



MerchantPartners

**Online Commerce Suite™  
First Mile™ MiddleWare Guide**



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# Overview

Online Commerce Suite™ is a Web-based payment gateway that allows you to securely process credit card and electronic check payments for goods and services over the Internet.

First Mile™ MiddleWare is a Windows library that provides an easy way to integrate with the Online Commerce Suite for your custom applications. First Mile MiddleWare is implemented as a .NET object (including support for COM interoperability) capable of running on Windows 7 (SP1) or later versions of Windows with .NET Framework 4.5.2.

## What's In This Guide

The Online Commerce Suite First Mile MiddleWare Guide is a technical guide designed for developers familiar with programming languages such as Visual Basic, C#, or C++. This guide provides all the information necessary to integrate your custom application with the Online Commerce Suite using First Mile MiddleWare.

## How to Comment on This Guide

Every effort has been made to produce an accurate and easy to understand reference. If you have problems with this document, or find that the instructions are incorrect, incomplete, or inadequate, please let us know.

## Contact Information

Email: [support@merchantpartners.com](mailto:support@merchantpartners.com)

Phone: (866) 242-9933

## Documentation

Web Site URL: [https://www.onlinemerchantcenter.com/mpartners/html/user\\_manuals.html](https://www.onlinemerchantcenter.com/mpartners/html/user_manuals.html)

# First Mile™ MiddleWare Reference

First Mile MiddleWare exposes a single object, *ATSSecurePostUI*, that provides methods for presenting a graphical user interface that allows users to interactively process transactions. Transaction data is transferred over a Secure HTTP (HTTPS) connection using the capabilities provided by the .NET framework. First Mile MiddleWare supports several card readers via plug-in modules to provide card swipe functionality, as well as a few document scanners to provide check scanning functionality, and signature pads to provide signature capture functionality.

## Installation

To install First Mile MiddleWare for use as a COM object, copy the file *ATSSecurePostUILib.dll* to the location where you want the object to reside (typically the same location where your application resides, or in the Windows SYSTEM or SYSTEM32 directory). Register *ATSSecurePostUILib.dll* with the following command:

```
RegAsm /codebase ATSSecurePostUILib.dll
```

RegAsm.exe may not be in your command path. It is a .NET Framework tool located in the .NET Framework installation directory (e.g., C:\Windows\Microsoft.NET\Framework\v4.0.30319\RegAsm.exe).

## Uninstallation

To uninstall First Mile MiddleWare, unregister *ATSSecurePostUILib.dll* with the following command:

```
RegAsm /u ATSSecurePostUILib.dll
```

Delete the file *ATSSecurePostUILib.dll* from the location you installed it.

## Methods

The *ATSSecurePostUI* object provides the following methods:

*string CheckForUpdate(void)*

This non-interactive method compares the installed version of First Mile MiddleWare against the latest available version.

*string CheckForUpdates(bool)*

This method compares the installed version of First Mile MiddleWare and all hardware add-ons against the latest available versions and optionally launches the installation process.

*void ShowConfigDialog(void)*

*string ShowConfigDialog(string)*

This interactive method allows the user to configure First Mile MiddleWare settings.

*string ShowCreditCardForm(string)*

This interactive method allows the user to process a credit card or debit card transaction.

*string ShowCheckForm(string)*

This interactive method allows the user to process a check (ACH/ExtACH/Check21/CheckGuarantee) transaction.

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string ShowSignatureCaptureDialog(string, string, short, short)  
string ShowSignatureCaptureDialog(string)

This interactive method allows the user to capture a signature image from a signature pad.

string ShowCFNACreditApplication()  
string ShowCFNACreditApplication(string)

This interactive method allows the user to submit a CFNA credit application.

string ShowCreditApplication(string)

This interactive method allows the user to submit a credit application.

string ShowGoodyearApplication(void)  
string ShowGoodyearApplication(string)

This method has been superseded by ShowCreditApplication.

string ShowServiceCentralCreditApplication(void)  
string ShowServiceCentralCreditApplication(string)

This method has been superseded by ShowCreditApplication.

string ShowAccountLookupDialog(string)

This interactive method allows the user to perform a Drive Card, Goodyear, or Service Central account lookup (via SSN & Zip Code) or a Balance Inquiry (via Card Number).

string ShowTokenLookupDialog(string)

This interactive method allows the user to perform a Tokenized account lookup (via Token & Last 4 Digits of payment account number).

string ShowGiftCardDialog(string)

This interactive method allows the user to perform a gift card action (e.g., Issue, Add Value, Balance Inquiry, Deactivate).

string ShowTransactionSearchDialog(string)

This interactive method allows the user to perform a transaction search.

Please note that not all development environments support overloaded methods. If you encounter difficulties calling the second version of the overloaded methods listed above, you may need to append "\_2" to the method name.

Example:

First method:

```
uiLib.ShowConfigDialog();
```

Second method:

```
string strParams = "/ATSID:TEST0/MerchantPIN:123-aBc-789";  
string strResult = uiLib.ShowConfigDialog_2(strParams);
```

**string CheckForUpdate(void)**

This method checks the Merchant Partners servers for an updated version of First Mile MiddleWare.

Returns:

string Result

The result of this method call is a multi-line string containing information about the latest available version of First Mile MiddleWare.

[ *UPDATE* | *CURRENT* | *ERROR* ]

Identifies the result of the call:

Value	Description
UPDATE	Indicates an update is available. Examine the remaining lines of the result to determine if you want to manually download the latest release.
CURRENT	Indicates the installed version is current. The remaining lines of the result list information about the latest release.
ERROR	Indicates an error in retrieving the information from the server.

VERSION=*string*

The version number of the latest package.

DATE=*MM/DD/YYYY*

The date of the latest package.

NAME=*string*

The base filename of the package.

LINK=*URL*

The HTTP link where the latest package may downloaded.

SIZE=*string*

The size of the package archive.

MD5=*string*

The MD5 hash of the package archive.

Sample result:

CURRENT

VERSION=1.2.24.0

DATE=08/14/2015

NAME=ATSSecurePostUILib.zip

LINK=https://www.onlinemerchantcenter.com/docs/downloads/ATSSecurePostUILib.zip

SIZE=359 KB

MD5=489842f25227985fa5828279a947814e

**string CheckForUpdates (bool)**

This method checks the Merchant Partners servers for updated versions of First Mile MiddleWare and all installed hardware add-ons, and optionally installs any updates found.

Parameters:

`bool Install`

This parameter controls installation of updated components.

Value	Description
<code>true</code>	Launches the installation process if any updates are available. You must release the ATSSecurePostUI object in order to perform updates; this usually means closing your application.
<code>false</code>	Do not launch the installation process, even if updates are available, but instead return information about all available updates.

Returns:

`string Result`

The result of this method call is a multi-line string containing information about the latest available version of First Mile MiddleWare and hardware add-ons.

[ *UPDATING* | *UPDATE* | *CURRENT* | *ERROR* ]

Identifies the result of the call:

Value	Description
<i>UPDATING</i>	Indicates updates are available and being installed.
<i>UPDATE</i>	Indicates updates are available. Examine the remaining lines of the result to determine if you want to manually download the latest versions. If there are multiple components with updates available, each will be listed in the result following individual <i>UPDATE</i> lines.
<i>CURRENT</i>	Indicates the installed version is current.
<i>ERROR</i>	Indicates an error in retrieving the information from the server.

`VERSION=string`

The version number of the latest package.

`DATE=MM/DD/YYYY`

The date of the latest package.

`NAME=string`

The base filename of the package.

`LINK=URL`

The HTTP link where the latest package may be downloaded.

`SIZE=string`

The size of the package archive.

**void ShowConfigDialog(void)**

**string ShowConfigDialog(string)**

This method shows a configuration dialog with the following tabs:

- *General* – allows the user to enter the *Acct ID*, *Sub ID*, and *MerchantPIN* values to use for transaction processing and set general options.
- *Receipt* – allows the user to specify the Merchant information to be printed on receipts.
- *ACH* – allows the user to specify default ACH settings.
- *Hardware* – allows the user to select a compatible card swipe device and enter any additional settings that may be required for the selected hardware.
- *Check Scanner* – allows the user to select a compatible check scanner and enter any additional settings that may be required for the selected hardware.
- *Signature Pad* – allows the user to select a compatible signature capture device and enter any additional settings that may be required for the selected hardware.
- *Credit Application* – allows the user to configure the *Apply for Credit* popup.
- *Auto-Update* – allows the user to configure auto update settings.

The *Acct ID* and *Merchant PIN* settings are required for all transactions.

The parameterless version of this method persists all settings entered in the dialog.

The second version of this method accepts an initialization parameter and returns the user configured settings which may be used for the initialization parameter for other methods (e.g., *ShowCreditCardForm*).

Parameters:

string InitializationParameters

This parameter allows you to initialize the form with a set of values. This set of values may contain zero or more named parameters, each delimited by a slash (/). For each parameter, the name of the parameter must be separated from the value by a colon (:). Any fields not specified will use the stored value for that field.

The following named parameters allow you to hide individual tabs in the dialog:

```
/HideGeneral:
    Hides the General tab when a value of 1 is given.
/HideReceipt:
    Hides the Receipt tab when a value of 1 is given.
/HideACH:
    Hides the ACH tab when a value of 1 is given.
/HideHardware:
    Hides the Hardware tab when a value of 1 is given.
/HideCheckScanner:
    Hides the Check Scanner tab when a value of 1 is given.
/HideSignaturePad:
    Hides the Signature Pad tab when a value of 1 is given.
/HideCreditApplication:
    Hides the Credit Application tab when a value of 1 is given.
/HideAutoUpdate:
    Hides the Auto-Update tab when a value of 1 is given.
```



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The following named parameters apply to the *General* tab:

- /ATSID:  
5-character alphanumeric value (*Acct ID*) that identifies the merchant.
- /ATSSubID:  
5-character alphanumeric value that identifies the SubID for the merchant.
- /MerchantPIN:  
The Merchant PIN value from the Online Merchant Center (under the FRISK™ Management > Configure Options > API Controls section).
- /PromptForPaymentMethod:  
If this parameter is present with the value 1, then the *Allow User to Choose Credit/Debit Card or Check on Sales* checkbox is checked.
- /EnableP3:  
If this parameter is present with the value 1, then the *Enable Purchase Card Level III Sales* checkbox is checked.
- /SwipeImmediate:  
If this parameter is present with the value 1, then the *Immediately Swipe on Sales/Auths* checkbox is checked.
- /ProcessOnSwipe:  
If this parameter is present with the value 1, then the *Immediately Process Sales/Auths on Card Swipe* checkbox is checked.
- /SuppressAcceptedDialog:  
If this parameter is present with the value 1, then the *Suppress Accepted Dialog* checkbox is checked.
- /DisableCashback:  
If this parameter is present with the value 1, then the *Disable Cashback* checkbox is checked.
- /AllowAccountLookup:  
If this parameter is present with the value 1, then the *Allow Account Lookup for Sales* checkbox is checked.
- /AllowTokenization:  
If this parameter is present with the value 1, then the *Allow Account on File* checkbox is checked.
- /DisableTerms12:  
If this parameter is present with the value 1, then the *Disable 12 Months No Interest* checkbox is checked.
- /TaxRequired:  
If this parameter is present with the value 1, then the *Require Tax Amount/Exempt Status on Sales/Auths* checkbox is checked.
- /EnableGiftCardManager:  
If this parameter is present with the value 1, then the *Enable Gift Card Manager* checkbox is checked.
- /RequireGiftCardActivationSwipe:  
If this parameter is present with the value 1, then the *Require Swipe for Gift Card Activation/Add Value* checkbox is checked.
- /EnableEBT:  
If this parameter is present with the value 1, then the *Enable EBT Transactions* checkbox is checked.
- /EnableFSA:  
If this parameter is present with the value 1, then the *Enable FSA Transactions* checkbox is checked.
- /HideAddressGroup:  
If this parameter is present with the value 1, then the *Hide Address Group on Sales* checkbox is checked.
- /HideIdGroup:  
If this parameter is present with the value 1, then the *Hide Identification Group on Sales* checkbox is checked.

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### /HideVacGroup:

If this parameter is present with the value 1, then the *Hide Voice Auth Capture Group on Sales* checkbox is checked.

