERID}/PAYMENTS

PUT /CUSTOMERS/{CUSTOMERID}

PUT /CUSTOMERS/{CUSTOMERID}/ADDRESS

POST /CUSTOMERS/CREATE

PATCH /CUSTOMERS/{CUSTOMERID}

USERS

GET /FIS/{FINAME}/USERS

GET /FIS/{FINAME}/USERS/{USERNAME}

TEMPLATES

GET /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID}

GET /CUSTOMERS/{CUSTOMERID}/TEMPLATES

GET /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID}/SCHEDULE

GET /FIS/{FINAME}/DELIVERYINFO

PUT /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID}

PUT /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID}/SCHEDULE

POST /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID}

POST /CUSTOMERS/{CUSTOMERID}/TEMPLATES

DELETE /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID}

DELETE /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID}/SCHEDULE

PATCH /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID}

PAYMENTS

GET /PAYMENTS

GET /PAYMENTS/{ID}

POST /CUSTOMERS/{CUSTOMERID}/SUBMITPAYMENT

POST /CUSTOMERS/{CUSTOMERID}/TEMPLATES/{TEMPLATEID}/SUBMITPAYMENT

POST /FIS/{FINAME}/USERS/{USERNAME}/SUBMITPAYMENT

POST /PAYMENTS

POST /PAYMENTS/{ID}

POST /PAYMENTS/{PAYMENTID}/CANCEL

PATCH /PAYMENTS/{ID}

PHOTOS

GET /PHOTOS/{PHOTOID}

GET /PHOTOS/{PHOTOID}/STATUS

GET /TICKETS

PUT /PHOTOS/{PHOTOID}

POST /PHOTOS

POST /PHOTOS/{PHOTOID}

GENERAL

GET /AUDIT/

GET /AUTH/CHALLENGE

GET /AUTH

GET /VERSION

POST /SSO

POST /AUTH

STANDARD API ERROR CODES

The following codes represent the common errors returned by the API Calls.

400

Bad input parameter. Error message should indicate which one and why.

401

Bad or expired token. This can happen if the user access token is expired, or if Allied revoked the token.

403

Bad Auth request (wrong api key, bad, none, expired timestamp…). Unfortunately, re-authenticating the user won't help here.

404

Resource not found at the specified path.

405

Request method not expected (generally should be GET or POST).

503

Your app is making too many requests and is being rate limited. 503s can trigger on a per-app or per-user basis.

5XX

Server error.

SAMPLE SSO REQUEST

POST http://brian/Allied.Services.REST/sso HTTP/1.1

X-Date: Wed, 14 Mar 2012 14:33:10 GMT

Authorization: ALLIED Tk9ucDB4MThURTVadG5kZTJLVXk=:HMACSHA1:bo/5OkC+m2JHDDXaRDhLzZ7eyNE=

Accept: application/json, application/xml, text/json, text/x-json, text/javascript, text/xml

User-Agent: RestSharp 102.4.0.0

Content-Type: application/json

Host: brian

Content-Length: 821

Accept-Encoding: gzip, deflate

Connection: Keep-Alive

```
{
  "UserName": "brian@alliedpayment.com",
  "Domain": "ALLIEDTEST",
  "HashPassword": "####################",
  "PublicAPIKey": "11111",
  "RememberThisMachine": “False”,
}
```

SAMPLE RESPONSE

HTTP/1.1 200 OK

Cache-Control: private,no-cache

Content-Length: 148

Content-Type: application/json

Server: Microsoft-IIS/7.5

X-AspNet-Version: 4.0.30319

X-Powered-By: ASP.NET

Date: Wed, 14 Mar 2012 14:33:38 GMT

{

"AuthenticationResult": "Authorized"

}