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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

Phone: (866) 242-9933

Documentation

Web Site URL: https://www.onlinemerchantcenter.com/mpartners/html/user_manuels.html
**First Mile™ MiddleWare Reference**

First Mile MiddleWare exposes a single object, `ATSSecurePostUI`. This object provides methods for presenting a graphical user interface that allows users to interactively process transactions. Transaction data is transferred over a secure HTTP (TLS) connection using the capabilities provided by the .NET framework. First Mile MiddleWare supports several card readers via plug-in modules to provide card swipe and EMV functionality. Additional plug-in modules provide check scanning and 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:

```bash
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:

```bash
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.
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 = "/AcctID: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:

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

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=489042f25227985f58282f9a947814e
**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.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>true</td>
<td>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.</td>
</tr>
<tr>
<td>false</td>
<td>Do not launch the installation process, even if updates are available, but instead return information about all available updates.</td>
</tr>
</tbody>
</table>

**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.

```plaintext
[UPDATING|UPDATE|CURRENT|ERROR]
```

Identifies the result of the call:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPDATING</td>
<td>Indicates updates are available and being installed.</td>
</tr>
<tr>
<td>UPDATE</td>
<td>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 UPDATE lines.</td>
</tr>
<tr>
<td>CURRENT</td>
<td>Indicates the installed version is current.</td>
</tr>
<tr>
<td>ERROR</td>
<td>Indicates an error in retrieving the information from the server.</td>
</tr>
</tbody>
</table>

**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.
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 sections in the dialog:

/HideGeneral:  
    Hides the *Account*, *Startup*, *Transaction Options*, and *Transaction Type* sections when a value of 1 is given.

/HideAccount:  
    Hides the *Account* section when a value of 1 is given.

/HideReceipt:  
    Hides the *Receipt* section when a value of 1 is given.

/HideStartup:  
    Hides the *Startup* section when a value of 1 is given.

/HideTransactionOptions:  
    Hides the *Transaction Options* section when a value of 1 is given.

/HideTransactionTypes:  
    Hides the *Transaction Types* section when a value of 1 is given.

/HidePrivateLabelCards:  
    Hides the *Private Label Cards* section when a value of 1 is given.

/HideCreditApplication: may also be used.

/HideVerification:  
    Hides the *Verification* section when a value of 1 is given.
/HideHardware:
  Hides the Hardware section when a value of 1 is given.
/HideSignaturePad:
  Hides the Signature Pad section when a value of 1 is given.
/HideACH:
  Hides the ACH section when a value of 1 is given.
/HideCheckScanner:
  Hides the Check Scanner section when a value of 1 is given.
/HideUpdates:
  Hides the Updates section when a value of 1 is given.
/HideAutoUpdate: may also be used.

The following named parameters apply to the Account section:

/AtcID:
  5-character alphanumeric value that identifies the merchant.
  (/ATSID: may also be used.)
/SubID:
  5-character alphanumeric value that identifies the Sub ID for the merchant.
  (/ATSSubID: may also be used.)
/MerchantPIN:
  The Merchant PIN value from the Online Merchant Center (under the FRISK™ Management > Configure Options > API Controls section).
/TripleDesKey:
  The 3DES Key from the Online Merchant Center (under the FRISK™ Management > Configure Options > Account Number 3DES Encryption).
/SoapReportingKey:
  The SOAP Reporting Key value from the Online Merchant Center (under the FRISK™ Management > Configure Options > SOAP Reporting Service Account Key section).
/MerchantIndustry:
  This parameter identifies the merchant industry which may have built-in business rules. Valid values are

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Auto Rental</td>
</tr>
<tr>
<td>D</td>
<td>Direct Marketing</td>
</tr>
<tr>
<td>E</td>
<td>E-Commerce</td>
</tr>
<tr>
<td>F</td>
<td>Food/Restaurant</td>
</tr>
<tr>
<td>H</td>
<td>Hotel/Lodging</td>
</tr>
<tr>
<td>L</td>
<td>Loan Repayment</td>
</tr>
<tr>
<td>O</td>
<td>Oil/Fueling</td>
</tr>
<tr>
<td>R</td>
<td>Retail</td>
</tr>
</tbody>
</table>

The following named parameters apply to the Receipt section:

/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.
/ReceiptText:
  Specifies additional text to print on receipts.
/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.

The following named parameters apply to the Startup section:

/PromptForPaymentMethod:
  If this parameter is present with the value 1, then the Prompt for Credit Card or Check on Sales
  checkbox is checked.
/WarnOnPreAuth:
  If this parameter is present with the value 1, then the Warn on Pre-Auth checkbox is checked.
/HideAddressGroup:
  If this parameter is present with the value 1, then the Hide Address checkbox is checked.
/HideIdGroup:
  If this parameter is present with the value 1, then the Hide Identification checkbox is checked.
/HideVacGroup:
  If this parameter is present with the value 1, then the Hide Voice Auth Capture checkbox is
  checked.
/DisableKeyedMasking:
  If this parameter is present with the value 1, then the Disable Keyed Card Number Masking
  checkbox is checked.

The following named parameters apply to the Transaction Options section:

/SwipeImmediate:
  If this parameter is present with the value 1, then the Immediately Swipe checkbox is checked.
/ProcessOnSwipe:
  If this parameter is present with the value 1, then the Process on Swipe checkbox is checked.
/TaxRequired:
  If this parameter is present with the value 1, then the Require Tax checkbox is checked.
/DisableCashback:
  If this parameter is present with the value 1, then the Disable Cashback checkbox is checked.
/EnableP3:
  If this parameter is present with the value 1, then the Enable Purchase Card Level III checkbox is
  checked.
/SuppressAcceptedDialog:
  If this parameter is present with the value 1, then the Suppress Accepted checkbox is checked.
/AllowTokenization:
  If this parameter is present with the value 1, then the Enable Account on File checkbox is
  checked.
/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.
The following named parameters apply to the Transaction Types section:

/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 Health Care Transactions checkbox is checked.

/EnableRecur:
   If this parameter is present with the value 1, then the Enable Recurring Transactions checkbox is checked.

The following named parameters apply to the Private Label Cards section:

/AllowAccountLookup:
   If this parameter is present with the value 1, then the Enable Account Lookup checkbox is checked.

/DisableTerms12:
   If this parameter is present with the value 1, then the Disable 12 Months No Interest checkbox is checked.

/ConfirmTerms12:
   If this parameter is present with the value 1, then the Prompt 12 Months No Interest Confirmation checkbox is checked.