### /MerchantIndustry:

This parameter identifies the merchant industry which may have built-in business rules. Valid values are

Value	Description
A	Auto Rental
D	Direct Marketing
E	E-Commerce
F	Food/Restaurant
H	Hotel/Lodging
L	Loan Repayment
O	Oil/Fueling
R	Retail

The following named parameters apply to the *Receipt* tab:

### /MerchantName:

Specifies the Merchant name to be printed on the first line of the receipt.

### /MerchantAddress:

Specifies the Merchant address to be printed on the second line of the receipt.

### /MerchantCityStateZip:

Specifies the Merchant city, state and zip to be printed on the third line of the receipt.

### /MerchantPhone:

Specifies the Merchant phone number to be printed on the fourth line of the receipt.

### /ReceiptCopies:

Sets the default number of copies when the user chooses to print the receipt.

### /AutoPrintReceipt:

If this parameter is present with the value 1, then the *Automatically Print Receipt* checkbox is checked.

### /ReceiptCopies2:

If this parameter is present with the value 1, then the *Print two copies per page* checkbox is checked.

### /ReceiptText:

Specifies additional text to print on receipts.

The following named parameters apply to the *ACH* tab:

### /TerminalCity:

Four-character abbreviated name for the city where the POS terminal is located.

### /TerminalState:

Two-character state abbreviation of the state where the POS terminal is located.

### /ACHMethod:

Default ACH method:

Value	Description
ACH	Standard ACH

ExtACH	Extended ACH
Check21	Check21
CheckGuarantee	Check Guarantee
PaperGuarantee	Paper Guarantee

/SECCode:

Default SEC code:

Value	Description
ARC	Accounts Receivable Conversion
BOC	Back Office Conversion
ICL	Image Cash Letter
POP	Point of Purchase
PPD	P rearranged Payment/Deposit
RCK	Re-Presented Check
TEL	Telephone-Initiated Entry

/VerificationEnabled:

Whether check verification is enabled (1) or disabled (0).

The following named parameters apply to the *Credit Application* tab:

/CreditAppPopup:

If this parameter is present with the value 1, then the *Apply for Credit Popup* defaults to *On*.

/CreditAppPopupProvider:

Identifies the selected credit application provider:

Value	Description
GEMY	CarCareONE
CFNA	CFNA
DRVE	Drive Card
GDYR	Goodyear
SERV	Service Central

/CreditAppPopupAmount:

Specifies the *Trigger Amount* at which the credit application popup will be displayed.

/AutoQuickScreen:

This parameter only applies to CarCareONE. It indicates whether QuickScreen should be executed for Sales and Auths.

/ShowQuickScreenDecline:

This parameter only applies to CarCareONE. It indicates whether QuickScreen Declines should be shown when AutoQuickScreen is enabled.

/ApplyForSecondaryCredit:

Default the "Apply for CFS..." option to Yes by passing 1 in this parameter.

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The following named parameters apply to the *Auto-Update* tab:

`/CheckForUpdates:`

A value of 0 indicates the library should *never check for updates*, a value of 1 indicates that updates should be queried based on the update interval.

`/CheckForUpdateInterval:`

Specifies the number of days between checks for update.

The following named parameters are also supported:

`/CenterScreen:`

If this parameter is present with the value 1, the dialog is shown centered on the screen rather than the default position of centering the dialog on the calling window.

`/Query:`

This parameter allows querying specific configuration information. The following table shows supported values and changes to the result:

Value	Description	Result
IsSigPadAvailable	Indicates whether a signature pad is available.	Returns YES if a signature pad is available, NO otherwise.

Example:

```
/ATSID:TEST0/MerchantPIN:123-aBc-789/HideReceipt:1
```

Returns:

```
string Result
```

The result of this method call is a string containing the user configured settings. This string may be used in the initialization parameter for other method calls (e.g., `ShowCreditCardForm`).

Example:

```
/ATSID:TEST0/MerchantPIN:123-aBc-789/EnableP3:1
```

If the `/Query:` named parameter was supplied in the method call, then the result will instead contain the information described in the Query Values table.

**string ShowCreditCardForm(string)**

This method shows the credit card processing form.

Parameters:

string InitializationParameters

This parameter allows you to initialize the form with a set of values and control its behavior. This set of values may contain zero or more parameters, each delimited by a slash (/). For each parameter, the name of the parameter must be separated from the value by a colon (:).

The following named parameters are supported:

/ATSID:

5-character alphanumeric value (*Acct ID*) that identifies the merchant. If omitted and the `ShowConfigDialog` method has never been called, then this method will automatically call the `ShowConfigDialog` method to collect this required information.

/ATSSubID:

5-character alphanumeric value that identifies the SubID for the merchant.

/MerchantPIN:

The Merchant PIN value from the Online Merchant Center (under the FRISK™ Management > Configure Options > API Controls section). If omitted and the `ShowConfigDialog` method has never been called, then this method will automatically call the `ShowConfigDialog` method to collect this required information.

/TransactionType:

Identifies the transaction type:

Value	Description
Sale	Perform a sale.
PreAuth	Perform a pre-authorization.
AuthReversal	Perform a reversal on an auth-only transaction.
PostAuth	Perform a post on a previous auth-only transaction.
VAC	Perform a sale with Voice Authorization Capture information.
Refund	Perform a refund of a previous transaction.
Void	Perform a void of a previous transaction.
Credit	Perform a stand-alone credit.
BillPayment	Perform a PINless debit sale transaction.
AccountPayment	Record an account payment (for supported card types).
AccountPaymentReversal	Reverse an account payment (for supported card types).

/Amount:

Dollar amount of the transaction (e.g., 1.23)

/MerchantOrderNumber:

(alias /Receipt:)

A value, unique to the merchant, by which the merchant can easily reference the order in the Online Merchant Center and reports.

/RefCode:

RefCode captured from a pre-authorization transaction. This parameter only applies to the `PostAuth` transaction type.

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### /OrderID:

The Order ID associated with an existing transaction. This parameter only applies to the *AuthReversal*, *Refund*, and *Void* transaction types.

### /TransactionID:

The Transaction ID of an existing transaction. This parameter only applies to the *AuthReversal*, *Refund*, and *Void* transaction types.

### /RequireTax:

If this parameter is present with the value *1*, the user must either specify a tax amount or tax exempt status in order to process the transaction.

### /TaxAmount:

Dollar amount of tax collected for the transaction (e.g., *1.23*)

### /TaxExempt:

Indicates whether the transaction is tax exempt. Use *1* to indicate tax exempt; omit or use *0* to indicate a taxable purchase.

### /CashbackAmount:

Specifies the cashback amount (e.g., *1.23*)

### /Memo:

(alias */Clerk:*)

Transaction memo; 256 character maximum.

### /CenterScreen:

If this parameter is present with the value *1*, the dialog is shown centered on the screen rather than the default position of centering the dialog on the calling window.

### /LockParameters:

If this parameter is present with the value *1*, the following fields, if provided in the parameter set, will be locked as read-only: *Order Number*, *Amount*, *Tax Amount*, *Tax Exempt*, and *Cashback*.

### /SwipeImmediate:

If this parameter is present with the value *1*, then the Swipe dialog is shown immediately upon launch of the credit card form. This only applies if the transaction type is *PreAuth*, *VAC*, or *Sale* and may also require the *Amount* parameter depending on the selected hardware.

### /ProcessOnSwipe:

If this parameter is present with the value *1*, then the transaction is processed immediately after a successful card swipe. This only applies if the transaction type is *PreAuth*, *VAC*, or *Sale* and may also require the *Amount* parameter depending on the selected hardware.

### /ProcessImmediate:

When this parameter is present with the value *1* and additional required parameters are given, a transaction will be executed without user interaction. This only applies if the transaction type is *AuthReversal*, *PostAuth*, *Refund*, or *Void*.

TransactionType	Required Parameters	Optional Parameters
AuthReversal	OrderID, TransactionID	
PostAuth	Amount, RefCode	
Refund	OrderID, TransactionID	Amount
Void	OrderID, TransactionID	

If any required parameter is missing or invalid, the user will be presented with the standard dialog.

### /SuppressAcceptedDialog:

Specify *1* to suppress the *Accepted* dialog which is normally shown for accepted transactions. *Declined*, *Duplicate Transaction*, and *Partial Approval* dialogs will still be shown.

### /SuppressPartialAcceptedDialog:

Even when the *Accepted* dialog is suppressed with the above parameter, a *Partial Approval* transaction will still show the *Accepted* dialog. Specify *1* to override this behavior.

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### /AcceptedDialogTimeout:

This parameter causes the Accepted dialog which is normally shown for accepted transactions to be automatically dismissed after the given number of seconds.

### /DisableOverridePIN:

By default, a stand-alone credit transaction requires an Override PIN to be entered by the user. The Override PIN must be configured in the gateway account. If your software manages its own similar restriction you can disable this requirement by providing a value of 1 for this parameter.

### /DisableCashback:

Specify 1 to disable cashback for PIN debit transactions.

### /EnableGiftCardManager:

Specify 1 to display the Gift Card Manager button on the Sale dialog.

### /RequireGiftCardActivationSwipe:

Specify 1 to require a swipe for Gift Card Activation/Add Value.

### /ExitOnDecline:

If this parameter is present with the value 1, then the transaction dialog is automatically dismissed if the transaction is declined.

### /ExitOnCancelledSwipe:

If this parameter is present with the value 1, then the transaction dialog is automatically dismissed if the swipe is cancelled.

### /HideAddressGroup:

Specify 1 to hide the Address group of fields on the Sale dialog.

### /HideIdGroup:

Specify 1 to hide the Identification group of fields on the Sale dialog.

### /HideVacGroup:

Specify 1 to hide the Voice Auth Capture group of fields on the Sale dialog.

### /CheckForUpdateInterval:

The number of days between checks for updates.

### /CheckForUpdates:

Specify 0 to disable checking for updates, or 1 to enable update checking for updates.

### /NameOfStation:

Name of station associated with the transaction.

### /ISVUser:

ISV User associated with the transaction.

### /ISVEMV:

Specify 1 to receive the RECEIPTGROUP response elements. The RECEIPTGROUP response elements may include EMV information (required for printed receipts). If this parameter is not present (or set to 0), EMV response elements (if available) are included in the TERMS response element.

### /ReturnAddress:

Specify 1 to include the consumer address information in the transaction results. The address information is only available if provided with the transaction.

### /CardPresentDefault:

By default, the checkbox labeled "This is a Card Present transaction" is initially checked. Specify 0 to override this behavior and initially leave the checkbox unchecked.

The following named parameters apply to the *Apply for Credit* popup:

### /CreditAppPopup:

Specify 0 to disable the *Apply for Credit* popup, or 1 to enable it.

### /CreditAppPopupAmount:

Specifies the minimum transaction amount that triggers the *Apply for Credit* popup.

### /CreditAppPopupProvider:

Specifies the credit application provider to use when the user accepts the *Apply for Credit* popup. Valid values are

Value	Description
CFNA	Use the CFNA Credit Application
DRVE	Use the Drive Card Credit Application
Drive Card	
GDYR	Use the Goodyear Credit Application
Goodyear	
SERV	Use the Service Central Credit Application
Service Central	
GEMY	Use the CarCareONE Credit Application
CarCareONE	

`/IncludeCreditAppResult:`

Specify 1 to include the credit application response in the results.

The following additional elements may be included in the transaction result:

APPDDETAIL, APPTRANSACTIONID, APPORDERID, APPCONFIRMATIONNUMBER, APPTOKEN, APPLAST4DIGITS, APPCARDNUMBER, APPCREDITLIMIT, APPBALANCE, APPFIRSTNAME, APPLASTNAME, APPADDRESS1, APPADDRESS2, APPCITY, APPSTATE, APPZIPCODE, APPPHONE, APPEMAIL.

See the [Results](#) section of the [ShowCreditApplication](#) method for more information.

`/MaskCreditAppCardNum:`

Specify 1 to mask the newly created credit card number that is returned in the `APPCARDNUMBER` transaction result. This value is only returned if the credit application is successful and not tokenized.

`/TokenizeCreditApp:`

Specify 1 to tokenize the accepted credit application. The sale/auth will use the newly tokenized account for the payment. This parameter overrides the `Tokenize` parameter described below.

