

CCAuthorize

FileMaker Plug-In For Windows and Macintosh



USER'S GUIDE

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Preface: Getting Help

Welcome to CCAuthorize from Acme Technologies. CCAuthorize is a FileMaker Pro plug-in designed to help you process credit cards and ACH transactions in realtime through various processing gateways.

CCAuthorize utilizes an advanced Java plug-in architecture for FileMaker Pro called JavaCompanion. JavaCompanion allows plug-ins to be written for FileMaker which benefit from the strengths of the Java programming language. JavaCompanion based plug-ins run on any platform that FileMaker supports (currently Windows, Macintosh and MacOS X) through a single plug-in.

FileMaker Pro plug-in developers interested in learning more about the benefits of write-once, run-everywhere Java plug-in development for FileMaker Pro should contact Acme Technologies support for licensing information. Plug-ins based on the JavaCompanion architecture can be rapidly developed, are amazingly fast and inherit the abilities of Java itself (such as multi-threading).

If you are new to FileMaker Pro, it is advised that you learn the basics of FileMaker Pro. This document is geared towards FileMaker developers that are familiar with utilizing FileMaker plug-ins.

CCAuthorize Discussion List

There is an email discussion list specifically for CCAuthorize and JavaCompanion. This is the single best resource for anything related to CCAuthorize.

You can subscribe, unsubscribe and search the archives at the following URL:

<http://www.digitalpoint.com.com/lists/javacompanion.html>

Using CCAuthorize Documentation

This user manual provides documentation for programming with CCAuthorize functions, as well as information about the many different US and International payment processing gateways CCAuthorize supports. The manual is best used for reference and background information, while the FileMaker database “CCAuthorize.fp5” helps you get started using CCAuthorize immediately. The database allows one to try out test transactions with most of the payment services even without having an account with the service. Once you get a taste of sending some test transactions, click on the “How's it work?” button to see the FileMaker Pro functions you use to add CCAuthorize payment processing to your FileMaker Pro applications. Our unique code-generation system takes almost all the work out of deploying the plug-in in your Web shopping cart or Point of Sale (POS) applications.

Start by reading *Chapter 1: CCAuthorize Software License*, for information regarding your rights as a licensee of the software.

Chapter 1: CCAuthorize Software License

CCAuthorize is licensed on a per workstation basis. What this means is the license fees are based on the number of employee workstations that you wish to utilize CCAuthorize from. Multi-workstation and developer licenses are also available, please contact Acme Technologies for details.

The CCAuthorize software license is non-transferable.

Payment of your license fee grants you the following:

- Right to use CCAuthorize on the licensed workstations
- Technical support via email
- All minor revisions of CCAuthorize at no additional charge
- Use of CCAuthorize for a single company

Your license does NOT grant you following:

- The ability to view or modify the source-code

For an additional fees you can purchase additional products or services, such as priority tech support.

What Is A Software License?

The CCAuthorize software license is a license to use the plug-in on a set number of computers. You are paying for the right to use the software on those workstations.

Your Software License

The licensing is the sole responsibility of the user to keep up to date. Acme Technologies is not responsible for any loss of business due to re-licensing the software. You must allow Acme Technologies five (5) working days to ship a new key code to extend your license.

The licensing fee is subject to change annually. Once payment has been received for a license extension, Acme Technologies will ship you a new key code via email, which will allow your workstation license to be extended.

Entering Activation Key

Your activation key will allow CCAuthorize to be used on the workstations that it was licensed for. You can enter the activation key under the Activate Licence



Prefs

section under the Prefs button within the demo database or you can activate it within your own database (the syntax to do so is addressed in a later chapter).



Software License Agreement

By opening this package and using this software, you are bound by the terms and agreements of the software license agreement that is included with this software. If for any reason you are not satisfied, you may return the product, with a disk package that **is factory sealed**, to the original vendor that you purchased the software from. (Subject to the return policy of the vendor. Please confirm their return policy with them.)

Chapter 2: Processing Gateways

CCAuthorize allows FileMaker to communicate directly to various payment gateways. You still need an account for the specified gateway and a merchant account that works with the gateway.

Info on each processing gateway can be found below.

VeriSign Payflow Pro

The fastest most stable gateway available. No per transaction fees.