/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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEMY</td>
<td>CarCareONE</td>
</tr>
<tr>
<td>CFNA</td>
<td>CFNA</td>
</tr>
<tr>
<td>DRIVE</td>
<td>Drive Card</td>
</tr>
<tr>
<td>GDYR</td>
<td>Goodyear</td>
</tr>
<tr>
<td>SERV</td>
<td>Service Central</td>
</tr>
</tbody>
</table>

/CreditAppPopupAmount:
   Specifies the Trigger Amount at which the credit application popup will be displayed.

/CreditAppAssociateIdRequired:
   If this parameter is present with the value 1, then the Require Associate ID checkbox is checked.

/AlwaysUseCreditAppSelector:
   If this parameter is present with the value 1, then the Always Use Credit App Select checkbox is checked.

/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.

The following named parameters apply to the Fraud/Risk section:

/EnableCvvOverride:
If this parameter is present with the value 1, then the CVV2 Enable Override defaults to On.

/EnableAvsOverride:
If this parameter is present with the value 1, then the AVS Enable Override defaults to On.

/AvsLevel:
This parameter identifies the selected AVS level:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Only Address Must Match</td>
</tr>
<tr>
<td>2</td>
<td>Only Postal Code Must Match</td>
</tr>
<tr>
<td>3</td>
<td>Only 9-Digit Postal Code Must Match</td>
</tr>
<tr>
<td>4</td>
<td>Either Address or Postal Code Must Match</td>
</tr>
<tr>
<td>5</td>
<td>Either Address or 9-Digit Postal Code Must Match</td>
</tr>
<tr>
<td>6</td>
<td>Address and 5-Digit Postal Code Must Match</td>
</tr>
<tr>
<td>7</td>
<td>Address and 9-Digit Postal Code Must Match</td>
</tr>
</tbody>
</table>

/AvsCvvOverrideMinutes:
This parameter identifies the AVS/CVV2 override timeout. Valid values are 1-5. The default value is 3.

/AvsCvvForceVoid:
If this parameter is present with the value 1, then the Force Void on CVV2/AVS Failure defaults to On.

The following named parameters apply to the Signature Pad section:

/RequireSignature:
If this parameter is present with the value 1, then the Always Require Signature checkbox is checked.

The following named parameters apply to the ACH section:

/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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACH</td>
<td>Standard ACH</td>
</tr>
<tr>
<td>ExtACH</td>
<td>Extended ACH</td>
</tr>
<tr>
<td>Check21</td>
<td>Check21</td>
</tr>
</tbody>
</table>
Check Guarantee

Paper Guarantee

/SECCode:
Default SEC code:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC</td>
<td>Accounts Receivable Conversion</td>
</tr>
<tr>
<td>BOC</td>
<td>Back Office Conversion</td>
</tr>
<tr>
<td>ICL</td>
<td>Image Cash Letter</td>
</tr>
<tr>
<td>POP</td>
<td>Point of Purchase</td>
</tr>
<tr>
<td>PPD</td>
<td>Prearranged Payment/Deposit</td>
</tr>
<tr>
<td>RCK</td>
<td>Re-Presented Check</td>
</tr>
<tr>
<td>TEL</td>
<td>Telephone-Initiated Entry</td>
</tr>
</tbody>
</table>

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

The following named parameters apply to the Updates section:

/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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>IsSigPadAvailable</td>
<td>Indicates whether a signature pad is available.</td>
<td>Returns YES if a signature pad is available, NO otherwise.</td>
</tr>
</tbody>
</table>

Example:

/AcctID: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:

/AcctID: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:

/AcctID:
   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. (/ATSID: may also be used.)

/SubID:
   5-character alphanumeric value that identifies the SubID for the merchant. (/ATSSubID: may also be used.)

/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:

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

/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. (/Receipt: may also be used.)
/RefCode:  RefCode captured from a pre-authorization transaction. This parameter only applies to the PostAuth transaction type.

/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:  Transaction memo; 256 character maximum.  
(/Clerk:  may also be used)

/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.

<table>
<thead>
<tr>
<th>TransactionType</th>
<th>Required Parameters</th>
<th>Optional Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>AuthReversal</td>
<td>OrderID, TransactionID</td>
<td></td>
</tr>
<tr>
<td>PostAuth</td>
<td>Amount, RefCode</td>
<td></td>
</tr>
<tr>
<td>Refund</td>
<td>OrderID, TransactionID</td>
<td>Amount</td>
</tr>
<tr>
<td>Void</td>
<td>OrderID, TransactionID</td>
<td></td>
</tr>
</tbody>
</table>

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.

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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.

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

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.

Specify 1 to disable cashback for PIN debit transactions.

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

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

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

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

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

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

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

The number of days between checks for updates.

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

Name of station associated with the transaction.

ISV User associated with the transaction.

Specify 1 to receive the RECIPTGROUP response elements. The RECIPTGROUP 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.

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

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.

Specify 1 to warn the user that they are performing an Authorization instead of a Sale. This only applies if TransactionType is PreAuth.

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

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFNA</td>
<td>Use the CFNA Credit Application</td>
</tr>
<tr>
<td>DRIVE</td>
<td>Use the Drive Card Credit Application</td>
</tr>
<tr>
<td>Drive Card</td>
<td></td>
</tr>
<tr>
<td>GDYR</td>
<td>Use the Goodyear Credit Application</td>
</tr>
<tr>
<td>Goodyear</td>
<td></td>
</tr>
<tr>
<td>SERV</td>
<td>Use the Service Central Credit Application</td>
</tr>
<tr>
<td>Service Central</td>
<td></td>
</tr>
<tr>
<td>GEMY</td>
<td>Use the CarCareONE Credit Application</td>
</tr>
<tr>
<td>CarCareONE</td>
<td></td>
</tr>
</tbody>
</table>

/IncludeCreditAppResult:
  Specify 1 to include the credit application response in the results.
  The following additional elements may be included in the transaction result:
  APPDETAIL, 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:
  Full name of the card holder (e.g., John Q. Customer)
  (/CardholderName: may also be used)
/Address1:  
  Cardholder street address (e.g., 123 Main St)  
  ([Address]: may also be used.)
/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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>Driver License (default)</td>
</tr>
<tr>
<td>G</td>
<td>Green Card</td>
</tr>
<tr>
<td>M</td>
<td>Military ID</td>
</tr>
<tr>
<td>P</td>
<td>Passport</td>
</tr>
<tr>
<td>S</td>
<td>State ID Card</td>
</tr>
</tbody>
</table>