The following named parameters apply to tokenization:

`/AllowTokenization:`

Specify 1 to enable tokenization. This overrides the "Allow Account on File" setting in the Configuration dialog.

`/Tokenize:`

Specify 1 to default the '*Store this card on file?*' option to 'Yes'. Additionally, if a credit application is accepted (see above), the newly created account will be tokenized.

`/Token:`

Numeric token supplied by Merchant Partners.

`/Last4Digits:`

The last four digits of the credit card or bank account number.

The following named parameters specify customer information:

`/CCName:`

(alias `/CardholderName:`)

Full name of the card holder (e.g., *John Q. Customer*)

`/Address1:`

(alias `/Address:`)

Cardholder street address (e.g., *123 Main St*)

`/Address2:`

Cardholder street address second line (e.g., *Suite 202*)

`/City:`

Cardholder city (e.g., *Redmond*)



**/State:**  
Cardholder state (e.g., *WA*)

**/Zip:**  
Cardholder zip code (e.g., *98052*)

**/Phone:**  
Consumer's phone number (e.g., *888-555-1212*)

**/Email:**  
Consumer's email address (e.g., *john@example.com*)

**/SSN:**  
Social Security number.

**/PhotoIDType:**  
Specifies the Photo ID type. Valid values are

Value	Description
D	Driver License (default)
G	Green Card
M	Military ID
P	Passport
S	State ID Card

**/PhotoIDNumber:**  
Specifies the identification number (which may contain characters) on the Photo ID.

**/PhotoIDExpDate:**  
Specifies the Photo ID expiration date in format MM-DD-YYYY or MM-YYYY.

The following named parameters apply to receipts:

**/MerchantName:**  
Specifies the Merchant name to be printed on the first line of the receipt.

**/MerchantAddress:**  
Specifies the Merchant address to be printed on the second line of the receipt.

**/MerchantCityStateZip:**  
Specifies the Merchant city, state and zip to be printed on the third line of the receipt.

**/MerchantPhone:**  
Specifies the Merchant phone number to be printed on the fourth line of the receipt.

**/HideReceiptButton:**  
If this parameter is present with the value 1, then the Print Receipt button normally shown on the successful transaction result dialog is hidden.

**/AutoPrintReceipt:**  
If this parameter is present with the value 1, then a receipt is automatically printed upon successful completion of a *PreAuth*, *VAC*, *Sale*, or *Credit* transaction.

**/ReceiptCopies:**  
Sets the default number of copies when the user chooses to print the receipt.

**/ReceiptCopies2:**  
Specify 1 to attempt printing two copies of the receipt whenever the receipt is printed.

**/ReceiptText:**  
Specify additional text to print at the bottom of the receipt.

The following named parameters apply to the signature image:

**/ReturnImageEncoding:**  
Identifies the encoding in which you would like the signature image returned. Since the *ShowCreditCardForm* method returns a string value, the image must be encoded in a string

representation. Valid values are

Value	Description
Base64	Radix-64 encoding; the base 64 digits in ascending order from zero are the uppercase characters 'A' to 'Z', the lowercase characters 'a' to 'z', the numerals '0' to '9', and the symbols '+' and '/'. The valueless character, '=', is used for trailing padding.
BinHex	Binary to Hexadecimal encoding; each byte is converted to a hexadecimal string representation.

If this parameter is not specified, no image is returned.

/ReturnImageFormat:

Identifies the image format in which you would like the signature image returned. Valid values are

Value	Description
Bmp	Windows bitmap
Emf	Enhanced Windows metafile
Gif	Graphics Interchange Format
Jpeg	Joint Photographic Experts Group image format
Pcl	Printer Control Language format
Png	Portable Network Graphics image format
Tiff	Tag Image File Format
Wmf	Windows metafile

Defaults to Tiff if not specified.

/ReturnImageHeight:

Specifies the maximum image height in pixels.

Default: 50.

/ReturnImageWidth:

Specifies the maximum image width in pixels.

Default: 250.

/ResizeReturnImage:

Specify 1 to resize the signature image to the dimensions given by /ReturnImageHeight and /ReturnImageWidth.

/SignaturePrompt:

Specifies the prompt to display on the hardware device (if supported) for signature capture operations.

/SignatureOptional:

Specify 1 to make the signature optional for PIN Debit transactions.

The following named parameters apply to Purchase Card information:

/EnableP3:

Specify 1 to enable Purchase Card Level III line item detail for sales transactions. This only applies when /P2Fields:1.

/POCustomerRefID:

If P2Fields are enabled, this parameter may be used to specify a cardholder's customer ID or reference number for the Purchase Card.

/SupplierRefNum:

If P2Fields are enabled, this parameter may be used to specify a reference number that helps the merchant identify the charge in case of an inquiry by the credit card company. (AMEX

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Commercial Card only).

/CardholderRefNum:

If P2Fields are enabled, this parameter may be used to specify a card holder reference number. (AMEX Commercial Card only).

/ChargeDescriptor:

If P2Fields are enabled, this parameter may be used to describe the charge. (AMEX Commercial Card only).

The following named parameters apply to *CarCareONE*, *Drive Card*, *Goodyear*, and *Service Central* cards:

/AllowAccountLookup:

If this parameter is present with the value 1, then the *Account Lookup* button is displayed on the Sale dialog to allow account lookup/balance inquiries prior to performing the sale.

/PromoCode:

For the *CarCareONE* card, this 3- or 4-digit value identifies the promo code for the transaction.

/AutoQuickScreen:

This parameter overrides the "Automatically QuickScreen Sales/Auths" setting in the Credit Application tab of the Configuration dialog when CarCareONE is selected as the provider. Pass 1 to perform a background CarCareONE QuickScreen when the Sale dialog is shown. A QuickScreen can only be performed if CardholderName, Address1, City, State, and Zip are provided. Pass 0 to bypass an automatic QuickScreen.

/ShowQuickScreenDecline:

This parameter overrides the "Show QuickScreen Declines" setting in the Credit Application tab of the Configuration dialog when CarCareONE is selected as the provider. If an automatic CarCareONE QuickScreen is declined by the processor, sending a 1 for this parameter will show the Decline dialog. Sending a 0 for this parameter suppresses the Decline dialog.

/Terms:

For *Drive Card*, *Goodyear*, and *Service Central* cards, this identifies the ticket terms for the transaction. Valid values are

Value	Description
0001	Revolve Sale
0060	6 Months No Interest
0012	12 Months No Interest

/DisableTerms12:

If this parameter is present with the value 1, the *12 Months No Interest* option for the *Drive Card*, *Goodyear*, and *Service Central* ticket terms is disabled.

The following named parameters apply to Fleet cards:

/DefaultFCProductCode:

For *Fleet* cards, this identifies the default product code for the transaction. The default product code is used to generate the Line Item detail when not submitted by the user. For valid values, see [Appendix B](#).

/FleetRC:

For *Fleet* cards, this parameter sets the *RC* field for keyed entries. The *RC* field determines the service restrictions and prompts applicable to the card.

/DepartmentNumber:

For *Wright Express* fleet cards, this parameter sets the *Department #* service prompt field.

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/DLNumber:

Driver license number; required for some *Fleet* cards.

/DriverID:

For *Fleet* cards, this parameter sets the *Driver ID* service prompt field.

/IDNumber:

For *Fleet* cards, this parameter sets the *ID* service prompt field.

/JobNumber:

For *Wright Express* fleet cards, this parameter sets the *Job #* service prompt field.

/LineItems:

For *Fleet* cards, this parameter may contain the line item details for the transaction. Refer to [Appendix A](#) for more information.

/MiscNumericData:

For *Wright Express* fleet cards, this parameter sets the *Cust Data* service prompt field.

/OdometerReading:

For *Fleet* cards, this parameter sets the *Odometer* service prompt field.

/PurchaseDevSequenceNumber:

For *Wright Express* fleet cards, this parameter sets the *Purchase Dev. Seq. #* service prompt field.

/VehicleID:

For *Fleet* cards, this parameter sets the *Vehicle ID* service prompt field.

The following named parameters apply to PINless debit transactions:

**Note:** when *MerchantIndustry* is *Loan Repayment*, all sales are performed as PINless debit transactions.

/BillingAccountNumber:

Account number that merchant uses to identify customer in their system.

/InvoiceNumber:

Optional merchant invoice number.

The following named parameters apply to EBT transactions:

/EnableEBT:

Use 1 to enable EBT transactions. Use 0 to disable EBT transactions.

/TransactionSubType:

The default selection in the Transaction Type group can be controlled with the following values.

Value	Description
EBT	Select the <i>EBT</i> option.
EBT_CashBenefitSale	Select the <i>EBT</i> option and <i>Cash Benefits Purchase</i> item.
EBT_FoodStampSale	Select the <i>EBT</i> option and <i>Food Stamp Purchase</i> item.
EBT_FoodStampVoucherSale	Select the <i>EBT</i> option and <i>Food Stamp Voucher Sale</i> item.
EBT_CashBenefitWithdrawal	Select the <i>EBT</i> option and <i>Cash Benefit Withdrawal</i> item.
EBT_BalanceInquiry	Select the <i>EBT</i> option, the <i>Balance Inquiry</i> item, and select <i>Balance Inquiry</i> in the EBT Balance Inquiry group.
EBT_CashBenefitBalanceInquiry	Select the <i>EBT</i> option, <i>Balance Inquiry</i> item, and select <i>Cash Benefit Balance</i> in the EBT Balance Inquiry group.

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EBT_FoodStampBalanceInquiry	Select the <i>EBT</i> option, <i>Balance Inquiry</i> item, and select <i>Food Stamp Balance</i> in the EBT Balance Inquiry group.
EBT_FoodStampReturn	Check the <i>EBT Return</i> checkbox and select <i>Food Stamp</i> option from the <i>EBT Refund</i> selection on the Return/Credit dialog.
EBT_CashBenefitReturn	Check the <i>EBT Return</i> checkbox and select <i>Cash Benefit</i> option from the <i>EBT Refund</i> selection on the Return/Credit dialog.

/EBTApprovalCode:

If *Food Stamp Voucher Sale* is selected, a *Food Stamp Voucher Sale* group is displayed under the Credit Card group. The required 4-6 alphanumeric *Approval Code* field may be pre-populated with this parameter.

/VoucherSerialNumber:

If *Food Stamp Voucher Sale* is selected, the required, up to 15 alphanumeric *Voucher Serial Number* field may be pre-populated with this parameter.

The following named parameters apply to FSA transactions:

/EnableFSA:

Use 1 to enable FSA transactions. Use 0 to disable FSA transactions.

/TransactionSubType:

The default selection in the Transaction Type group can be set to *Health Care* by using

/TransactionSubType:FSA.

/ClinicAmount:

Clinic amount.

/RXAmount:

RX amount.

/DentalAmount:

Dental amount.

/VisionAmount:

Vision amount.

The following named parameters apply to Recurring transactions:

/EnableRecur:

Use 1 to enable Recurring. Use 0 to disable Recurring.

/RecurCreate:

Use 1, to auto-check the *Create a recurring transaction* checkbox.

/RecurBillingCycle:

Recurring billing cycle:

Value	Description
0	No Recurring.
1	Weekly Recurring.
2	Monthly Recurring.
3	Quarterly Recurring.
4	Semi-Annual Recurring.
5	Annual Recurring.

6	Bi-Weekly Recurring.
7	Bi-Annual Recurring.
8	Quad Weekly (28 days) Recurring.
9	One Time Recurring.
10	Daily Recurring.
11	Bi-Monthly Recurring.

/RecurBillMax:

Number of recurrences.

Value	Description
-1	Unlimited number of billings.
0	No recurring billings.
> 0	Maximum number of billings.

/RecurStartDate:

Start date of recur billing in the format MM-DD-YYYY (e.g., 01-16-1975)

/RecurAmount:

Recur billing amount.

All parameters are optional and may be omitted.

Example:

/TransactionType:PreAuth/Amount:1.25

Returns:

string Result

The result of this method call is a multi-line string containing information about the transaction that was processed. Each result element is separated by a CR/LF. Not every element will be present for all transactions. Additional elements may be added in the future.