Gateway Code	VERISIGN
URL	http://www.verisign.com/products/payflow/pro/index.html
Transaction Types	AUTH_CAPTURE, AUTH_ONLY, PRIOR_AUTH_CAPTURE, VOID, CREDIT, CAPTURE_ONLY (all types supported)
Currencies	USD (others if annual sales over \$1M)
Supports ACH	Yes
Special Setup	None
Obtaining Account	Through resellers (Digital Point Solutions for example) http://www.digitalpoint.com/products/verisign.php
Notes	Supports CVV2 (card verification value)

Authorize.Net

Authorize.Net is one of the most popular gateways available. It's reliable and relatively fast. Low monthly fee, but has per transaction fees.

Gateway Code	AUTHNET
URL	http://www.authorize.net
Transaction Types	AUTH_CAPTURE, AUTH_ONLY, PRIOR_AUTH_CAPTURE, VOID, CREDIT, CAPTURE_ONLY (all types supported)
Currencies	USD
Supports ACH	Yes
Special Setup	None
Obtaining Account	Through resellers (Waves in Motion for example)

Cardservice LinkPoint

Requires use of a Cardservice International merchant account, and CSI tends to have somewhat higher fees for their various services.

Gateway Code	LINKPOINT
URL	http://www.linkpoint.com
Transaction Types	AUTH_CAPTURE, AUTH_ONLY, PRIOR_AUTH_CAPTURE, VOID, CREDIT
Currencies	USD
Supports ACH	No
Special Setup	Requires .pem file from Cardservice which should be named [storenumber].pem and placed in the FileMaker Java Extensions folder.

Obtaining Account	Through Cardservice International
Notes	Login should be set to the assigned store number

SurePay

SurePay allows processing of both credit card and ACH transactions.

Gateway Code	SUREPAY
URL	http://www.surepay.com
Transaction Types	AUTH_CAPTURE
Currencies	USD
Supports ACH	Yes
Obtaining Account	Through Cardservice International

Select Check

Select Check is a system that is exclusively for processing ACH transactions. Credit card transactions are not supported with this processor.

Gateway Code	SELECTCHECK
URL	http://www.selectcheck.com
Transaction Types	AUTH_CAPTURE
Currencies	USD
Supports ACH	Yes
Obtaining Account	http://www.selectcheck.com

Planet Payment

Planet Payment is a private label version of Authorize.Net. This gateway supports many different currency types.

Gateway Code	PLANETPAYMENT
URL	http://www.planetpayment.com
Transaction Types	AUTH_CAPTURE, AUTH_ONLY, PRIOR_AUTH_CAPTURE, VOID, CREDIT, CAPTURE_ONLY (all types supported)
Currencies	140 different currencies
Supports ACH	No
Special Setup	Requires .pem file from Cardservice which should be named as [storenumber].pem and placed in the FileMaker Java Extensions folder.
Obtaining Account	http://www.planetpayment.com

DataCash

This processing gateway deals primarily with International currencies.

Gateway Code	DATAFLASH
URL	http://www.datacash.com
Transaction Types	AUTH_CAPTURE, PRIOR_AUTH_CAPTURE, AUTH_ONLY, CREDIT
Currencies	135 different currencies
Supports ACH	No
Special Setup	Requires .pem file from Cardservice which should be named as [storenumber].pem and placed in the FileMaker Java Extensions folder.

Obtaining Account	http://www.datacash.com
Notes	<p>DataCash makes outgoing connections on port 9070; if you have that port blocked by a firewall, you'll need to open it up for outgoing connections.</p> <p>The DataCash MerchantRef must be between 6 and 12 digits (all numbers), and it is handled internally as an integer so leading zeros are lost.</p> <p>Internally the invoice number is being stripped of non-numeric characters, and if what's left is less than 6 digits, it is padded with zeros on the right side.</p>

PSiGate

The PSiGate payment gateway is a Canadian based processing gateway which offers merchant accounts as well as the gateway itself.

Gateway Code	PSIGATE
URL	http://www.psigate.com
Transaction Types	AUTH_CAPTURE, AUTH_ONLY, PRIOR_AUTH_CAPTURE, VOID, CREDIT
Currencies	USD, CAD
Supports ACH	No
Special Setup	Requires .pem file from PSiGate which should be named as [storenumber].pem and placed in the FileMaker Java Extensions folder.
Obtaining Account	http://www.psigate.com
Notes	Login should be set to the assigned store number

Royal Bank e-SELECT

e-SELECT is also a Canadian based processing gateway which offers merchant accounts as well as the gateway itself.

