2011

Amazon.com

Author: Corey Butler

[COLDFUSION API FOR CBA]

Contains example code and basic documentation for using ColdFusion examples with Checkout by Amazon.

com.amazon.cart

Simple Cart

hierarchy:	[WEB-INF.cftags.component](#)
	        [com.amazon.factory](#)
	            com.amazon.cart

path:	<root>\com\amazon\cart.cfc
properties:	[accessKeyID](#), [currencyCode](#), [items](#), [merchantID](#), [secretKeyID](#)
methods:	[addCustomItem](#), [addItem](#), [addPromotion](#), [disableCallbacks](#), [enableCallbacks](#), [getCalculatePromotions](#), [getCalculateShippingRates](#), [getCalculateTaxRates](#), [getCallbacks](#), [getCallbackUrl](#), [getCurrencyCode](#), [getHtml](#), [getHtmlObject](#), [getHtmlSignature](#), [getItemAt](#), [getItems](#),[getProcessOrderOnCallbackFailure](#), [getXML](#), [getXmlSignature](#), [init](#), [removeItem](#), [setCalculatePromotions](#), [setCalculateShippingRates](#), [setCalculateTaxRates](#), [setCallbackUrl](#), [setCurrencyCode](#), [setProcessOrderOnCallbackFailure](#)
inherited methods:	[getAccessKeyID](#), [getMerchantID](#), [getSecretKeyID](#), [getSignatureMatch](#), [setAccessKeyID](#), [setMerchantID](#), [setSecretKeyID](#), [sign](#), [throwError](#), [verifyRequestIsFromAmazon](#)

* - private method

Property	Hint	Type	Req.	Implemented In	Default Value
accessKeyID	Your Checkout by Amazon Access Key ID	string		[factory](#)	-
currencyCode	The default currency code. Currently supports USD only.	string		cart	USD
items		array		cart	-
merchantID	Your Merchant ID	string		[factory](#)	-
secretKeyID	Your Checkout by Amazon Secret Access Key	string		[factory](#)	-

---

addCustomItem

public void **addCustomItem** (*required [item](#) item*)

Add an item object to the cart.

Output: suppressed
Parameters:
   item: [item](#), required, item - The item to add to the cart.

addItem

public void **addItem** (*required string* title, *required [(component name)](#)* price="0", *required numeric* quantity="0", *string* sku)

Add an item to the cart.

Output: suppressed
Parameters:
   title: string, required, title - The short description for your Item.
   price: [(component name)](#), required, price - The monetary cost of the item.
   quantity: numeric, required, quantity - The total number of this Item being purchased.
   sku: string, optional, sku - The SKU assigned to the Item.

addPromotion

```
public void addPromotion ( required string id, required string description, required
numeric amount, Boolean fixed="true", string currency="USD" )
```

Add a promotional discount applied to the entire cart. (ex: $5 off your order)

Output: enabled
Parameters:
  id: string, required, id - The ID used to uniquely identify the promotion. Ex: cart-promotion-1
  description: string, required, description - Text description of the promotion.
  amount: numeric, required, amount - The monetary value (discount) of the promotion.
  fixed: Boolean, optional, fixed - Indicates the discount is a fixed amount. Set to false to use a discount rate. If using a
discount rate, the amount should be between 0 and 1 (i.e. 25% off = .25)
  currency: string, optional, currency - The currency of the promotion. Currently only supports USD.

disableCallbacks

```
public void disableCallbacks ( )
```

Output: suppressed

enableCallbacks

```
public void enableCallbacks ( )
```

Output: suppressed

getCalculatePromotions

```
public Boolean getCalculatePromotions ( )
```

Output: suppressed

getCalculateShippingRates

```
public Boolean getCalculateShippingRates ( )
```

Output: suppressed

getCalculateTaxRates

```
public Boolean getCalculateTaxRates ( )
```

Output: suppressed

getCallbacks

```
public Boolean getCallbacks ( )
```

Output: suppressed

getCallbackUrl

```
public String getCallbackUrl ( )
```

Output: suppressed

getCurrencyCode

public string **getCurrencyCode** ( )

Output: suppressed

getHtml

public string **getHtml** (*boolean* signed="true")

A shortcut method to return the cart as HTML.

Output: enabled
Parameters:
   signed: boolean, optional, signed - Set this to false to create an UNsigned cart.

getHtmlObject

public struct **getHtmlObject** (*boolean* signed="true")

Returns a struct object containing the HTML and signature data necessary for processing the cart as HTML. Contains the following keys: header, form, signature, and html. The html key is the combination of the other three keys (shortcut).