RESULT= [ *NONE* | *SUCCESS* | *DECLINED* | *ERROR* ]

Indicates the status of the call:

Value	Description
NONE	Indicates no transaction was performed.
SUCCESS	Indicates the transaction was successful.
DECLINED	Indicates the transaction was declined.
ERROR	Indicates an error occurred.

Note: if Auto Updates are enabled and the user assents to the Auto Update process, the value of this tag will be *NONE* and the *DETAIL* tag will contain the value *Update in progress*.

ACCOUNT=*numeric*

The last 4 digits of the credit card that was processed.

AMOUNT=*decimal*

The amount of the transaction.

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EXPIRATION=*MM/YYYY*

The expiration date of the credit card that was processed.

APPROVALCODE=*string*

The Authorization Code of the transaction.

NAME=*string*

The Account Holder name, if available.

TRANSACTIONID=*numeric*

The Online Merchant Center Transaction ID for the transaction.

ORDERID=*numeric*

The Online Merchant Center Order ID for the transaction.

DETAIL=*string*

This value identifies the transaction type and any additional information about the transaction.  
For successful transactions, this value depends on the transaction type:

TransactionType	Detail
Sale	No additional information is provided.
PreAuth	The pre-authorization RefCode is provided.
AuthReversal	No additional information is provided.
PostAuth	The pre-authorization RefCode that was used for the post-authorization is provided.
VAC	The Voice Authorization Capture Code that was included with the transaction is provided.
Refund	No additional information is provided.
Void	No additional information is provided.

For declined transactions, this value contains the processing gateway's decline reason.

For partial approval transactions, the result will have the string *-PARTIAL* appended.

If the user assents to the Auto Update process, this tag will contain the value *Update in progress*

ACCOUNTTYPE=*string*

Identifies the credit card type that was processed:

AMEX	CarCareONE	CFNA	Check
Debit	Diners Club	Discover Network	Drive Card
Fleet One	Flying J	FuelLynk	FuelMan
GE Money	Goodyear	JCB	MasterCard
MasterCard Fleet	Service Central	Visa	Visa Fleet
Voyager	WP Gift Card	Wright Express	

PARTIAL\_APPROVAL=*1*

In the event of a partial authorization, this flag will be included in the results. Additionally, the *AMOUNT* tag identifies the partial amount that was approved.

TERMID=*string*

This optional tag may be included to identify the Terminal on which the transaction originated.

MERCHANTID=*string*

This optional tag may be included to identify the Merchant.

BALANCE=*numeric*

Balance remaining on card (not supported for all card types).

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TERMS=*string*

For certain card types (e.g., *CarCareONE*, *Goodyear*, *Drive Card*, and *Service Central*), additional information may be required for printed receipts. This information is included in this tag. If the `/ISVEMV:1` parameter was not provided, EMV information may be provided in this element for EMV transactions. The value may include the 2-character sequence `[]` to indicate where newlines would be used.

ODOMETERREADING=*string*

For *Fleet* cards, if the *Odometer* service prompt was required for the transaction, it is included in this tag which should be printed on receipts.

VEHICLEID=*string*

For *Visa Fleet* and *Wright Express* fleet cards, if the *Vehicle ID* service prompt was required for the transaction, it is included in this tag which should be printed on receipts.

PURCHASEDEVSEQUENCENUMBER=*string*

For *Wright Express* fleet cards, if the *Purchase Dev. Seq. #* service prompt was required for the transaction, it is included in this tag which should be printed on receipts.

TOKEN=*numeric*

For Tokenized transactions, whether creating a new tokenized account or using an existing tokenized account to perform a transaction, the value indicates the Merchant Partners token that is required for subsequent transactions against the tokenized account.

LAST4DIGITS=*numeric*

For Tokenized transactions, this value indicates the last four digits of the payment account for the tokenized account.

ENTRYMETHOD=*string*

Indicates whether the transaction was `SWIPED` or `KEYED`.

FOODBALANCE=*numeric*

Food balance amount remaining on EBT card.

CASHBALANCE=*numeric*

Cash balance amount remaining on EBT card.

If the `/ReturnAddress:1` parameter was provided and a consumer address was submitted with the transaction, the following elements will be available:

ADDRESS1=*string*

Street address of the consumer.

ADDRESS2=*string*

Second line of the street address of the consumer.

CITY=*string*

City of the consumer's address.

STATE=*string*

State of the consumer's address.

ZIPCODE=*string*

Zip code of the consumer's address.

PHONE=*string*

Consumer's phone number.

EMAIL=*string*

Consumer's email address.

If the `/ISVEMV:1` parameter was provided, the response will contain the following elements that may be used for printing a receipt. Each group contains name/value pairs with a "|" (pipe) as a delimiter and a ":" (colon) as a separator between the name and value. Not all pairs will be present at all times. Additional elements may be added in the future.

RECEIPTGROUP1=*string*

This group contains cardholder and transaction data.



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Name	Description
TRANSACTIONTYPE	Indicates the type of transaction processed: SALE, AVSSALE, AUTH, AVSAUTH, POST, AVSPOST, VOICEPOST, VOID, CREDIT
TRANSACTIONRESULT	Indicates whether the transaction was APPROVED or DECLINED.
TIMESTAMP	Timestamp of the transaction in the format MM/DD/YYYY hh:mm:ss AMPM (e.g., 8/20/2015 4:20:05 PM).
MERCHANTORDERNUMBER	Merchant order number (if provided).
MERCHANTID	Merchant identifier, masked to the last four digits.
TERMID	Terminal identifier.
AMOUNT	Amount of the transaction.
CASHBACK	Cashback amount.
ENTRYMETHOD	Entry method: SWIPED, KEYED, EMV CONTACT, EMV CONTACTLESS, FALLBACK SWIPE, FALLBACK KEYED, RFID Note: EMV Contactless is not supported at this time.
NAME	Cardholder name.
ACCOUNTTYPE	Payment type. See the ACCOUNTTYPE element above for valid values.
ACCOUNT	Card number, masked to the last four digits.
ORDERID	The Online Merchant Center Order ID for the transaction.
TRANSACTIONID	The Online Merchant Center Transaction ID for the transaction.
AUTHCODE	The authorization or approval code provided by the authorizing network.
DECLINECODE	If the transaction was declined, this value contains the 10-digit decline code.
DECLINEMESSAGE	For declined transactions, this value may contain a message indicating the reason for the decline.
BATCHNUMBER	Batch settlement number in which this transaction is included.
AVSRESULT	Result code generated by the Address Verification System.
CVV2RESULT	One character result code generated by the CVV2/CVC2 system.
ODOMETERREADING	For <i>Fleet</i> cards, if the <i>Odometer</i> service prompt was required for the transaction, it is included in this tag which should be printed on receipts.
VEHICLEID	For <i>Visa Fleet</i> and <i>Wright Express</i> fleet cards, if the <i>Vehicle ID</i> service prompt was required for the transaction, it is included in this tag which should be printed on receipts.
PURCHASEDEVSEQUENCENUMBER	For <i>Wright Express</i> fleet cards, if the <i>Purchase Dev. Seq. #</i> service prompt was required for the transaction, it is included in this tag which should be printed on receipts.
BALANCE	Balance remaining on card (not supported for all card types).

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RECEIPTGROUP2=*string*

This group contains EMV receipt data.

Name	Description
APPLABEL	Application Name
AID	ApplicationID
TVR	Terminal Verification Results
IAD	Issuer Application Data
TSI	Transaction Status Indicator
ARQC	Application Cryptogram
ARC	Authorization Response Code
CVM	Cardholder Verification Method (P(PIN), S(SIGNATURE), N(NONE))

RECEIPTGROUP3=*string*

This group contains terms or information as demanded by the card brand.

Name	Description
TERMS	For certain credit cards (e.g., <i>CarCareONE</i> , <i>Goodyear</i> , <i>Drive Card</i> , and <i>Service Central</i> ), additional information may be required for printed receipts. This information is included in this tag.

If the `ReturnImageEncoding` parameter is provided and a signature image was captured, the following element will be included

SIGNATURE=*string*

This value contains the image in the format determined by the `ReturnImageFormat` parameter with dimensions specified by `ReturnImageWidth` and `ReturnImageHeight` (if supported by the signature capture device).

Example:

```
RESULT=SUCCESS
ACCOUNT=5454
AMOUNT=1.25
EXPIRATION=12/2015
APPROVALCODE=SALE:000111:12345678::123456789:::
NAME=DEFAULT TEST
TRANSACTIONID=123456789
ORDERID=123456999
DETAIL=Sale
ACCOUNTTYPE=MasterCard
TERMID=123789
ENTRYMETHOD=SWIPED
MERCHANTID=123456789012788
RECEIPTGROUP1=TRANSACTIONTYPE:SALE|TRANSACTIONRESULT:APPROVED|TIMESTAMP:8/21/2015 4:20...
RECEIPTGROUP2=
RECEIPTGROUP3=
```

**string ShowCheckForm(string)**

This method shows the check processing form.

Parameters:

`string InitializationParameters`

This parameter allows you to initialize the form with a set of values. This set of values may contain zero or more named parameters, each delimited by a slash (/). For each parameter, the name of the parameter must be separated from the value by a colon (:).

The following named parameters are supported:

`/ATSID:`

5-character alphanumeric value (*Acct ID*) that identifies the merchant. If omitted and the `ShowConfigDialog` method has never been called, then this method will automatically call the `ShowConfigDialog` method to collect this required information.

`/ATSSubID:`

5-character alphanumeric value that identifies the SubID for the merchant.

`/MerchantPIN:`

The Merchant PIN value from the Online Merchant Center (under the FRISK™ Management > Configure Options > API Controls section). If omitted and the `ShowConfigDialog` method has never been called, then this method will automatically call the `ShowConfigDialog` method to collect this required information.

`/TransactionType:`

Sets the transaction type selection. The following values are supported:

Value	Description
Sale	Perform a Sale.
Refund	Perform a refund of a previous transaction.
Void	Perform a void of a previous transaction.

`/ACHMethod:`

Override the default ACH method:

Value	Description
ACH	Standard ACH
ExtACH	Extended ACH
Check21	Check21
CheckGuarantee	Check Guarantee

`/Amount:`

Dollar amount of the transaction (e.g., 1.23)

`/MerchantOrderNumber:`

A value, unique to the merchant, by which the merchant can easily reference the order in the Online Merchant Center and reports.

/SECCode:

Allows overriding the default SEC code:

Value	Description
ARC	Accounts Receivable Conversion
BOC	Back Office Conversion
ICL	Image Cash Letter
POP	Point of Purchase
PPD	Prearranged Payment/Deposit
RCK	Re-Presented Check
TEL	Telephone-Initiated Entry

/TerminalCity:

Four-character abbreviated name for the city where the POS terminal is located.

/TerminalState:

Two-character state abbreviation of the state where the POS terminal is located.

/Verification:

If this parameter is present with the value 1, check verification is enabled.

/OrderID:

The Order ID associated with an existing transaction. This parameter only applies to the *Refund* and *Void* transaction types.

/TransactionID:

The Transaction ID of an existing transaction. This parameter only applies to the *Refund* and *Void* transaction types.

/Memo:

Transaction memo; 256 character maximum.

/CenterScreen:

If this parameter is present with the value 1, the dialog is shown centered on the screen rather than the default position of centering the dialog on the calling window.

/LockParameters:

If this parameter is present with the value 1, then the *Order Number* and *Amount* fields, if provided in the parameter set will be locked in the *Sale* dialog.

/ScanImmediate:

If this parameter is present with the value 1, then the Check Scan dialog is shown immediately upon launch of the form. This only applies if the transaction type is *Sale*.

/ProcessImmediate:

When this parameter is present with the value 1 and additional required parameters are given, a transaction will be executed without user interaction. This only applies if the transaction type is *Refund* or *Void*.

TransactionType	Required Parameters	Optional Parameters
Refund	OrderID, TransactionID	Amount
Void	OrderID, TransactionID	

If any required parameter is missing or invalid, the user will be presented with the standard dialog.

/SuppressAcceptedDialog:

If this parameter is present with the value 1, then the Accepted dialog which is normally shown for accepted transactions will be suppressed. Decline and Duplicate Transaction dialogs will still be shown.