Gateway Code	E-SELECT
URL	http://www.royalbank.com
Transaction Types	AUTH_CAPTURE, AUTH_ONLY, PRIOR_AUTH_CAPTURE, VOID, CREDIT, CAPTURE_ONLY (all types supported)
Currencies	USD, CAD
Supports ACH	No
Special Setup	The paradata account token must be generated from the gateway provider's online "token dispenser".
Obtaining Account	http://www.royalbank.com
Notes	None

DirectOne

DirectOne is an Australian based gateway that processes transactions exclusively in Australian dollars.

Gateway Code	DIRECTONE
URL	http://www.directone.com.au
Transaction Types	AUTH_CAPTURE
Currencies	AUD
Supports ACH	No
Special Setup	The IP address of workstations needing to process credit cards must first be reported to DirectOne.
Obtaining Account	http://www.directone.com.au

eProcessingNetwork

eProcessingNetwork is a relatively fast merchant gateway. It does not currently support ACH transactions.

Gateway Code	EPROCESSING
URL	http://www.eprocessingnetwork.com
Transaction Types	AUTH_CAPTURE
Currencies	USD
Supports ACH	No
Special Setup	None
Obtaining Account	http://www.eprocessingnetwork.com

Bank of America eStores

eStores Application Programming Interface (API) for processing credit cards is still somewhat immature, so we recommend looking at other payment gateways if you are not already a Bank of America customer

Gateway Code	BOFA
URL	http://www.bofa.com/merchantservices/index.cfm
Transaction Types	AUTH_CAPTURE
Currencies	USD
Supports ACH	No
Special Setup	Must inform Bank of America you are need a “standard setup”
Obtaining Account	http://www.bofa.com

GoChargeIt

The GoChargeIt gateway does not currently offer an integration Application Programming Interface (API), and the support for it in CCAuthorize is somewhat fragile. It is recommended to use a different payment gateway if you are not already a GoChargeIt customer.

Gateway Code	GOCHARGEIT
URL	http://www.ecommercehelpdesk.com
Transaction Types	AUTH_CAPTURE
Currencies	USD
Supports ACH	No
Special Setup	Requires incoming TCP port 61355 to be unblocked since it must listen on this port for the response. If you would like to change this port, you can do so by setting a property in CCAuthorize.properties "plugin.CCAuth.gochargeit.listenport = XXXX".
Obtaining Account	http://www.ecommercehelpdesk.com

Chapter 3: Preferences

Gateway Preferences

The CCAuthorize.fp5 sample database has a place for you to set various preferences. These preferences are specific to the processor you are using.

Prefs

The screenshot shows a web browser window titled "CCAuthorize.fp5". Inside, there is a "Back" button and a message: "Please refer to the Chapter 3: Preferences section of the user's guide for sample test accounts." Below this is a "Preferences" section with a "Gateway Code: VERISIGN" label. The form includes fields for "Processing Network" (set to "VeriSign Payflow Pro"), "Login" (set to "yourlogin"), "Password" (set to "yourpassword"), "Partner ID" (set to "VeriSign"), "Referral URL", "Encryption Key", "Merchant ID", "Location ID", "Account Token", and "Timeout" (set to "30 secs"). Below the preferences is an "Activate License" section with an "Activation Key" field and an error message: "ERR: Missing or invalid activation key". The browser's status bar at the bottom shows "100" and a "Browse" button.

Special Note: Items that are required for your selected processor will show up with a

bold label.

The items you put into the preferences will be given to you directly by the gateway processor.

Test Accounts

Most payment processing gateways provide facilities for sending test transactions. In some cases they have a single global login that all developers and merchants can use during development, others will provide you with a new account unconnected to a live merchant account upon request, or through automated signup procedures available on their Web sites.

The following list will assist you in evaluating CCAuthorize until you obtain an account with one of the support payment gateways. Note, in some cases the test account information provided below are accounts supplied to the CCAuthorize Vendor, so please be considerate in activities you engage in if you test with those accounts. None of the test accounts are capable of actually capturing funds. PLEASE DO NOT SEND REAL CREDIT CARD NUMBERS TO ANY OF THE TEST ACCOUNTS LISTED BELOW!! A list of credit card numbers which will pass the checksum verification are provided below.