Output: enabled
Parameters:
   signed: boolean, optional, signed - Set this to false to create an UNsigned cart.

getHtmlSignature

public **getHtmlSignature** ( )

A shortcut method to return the cart HTML signature.

Output: enabled

getItemAt

public [*item*](item) **getItemAt** (*required numeric* index)

Get the item at the specified cart index.

Output: enabled
Parameters:
   index: numeric, required, index - The index number of the item to be removed.

getItems

public array **getItems** ( )

Output: suppressed

getProcessOrderOnCallbackFailure

public Boolean **getProcessOrderOnCallbackFailure** ( )

Output: suppressed

getXML

public string **getXML** ( )

Get the cart as Raw XML

Output: enabled

getXmlSignature

public **getXmlSignature** ( )

A shortcut method for returning the XML signature.

Output: enabled

init

void **init** (*required string* accessKeyID, *required string* secretKeyID, *required string* merchantID, *boolean* sandbox="false")

Initialize an empty cart

Output: enabled
Parameters:
  accessKeyID: string, required, accessKeyID - Your Checkout by Amazon Access Key ID
  secretKeyID: string, required, secretKeyID - Your Checkout by Amazon Secret Access Key
  merchantID: string, required, merchantID - Your Merchant ID
  sandbox: boolean, optional, sandbox - True if using the sandbox environment.

removeItem

public void **removeItem** (*required numeric* index)

Remove an item from the cart

Output: suppressed
Parameters:
  index: numeric, required, index - The index number of the item to be removed.

setCalculatePromotions

public void **setCalculatePromotions** (*required Boolean* tf)

Output: suppressed
Parameters:
  tf: Boolean, required, tf

setCalculateShippingRates

public void **setCalculateShippingRates** (*required Boolean* tf)

Output: suppressed
Parameters:
  tf: Boolean, required, tf

setCalculateTaxRates

public void **setCalculateTaxRates** (*required Boolean* tf)

Output: suppressed
Parameters:

tf: Boolean, required, tf

setCallbackUrl

public void **setCallbackUrl** (*required String* url)

Output: suppressed
Parameters:
  url: String, required, url

setCurrencyCode

public void **setCurrencyCode** (*required string* currencyCode)

Output: suppressed
Parameters:
  currencyCode: string, required, currencyCode

setProcessOrderOnCallbackFailure

public void **setProcessOrderOnCallbackFailure** (*required Boolean* tf)

Output: suppressed
Parameters:
  tf: Boolean, required, tf

com.amazon.callback

Callback helper methods. This is a special instance of the cart object.

hierarchy:	WEB-INF.cftags.component
	    com.amazon.factory
	        com.amazon.callback

path:	<root>\com\amazon\callback.cfc
properties:	accessKeyID, merchantID, secretKeyID
methods:	addCustomTaxRate, addPromotion, addShippingMethod, applyPromotion, applyShippingMethod, applyTaxRate, disable*, generateResponse, getAllItemSkuNumbers, getXmlErrorResponse, getXmlResponse, init, isEnabled*, parseRequest, requestValid*, throwError*
inherited methods:	getAccessKeyID, getMerchantID, getSecretKeyID, getSignatureMatch, setAccessKeyID, setMerchantID, setSecretKeyID, sign, verifyRequestIsFromAmazon

* - private method

Property	Hint	Type	Req.	Implemented In	Default Value
accessKeyID	Your Checkout by Amazon Access Key ID	string		factory	-
merchantID	Your Merchant ID	string		factory	-
secretKeyID	Your Checkout by Amazon Secret Access Key	string		factory	-

addCustomTaxRate

public void **addCustomTaxRate** (*required string* id, *required numeric* rate, *Boolean* shippingtaxed="false", *string* region="USZip")

Add a custom tax table to the response. This is used to define custom tax rates for an order.

Output: suppressed
Parameters:
   id: string, required, id - The ID used to uniquely identify the tax table. Ex: tax-method-1
   rate: numeric, required, rate - The tax rate expressed as a percentage. This value should be greater than zero but less than 1 (i.e. 8% = .08)
   shippingtaxed: Boolean, optional, shippingtaxed - Tax is calculated on shipping. Defaults to false.
   region: string, optional, region - A predefined region where the tax is applied.

addPromotion

public void **addPromotion** (*required string* id, *required string* description, *required numeric* amount, *Boolean* fixed="true", *string* currency="USD")

Add a promotion to the response. This is used at an item level to apply promotions/discounts to specific items.