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/AcceptedDialogTimeout:

This parameter causes the Accepted dialog which is normally shown for accepted transactions to be automatically dismissed after the given number of seconds.

The following named parameters specify account information:

/AccountName:

Name of the account owner (e.g., *John Q. Customer*)

/CompanyName:

Company Name (applicable when CheckingAccountType is Business).

/SignatoryFirstName:

First name of the signatory.

/SignatoryLastName:

Last name of the signatory.

/CheckingAccountType:

Identifies the checking account type:

Value	Description
Personal	Standard ACH
Business	Check Guarantee

/RoutingNumber:

Nine-digit numeric value for checking account routing or ABA number.

/AccountNumber:

Variable length numeric value for checking account number.

/CheckNumber:

Check Number.

The following named parameters apply to tokenization:

/AllowTokenization:

Specify 1 to enable tokenization. This overrides the "Allow Account on File" setting in the Configuration dialog.

/Tokenize:

Specify 1 to default the '*Store this card on file?*' option to 'Yes'.

/Token:

Numeric token supplied by Merchant Partners.

/Last4Digits:

The last four digits of the bank account number.

The following named parameters specify customer information:

/Address1:

Account owner street address (e.g., *123 Main St*).

/HouseNumber:

Account owner house number (e.g., *123*).

/Street:

Account owner street (e.g., *Main St*).

/Address2:

Account owner street address second line (e.g., *Suite 202*)

/City:

Account owner city (e.g., *Redmond*)

/State:  
Account owner state (e.g., *WA*)

/Zip:  
Account owner zip code (e.g., *98052*)

/Phone:  
Account owner phone number (e.g., *888-555-1212*)

/Email:  
Account owner email address (e.g., *john@example.com*)

/DLNumber:  
Driver license number.

/SSN:  
Social Security number.

The following named parameters apply to receipts:

/MerchantName:  
Specifies the Merchant name to be printed on the first line of the receipt.

/MerchantAddress:  
Specifies the Merchant address to be printed on the second line of the receipt.

/MerchantCityStateZip:  
Specifies the Merchant city, state and zip to be printed on the third line of the receipt.

/MerchantPhone:  
Specifies the Merchant phone number to be printed on the fourth line of the receipt.

/HideReceiptButton:  
If this parameter is present with the value 1, then the Print Receipt button normally shown on the successful transaction result dialog is hidden.

/AutoPrintReceipt:  
If this parameter is present with the value 1, then a receipt is automatically printed upon successful completion of a *Sale* transaction.

/ReceiptCopies:  
Sets the default number of copies when the user chooses to print the receipt.

/ReceiptCopies2:  
Specify 1 to attempt printing two copies of the receipt whenever the receipt is printed.

/ReceiptText:  
Specify additional text to print at the bottom of the receipt.

The following named parameters apply to CarCareONE QuickScreen:

/AutoQuickScreen:  
This parameter overrides the "Automatically QuickScreen Sales/Auths" setting in the Credit Application tab of the Configuration dialog when CarCareONE is selected as the provider. Pass 1 to perform a background CarCareONE QuickScreen when the Sale dialog is launched. A QuickScreen can only be performed if *CardholderName*, *Address1*, *City*, *State*, and *Zip* are provided. Pass 0 to bypass an automatic QuickScreen.

/ShowQuickScreenDecline:  
This parameter overrides the "Show QuickScreen Declines" setting in the Credit Application tab of the Configuration dialog when CarCareONE is selected as the provider. If an automatic CarCareONE QuickScreen is declined by the processor, sending a 1 for this parameter will show the Decline dialog. Sending a 0 for this parameter suppresses the Decline dialog.

The following named parameters apply to Recurring transactions:

/EnableRecur:

Use 1 to enable Recurring. Use 0 to disable Recurring.

/RecurCreate:

Use 1, to auto-check the *Create a recurring transaction* checkbox.

/RecurBillingCycle:

Recurring billing cycle:

Value	Description
0	No Recurring.
1	Weekly Recurring.
2	Monthly Recurring.
3	Quarterly Recurring.
4	Semi-Annual Recurring.
5	Annual Recurring.
6	Bi-Weekly Recurring.
7	Bi-Annual Recurring.
8	Quad Weekly (28 days) Recurring.
9	One Time Recurring.
10	Daily Recurring.
11	Bi-Monthly Recurring.

/RecurBillMax:

Number of recurrences.

Value	Description
-1	Unlimited number of billings.
0	No recurring billings.
> 0	Maximum number of billings.

/RecurStartDate:

Start date of recur billing in the format MM-DD-YYYY (e.g., 01-16-1975)

/RecurAmount:

Recur billing amount.

All parameters are optional and may be omitted.

Example:

/SECCode:TEL/Amount:10.25/Phone:888-555-1212

Returns:

string Result

The result of this method call is a multi-line string containing information about the transaction that was processed. Each result element is separated by a CR/LF. Not every element will be present for all transactions. Additional elements may be added in the future.

RESULT= [NONE | SUCCESS | DECLINED | ERROR]

Indicates the result of the call:

Value	Description
NONE	Indicates no transaction was performed.
SUCCESS	Indicates the transaction was successful.
DECLINED	Indicates the transaction was declined.
ERROR	Indicates an error occurred.

Note: if Auto Updates are enabled and the user assents to the Auto Update process, the value of this tag will be `NONE` and the `DETAIL` tag will contain the value *Update in progress*.

`ACCOUNT=numeric`

The last 4 digits of the bank account number that was processed.

`AMOUNT=decimal`

The amount of the transaction.

`APPROVALCODE=string`

The Authorization Code of the transaction.

`NAME=string`

The Account Holder name, if available.

`TRANSACTIONID=numeric`

The Online Merchant Center Transaction ID for the transaction.

`ORDERID=numeric`

The Online Merchant Center Order ID for the transaction.

`DETAIL=string`

For declined transactions, this value contains the processing gateway's decline reason.

If the user assents to the Auto Update process, this tag will contain the value *Update in progress*

`ACCOUNTTYPE=string`

Account type, if available (e.g., *Checking* or *Savings*).

`CHECKNUMBER=string`

Check number, if available.

`TOKEN=numeric`

For Tokenized transactions, whether creating a new tokenized account or using an existing tokenized account to perform a transaction, the value indicates the Merchant Partners token that is required for subsequent transactions against the tokenized account.

`LAST4DIGITS=numeric`

For Tokenized transactions, this value indicates the last four digits of the payment account for the tokenized account.

`ENTRYMETHOD=string`

The entry method of the transaction.

To allow easy printing of receipts, the following three lines are included in the response. Each group contains name/value pairs with a "|" (pipe) as a delimiter and a ":" (colon) as a separator between the name and value. Not all pairs will be present at all times. Additional elements may be added in the future.

`RECEIPTGROUP1=string`

This group contains account and transaction data.

Name	Description
TRANSACTIONTYPE	Indicates the type of transaction processed.
TRANSACTIONRESULT	Indicates whether the transaction was <code>APPROVED</code> or <code>DECLINED</code> .
TIMESTAMP	Timestamp of the transaction in the format <code>MM/DD/YYYY hh:mm:ss AMPM</code> (e.g., 8/20/2015 4:20:05 PM).
MERCHANTORDERNUMBER	Merchant order number (if provided).



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MERCHANTID	Merchant identifier, masked to the last four digits.
TERMID	Terminal identifier.
AMOUNT	Amount of the transaction.
ENTRYMETHOD	Entry method.
NAME	Account holder name.
ACCOUNTTYPE	Account type.
ACCOUNT	Card number, masked to the last four digits.
ORDERID	The Online Merchant Center Order ID for the transaction.
TRANSACTIONID	The Online Merchant Center Transaction ID for the transaction.
AUTHCODE	The authorization or approval code provided by the authorizing network.
DECLINECODE	If the transaction was declined, this value contains the 10-digit decline code.
DECLINEMESSAGE	For declined transactions, this value may contain a message indicating the reason for the decline.

RECEIPTGROUP2=*string*

This group is unused at this time.

RECEIPTGROUP3=*string*

This group is unused at this time.

### Example:

```

RESULT=SUCCESS
ACCOUNT=9999
AMOUNT=5.00
APPROVALCODE=EXTCK21:001123:::123456789:::
NAME=Default Name
TRANSACTIONID=123456789
ORDERID=123456777
DETAIL=Sale
ACCOUNTTYPE=Check
CHECKNUMBER=1234
ENTRYMETHOD=KEYED
RECEIPTGROUP1=TRANSACTIONTYPE:EXTCK21 | TRANSACTIONRESULT:APPROVED | TIMESTAMP:8/20/2015 4:20...
RECEIPTGROUP2=
RECEIPTGROUP3=
    
```

**string ShowSignatureCaptureDialog(string, string, short, short)**

**string ShowSignatureCaptureDialog(string)**

This method allows the user to capture a signature image from a supported signature pad. This is a local operation and does not generate a transaction. The image is returned from the method as an encoded ASCII string.

There are two versions of this method, both named `ShowSignatureCaptureDialog`. The first version is defined with a limited set of distinct parameters as described below. The second version accepts a single string as a parameter which may be composed of multiple named parameters as described for other methods in this guide (see [ShowCreditCardForm](#)); only the `/ReturnImage*`, `/SignaturePrompt`, and `/CenterScreen` parameters apply to this method.

Parameters:

string ReturnEncoding

Identifies the string representation encoding in which you would like the signature image returned. Valid values are

Value	Description
Base64	Radix-64 encoding; the base 64 digits in ascending order from zero are the uppercase characters 'A' to 'Z', the lowercase characters 'a' to 'z', the numerals '0' to '9', and the symbols '+' and '/'. The valueless character, '=', is used for trailing padding.
BinHex	Binary to Hexadecimal encoding; each byte is converted to a hexadecimal string representation.

string ImageFormat

Identifies the image format in which you would like the signature image returned. Valid values are

Value	Description
Bmp	Windows bitmap
Emf	Enhanced Windows metafile
Gif	Graphics Interchange Format
Jpeg	Joint Photographic Experts Group image format
Pcl	Printer Control Language format
Png	Portable Network Graphics image format
Tiff	Tag Image File Format
Wmf	Windows metafile

short Width

Width, in pixels, for the returned image.

short Height

Height, in pixels, for the returned image.

Returns:

`string Result`

String representation of the image based on the specified parameters, or empty if no signature image was captured.

**string ShowCFNACreditApplication(void)**

**string ShowCFNACreditApplication(string)**

This method allows the user to submit a CFNA credit application. There are two versions of this method, both named `ShowCFNACreditApplication`, that may be called with or without a parameter.

Parameters:

`string InitializationParameters`

This parameter allows you to initialize the form with a set of values. This set of values may contain zero or more parameters, each delimited by a slash (/). For each parameter, the name of the parameter must be separated from the value by a colon (:).

The following parameters are supported:

`/ATSID:`  
5-character alphanumeric value (*Acct ID*) that identifies the merchant. If omitted and the `ShowConfigDialog` method has never been called, then this method will automatically call the `ShowConfigDialog` method to collect this required information.

`/ATSSubID:`  
5-character alphanumeric value that identifies the SubID for the merchant.

`/MerchantPIN:`  
The Merchant PIN value from the Online Merchant Center (under the FRISK™ Management > Configure Options > API Controls section). If omitted and the `ShowConfigDialog` method has never been called, then this method will automatically call the `ShowConfigDialog` method to collect this required information.

`/FirstName:`  
Applicant first name.

`/MiddleInitial:`  
Applicant middle initial.

`/LastName:`  
Applicant last name.

`/Suffix:`  
Applicant name suffix.

`/DOB:`  
Applicant date of birth in the format MM-DD-YYYY (e.g., 01-16-1975).

`/SSN:`  
Applicant social security number (e.g., 555-55-5555).

`/DLNum:`  
Applicant driver license number.

`/DLState:`  
Applicant driver license state.

`/HomePhone:`  
Applicant home phone number.

`/BusinessPhone:`  
Applicant business phone number.

`/Email:`  
Applicant email address.

`/Income:`  
Applicant annual income.

`/Address1:`  
Applicant street address.