/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.
The following named parameters apply to the signature image:

/RequireSignature:
  Specify 1 to require a signature regardless of the transaction type. This overrides SignatureOptional.
/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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base64</td>
<td>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.</td>
</tr>
<tr>
<td>BinHex</td>
<td>Binary to Hexadecimal encoding; each byte is converted to a hexadecimal string representation.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bmp</td>
<td>Windows bitmap</td>
</tr>
<tr>
<td>Emf</td>
<td>Enhanced Windows metafile</td>
</tr>
<tr>
<td>Gif</td>
<td>Graphics Interchange Format</td>
</tr>
<tr>
<td>Jpeg</td>
<td>Joint Photographic Experts Group image format</td>
</tr>
<tr>
<td>Pcl</td>
<td>Printer Control Language format</td>
</tr>
<tr>
<td>Png</td>
<td>Portable Network Graphics image format</td>
</tr>
<tr>
<td>Tiff</td>
<td>Tag Image File Format</td>
</tr>
<tr>
<td>Wmf</td>
<td>Windows metafile</td>
</tr>
</tbody>
</table>

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 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 Private Label Cards section 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 Private Label Cards section 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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
<td>Revolve Sale</td>
</tr>
<tr>
<td>0060</td>
<td>6 Months No Interest</td>
</tr>
<tr>
<td>0012</td>
<td>12 Months No Interest</td>
</tr>
</tbody>
</table>

Page 19
/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.

/ConfirmTerms12:
Specify 1 to prompt for confirmation whenever 12 Months No Interest is chosen for terms/promo code.

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.

/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.
<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EBT</td>
<td>Select the <em>EBT</em> option.</td>
</tr>
<tr>
<td>EBT_CashBenefitSale</td>
<td>Select the <em>EBT</em> option and <em>Cash Benefits Purchase</em> item.</td>
</tr>
<tr>
<td>EBT_FoodStampSale</td>
<td>Select the <em>EBT</em> option and <em>Food Stamp Purchase</em> item.</td>
</tr>
<tr>
<td>EBT_FoodStampVoucherSale</td>
<td>Select the <em>EBT</em> option and <em>Food Stamp Voucher Sale</em> item.</td>
</tr>
<tr>
<td>EBT_CashBenefitWithdrawal</td>
<td>Select the <em>EBT</em> option and <em>Cash Benefit Withdrawal</em> item.</td>
</tr>
<tr>
<td>EBT_BalanceInquiry</td>
<td>Select the <em>EBT</em> option, the <em>Balance Inquiry</em> item, and select <em>Balance Inquiry</em> in the EBT Balance Inquiry group.</td>
</tr>
<tr>
<td>EBT_CashBenefitBalanceInquiry</td>
<td>Select the <em>EBT</em> option, <em>Balance Inquiry</em> item, and select <em>Cash Benefit Balance</em> in the EBT Balance Inquiry group.</td>
</tr>
<tr>
<td>EBT_FoodStampBalanceInquiry</td>
<td>Select the <em>EBT</em> option, <em>Balance Inquiry</em> item, and select <em>Food Stamp Balance</em> in the EBT Balance Inquiry group.</td>
</tr>
<tr>
<td>EBT_FoodStampReturn</td>
<td>Check the <em>EBT Return</em> checkbox and select <em>Food Stamp</em> option from the <em>EBT Refund</em> selection on the Return/Credit dialog.</td>
</tr>
<tr>
<td>EBT_CashBenefitReturn</td>
<td>Check the <em>EBT Return</em> checkbox and select <em>Cash Benefit</em> option from the <em>EBT Refund</em> selection on the Return/Credit dialog.</td>
</tr>
</tbody>
</table>

*/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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No Recurring.</td>
</tr>
<tr>
<td>1</td>
<td>Weekly Recurring.</td>
</tr>
<tr>
<td>2</td>
<td>Monthly Recurring.</td>
</tr>
<tr>
<td>3</td>
<td>Quarterly Recurring.</td>
</tr>
<tr>
<td>4</td>
<td>Semi-Annual Recurring.</td>
</tr>
<tr>
<td>5</td>
<td>Annual Recurring.</td>
</tr>
<tr>
<td>6</td>
<td>Bi-Weekly Recurring.</td>
</tr>
<tr>
<td>7</td>
<td>Bi-Annual Recurring.</td>
</tr>
<tr>
<td>8</td>
<td>Quad Weekly (28 days) Recurring.</td>
</tr>
<tr>
<td>9</td>
<td>One Time Recurring.</td>
</tr>
<tr>
<td>10</td>
<td>Daily Recurring.</td>
</tr>
<tr>
<td>11</td>
<td>Bi-Monthly Recurring.</td>
</tr>
</tbody>
</table>

/RecurBillMax:
Number of recurrences.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1</td>
<td>Unlimited number of billings.</td>
</tr>
<tr>
<td>0</td>
<td>No recurring billings.</td>
</tr>
<tr>
<td>&gt; 0</td>
<td>Maximum number of billings.</td>
</tr>
</tbody>
</table>

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

/RecurAmount:
Recur billing amount.

The following named parameters apply to CVV2 and AVS verification:

/EnableCvvOverride:
A value of 1 indicates CVV2 verification failures approved by the gateway should be voided unless an override PIN is entered.

/EnableAvsOverride:
A value of 1 indicates AVS verification failures approved by the gateway should be voided unless an override PIN is entered.

/AvsLevel:
This parameter identifies the selected AVS level:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Only Address Must Match</td>
</tr>
<tr>
<td></td>
<td>Description</td>
</tr>
<tr>
<td>---</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>2</td>
<td>Only Postal Code Must Match</td>
</tr>
<tr>
<td>3</td>
<td>Only 9-Digit Postal Code Must Match</td>
</tr>
<tr>
<td>4</td>
<td>Either Address or Postal Code Must Match</td>
</tr>
<tr>
<td>5</td>
<td>Either Address or 9-Digit Postal Code Must Match</td>
</tr>
<tr>
<td>6</td>
<td>Address and 5-Digit Postal Code Must Match</td>
</tr>
<tr>
<td>7</td>
<td>Address and 9-Digit Postal Code Must Match</td>
</tr>
</tbody>
</table>

**/AvsCvvOverrideMinutes:**
This parameter identifies the AVS/CVV2 override timeout. Valid values are 1-5. The default value is 3.