Type	Credit Card Number
Visa	4444555566667779
MasterCard	5424000000000015
AmEx	3700000000000002
Discover	6011000000000012

Type	Credit Card Number
JCB	3088000000000017
Diners	380000000000006

VeriSign Payflow Pro

Field	Value
Login	testdriver
Password	testdriver
Partner ID	VeriSign

Specific dollar amounts generate various responses:

\$0.00 - \$100.00	Approved
\$100.01 - \$1,000.00	Referral
>\$1,000.01	Declined

Authorize.Net or Planet Payment

Field	Value
Login	TestDriver
Password	TestDriver

SelectCheck

Field	Value
Login	SPPDemovt_5002
Password	vt5002-SPP!*Demo
Merchant ID	5004
Location ID	5005

Royal Bank e-Select

Field	Value
Login	test
Token	3E3F1134C230184964CAB3A8D93EEB31888C42C714E39CB BB2E54157E523DD6E

Cardservice LinkPoint

Field	Value
Login	500115

PSiGate

Field	Value
Login	teststore

DirectOne

Field	Value
Login	digitalpoint
Password	d1g1tal

DataCash

Field	Value
Login	21859999
Password	fred
Ecrption Key	0123456789ABCDEF

eProcessingNetwork

Field	Value
Login	05971

SurePay

Field	Value
Login	1001
Password	password

Specific dollar amounts generate various responses:

\$10.00 - \$100.00	Approved
\$100.01 - \$500.00	Decline
>\$500.00	Error

GoChargeIt

Field	Value
Login	merchant

Bank of America eStores

Field	Value
Login	acmetech_demo

Chapter 4: Plug-In Functions

CCAuthorize has been developed to work with the JavaCompanion plug-in architecture from Acme Technologies. This technology greatly simplifies the development of cross-platform FileMaker Pro plug-ins. However, due to limitations in the current FileMaker plug-in programming interface, JavaCompanion plug-ins do not display their function names within FileMaker's calculation dialog as other plug-ins do. Instead, all plug-ins based on JavaCompanion are accessed through a single External plug-in function name (JAVB-Command), and the actual plug-in's function name is provided as the first parameter to this function call. For example:

```
External("JAVB-Command", "CCAU-NewTransaction" & "!" & ... )
```

Examples for all plug-in functions can be found in the CCAuthorzie.fp5 database that comes with this document. The “How Does It Work?” button in the database will show you examples of all functions as well as populate the code with your data (or sample data).

How Does It Work?

Plug-In Results

Functions that you call with CCAuthorize will return results of “**ERR:**” followed by whatever the error was if there is any problem with it.

Voids

Any transaction type (such as voids) that reference pre-existing transactions will always need to pass Transaction ID in order to be processed.

CCAU-Activate

This function is used to activate your license key you receive when you receive when you purchase CCAuthorize.

```
External("JAVB-Command", "CCAU-Activate" & "l" & [Activation Key])
```

This call will return a text string that gives you info. Either the plug-in was activated, or there was some sort of error.

CCAU-ShortVersion

This function is used to get a numeric value of the plug-in version.

```
External("JAVB-Command", "CCAU-ShortVersion")
```

CCAU-LongVersion

Using this function, you can retrieve a string that contains the plug-in name as well as version.

```
External("JAVB-Command", "CCAU-LongVersion")
```

CCAU-CreditCardValidate

You can use this function to determine if a credit card passes the credit card checksum. If it does not pass the checksum, you know the credit card is not valid before you try to process it.

```
External("JAVB-Command", "CCAU-CreditCardValidate" & "I" & [Credit  
Card Number])
```

This function will return a 0 if it fails and a 1 if it passed the checksum.

CCAU-CreditCardType

You can use this function to determine the type of credit card.

```
External("JAVB-Command", "CCAU-CreditCardType" & "I" & [Credit Card  
Number])
```

This function will return a string value of the credit card type.

CCAU-NewTransaction

This plug-in call is made when you wish to initiate a new transaction.

```
External("JAVB-Command", "CCAU-NewTransaction" & "|" & [Gateway  
Code])
```

The gateway code is used to tell CCAuthorize what processing gateway you are going to be using. A complete list of supported gateways as well as their gateway codes can be found in *Chapter 2: Processing Gateways*.

CCAU-AddParameter

The AddParameter plug-in function is used to pass various parameters and values to CCAuthorize.

```
External("JAVB-Command", "CCAU-AddParameter" & "|" & [Parameter  
Name] & "=" & [Parameter Value])
```

You can call this function once for each parameter, or you can stack multiple parameters with a single function call in the following format:

```
External("JAVB-Command", "CCAU-AddParameter" & "|" & [Parameter  
Name 1] & "=" & [Parameter Value 1] & "|" & [Parameter Name 2] & "=" &  
[Parameter Value 2] & "|" & [Parameter Name 3] & "=" & [Parameter Value  
3]...)
```

There is no limit to the number of parameters you can pass for a transaction. If you pass parameters that are not supported within your selected processing gateway, they will simply be ignored.