/Address2:  
     Applicant street address second line.  
 /City:  
     Applicant city.  
 /State:  
     Applicant state.  
 /Zip:  
     Applicant zip code.  
 /YearsAtAddress:  
     Applicant's number of years at current address.  
 /PreviousAddress1:  
     Applicant previous street address.  
 /PreviousAddress2:  
     Applicant previous street address second line.  
 /PreviousCity:  
     Applicant previous city.  
 /PreviousState:  
     Applicant previous state.  
 /PreviousZip:  
     Applicant previous zip code.  
 /RentOrOwn:  
     Indicates whether applicant rents or owns his/her residence.

Value	Description
R	Rent
O	Own
X	Other

/MonthlyHousingCost:  
     Monthly mortgage or rent payment.  
 /Tokenize:  
     Specify 1 to tokenize the credit application. If successful, the response will contain the `TOKEN` and `LAST4DIGITS` instead of the `CARDNUMBER`.  
 /PaperAppFormCode:  
     Paper application form code.

#### Returns:

string Result

The result of this method call is a multi-line string containing information about the application submission. Each result element is separated by a CR/LF. Not all elements are present for all transactions. Additional elements may be added in the future.

RESULT= [ *NONE* | *ACCEPTED* | *DECLINED* | *ERROR* ]  
 Indicates the result of the call:

Value	Description
NONE	Indicates the application submission was cancelled by the user.
ACCEPTED	Indicates the application was successfully submitted.
DECLINED	Indicates the application submission was declined.
ERROR	Indicates there was an error with the application submission.

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`DETAIL=string`

Provides additional detail about the `RESULT`.

`TRANSACTIONID=numeric`

The Online Merchant Center Transaction ID for the application submission.

`ORDERID=numeric`

The Online Merchant Center Order ID for the transaction.

`CONFIRMATIONNUMBER=string`

The confirmation number provided by CFNA to reference the application.

`CARDNUMBER=numeric`

If the application is approved, the 9-digit CFNA card number for the application.

`CREDITLIMIT=numeric`

If the application is approved, the credit limit for the CFNA card.

**string ShowCreditApplication(string)**

This method allows the user to submit a credit application for CarCareONE, Goodyear, Service Central, or Drive Card.

Parameters:

string InitializationParameters

This parameter allows you to initialize the form with a set of values. This set of values may contain zero or more parameters, each delimited by a slash (/). For each parameter, the name of the parameter must be separated from the value by a colon (:).

The following parameters are supported:

/ATSID:

5-character alphanumeric value (*Acct ID*) that identifies the merchant. If omitted and the `ShowConfigDialog` method has never been called, then this method will automatically call the `ShowConfigDialog` method to collect this required information.

/ATSSubID:

5-character alphanumeric value that identifies the SubID for the merchant.

/MerchantPIN:

The Merchant PIN value from the Online Merchant Center (under the FRISK™ Management > Configure Options > API Controls section). If omitted and the `ShowConfigDialog` method has never been called, then this method will automatically call the `ShowConfigDialog` method to collect this required information.

/CreditApp:

Indicates the type of credit application.

Value	Description
CFS	CFS
GEMY	CarCareONE
DRVE	Drive Card
GDYR	Goodyear
SERV	Service Central

The following parameters can be used to prepopulate the credit application form. Some parameters may not apply to all credit application providers.

/FirstName:

Applicant first name.

/MiddleName:

Applicant middle name.

/LastName:

Applicant last name.

/DOB:

Applicant date of birth in the format MM-DD-YYYY (e.g., 01-16-1975).

/SSN:

Applicant social security number (e.g., 555-55-5555).

/DLNum:

Applicant driver license number.

/DLState:

Applicant driver license state.

/DLExp:

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Applicant driver license expiration in the format MM-YYYY (e.g., 12-2015)

/PhotoID:  
Applicant photo ID number.

/PhotoIDState:  
Applicant photo ID state of issuance.

/PhotoIDExp:  
Applicant photo ID expiration in the format MM-YYYY (e.g., 12-2015)

/HomePhone:  
Applicant home/primary phone number.

/BusinessPhone:  
Applicant business phone number.

/MobilePhone:  
Applicant mobile phone number.

/Email:  
Applicant email address.

/Income:  
Applicant annual salary and wages.

/OtherIncomeAmount:  
Applicant other annual income.

/Address1:  
Applicant street address.

/Address2:  
Applicant street address second line.

/City:  
Applicant city.

/State:  
Applicant state.

/Zip:  
Applicant zip code.

/RentOrOwn:  
Indicates whether applicant rents or owns his/her residence.

Value	Description
R	Rent
O	Own
X	Other

/YearsAtAddress:  
Applicant's number of years at current address.

/TimeAtJob:  
Applicant's time at current job in YYMM format (e.g., 0006 - six months, 0100 - one year).

/MonthlyHousingCost:  
Monthly mortgage or rent payment.

/Amount:  
Requested credit limit.

/Tokenize:  
Specify 1 to tokenize the credit application. If successful, the response will contain the TOKEN and LAST4DIGITS instead of the CARDNUMBER.

The following parameters only apply to *CarCareONE*.

/JointAccount:  
Specify 1 to indicate an application for a joint account.



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/CoApp\*:

The following fields mirror those listed above but apply to the co-applicant:

CoApp**FirstName**, CoApp**MiddleName**, CoApp**LastName**, CoApp**DOB**, CoApp**SSN**,  
CoApp**DLNum**, CoApp**DLState**, CoApp**DLExp**, CoApp**PhotoID**, CoApp**PhotoIDState**,  
CoApp**PhotoIDExp**, CoApp**HomePhone**, CoApp**BusinessPhone**, CoApp**MobilePhone**,  
CoApp**Email**, CoApp**Income**, CoApp**Address1**, CoApp**Address2**, CoApp**City**, CoApp**State**,  
CoApp**Zip**, CoApp**RentOrOwn**, CoApp**YearsAtAddress**, CoApp**TimeAtJob**.

Additionally, *CarCareONE* supports the following operations:

/Action:

Specifies the action to perform.

Value	Description
QuickScreen	Check if a customer is pre-approved for a CarCareONE card.
CreditDecision	Check the status of a pending credit application.
AcceptQuickScreen	Accept a QuickScreen offer.
DeclineQuickScreen	Decline a QuickScreen offer.

For **CreditDecision**, **AcceptQuickScreen**, and **DeclineQuickScreen** an **OrderID** and **TransactionID** are required. The user is prompted for this information if not provided in the method call.

The following parameters only apply to *CFS*.

/EmployerName:

Applicant employer name.

/MonthlyIncome:

Applicant monthly income.

/VehicleYear:

Four-digit year of the vehicle.

/VehicleMake:

Make of the vehicle.

/VehicleModel:

Model of the vehicle.

/VIN:

VIN of the vehicle.

/OdometerReading:

Odometer reading of the vehicle.

Additionally, *CFS* supports the following operations:

/Action:

Specifies the action to perform.

Value	Description
ApplicationStatus	Check the status of a pending application.
UpdateRO	Update the Repair Order for a pending application.
UploadRO	Upload the final Repair Order.

**Returns:**

`string Result`

The result of this method call is a multi-line string containing information about the application submission. Each result element is separated by a CR/LF. Not all elements are present for all transactions. Additional elements may be added in the future.

`RESULT= [ NONE | ACCEPTED | DECLINED | PENDING | ERROR ]`

Indicates the result of the call:

Value	Description
NONE	Indicates the application submission was cancelled by the user.
ACCEPTED	Indicates the application was successfully submitted.
DECLINED	Indicates the application submission was declined.
PENDING	Indicates the application submission is pending (CarCareONE only).
ERROR	Indicates there was an error with the application submission.

`DETAIL=string`

Provides additional detail about the `RESULT`.

`TRANSACTIONID=numeric`

The Online Merchant Center Transaction ID for the application submission.

`ORDERID=numeric`

The Online Merchant Center Order ID for the transaction.

`CONFIRMATIONNUMBER=string`

The confirmation number provided by the credit application provider to reference the application.

`TOKEN=numeric`

If the application is approved and the `/Token:1` parameter was provided, the account is tokenized and may be referenced with this value in addition to `LAST4DIGITS`.

`LAST4DIGITS=numeric`

If the application is approved and tokenized, the account may be referenced with this value in addition to `TOKEN`.

`CARDNUMBER=numeric`

If the application is approved and the account is not tokenized, the card number for the application.

`CREDITLIMIT=numeric`

If the application is approved, the credit limit for the card.

`FIRSTNAME=string`

First name of the applicant.

`LASTNAME=string`

Last name of the applicant.

`ADDRESS1=string`

Street address of the applicant.

`ADDRESS2=string`

Second line of the street address of the applicant.

`CITY=string`

City of the applicant's address.

`STATE=string`

State of the applicant's address.

`ZIPCODE=string`

Zip code of the applicant's address.

`PHONE=string`

Applicant's phone number.

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EMAIL=*string*

Applicant's email address.

PREAPPROVALEXPDATE=YYYYMMDD

An approved CarCareONE QuickScreen can be accepted until the expiration given expiration date.

**string ShowAccountLookupDialog(string)**

This method shows the account lookup/balance inquiry dialog.

**Parameters:**

string InitializationParameters

This parameter allows you to initialize the form with a set of values and control its behavior. This set of values may contain zero or more parameters, each delimited by a slash (/). For each parameter, the name of the parameter must be separated from the value by a colon (:).

The following parameters are supported:

- /ATSID:**  
5-character alphanumeric value (*Acct ID*) that identifies the merchant. If omitted and the `ShowConfigDialog` method has never been called, then this method will automatically call the `ShowConfigDialog` method to collect this required information.
- /ATSSubID:**  
5-character alphanumeric value that identifies the SubID for the merchant.
- /MerchantPIN:**  
The Merchant PIN value from the Online Merchant Center (under the FRISK™ Management > Configure Options > API Controls section). If omitted and the `ShowConfigDialog` method has never been called, then this method will automatically call the `ShowConfigDialog` method to collect this required information.
- /SSN:**  
Social Security number. Required for account lookup.
- /Zip:**  
Cardholder zip code (e.g., *98052*). Required for account lookup.
- /CCNumber:**  
Card number. Required for balance inquiry.
- /PhotoIDType:**  
Specifies the Photo ID type. Photo ID is only required if performing an account lookup and the user chooses to perform a sale on the account. Valid values are

Value	Description
D	Driver License (default)
G	Green Card
M	Military ID
P	Passport
S	State ID Card

- /PhotoIDNumber:**  
Specifies the identification number (which may contain characters) on the Photo ID.
- /PhotoIDExpDate:**  
Specifies the Photo ID expiration date in format MM-DD-YYYY or MM-YYYY.
- /CenterScreen:**  
If this parameter is present with the value `1`, the dialog is shown centered on the screen rather than the default position of centering the dialog on the calling window.
- /CheckForUpdateInterval:**  
The number of days between checks for updates.
- /CheckForUpdates:**  
Specify `0` to disable checking for updates, or `1` to enable update checking for updates.

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/SuppressAcceptedDialog:

Specify 1 to suppress the *Accepted* dialog which is normally shown for accepted transactions. *Declined* and *Error* dialogs will still be shown.

All parameters are optional and may be omitted.

Returns:

string Result

The result of this method call is a multi-line string containing information about the action that was performed. For a balance inquiry the following fields are not returned: FIRSTNAME, LASTNAME, ADDRESS1, ADDRESS2, CITY, STATE, ZIPCODE, PHONE. Each result element is separated by a CR/LF. Not all elements are present for all transactions. Additional elements may be added in the future.

RESULT= [ *NONE* | *SUCCESS* | *DECLINED* | *ERROR* ]

Indicates the status of the call:

Value	Description
NONE	Indicates no transaction was performed.
SUCCESS	Indicates the transaction was successful.
DECLINED	Indicates the transaction was declined.
ERROR	Indicates an error occurred.

Note: if Auto Updates are enabled and the user assents to the Auto Update process, the value of this tag will be *NONE* and the *DETAIL* tag will contain the value *Update in progress*.

ACCOUNT=numeric

The last four digits of the account number (if available).

APPROVALCODE=string

The Authorization Code of the transaction.

TRANSACTIONID=numeric

The Online Merchant Center Transaction ID for the transaction.

ORDERID=numeric

The Online Merchant Center Order ID for the transaction.