**/AvsCvvForceVoid:**
A value of 1 forces transactions that fail CVV2 or AVS verification to be voided without prompting for an override PIN.

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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>Indicates no transaction was performed.</td>
</tr>
<tr>
<td>SUCCESS</td>
<td>Indicates the transaction was successful.</td>
</tr>
<tr>
<td>DECLINED</td>
<td>Indicates the transaction was declined.</td>
</tr>
<tr>
<td>ERROR</td>
<td>Indicates an error occurred.</td>
</tr>
</tbody>
</table>

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.

**EXPIRATION=MM/YYYY**
The expiration date of the credit card that was processed.

**APPROVALCODE=string**

**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:

<table>
<thead>
<tr>
<th>TransactionType</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sale</td>
<td>No additional information is provided.</td>
</tr>
<tr>
<td>PreAuth</td>
<td>The pre-authorization RefCode is provided.</td>
</tr>
<tr>
<td>AuthReversal</td>
<td>No additional information is provided.</td>
</tr>
<tr>
<td>PostAuth</td>
<td>The pre-authorization RefCode that was used for the post-authorization is provided.</td>
</tr>
<tr>
<td>VAC</td>
<td>The Voice Authorization Capture Code that was included with the transaction is provided.</td>
</tr>
<tr>
<td>Refund</td>
<td>No additional information is provided.</td>
</tr>
<tr>
<td>Void</td>
<td>No additional information is provided.</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Account Type</th>
<th>AMEX</th>
<th>Debit</th>
<th>Fleet One</th>
<th>GE Money</th>
<th>MasterCard</th>
<th>Visa Fleet</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CarCareONE</td>
<td></td>
<td>Flying J</td>
<td>Goodyear</td>
<td>MasterCard Fleet</td>
<td>Voyager</td>
</tr>
<tr>
<td></td>
<td>CFNA</td>
<td></td>
<td>FuelLynk</td>
<td>JCB</td>
<td>Service Central</td>
<td>WP Gift Card</td>
</tr>
<tr>
<td></td>
<td>Check</td>
<td></td>
<td>FuelMan</td>
<td>Loan</td>
<td>Visa</td>
<td>Wright Express</td>
</tr>
</tbody>
</table>

PARTIAL_APPROVAL=I
   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).

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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRANSACTIONTYPE</td>
<td>Indicates the type of transaction processed: SALE, AVSSALE, AUTH, AVSAUTH, POST, AVSPOST, VOICEPOST, VOID, CREDIT</td>
</tr>
<tr>
<td>TRANSACTIONRESULT</td>
<td></td>
</tr>
</tbody>
</table>
Indicates whether the transaction was **APPROVED** or **DECLINED**.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIMESTAMP</td>
<td>Timestamp of the transaction in the format <strong>MM/DD/YYYY hh:mm:ss AM/PM</strong> (e.g., 8/20/2015 4:20:05 PM).</td>
</tr>
<tr>
<td>MERCHANTORDERNUMBER</td>
<td>Merchant order number (if provided).</td>
</tr>
<tr>
<td>MERCHANTID</td>
<td>Merchant identifier, masked to the last four digits.</td>
</tr>
<tr>
<td>TERMDID</td>
<td>Terminal identifier.</td>
</tr>
<tr>
<td>AMOUNT</td>
<td>Amount of the transaction.</td>
</tr>
<tr>
<td>CASHBACK</td>
<td>Cashback amount.</td>
</tr>
<tr>
<td>ENTRYMETHOD</td>
<td>Entry method: SWIPED, KEYED, EMV CONTACT, EMV CONTACTLESS, FALBACK SWIPE, FALBACK KEYED, RFID Note: EMV Contactless is not supported at this time.</td>
</tr>
<tr>
<td>NAME</td>
<td>Cardholder name.</td>
</tr>
<tr>
<td>ACCOUNTTYPE</td>
<td>Payment type. See the ACCOUNTTYPE element above for valid values.</td>
</tr>
<tr>
<td>ACCOUNT</td>
<td>Card number, masked to the last four digits.</td>
</tr>
<tr>
<td>ORDERID</td>
<td>The Online Merchant Center Order ID for the transaction.</td>
</tr>
<tr>
<td>TRANSACTIONID</td>
<td>The Online Merchant Center Transaction ID for the transaction.</td>
</tr>
<tr>
<td>AUTHCODE</td>
<td>The authorization or approval code provided by the authorizing network.</td>
</tr>
<tr>
<td>DECLINECODE</td>
<td>If the transaction was declined, this value contains the 10-digit decline code.</td>
</tr>
<tr>
<td>DECLINEMESSAGE</td>
<td>For declined transactions, this value may contain a message indicating the reason for the decline.</td>
</tr>
<tr>
<td>BATCHNUMBER</td>
<td>Batch settlement number in which this transaction is included.</td>
</tr>
<tr>
<td>AVSRESULT</td>
<td>Result code generated by the Address Verification System.</td>
</tr>
<tr>
<td>CVV2RESULT</td>
<td>One character result code generated by the CVV2/CVC2 system.</td>
</tr>
<tr>
<td>ODOMETERREADING</td>
<td>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.</td>
</tr>
<tr>
<td>VEHICLEID</td>
<td>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.</td>
</tr>
<tr>
<td>PURCHASEDEVSEQUENCENUMBER</td>
<td>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.</td>
</tr>
<tr>
<td>BALANCE</td>
<td>Balance remaining on card (not supported for all card types).</td>
</tr>
</tbody>
</table>