Available parameters that you can pass to the CCAuthorize plug-in are:

Parameter Name	Notes
LOGIN	
PASSWORD	
PARTNER	
TEST_REQUEST	“True” or “False”
AMOUNT	AAAA.AA
TYPE	“AUTH_CAPTURE”, “AUTH_ONLY”, “PRIOR_AUTH_CAPTURE”, “VOID”, “CREDIT” or “CAPTURE_ONLY”
METHOD	CC” or “ECHECK” for ACH transactions
CARD_NUM	
EXP_DATE	MMYY
INVOICE_NUM	
CUST_ID	You assign to your customer
DESCRIPTION	Description of transaction
TRANS_ID	
AUTH_CODE	Only used with “CAPTURE_ONLY” method
CVV2	3 or 4 digit code on back of credit card
REFERRER_URL	
ENCRYPTION_KEY	
START_DATE	MMYY
ISSUE_NUMBER	
CURRENCY	
FIRST_NAME	
LAST_NAME	
COMPANY	

Parameter Name	Notes
ADDRESS	
CITY	
STATE	
ZIP	
COUNTRY	
BANK_ABA_CODE	
BANK_ACCT_NUM	
BANK_ACCT_TYPE	“Checking” or “Savings”
BANK_NAME	
EMAIL	
EMAIL_CUSTOMER	“True” or “False”
EMAIL_MERCHANT	“True” or “False”
PHONE	
FAX	
PO_NUM	
SHIPTO_FIRSTNAME	
SHIPTO_LASTNAME	
SHIPTO_COMPANY	
SHIPTO_ADDRESS	
SHIPTO_CITY	
SHIPTO_STATE	
SHIPTO_ZIP	
SHIPTO_COUNTRY	
FREIGHT	
TAX	
DUTY	
TAEXEMPT	“True” or “False”

Parameter Name	Notes
CHECK_NUMBER	
DRIVERS_LICENSE	
CHECK_TYPE	“C” or “P” for company or personal
SS_NUMBER	
DOB	MMDDYYYY
DRIVERS_LICENSE_STATE	Two character state code
MERCHANT_ID	
LOCATION_ID	
PARADATA_ACCOUNT_TOKEN	

CCAU-SendTransaction

Once you have passed all the parameters you wish to the plug-in, you can issue this function. This will send the transaction for processing to the processing gateway as set by the NewTransaction function.

```
External("JAVB-Command", "CCAU-SendTransaction" & "|" & [Timeout])
```

The timeout value is an optional value that can be used to set the timeout value for the transaction in seconds.

CCAU-GetResponseCode

After your transaction has been sent for processing, you can retrieve the status of the transaction with this function.

```
External("JAVB-Command", "CCAU-GetResponseCode")
```

The value that is returned by this function is always a numeric value.

Response	Meaning
1	Approval
2	Decline
3	Error

CCAU-GetResponseSubcode

This function will allow you to get additional info about a transaction. A numeric value is returned and is only supported by some processing gateways.

```
External("JAVB-Command", "CCAU-GetResponseSubcode")
```

CCAU-GetResponseText

Some processors support a text result of the response. This usually is a string that will give even more info about the transaction.

```
External("JAVB-Command", "CCAU-GetResponseText")
```

CCAU-GetBankApprovalCode

The bank's approval code can be retrieved for your records with this function.

```
External("JAVB-Command", "CCAU-GetBankApprovalCode")
```

CCAU-GetTransactionID

The processing gateway will issue a transaction ID for all transaction. This transaction ID can be retrieved with this function.

```
External("JAVB-Command", "CCAU-GetTransactionID")
```

The transaction ID is also required if you wish to void a transaction at a later time.

CCAU-GetAVSCode

This function will allow you to get the address verification status for the transaction. Currently only north american credit cards have the capability to utilize AVS.

```
External("JAVB-Command", "CCAU-GetAVSCode")
```

CCAU-GetParaDataBatchID

If your processing gateway supports ParaData Batch IDs, you can retrieve that info with this function.

```
External("JAVB-Command", "CCAU-GetParaDataBatchID")
```

CCAU-GetParaDataCaptureReference

This function is only needed if your processing gateway supports ParaData on the back-end.

```
External("JAVB-Command", "CCAU-GetParaDataCaptureReference")
```

CCAU-GetParaDataISOCode

The ISO Code for a ParaData style processing gateway can be retrieved with this function.

```
External("JAVB-Command", "CCAU-GetParaDataISOCode")
```

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