DETAIL=string

For *DECLINED* and *ERROR* results, this field provides details about the failure.

ACCOUNTTYPE=string

Identifies the credit card type that was processed:

AMEX	CarCareONE	CFNA	Check
Debit	Diners Club	Discover Network	Drive Card
Fleet One	Flying J	FuelLynk	FuelMan
GE Money	Goodyear	JCB	MasterCard
MasterCard Fleet	Service Central	Visa	Visa Fleet
Voyager	WP Gift Card	Wright Express	

FIRSTNAME=string

The first name of the account holder.

LASTNAME=string

The last name of the account holder.

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ADDRESS1=*string*

The mailing address of the account holder.

ADDRESS2=*string*

The second line of the mailing address of the account holder.

CITY=*string*

The account holder's mailing address city.

STATE=*string*

The account holder's mailing address state.

ZIPCODE=*string*

The account holder's mailing address zip code.

PHONE=*string*

The account holder's phone number.

BALANCE=*numeric*

Balance of the card.

### Example:

```
RESULT=SUCCESS
ACCOUNT=5454
APPROVALCODE=ACCOUNTLOOKUP:TEST:::11111111:N::U
TRANSACTIONID=111111111
ORDERID=111111112
ACCOUNTTYPE=Goodyear
FIRSTNAME=John
LASTNAME=Rook
ADDRESS1=11121 Willows Rd NE
ADDRESS2=
CITY=Redmond
STATE=WA
ZIPCODE=98052
PHONE=(866) 242-9933
BALANCE=2200
```

**string ShowTokenLookupDialog(string)**

This method shows the tokenized account lookup dialog. A tokenized account allows a merchant to process returning customers without the need to store sensitive and confidential customer information on the merchant's system. Storing sensitive information requires secure servers in addition to various certifications. Merchant Partners is CISP (Visa's Cardholder Information Security Program) certified. Therefore, we take all precautions to ensure the customer's data is safe and eliminating the need for the merchant to run the risk of exposing their customers' sensitive data. Tokenization makes the transaction experience safer for the merchant and easier for the customer. A tokenized account is referred to as "Account on File" in the user interface.

**Parameters:**

string InitializationParameters

This parameter allows you to initialize the form with a set of values and control its behavior. This set of values may contain zero or more parameters, each delimited by a slash (/). For each parameter, the name of the parameter must be separated from the value by a colon (:).

The following parameters are supported:

/ATSID:  
5-character alphanumeric value (*Acct ID*) that identifies the merchant. If omitted and the ShowConfigDialog method has never been called, then this method will automatically call the ShowConfigDialog method to collect this required information.

/ATSSubID:  
5-character alphanumeric value that identifies the SubID for the merchant.

/MerchantPIN:  
The Merchant PIN value from the Online Merchant Center (under the FRISK™ Management > Configure Options > API Controls section). If omitted and the ShowConfigDialog method has never been called, then this method will automatically call the ShowConfigDialog method to collect this required information.

/Token:  
Numeric token supplied by Merchant Partners.

/Last4Digits:  
The last four digits of the credit card or bank account number.

**Returns:**

string Result

The result of this method call is a multi-line string containing information about the transaction that was processed. Each result element is separated by a CR/LF. Not all elements are present for all transactions. Additional elements may be added in the future.

RESULT= [NONE | SUCCESS | DECLINED | ERROR]

Indicates the status of the call:

Value	Description
NONE	Indicates no transaction was performed.
SUCCESS	Indicates the transaction was successful.
DECLINED	Indicates the transaction was declined.
ERROR	Indicates an error occurred.

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Note: if Auto Updates are enabled and the user assents to the Auto Update process, the value of this tag will be `NONE` and the `DETAIL` tag will contain the value *Update in progress*.

`ACCOUNT=numeric`

The last 4 digits of the account that was retrieved.

`APPROVALCODE=string`

The Authorization Code of the transaction.

`TOKEN=numeric`

The Token used for account retrieval.

`LAST4DIGITS=numeric`

The last 4 digits of the account that was retrieved.

`ACCOUNTTYPE=string`

Identifies the credit card type that was processed:

AMEX	CarCareONE	CFNA	Check
Debit	Diners Club	Discover Network	Drive Card
Fleet One	Flying J	FuelLynk	FuelMan
GE Money	Goodyear	JCB	MasterCard
MasterCard Fleet	Service Central	Visa	Visa Fleet
Voyager	WP Gift Card	Wright Express	

`NAME=string`

The Account Holder name, if available.

`ADDRESS1=string`

The mailing address of the account holder.

`ADDRESS2=string`

The second line of the mailing address of the account holder.

`CITY=string`

The account holder's mailing address city.

`STATE=string`

The account holder's mailing address state.

`ZIPCODE=string`

The account holder's mailing address zip code.

`PHONE=string`

The account holder's phone number.

`EMAIL=numeric`

The account holder's email address.

### Example:

```
RESULT=SUCCESS
ACCOUNT=5454
APPROVALCODE=PROFILERETRIEVE:Success:::0:::
TOKEN=1111111
LAST4DIGITS=5454
ACCOUNTTYPE=MasterCard
NAME=James Test
ADDRESS1=11121 Willows Rd NE
ADDRESS2=
CITY=Redmond
STATE=WA
ZIPCODE=98052
PHONE=(866) 242-9933
EMAIL=support@merchantpartners.com
```



**string ShowGiftCardDialog(string)**

This method shows the gift card dialog for a given action.

Parameters:

string InitializationParameters

This parameter allows you to initialize the form with a set of values and control its behavior. This set of values may contain zero or more parameters, each delimited by a slash (/). For each parameter, the name of the parameter must be separated from the value by a colon (:).

The following parameters are supported:

/ATSID:

5-character alphanumeric value (*Acct ID*) that identifies the merchant. If omitted and the `ShowConfigDialog` method has never been called, then this method will automatically call the `ShowConfigDialog` method to collect this required information.

/ATSSubID:

5-character alphanumeric value that identifies the SubID for the merchant.

/MerchantPIN:

The Merchant PIN value from the Online Merchant Center (under the FRISK™ Management > Configure Options > API Controls section). If omitted and the `ShowConfigDialog` method has never been called, then this method will automatically call the `ShowConfigDialog` method to collect this required information.

/GiftCardAction:

Identifies the gift card action to perform:

Value	Description
Issue	Issue a new gift card.
AddValue	Add value to a gift card.
BalanceInquiry	Perform a balance inquiry on a gift card.
Deactivate	Deactivate an existing gift card.

/Amount:

Dollar amount of the transaction (e.g., 1.23)

/RequireGiftCardActivationSwipe:

Specify 1 to require a swipe for Gift Card Activation/Add Value.

/CenterScreen:

If this parameter is present with the value 1, the dialog is shown centered on the screen rather than the default position of centering the dialog on the calling window.

/LockParameters:

If this parameter is present with the value 1, the *Amount* field, if provided in the parameter set, will be locked as read-only for *AddValue* and *Issue* actions.

/SwipeImmediate:

If this parameter is present with the value 1, then the Swipe dialog is shown immediately upon launch of the dialog.

/ProcessOnSwipe:

If this parameter is present with the value 1, then the transaction is processed immediately after a successful card swipe.

/SuppressAcceptedDialog:

Specify 1 to suppress the *Accepted* dialog which is normally shown for accepted transactions. *Declined* and *Duplicate Transaction* dialogs will still be shown.

/AcceptedDialogTimeout:

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This parameter causes the Accepted dialog which is normally shown for accepted transactions to be automatically dismissed after the given number of seconds (a positive integer).

### Returns:

string Result

The result of this method call is a multi-line string containing information about the transaction that was processed. Each result element is separated by a CR/LF. Not all elements are present for all transactions. Additional elements may be added in the future.

RESULT= [ *NONE* | *SUCCESS* | *DECLINED* | *ERROR* ]

Indicates the status of the call:

Value	Description
NONE	Indicates no transaction was performed.
SUCCESS	Indicates the transaction was successful.
DECLINED	Indicates the transaction was declined.
ERROR	Indicates an error occurred.

Note: if Auto Updates are enabled and the user assents to the Auto Update process, the value of this tag will be *NONE* and the *DETAIL* tag will contain the value *Update in progress*.

ACCOUNT=*numeric*

The last 4 digits of the account that was retrieved.

AMOUNT=*decimal*

The amount of the transaction.

APPROVALCODE=*string*

The Authorization Code of the transaction.

TRANSACTIONID=*numeric*

The Online Merchant Center Transaction ID for the transaction.

ORDERID=*numeric*

The Online Merchant Center Order ID for the transaction.

DETAIL=*string*

This value identifies the transaction type and any additional information about the transaction.

For declined transactions, this value contains the processing gateway's decline reason.

If the user assents to the Auto Update process, this tag will contain the value *Update in progress*.

ACCOUNTTYPE=*string*

Identifies the card type that was processed:

WP Gift Card		
--------------	--	--

TERMID=*string*

This optional tag may be included to identify the Terminal on which the transaction originated.

BALANCE=*numeric*

Balance remaining on card.

### Example:

```
RESULT=SUCCESS
ACCOUNT=3048
AMOUNT=
APPROVALCODE=SVBALINQRY:G20721:52::111111111:::
TRANSACTIONID=111111111
ORDERID=211111111
```

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DETAIL=GiftCard  
ACCOUNTTYPE=WP Gift Card  
TERMID=111111  
BALANCE=55.50

**string ShowTransactionSearchDialog(string)**

Shows the transaction search dialog.

Parameters:

`string InitializationParameters`

This parameter allows you to initialize the form with a set of values and control its behavior. This set of values may contain zero or more parameters, each delimited by a slash (/). For each parameter, the name of the parameter must be separated from the value by a colon (:).

The following parameters are supported:

`/ATSID:`

5-character alphanumeric value (*Acct ID*) that identifies the merchant. If omitted and the `ShowConfigDialog` method has never been called, then this method will automatically call the `ShowConfigDialog` method to collect this required information.

`/ATSSubID:`

5-character alphanumeric value that identifies the SubID for the merchant.

`/MerchantPIN:`

The Merchant PIN value from the Online Merchant Center (under the FRISK™ Management > Configure Options > API Controls section). If omitted and the `ShowConfigDialog` method has never been called, then this method will automatically call the `ShowConfigDialog` method to collect this required information.

`/CenterScreen:`

If this parameter is present with the value `1`, the dialog is shown centered on the screen rather than the default position of centering the dialog on the calling window.

`/ReportDate:`

If this parameter is present with the value `mmddYYYY`, the date search dialog is automatically processes the value of the date and continues to the next screen.

`/ReportActionType:`

If this parameter is present with the value `ReverseAuth`, or `Refund`, or `Void` the transaction search dialog will perform the set action type when a transaction is selected.

# Sample Code

## Visual Basic

The following example shows how to use First Mile MiddleWare in a Visual Basic project.

1. From the *Project* menu, choose *References...*
2. Place a check mark in the ATSSecurePostUILib entry and click OK
3. In your code:

```
Sub ShowCCForm()  
    Dim strParams As String  
    Dim strResult As String  
    Dim oSecurePostUI As ATSSecurePostUILib.ATSSecurePostUI  
    oSecurePostUI = New ATSSecurePostUILib.ATSSecurePostUI  
  
    ' Create your initialization parameters  
    strParams = "/Amount:1.25"  
  
    ' Show the form  
    strResult = oSecurePostUI.ShowCreditCardForm(strParams)  
  
    ' Perform actions based on result  
    Debug.Print(strResult)  
End Sub
```

## Converting Encoded Images

The following example shows how to decode a Base64 encoded image from the IMAGE parameter of the ShowCreditCardForm method.