**RECEIPTGROUP2=string**

This group contains EMV receipt data.
### RECEIPTGROUP3=string

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

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

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:**

```plaintext
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:

/AcctID:
  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. (/ATSID: may also be used.)

/SubID:
  5-character alphanumeric value that identifies the SubID for the merchant. (/ATSSubID: may also be used.)

/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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sale</td>
<td>Perform a Sale.</td>
</tr>
<tr>
<td>Refund</td>
<td>Perform a refund of a previous transaction.</td>
</tr>
<tr>
<td>Void</td>
<td>Perform a void of a previous transaction.</td>
</tr>
</tbody>
</table>

/ACHMethod:
  Override the default ACH method:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACH</td>
<td>Standard ACH</td>
</tr>
<tr>
<td>ExtACH</td>
<td>Extended ACH</td>
</tr>
<tr>
<td>Check21</td>
<td>Check21</td>
</tr>
<tr>
<td>CheckGuarantee</td>
<td>Check Guarantee</td>
</tr>
</tbody>
</table>

/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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC</td>
<td>Accounts Receivable Conversion</td>
</tr>
<tr>
<td>BOC</td>
<td>Back Office Conversion</td>
</tr>
<tr>
<td>ICL</td>
<td>Image Cash Letter</td>
</tr>
<tr>
<td>POP</td>
<td>Point of Purchase</td>
</tr>
<tr>
<td>PPD</td>
<td>Prearranged Payment/Deposit</td>
</tr>
<tr>
<td>RCK</td>
<td>Re-Presented Check</td>
</tr>
<tr>
<td>TEL</td>
<td>Telephone-Initiated Entry</td>
</tr>
</tbody>
</table>

/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.

<table>
<thead>
<tr>
<th>TransactionType</th>
<th>Required Parameters</th>
<th>Optional Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refund</td>
<td>OrderID, TransactionID</td>
<td>Amount</td>
</tr>
<tr>
<td>Void</td>
<td>OrderID, TransactionID</td>
<td></td>
</tr>
</tbody>
</table>

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.
/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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal</td>
<td>Standard ACH</td>
</tr>
<tr>
<td>Business</td>
<td>Check Guarantee</td>
</tr>
</tbody>
</table>

/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 Private
   Label Card section 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 Private Label Card
   section 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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No Recurring.</td>
</tr>
<tr>
<td>1</td>
<td>Weekly Recurring.</td>
</tr>
<tr>
<td>2</td>
<td>Monthly Recurring.</td>
</tr>
<tr>
<td>3</td>
<td>Quarterly Recurring.</td>
</tr>
<tr>
<td>4</td>
<td>Semi-Annual Recurring.</td>
</tr>
<tr>
<td>5</td>
<td>Annual Recurring.</td>
</tr>
<tr>
<td>6</td>
<td>Bi-Weekly Recurring.</td>
</tr>
<tr>
<td>7</td>
<td>Bi-Annual Recurring.</td>
</tr>
<tr>
<td>8</td>
<td>Quad Weekly (28 days) Recurring.</td>
</tr>
<tr>
<td>9</td>
<td>One Time Recurring.</td>
</tr>
<tr>
<td>10</td>
<td>Daily Recurring.</td>
</tr>
<tr>
<td>11</td>
<td>Bi-Monthly Recurring.</td>
</tr>
</tbody>
</table>

/RecurBillMax:
Number of recurrences.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1</td>
<td>Unlimited number of billings.</td>
</tr>
<tr>
<td>0</td>
<td>No recurring billings.</td>
</tr>
<tr>
<td>&gt; 0</td>
<td>Maximum number of billings.</td>
</tr>
</tbody>
</table>

/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:
<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>Indicates no transaction was performed.</td>
</tr>
<tr>
<td>SUCCESS</td>
<td>Indicates the transaction was successful.</td>
</tr>
<tr>
<td>DECLINED</td>
<td>Indicates the transaction was declined.</td>
</tr>
<tr>
<td>ERROR</td>
<td>Indicates an error occurred.</td>
</tr>
</tbody>
</table>

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

**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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRANSACTIONTYPE</td>
<td>Indicates the type of transaction processed.</td>
</tr>
<tr>
<td>TRANSACTIONRESULT</td>
<td>Indicates whether the transaction was APPROVED or DECLINED.</td>
</tr>
<tr>
<td>TIMESTAMP</td>
<td>Timestamp of the transaction in the format <em>MM/DD/YYYY hh:mm:ss AMPM</em> (e.g., 8/20/2015 4:20:05 PM).</td>
</tr>
<tr>
<td>MERCHANTORDERNUMBER</td>
<td>Merchant order number (if provided).</td>
</tr>
<tr>
<td>Field</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>MERCHANTID</td>
<td>Merchant identifier, masked to the last four digits.</td>
</tr>
<tr>
<td>TERMID</td>
<td>Terminal identifier.</td>
</tr>
<tr>
<td>AMOUNT</td>
<td>Amount of the transaction.</td>
</tr>
<tr>
<td>ENTRYMETHOD</td>
<td>Entry method.</td>
</tr>
<tr>
<td>NAME</td>
<td>Account holder name.</td>
</tr>
<tr>
<td>ACCOUNTTYPE</td>
<td>Account type.</td>
</tr>
<tr>
<td>ACCOUNT</td>
<td>Card number, masked to the last four digits.</td>
</tr>
<tr>
<td>ORDERID</td>
<td>The Online Merchant Center Order ID for the transaction.</td>
</tr>
<tr>
<td>TRANSACTIONID</td>
<td>The Online Merchant Center Transaction ID for the transaction.</td>
</tr>
<tr>
<td>AUTHCODE</td>
<td>The authorization or approval code provided by the authorizing network.</td>
</tr>
<tr>
<td>DECLINENCODE</td>
<td>If the transaction was declined, this value contains the 10-digit decline code.</td>
</tr>
<tr>
<td>DECLINEMESSAGE</td>
<td>For declined transactions, this value may contain a message indicating the reason for the decline.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base64</td>
<td>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.</td>
</tr>
<tr>
<td>BinHex</td>
<td>Binary to Hexadecimal encoding; each byte is converted to a hexadecimal string representation.</td>
</tr>
</tbody>
</table>

string ImageFormat

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bmp</td>
<td>Windows bitmap</td>
</tr>
<tr>
<td>Emf</td>
<td>Enhanced Windows metafile</td>
</tr>
<tr>
<td>Gif</td>
<td>Graphics Interchange Format</td>
</tr>
<tr>
<td>Jpeg</td>
<td>Joint Photographic Experts Group image format</td>
</tr>
<tr>
<td>Pcl</td>
<td>Printer Control Language format</td>
</tr>
<tr>
<td>Png</td>
<td>Portable Network Graphics image format</td>
</tr>
<tr>
<td>Tiff</td>
<td>Tag Image File Format</td>
</tr>
<tr>
<td>Wmf</td>
<td>Windows metafile</td>
</tr>
</tbody>
</table>

short Width

Width, in pixels, for the returned image.

short Height

Height, in pixels, for the returned image.
Returns:

```csharp
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:

/AcctID: 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. (/ATSID: may also be used.)
/SubID: 5-character alphanumeric value that identifies the SubID for the merchant. (/ATSSubID: may also be used.)
/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.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>Rent</td>
</tr>
<tr>
<td>O</td>
<td>Own</td>
</tr>
<tr>
<td>X</td>
<td>Other</td>
</tr>
</tbody>
</table>

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 CARDCNUMBER.

