



Agenda

- Introductions
- Adobe ColdFusion Summit 2025
- Adding eCommerce to your ColdFusion app using the Authorize.net API
- Tag/Function O'Month
- Questions/Answers/Help Needed
- Next Meeting



Adobe ColdFusion Summit 2025

Location: Resorts World – Las Vegas

- Conference Dates: September 22nd and 23rd
- Certification Dates: September 21st and 24th
- More Info and Register: <u>https://cfsummit.adobeevents.com/</u>



Presenter: Leon O'Daniel

Current Roles:

- Senior Web Application Developer Boeing Commercial Airplanes Digital Engineering
- Vice President O'Daniel Designs

ColdFusion Experience

- Developing Web Applications using Adobe ColdFusion since 1997
- Started with Adobe ColdFusion 3.1



What I will cover:

- Setting up a developer sandbox account
- Obtaining an Authorize.NET API Login ID and Transaction Key
- Safeguarding your Authorize.NET API Login ID and Transaction Key
- Getting test credit card numbers
- Passing Shopping Cart Information to Authorize.net
- Processing the Authorize.net response
- Transitioning from Authorize.net AIM to Authorize.NET API
- Other payment processing considerations

Setting up an Authorize.NET developer sandbox account

- Go to <u>https://developer.authorize.net/hello_world/sandbox.html</u>
- Complete the form and submit
- Your account will be created

Obtaining an Authorize.NET API Login ID and Transaction Key

- Login to your Sandbox account at <u>https://logintest.authorize.net/</u>
- In the left side-bar, select Settings (under the Account heading)
- In the Security Settings section, select API Credentials & Keys
- Your Sandbox account's API Login ID will never change, but your Transaction Key will
- Create your Transaction Key in the Create New Keys section of this form
 - Click the New Transaction Key radio button
 - Click the Submit button
 - You will be presented with the option to *Disable Old Transaction Key Immediately*
 - Make sure to copy the new transaction key to somewhere safe it won't be presented again



Safeguarding your API Login ID and Transaction Key

Storing your API Login ID and Transaction Key in your source code is a BAD thing:

- It's a violation of PCI (payment card industry) compliance requirements
- The credentials can more easily be compromised
 - Source Control Compromised
 - Server Compromised



Safeguarding your API Login ID and Transaction Key

The solution:

- Use a secrets manager or -
- Store the credentials encrypted in the database

Safeguarding your API Login ID and Transaction Key

Store the credentials encrypted in the database

<cfscript>

VARIABLES.APILoginId = "Your API Login ID"; VARIABLES.TransactionKey = "Your Transaction Key"; VARIABLES.EncryptionKey = generateSecretKey('AES');

// Encrypt Using AES Cipher Block Chaining (CBC) mode
VARIABLES.encAPILoginId = Encrypt(VARIABLES.APILoginId, VARIABLES.EncryptionKey, 'AES/CBC/PKCS5Padding', 'HEX');
VARIABLES.encTransactionKey = Encrypt(VARIABLES.TransactionKey, VARIABLES.EncryptionKey, 'AES/CBC/PKCS5Padding', 'HEX');

// Decrypt Using AES Cipher Block Chaining (CBC) mode

VARIABLES.decAPILoginId = decrypt(VARIABLES.encAPILoginId, VARIABLES.EncryptionKey, 'AES/CBC/PKCS5Padding', 'HEX'); VARIABLES.decTransactionKey = decrypt(VARIABLES.encTransactionKey, VARIABLES.EncryptionKey, 'AES/CBC/PKCS5Padding', 'HEX'); </cfscript>



Safeguarding your API Login ID and Transaction Key

Store the credentials demo

- authnet/generateEncryptedCredentials.cfm
- authnet/getAuthNetCredentials.cfm
- AuthorizeNetService.cfc getCredentials method
- Stored Proc: [dbo].[getAuthNetCredentials]



Getting Test Credit Card Numbers

Yes! They do Exist.

Go to the Authorize.NET testing guide page at <u>https://developer.authorize.net/hello_world/testing_guide.html</u>

Compare/Contrast Authorize.NET AIM vs Authorize.NET API

- Endpoints are different:
 - Production
 - AIM: <u>https://secure2.authorize.net/gateway/transact.dll</u>
 - API: <u>https://api.authorize.net/xml/v1/request.api</u>
 - Sandbox
 - AIM: <u>https://test.authorize.net/gateway/transact.dll</u>
 - API: <u>https://apitest.authorize.net/xml/v1/request.api</u>

Data is sent to Authorize.NET differently

Compare/Contrast Authorize.NET AIM vs Authorize.NET API

- Data is sent to Authorize.NET differently
 - Authorize.NET AIM via HTTP POST as a series of form fields
 - Authorize.NET API via HTTP POST using XML or JSON
- The error text is included with the error code with Authorize.NET API
- Data is returned differently
 - Authorize.NET AIM: A string of data is returned in pipe-delimited format
 - Authorize.NET API: XML or JSON is returned



Code walkthrough and demo

Including Shopping Cart Items in the Authorize.NET API Request

Make sure to include this between the <Order> and <Tax> XML tags:

<lineltems> <lineltem> <itemId>1</itemId> <name>vase</name> <description>Cannes logo</description> <quantity>18</quantity> <unitPrice>45.00</unitPrice> </lineItem> </lineItems>



Resources:

Authorize.NET AIM Guide

(https://www.authorize.net/content/dam/anetredesign/documents/AIM_guide.pdf) This has the best description of the values for the Authorize.Net Response variables starting on page 50

Authorize.NET API Reference

(https://developer.authorize.net/api/reference/index.html)



Tag/Function O'Month

Presenter: Will Frankhouser – Adobe Certified Professional – ColdFusion



Tag/Function O'Month

Time to REview with some **REFind**, **REMatch** and **REReplace**!

- Adobe ColdFusion by default uses <u>Perl-regex engine</u>
 - Starting in CF2018 Update 5, useJavaAsRegexEngine flag added
- NoCase versions of the functions too
- **REFind**(reg_expression, string [, start, returnsubexpressions, scope
])
- **REMatch** (reg_expression, string)
- REReplace (string, regex, substring, [scope])
- ✦ Can use regex with <u>Character Classes</u> [[:space:]]



Questions/Answers/ Help Needed

This is your opportunity to ask any ColdFusion question or request help for a ColdFusion-related issue.



Next Meeting

June 11, 2025 – 5:00 PM PDT (on-line via Zoom).

How to use OAuth 2.0 to send mail using Microsoft 365

Michael Hayes – media3

- Basic OAuth 2.0 Overview
- How to send mail using Microsoft 365 and CFMail

ColdFusion Tag/Function O' Month