In your VB project, add a reference to Microsoft XML, v2.6 (or later)

```
Private Function DecodeBase64(ByVal strBase64Encoded As String) As Byte()  
    Dim objXML As MSXML2.DOMDocument  
    Dim objNode As MSXML2.IXMLDOMElement  
  
    ' help from MSXML  
    Set objXML = New MSXML2.DOMDocument  
    Set objNode = objXML.createElement("b64")  
    objNode.dataType = "bin.base64"  
    objNode.Text = strBase64Encoded  
    DecodeBase64 = objNode.nodeTypeValue  
  
    Set objNode = Nothing  
    Set objXML = Nothing  
End Function  
  
Dim byteData() As Byte  
byteData = DecodeBase64(strHexEncoded)
```

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The following example shows how to decode a BinHex encoded image from the IMAGE parameter of the ShowCreditCardForm method.

```
Private Function HexStringToBytes(strHexEncoded As String) As Byte()
    HexStringToBytes = {}
    If strHexEncoded vbNullString Then
        Dim i As Integer, j As Integer
        Dim byteArr(0 To (Len(strHexEncoded) / 2) - 1) As Byte
        For i = 1 To Len(strHexEncoded) Step 2
            byteArr(j) = CByte(Conversion.Val("&H" & Mid(strHexEncoded, i, 2)))
            j = j + 1
        Next i
        HexStringToBytes = byteArr
    End If
End Function

Dim byteData() As Byte
byteData = HexStringToBytes(strHexEncoded)
```

## C#

The following example shows how to use First Mile MiddleWare in a C# .NET project.

1. From the *Project* menu, select *Add Reference...*
2. Click the *Browse* tab and browse to the location where you saved ATSSecurePostUILib.dll.
3. Click ATSSecurePostUILib.dll and then click the OK button.
4. In your code:

```
// create an ATSSecurePostUI object
ATSSecurePostUILib.ATSSecurePostUI oSecurePostUI = new ATSSecurePostUILib.ATSSecurePostUI();

// set your initialization parameters
string strParams = "";

// show the form
string strResult = oSecurePostUI.ShowCreditCardForm(strParams);

// perform actions based on the result
System.Diagnostics.Debug.WriteLine(strResult);
```

## Converting Encoded Images

The following example shows how to decode a Base64 encoded image from the IMAGE parameter of the ShowCreditCardForm method.

```
// sBase64EncodedImage is the string pulled from the IMAGE parameter of a ShowCreditCardForm result
Bitmap bmp = new Bitmap(new MemoryStream(System.Convert.FromBase64String(sBase64EncodedImage)));
```

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The following example shows how to decode a BinHex encoded image from the IMAGE parameter of the ShowCreditCardForm method.

```
byte[] HexStringToBytes(string strHexString)
{
    byte[] data = new byte[strHexString.Length / 2];
    for (int i = 0, j = 0; i < strHexString.Length; i += 2)
    {
        string strByte = strHexString.Substring(i, 2);
        data[j++] = Convert.ToByte(strByte, 16);
    }
    return data;
}

// sBinHexEncodedImage is the string pulled from the IMAGE parameter of a ShowCreditCardForm result
Bitmap bmp = new Bitmap(new MemoryStream(HexStringToBytes(strBinHexEncodedImage)));
```

## Appendix A: Fleet Card Line Item Details

Line item details are required for fleet card transactions.

Line item details are delimited by a | (pipe). Example:

*LineItem | LineItem | LineItem*

Each Line item can contain multiple Item Product Codes. Item Product Codes (IPC) are delimited by ; (semi-colon). Example:

*IPC; IPC; IPC*

Each IPC has a value that is delimited by : (colon).

A full example of two line items with multiple item product codes per line item:

*512:133;513:1.0000;518:99.0000;510:99.00|512:950;513:1.0000;518:9.4000;510:9.40*

This example describes two line items, *Repairs* for \$99 and *Tax* for \$9.40 and can be broken down by IPC as follows:

### Line Item #1

512:133      Product Code: *133 - Repairs*

513:1.0000      Quantity: *1.0000*

518:99.0000      Unit Price: *99.0000*

510:99.00      Line Item Total Cost: *99.00*

### Line Item #2

512:950      Product Code: *950 - Tax 1*

513:1.0000      Quantity: *1.0000*

518:9.4000      Unit Price: *9.4000*

510:9.40      Line Item Total Cost: *9.40*

Item Product Code	Description	Data Type	Length
508	Item Description	AN	Variable
510	Line Item Total Cost; 9(6)v99	N	8
512	Product Code (See <a href="#">Appendix B</a> )	N	3
513	Quantity/Num Units; 9(3)v9999	N	7
514	Service Code/Level (See <a href="#">Appendix C</a> )	AN	1
513	Quantity/Num Units; 9(3)v9999	N	7
518	Unit Cost/Price; 9(6)v9999	N	10
519	Unit of Measure (See <a href="#">Appendix D</a> )	AN	1
522	Discount Rate; 9(6)v99	N	8



## Appendix B: Product Codes

Product Code	Description
<b>Fuels</b>	
001	Unleaded Regular
002	Unleaded Plus
003	Unleaded Super
004	Unleaded 4
005	Unleaded 5
006	Unleaded Methanol (5.7%)
007	Unleaded Plus Methanol (5.7%)
008	Super Unleaded Methanol (5.7% blend)
009	Unleaded Methanol (7.7%)
010	Unleaded Plus Methanol (7.7% blend)
011	Unleaded Ethanol (5.7%)
012	Unleaded Plus Ethanol (5.7%)
013	Super Unleaded Ethanol (5.7%)
014	Unleaded Ethanol (7.7%)
015	Unleaded Plus Ethanol (7.7%)
016	Methanol / Leaded
017	Ethanol / Leaded
018	Leaded
019	Regular Diesel #2
020	Premium Diesel #2
021	Diesel #1
022	Compressed Natural Gas
023	Liquid Propane Gas
024	Liquid Natural Gas
025	M-85
026	E-85
027	Unleaded / Reformulated 1
028	Unleaded / Reformulated 2
029	Unleaded / Reformulated 3
030	Unleaded / Reformulated 4
031	Unleaded / Reformulated 5
032	Diesel Off-Road (# 1 and #2 Non-Taxable)
033	Ultra Low Sulfur Diesel Off-Road (Non-Taxable)
034	Biodiesel Blend Off-Road (Non-Taxable)
035	Ultra Low Sulfur Biodiesel Off-Road (Non-Taxable)
036	Racing Fuel

037	Super Unleaded Methanol (7.7%)
038	Unleaded Methanol (10%)
039	Unleaded Plus Methanol (10%)
040	Dyed Diesel
Product Code	Description
041	Super Unleaded Methanol (10%)
045	B2 Diesel Blend 2% Biodiesel
046	B5 Diesel Blend 5% Biodiesel
047	B10 Diesel Blend 10% Biodiesel
048	B11 Diesel Blend 11% Biodiesel
049	B15 Diesel Blend 15% Biodiesel
050	B20 Diesel Blend 20% Biodiesel
051	B100 Diesel Blend 100% Biodiesel
052	Ultra Low Sulfur #1
053	Ultra Low Sulfur #2
054	Ultra Low Sulfur Premium Diesel #2
055	Ultra Low Sulfur Biodiesel Blend 2%
056	Ultra Low Sulfur Biodiesel Blend 5%
057	Ultra Low Sulfur Biodiesel Blend 10%
058	Ultra Low Sulfur Biodiesel Blend 11%
059	Ultra Low Sulfur Biodiesel Blend 15%
060	Ultra Low Sulfur Biodiesel Blend 20%
061	Ultra Low Sulfur Biodiesel Blend 100%
099	Miscellaneous Fuel
Auto Products / Services	
100	General Merchandise
101	Motor Oil
102	Car Wash
103	Oil Change
104	Oil Filter
105	Work Order
106	Anti-Freeze
107	Washer Fluid
108	Brake Fluid
109	Tires
110	Federal Excise Tax / Tires
111	Tire Rotation
112	Batteries
113	Lube
114	Inspection

115	Labor
116	Towing
117	Road Service
118	Auto Accessories
119	Auto Parts
120	Preventive Maintenance
121	Air Conditioning Service
122	Engine Service
Product Code	Description
123	Transmission Service
124	Brake Service
125	Exhaust Service
126	Body Work
127	Automotive Glass
128	Synthetic Oil
129	Lamps
130	Wipers
131	Hoses
132	Tire-related (Wheel Balance, Valve Stem)
133	Repairs
134	Service Package
135	Automotive Parking
136	Truck Tank Cleaning
137	Other Lubricants
138	Automotive Fuel Additives/Treatment (injected)
149	Miscellaneous Part/Services
Aviation Fuels	
150	Jet Fuel
151	Aviation Fuel Regular
152	Aviation Fuel Premium
153	Aviation Fuel JP8
154	Aviation Fuel 4
155	Aviation Fuel 5
199	Miscellaneous
Aviation Products / Services	
200	Storage
201	Aircraft Ground Handling
202	Aircraft Ground Power Unit
203	Aircraft Labor
204	Aircraft Work Order

205	Aircraft Maintenance
206	Aircraft Service
207	Transportation
208	De-icing
209	Ramp Fees
210	Catering
211	Hangar Fee
212	Landing Fee
213	Call Out Fee
214	Aircraft Rental
215	Instruction Fee
216	Flight Plans/ Weather Brief
<b>Product Code</b>	<b>Description</b>
217	Charter Fee
218	Communication Fee
219	Aircraft Cleaning
220	Cargo Handling
221	Aircraft Accessories
222	Pilot Supplies
223	Aircraft Parking Fee
224	Aircraft Tiedown Fees
225	Aircraft Sanitation Fees
226	Aircraft Fuel Additive
249	Miscellaneous Aviation
<b>Marine Products / Services</b>	
300	Marine Services
301	Marine Labor
302	Marine Work Order
303	Launch Fee
304	Slip Rental
349	Miscellaneous Marine Service
<b>Other Fuels</b>	
350	Kerosene - Low Sulfur
351	White Gas
352	Heating Oil
353	Bottled Propane
354	Other Fuel / Non-taxable
355	Kerosene - Ultra Low Sulfur
356	Kerosene -Low Sulfur (Non-Taxable)
357	Kerosene -Ultra Low Sulfur (Non-Taxable)

449	Miscellaneous / Other Fuel
<b>Merchandise</b>	
450	General Merchandise
451	Cigarettes
452	Tobacco - Other
453	Pkg Bvgs / Non-alcoholic
454	Hot Dispensed Bvgs
455	Cold Dispensed Bvgs
456	Frozen dispensed Bvgs
457	Other Beverages
458	Ice
459	Packaged Ice Cream
460	Salty Snacks
461	Alternative Snacks
462	Sweet Snacks
463	Candy
<b>Product Code</b>	<b>Description</b>
464	Fluid Milk Product
465	Other Dairy
466	Juice
467	Edible Groceries
468	Non-edible Groceries
469	Perishable Groceries
470	Publications
473	Healthy/Beauty Care
474	Beer (Alcoholic)
475	Beer (Non-alcoholic)
476	Wine
477	Liquor
478	Deli Sandwiches
479	Prepared Food
480	Deli Items
481	Food Service
482	Lottery (Instant)
483	Lottery (Online)
484	Lottery (Other)
485	General
486	Vendor Payment
487	Payroll Check
488	Gift Certificate

489	Refund Check
490	Official Check
491	Rebate Check
492	Dividend Check
493	Utility Check
503	Store Services
504	Home Delivery
505	Prepaid Cards- Purchase
506	Prepaid Cards-Activation
507	Membership/Loyalty
<b>Negative Transactions</b>	
900	Discount 1
901	Discount 2
902	Discount 3
903	Discount 4
904	Discount 5
905	Coupon 1
906	Coupon 2
907	Coupon 3
908	Coupon 4
<b>Product Code</b>	<b>Description</b>
909	Coupon 5
910	Lotto Payout (Instant)
911	Lotto Payout (Online)
912	Lotto Payout (Other)
913	Split Tender
914	Tax Discount/Forgiven
949	Miscellaneous Negative
<b>Administrative</b>	
950	Tax 1
951	Tax 2
952	Tax 3
953	Tax 4
954	Tax 5
955	Cash back
956	Cash back Fee
957	Fee 1
958	Fee 2
959	Fee 3
960	Fee 4

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961	Fee 5
962	Miscellaneous Aviation Tax

## Appendix C: Fleet Card Service Codes

Value	Description
F	Full Service
S	Self Service
N	Mini Serve
X	Maxi Serve
O	Other or Non-Fuel



## Appendix D: Measurement Codes

Value	Description
C	Case/Carton
G	Gallons
K	Kilograms
L	Liters
P	Pounds
Q	Quarts
U	Units
Z	Ounces
X	Undefined