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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>Indicates the application submission was cancelled by the user.</td>
</tr>
<tr>
<td>ACCEPTED</td>
<td>Indicates the application was successfully submitted.</td>
</tr>
<tr>
<td>DECLINED</td>
<td>Indicates the application submission was declined.</td>
</tr>
</tbody>
</table>
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 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:

/AcctID:
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.

/SubID:
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.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFS</td>
<td>CFS</td>
</tr>
<tr>
<td>GEMY</td>
<td>CarCareONE</td>
</tr>
<tr>
<td>DRIVE</td>
<td>Drive Card</td>
</tr>
<tr>
<td>GDYR</td>
<td>Goodyear</td>
</tr>
<tr>
<td>SERV</td>
<td>Service Central</td>
</tr>
<tr>
<td>SELECT</td>
<td>Present the user with a choice of which credit application to launch.</td>
</tr>
</tbody>
</table>

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:
  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.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>Rent</td>
</tr>
<tr>
<td>O</td>
<td>Own</td>
</tr>
<tr>
<td>X</td>
<td>Other</td>
</tr>
</tbody>
</table>

/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.
/CoApp*:
The following fields mirror those listed above but apply to the co-applicant:
CoAppFirstName, CoAppMiddleName, CoAppLastName, CoAppDOB, CoAppSSN,
CoAppDLNum, CoAppDLState, CoAppDLExp, CoAppPhotoID, CoAppPhotoIDState,
CoAppPhotoIDExp, CoAppHomePhone, CoAppBusinessPhone, CoAppMobilePhone,
CoAppEmail, CoAppIncome, CoAppAddress1, CoAppAddress2, CoAppCity, CoAppState,
CoAppZip, CoAppRentOrOwn, CoAppYearsAtAddress, CoAppTimeAtJob.

Additionally, CarCareONE supports the following operations:

/Action:
  Specifies the action to perform.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>QuickScreen</td>
<td>Check if a customer is pre-approved for a CarCareONE card.</td>
</tr>
<tr>
<td>CreditDecision</td>
<td>Check the status of a pending credit application.</td>
</tr>
<tr>
<td>AcceptQuickScreen</td>
<td>Accept a QuickScreen offer.</td>
</tr>
<tr>
<td>DeclineQuickScreen</td>
<td>Decline a QuickScreen offer.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ApplicationStatus</td>
<td>Check the status of a pending application.</td>
</tr>
<tr>
<td>UpdateRO</td>
<td>Update the Repair Order for a pending application.</td>
</tr>
</tbody>
</table>
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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>Indicates the application submission was cancelled by the user.</td>
</tr>
<tr>
<td>ACCEPTED</td>
<td>Indicates the application was successfully submitted.</td>
</tr>
<tr>
<td>DECLINED</td>
<td>Indicates the application submission was declined.</td>
</tr>
<tr>
<td>PENDING</td>
<td>Indicates the application submission is pending (CarCareONE only).</td>
</tr>
<tr>
<td>ERROR</td>
<td>Indicates there was an error with the application submission.</td>
</tr>
</tbody>
</table>

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.

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:

/AcctID:  
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. (/ATSID: may also be used.)
/SubID:  
5-character alphanumeric value that identifies the SubID for the merchant. (/ATSSubID: may also be used.)
/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

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>Driver License</td>
</tr>
<tr>
<td>G</td>
<td>Green Card</td>
</tr>
<tr>
<td>M</td>
<td>Military ID</td>
</tr>
<tr>
<td>P</td>
<td>Passport</td>
</tr>
<tr>
<td>S</td>
<td>State ID Card</td>
</tr>
</tbody>
</table>
/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.
/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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>Indicates no transaction was performed.</td>
</tr>
<tr>
<td>SUCCESS</td>
<td>Indicates the transaction was successful.</td>
</tr>
<tr>
<td>DECLINED</td>
<td>Indicates the transaction was declined.</td>
</tr>
<tr>
<td>ERROR</td>
<td>Indicates an error occurred.</td>
</tr>
</tbody>
</table>

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
 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:

<table>
<thead>
<tr>
<th></th>
<th>AMEX</th>
<th>CarCareONE</th>
<th>CFNA</th>
<th>Check</th>
<th>Debit</th>
<th>Diners Club</th>
<th>Discover Network</th>
<th>Drive Card</th>
<th>Fleet One</th>
<th>Flying J</th>
<th>FuelLynk</th>
<th>FuelMan</th>
<th>GE Money</th>
<th>Goodyear</th>
<th>JCB</th>
<th>Loan</th>
<th>MasterCard</th>
<th>MasterCard Fleet</th>
<th>Service Central</th>
<th>Visa</th>
<th>Visa Fleet</th>
<th>Voyager</th>
<th>WP Gift Card</th>
<th>Wright Express</th>
</tr>
</thead>
</table>

FIRSTNAME=string
   The first name of the account holder.
LASTNAME=string
Online Commerce Suite™ First Mile™ MiddleWare Guide

The last name of the account holder.
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::111111111: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:

/\AcctID:
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.

/\ATSID:
may also be used.

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

/\ATSSubID:
may also be used.

/\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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>Indicates no transaction was performed.</td>
</tr>
<tr>
<td>SUCCESS</td>
<td>Indicates the transaction was successful.</td>
</tr>
<tr>
<td>DECLINED</td>
<td>Indicates the transaction was declined.</td>
</tr>
</tbody>
</table>
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**

**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:

<table>
<thead>
<tr>
<th>AMEX</th>
<th>CarCareONE</th>
<th>CFNA</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>Debit</td>
<td>Diners Club</td>
<td>Discover Network</td>
<td>Drive Card</td>
</tr>
<tr>
<td>Fleet One</td>
<td>Flying J</td>
<td>FuelLynk</td>
<td>FuelMan</td>
</tr>
<tr>
<td>GE Money</td>
<td>Goodyear</td>
<td>JCB</td>
<td>Loan</td>
</tr>
<tr>
<td>MasterCard</td>
<td>MasterCard Fleet</td>
<td>Service Central</td>
<td>Visa</td>
</tr>
<tr>
<td>Visa Fleet</td>
<td>Voyager</td>
<td>WP Gift Card</td>
<td>Wright Express</td>
</tr>
</tbody>
</table>

**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:

/AcctID:
    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.
    (/ATSID: may also be used.)
/SubID:
    5-character alphanumeric value that identifies the SubID for the merchant.
    (/ATSSubID: may also be used.)
/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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue</td>
<td>Issue a new gift card.</td>
</tr>
<tr>
<td>AddValue</td>
<td>Add value to a gift card.</td>
</tr>
<tr>
<td>BalanceInquiry</td>
<td>Perform a balance inquiry on a gift card.</td>
</tr>
<tr>
<td>Deactivate</td>
<td>Deactivate an existing gift card.</td>
</tr>
</tbody>
</table>

/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:
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:

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>Indicates no transaction was performed.</td>
</tr>
<tr>
<td>SUCCESS</td>
<td>Indicates the transaction was successful.</td>
</tr>
<tr>
<td>DECLINED</td>
<td>Indicates the transaction was declined.</td>
</tr>
<tr>
<td>ERROR</td>
<td>Indicates an error occurred.</td>
</tr>
</tbody>
</table>

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

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
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:

/AcctID:
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.
(/ATSID: may also be used.)