Output: suppressed
Parameters:
   id: string, required, id - The ID used to uniquely identify the promotion. Ex: promotion-1
   description: string, required, description - Text description of the promotion.
   amount: numeric, required, amount - The monetary value (discount) of the promotion.
   fixed: Boolean, optional, fixed - Indicates the discount is a fixed amount. Set to false to use a discount rate. If using a discount rate, the amount should be between 0 and 1 (i.e. 25% off = .25)
   currency: string, optional, currency - The currency of the promotion. Currently only supports USD.

addShippingMethod

```
public void addShippingMethod ( required string id, required
string servicelevel, required string ratetype, required numeric rate )
```

Add a shipping method. This example uses a limited set of options for demo purposes. To extend, please view the Callback API Guide.

Output: suppressed
Parameters:
  id: string, required, id - The unique ID of the shipping method.
  servicelevel: string, required, servicelevel - Valid values include Standard, Expedited, OneDay, or TwoDay.
  ratetype: string, required, ratetype - Valid values include WeightBased, ItemQuantityBased, and ShipmentBased
  rate: numeric, required, rate - The monetary rate charged per unit base for this shipping method.

applyPromotion

```
public void applyPromotion ( required string sku, required string promoId )
```

Apply a promotion specific item SKU

Output: suppressed
Parameters:
  sku: string, required, sku - SKU number of the item to be uniquely taxed.
  promoId: string, required, promoId - The ID of the custom tax rate applied to the item.

applyShippingMethod

```
public void applyShippingMethod ( required string sku, required string shipId )
```

Make a custom shipping method available during checkout.

Output: suppressed
Parameters:
  sku: string, required, sku - SKU number of the item to be uniquely taxed.
  shipId: string, required, shipId - The ID of the custom tax rate applied to the item.

applyTaxRate

```
public void applyTaxRate ( required string sku, required string taxTableId )
```

Apply a custom tax rate to a specific item (item identified via SKU)

Output: suppressed
Parameters:
  sku: string, required, sku - SKU number of the item to be uniquely taxed.
  taxTableId: string, required, taxTableId - The ID of the custom tax rate applied to the item.

disable*

```
private void disable ( required string element )
```

Output: suppressed
Parameters:
  element: string, required, element - TAX, PROMO, or SHIPPING

generateResponse

```
public string generateResponse ( )
```

Generate the properly encoded response.

Output: suppressed

getAllItemSkuNumbers

public array **getAllItemSkuNumbers** ( )

Gets a simple one dimensional array of SKU numbers.

Output: suppressed

getXmlErrorResponse

public *xml* **getXmlErrorResponse** (*string* code="INTERNAL_SERVER_ERROR", *string* message="Unkn own Error")

A helper method to respond to Amazon with an error message.

Output: suppressed
Parameters:
  code: string, optional, code
  message: string, optional, message

getXmlResponse

public *xml* **getXmlResponse** ( )

Generates the XML used in the callback response.

Output: suppressed

init

void **init** (*required string* accessKeyID, *required string* secretKeyID, *required string* merchantID, *boolean* sandbox="false")

Initialize an empty cart

Output: enabled
Parameters:
  accessKeyID: string, required, accessKeyID - Your Checkout by Amazon Access Key ID
  secretKeyID: string, required, secretKeyID - Your Checkout by Amazon Secret Access Key
  merchantID: string, required, merchantID - Your Merchant ID
  sandbox: boolean, optional, sandbox - True if using the sandbox environment.

isEnabled*

private Boolean **isEnabled** (*required string* element)

Output: suppressed
Parameters:
  element: string, required, element - TAX, PROMO, or SHIPPING

parseRequest

public void **parseRequest** (*string* orderCalculationRequest)

Parse the request into a managable object. This method creates an struct attribute called REQUEST. This object extracts several keys commonly used in processing a callback.

Output: suppressed
Parameters:
   orderCalculationRequest: string, optional, orderCalculationRequest - The text to parse. If none is provided, the method looks for an attribute called order-calculation-request in the FORM scope.

requestValid*

private void **requestValid** ( )

Output: enabled

throwError*

private **throwError** (*string* message="Unknown Error.", *string* detail="Unknown Error.")

A wrapper method for ColdFusion error output (supports some older versions of CF).