/SubID:
5-character alphanumeric value that identifies the SubID for the merchant.
(/ATSSubID: may also be used.)

/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:
This parameter shows a custom report.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AuthReversal</td>
<td>Shows Pre-Auth Only transactions.</td>
</tr>
<tr>
<td>Refund</td>
<td>Shows Sale and Post transactions.</td>
</tr>
<tr>
<td>Void</td>
<td>Show approved transactions.</td>
</tr>
<tr>
<td>EodReport</td>
<td>Show End of Day report.</td>
</tr>
<tr>
<td>CreditAppReport</td>
<td>Show Credit Application report.</td>
</tr>
</tbody>
</table>
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:

```vbc
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)

```vbc
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.nodeTypedValue
    Set objNode = Nothing
    Set objXML = Nothing
End Function
```

Dim byteData() As Byte
byteData = DecodeBase64(strHexEncoded)
The following example shows how to decode a BinHex encoded image from the IMAGE parameter of the ShowCreditCardForm method.

```vbscript
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:

```csharp
// 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.

```csharp
// sBase64EncodedImage is the string pulled from the IMAGE parameter of a ShowCreditCardForm result
Bitmap bmp = new Bitmap(new MemoryStream(System.Convert.FromBase64String(sBase64EncodedImage)));
```
The following example shows how to decode a BinHex encoded image from the IMAGE parameter of the ShowCreditCardForm method.