Output: enabled
Parameters:
   message: string, optional, message
   detail: string, optional, detail

com.amazon.factory

Common Amazon Payment Methods

hierarchy:	WEB-INF.cftags.component com.amazon.factory
path:	<root>\com\amazon\factory.cfc
properties:	accessKeyID, merchantID, secretKeyID
methods:	getAccessKeyID, getCallbackXsd*, getMerchantID, getOrderXsd*, getSecretKeyID, getSignatureMatch, init, setAccessKeyID, setCallbackXsd*, setMerchantID, setOrderXsd*, setSecretKeyID, sign, throwError, verifyRequestIsFromAmazon

* - private method

Property	Hint	Type	Req.	Implemented In	Default Value
accessKeyID	Your Checkout by Amazon Access Key ID	string		factory	-
merchantID	Your Merchant ID	string		factory	-
secretKeyID	Your Checkout by Amazon Secret Access Key	string		factory	-

getAccessKeyID

public string **getAccessKeyID ( )**

Output: suppressed

getCallbackXsd*

private string **getCallbackXsd ( )**

Get the Order.xsd URL. This is commonly used for XMLNS.

Output: suppressed

getMerchantID

public string **getMerchantID ( )**

Output: suppressed

getOrderXsd*

private string **getOrderXsd ( )**

Get the Order.xsd URL. This is commonly used for XMLNS.

Output: suppressed

getSecretKeyID

public string **getSecretKeyID ( )**

Output: suppressed

getSignatureMatch

public struct **getSignatureMatch** (*required string* uuid, *required string* timestamp, *required string* signature)

A helper method to display the received and generated signatures.

Output: suppressed
Parameters:
  uuid: string, required, uuid - The UUID value from the IPN notice.
  timestamp: string, required, timestamp - The Timestamp value from the IPN notice.
  signature: string, required, signature - The Signature value from the IPN notice.

init

init (*required string* accessKeyID, *required string* secretKeyID, *required string* merchantID, *boolean* sandbox="false")

Shortcut method for initializing Amazon Payments.

Output: enabled
Parameters:
  accessKeyID: string, required, accessKeyID - Your Checkout by Amazon Access Key ID
  secretKeyID: string, required, secretKeyID - Your Checkout by Amazon Secret Access Key
  merchantID: string, required, merchantID - Your Merchant ID
  sandbox: boolean, optional, sandbox - True if using the sandbox environment.

setAccessKeyID

public void **setAccessKeyID** (*required string* accessKeyID)

Output: suppressed
Parameters:
  accessKeyID: string, required, accessKeyID

setCallbackXsd*

private string **setCallbackXsd** (*required string* xsd)

Get the Order.xsd URL. This is commonly used for XMLNS.

Output: suppressed
Parameters:
  xsd: string, required, xsd

setMerchantID

public void **setMerchantID** (*required string* merchantID)

Output: suppressed
Parameters:
  merchantID: string, required, merchantID

setOrderXsd*

private string **setOrderXsd** (*required string* xsd)

Get the Order.xsd URL. This is commonly used for XMLNS.

Output: suppressed
Parameters:

xsd: string, required, xsd

setSecretKeyID

public void **setSecretKeyID** (*required string* secretKeyID)

Output: suppressed
Parameters:
  secretKeyID: string, required, secretKeyID

sign

public String **sign** (*required String* data, *required String* key)

Sign an object. This is most commonly used to sign the cart.

Output: suppressed
Parameters:
  data: String, required, data - The data to sign.
  key: String, required, key - The key used to sign data.

throwError

package **throwError** (*string* message="Unknown Error.", *string* detail="Unknown Error.")

A wrapper method for ColdFusion error output (supports some older versions of CF).

Output: enabled
Parameters:
  message: string, optional, message
  detail: string, optional, detail

verifyRequestIsFromAmazon

public Boolean **verifyRequestIsFromAmazon** (*string* uuid, *string* timestamp, *string* signatur
e)

Returns true if the request can be verified as coming from Amazon.

Output: suppressed
Parameters:
  uuid: string, optional, uuid - The UUID value from the IPN notice.
  timestamp: string, optional, timestamp - The Timestamp value from the IPN notice.
  signature: string, optional, signature - The Signature value from the IPN notice.

com.amazon.item

Represents an item.

hierarchy:	WEB-INF.cftags.component
	    com.amazon.factory
	       com.amazon.item

path:	\<root>\com\amazon\item.cfc
properties:	accessKeyID, condition, currencycode, description, images, merchantID, price, promotions, quantity, secretKeyID, shippingmethod, sku, title, weight, weightUnit
methods:	calculateAmount*, getCondition, getCurrencyCode, getDescription, getPrice, getPromotions, getQuantity, getShippingmethod, getSku, getTitle, getWeight, getWeightUnit, init, setCondition, setCurrencyCode, setDescription, setPrice, setPromotions, setQuantity, setShippingmethod, setSku, setTitle, setWeight, setWeightUnit
inherited methods:	getAccessKeyID, getMerchantID, getSecretKeyID, getSignatureMatch, setAccessKeyID, setMerchantID, setSecretKeyID, sign, throwError, verifyRequestIsFromAmazon

* - private method

Property	Hint	Type	Req.	Implemented In	Default Value
accessKeyID	Your Checkout by Amazon Access Key ID	string		factory	-
condition	The state of the item. Options include Any, Club, Collectible, New, Refurbished, Used	string		item	-
currencycode	The currency of the price. Currently supports USD only.	string		item	USD
description	A description of the item.	string		item	-
images	An array of images associated with the item.	array		item	-
merchantID	Your Merchant ID	string		factory	-
price	The monetary cost of the item.	numeric		item	-
promotions	Promotions assigned to the item.	array		item	-
quantity	The quantity of this item to be purchased.	numeric		item	1
secretKeyID	Your Checkout by Amazon Secret Access Key	string		factory	-
shippingmethod	Shipping methods.	array		item	-
sku	A SKU number assigned to the item.	string		item	-
title	The short description for your Item.	string		item	-
weight	If defined, value must be between .01-99999.99	numeric		item	-
weightUnit	The unit weight type.	string		item	lb

calculateAmount*

private void **calculateAmount** ( )

Output: suppressed

getCondition

public string **getCondition** ( )

Output: suppressed

getCurrencyCode

public string **getCurrencyCode** ( )

Output: suppressed

getDescription

public string **getDescription** ( )

Output: suppressed

getPrice

public numeric **getPrice** ( )

Output: suppressed

getPromotions

public array **getPromotions** ( )

Output: suppressed

getQuantity

public numeric **getQuantity** ( )

Output: suppressed

getShippingmethod

public array **getShippingmethod** ( )

Output: suppressed

getSku

public string **getSku** ( )

Output: suppressed

getTitle

public string **getTitle** ( )

Output: suppressed

getWeight

public string **getWeight** ( )

Output: suppressed

getWeightUnit

public string **getWeightUnit** ( )

Output: suppressed

init

public void **init** (*required string* title, *required numeric* price="0", *numeric* quantity="1")

Initialize the item.

Output: suppressed
Parameters:
  title: string, required, title - The short description for your Item.
  price: numeric, required, price - The monetary cost of the item.
  quantity: numeric, optional, quantity - The total number of this Item being purchased.

setCondition

public void **setCondition** (*required string* condition)

Output: suppressed
Parameters:
  condition: string, required, condition

setCurrencyCode

public void **setCurrencyCode** (*required string* currencyCode)

Output: suppressed
Parameters:
  currencyCode: string, required, currencyCode

setDescription

public void **setDescription** (*required string* description)

Output: suppressed
Parameters:
  description: string, required, description

setPrice

public void **setPrice** (*required numeric* price)

Output: suppressed
Parameters:
  price: numeric, required, price

setPromotions

public void **setPromotions** (*required array* promotions)

Output: suppressed
Parameters:

promotions: array, required, promotions

setQuantity

public void **setQuantity** (*required numeric* quantity)

Output: suppressed
Parameters:
  quantity: numeric, required, quantity

setShippingmethod

public void **setShippingmethod** (*required array* shippingmethod)

Output: suppressed
Parameters:
  shippingmethod: array, required, shippingmethod

setSku

public void **setSku** (*required string* sku)

Output: suppressed
Parameters:
  sku: string, required, sku

setTitle

public void **setTitle** (*required string* title)

Output: suppressed
Parameters:
  title: string, required, title

setWeight

public void **setWeight** (*required numeric* weight, *string* weightUnit="lb")

Output: suppressed
Parameters:
  weight: numeric, required, weight
  weightUnit: string, optional, weightUnit

setWeightUnit

public void **setWeightUnit** (*required string* weightUnit)

Output: suppressed
Parameters:
  weightUnit: string, required, weightUnit