```csharp
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(sBinHexEncodedImage)));
```
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**
- Product Code: 133 - Repairs
- Quantity: 1.0000
- Unit Price: 99.0000
- Line Item Total Cost: 99.00

**Line Item #2**
- Product Code: 950 - Tax
- Quantity: 1.0000
- Unit Price: 9.4000
- Line Item Total Cost: 9.40

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

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Unleaded Regular</td>
</tr>
<tr>
<td>002</td>
<td>Unleaded Plus</td>
</tr>
<tr>
<td>003</td>
<td>Unleaded Super</td>
</tr>
<tr>
<td>004</td>
<td>Unleaded 4</td>
</tr>
<tr>
<td>005</td>
<td>Unleaded 5</td>
</tr>
<tr>
<td>006</td>
<td>Unleaded Methanol (5.7%)</td>
</tr>
<tr>
<td>007</td>
<td>Unleaded Plus Methanol (5.7%)</td>
</tr>
<tr>
<td>008</td>
<td>Super Unleaded Methanol (5.7% blend)</td>
</tr>
<tr>
<td>009</td>
<td>Unleaded Methanol (7.7%)</td>
</tr>
<tr>
<td>010</td>
<td>Unleaded Plus Methanol (7.7% blend)</td>
</tr>
<tr>
<td>011</td>
<td>Unleaded Ethanol (5.7%)</td>
</tr>
<tr>
<td>012</td>
<td>Unleaded Plus Ethanol (5.7%)</td>
</tr>
<tr>
<td>013</td>
<td>Super Unleaded Ethanol (5.7%)</td>
</tr>
<tr>
<td>014</td>
<td>Unleaded Ethanol (7.7%)</td>
</tr>
<tr>
<td>015</td>
<td>Unleaded Plus Ethanol (7.7%)</td>
</tr>
<tr>
<td>016</td>
<td>Methanol / Leaded</td>
</tr>
<tr>
<td>017</td>
<td>Ethanol / Leaded</td>
</tr>
<tr>
<td>018</td>
<td>Leaded</td>
</tr>
<tr>
<td>019</td>
<td>Regular Diesel #2</td>
</tr>
<tr>
<td>020</td>
<td>Premium Diesel #2</td>
</tr>
<tr>
<td>021</td>
<td>Diesel #1</td>
</tr>
<tr>
<td>022</td>
<td>Compressed Natural Gas</td>
</tr>
<tr>
<td>023</td>
<td>Liquid Propane Gas</td>
</tr>
<tr>
<td>024</td>
<td>Liquid Natural Gas</td>
</tr>
<tr>
<td>025</td>
<td>M-85</td>
</tr>
<tr>
<td>026</td>
<td>E-85</td>
</tr>
<tr>
<td>027</td>
<td>Unleaded / Reformulated 1</td>
</tr>
<tr>
<td>028</td>
<td>Unleaded / Reformulated 2</td>
</tr>
<tr>
<td>029</td>
<td>Unleaded / Reformulated 3</td>
</tr>
<tr>
<td>030</td>
<td>Unleaded / Reformulated 4</td>
</tr>
<tr>
<td>031</td>
<td>Unleaded / Reformulated 5</td>
</tr>
<tr>
<td>032</td>
<td>Diesel Off-Road (# 1 and #2 Non-Taxable)</td>
</tr>
<tr>
<td>033</td>
<td>Ultra Low Sulfur Diesel Off-Road (Non-Taxable)</td>
</tr>
<tr>
<td>034</td>
<td>Biodiesel Blend Off-Road (Non-Taxable)</td>
</tr>
<tr>
<td>035</td>
<td>Ultra Low Sulfur Biodiesel Off-Road (Non-Taxable)</td>
</tr>
<tr>
<td>036</td>
<td>Racing Fuel</td>
</tr>
<tr>
<td>Product Code</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>------------------------------------</td>
</tr>
<tr>
<td>037</td>
<td>Super Unleaded Methanol (7.7%)</td>
</tr>
<tr>
<td>038</td>
<td>Unleaded Methanol (10%)</td>
</tr>
<tr>
<td>039</td>
<td>Unleaded Plus Methanol (10%)</td>
</tr>
<tr>
<td>040</td>
<td>Dyed Diesel</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>041</td>
<td>Super Unleaded Methanol (10%)</td>
</tr>
<tr>
<td>042</td>
<td>B2 Diesel Blend 2% Biodiesel</td>
</tr>
<tr>
<td>043</td>
<td>B5 Diesel Blend 5% Biodiesel</td>
</tr>
<tr>
<td>044</td>
<td>B10 Diesel Blend 10% Biodiesel</td>
</tr>
<tr>
<td>045</td>
<td>B11 Diesel Blend 11% Biodiesel</td>
</tr>
<tr>
<td>046</td>
<td>B15 Diesel Blend 15% Biodiesel</td>
</tr>
<tr>
<td>047</td>
<td>B20 Diesel Blend 20% Biodiesel</td>
</tr>
<tr>
<td>048</td>
<td>B100 Diesel Blend 100% Biodiesel</td>
</tr>
<tr>
<td>049</td>
<td>Ultra Low Sulfur #1</td>
</tr>
<tr>
<td>050</td>
<td>Ultra Low Sulfur #2</td>
</tr>
<tr>
<td>051</td>
<td>Ultra Low Sulfur Premium Diesel #2</td>
</tr>
<tr>
<td>052</td>
<td>Ultra Low Sulfur Biodiesel Blend 2%</td>
</tr>
<tr>
<td>053</td>
<td>Ultra Low Sulfur Biodiesel Blend 5%</td>
</tr>
<tr>
<td>054</td>
<td>Ultra Low Sulfur Biodiesel Blend 10%</td>
</tr>
<tr>
<td>055</td>
<td>Ultra Low Sulfur Biodiesel Blend 11%</td>
</tr>
<tr>
<td>056</td>
<td>Ultra Low Sulfur Biodiesel Blend 15%</td>
</tr>
<tr>
<td>057</td>
<td>Ultra Low Sulfur Biodiesel Blend 20%</td>
</tr>
<tr>
<td>058</td>
<td>Ultra Low Sulfur Biodiesel Blend 100%</td>
</tr>
</tbody>
</table>

**Auto Products / Services**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>General Merchandise</td>
</tr>
<tr>
<td>101</td>
<td>Motor Oil</td>
</tr>
<tr>
<td>102</td>
<td>Car Wash</td>
</tr>
<tr>
<td>103</td>
<td>Oil Change</td>
</tr>
<tr>
<td>104</td>
<td>Oil Filter</td>
</tr>
<tr>
<td>105</td>
<td>Work Order</td>
</tr>
<tr>
<td>106</td>
<td>Anti-Freeze</td>
</tr>
<tr>
<td>107</td>
<td>Washer Fluid</td>
</tr>
<tr>
<td>108</td>
<td>Brake Fluid</td>
</tr>
<tr>
<td>109</td>
<td>Tires</td>
</tr>
<tr>
<td>110</td>
<td>Federal Excise Tax / Tires</td>
</tr>
<tr>
<td>111</td>
<td>Tire Rotation</td>
</tr>
<tr>
<td>112</td>
<td>Batteries</td>
</tr>
<tr>
<td>113</td>
<td>Lube</td>
</tr>
<tr>
<td>114</td>
<td>Inspection</td>
</tr>
<tr>
<td>Product Code</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>115</td>
<td>Labor</td>
</tr>
<tr>
<td>116</td>
<td>Towing</td>
</tr>
<tr>
<td>117</td>
<td>Road Service</td>
</tr>
<tr>
<td>118</td>
<td>Auto Accessories</td>
</tr>
<tr>
<td>119</td>
<td>Auto Parts</td>
</tr>
<tr>
<td>120</td>
<td>Preventive Maintenance</td>
</tr>
<tr>
<td>121</td>
<td>Air Conditioning Service</td>
</tr>
<tr>
<td>122</td>
<td>Engine Service</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>123</td>
<td>Transmission Service</td>
</tr>
<tr>
<td>124</td>
<td>Brake Service</td>
</tr>
<tr>
<td>125</td>
<td>Exhaust Service</td>
</tr>
<tr>
<td>126</td>
<td>Body Work</td>
</tr>
<tr>
<td>127</td>
<td>Automotive Glass</td>
</tr>
<tr>
<td>128</td>
<td>Synthetic Oil</td>
</tr>
<tr>
<td>129</td>
<td>Lamps</td>
</tr>
<tr>
<td>130</td>
<td>Wipers</td>
</tr>
<tr>
<td>131</td>
<td>Hoses</td>
</tr>
<tr>
<td>132</td>
<td>Tire-related (Wheel Balance, Valve Stem)</td>
</tr>
<tr>
<td>133</td>
<td>Repairs</td>
</tr>
<tr>
<td>134</td>
<td>Service Package</td>
</tr>
<tr>
<td>135</td>
<td>Automotive Parking</td>
</tr>
<tr>
<td>136</td>
<td>Truck Tank Cleaning</td>
</tr>
<tr>
<td>137</td>
<td>Other Lubricants</td>
</tr>
<tr>
<td>138</td>
<td>Automotive Fuel Additives/Treatment (injected)</td>
</tr>
<tr>
<td>149</td>
<td>Miscellaneous Part/Services</td>
</tr>
</tbody>
</table>

**Aviation Fuels**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>Jet Fuel</td>
</tr>
<tr>
<td>151</td>
<td>Aviation Fuel Regular</td>
</tr>
<tr>
<td>152</td>
<td>Aviation Fuel Premium</td>
</tr>
<tr>
<td>153</td>
<td>Aviation Fuel JP8</td>
</tr>
<tr>
<td>154</td>
<td>Aviation Fuel 4</td>
</tr>
<tr>
<td>155</td>
<td>Aviation Fuel 5</td>
</tr>
<tr>
<td>199</td>
<td>Miscellaneous</td>
</tr>
</tbody>
</table>

**Aviation Products / Services**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Storage</td>
</tr>
<tr>
<td>201</td>
<td>Aircraft Ground Handling</td>
</tr>
<tr>
<td>202</td>
<td>Aircraft Ground Power Unit</td>
</tr>
<tr>
<td>203</td>
<td>Aircraft Labor</td>
</tr>
<tr>
<td>204</td>
<td>Aircraft Work Order</td>
</tr>
<tr>
<td>Product Code</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>205</td>
<td>Aircraft Maintenance</td>
</tr>
<tr>
<td>206</td>
<td>Aircraft Service</td>
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<tr>
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**Administrative**

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# Appendix C: Fleet Card Service Codes

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## Appendix D: Measurement Codes

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