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CommerceDriver[™]

Quick-Start Guide for *iOS*

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CommerceDriver™ Quick-Start Guide for iOS

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EVO CommerceDriver[™]

Adding EMV transaction processing to your POS system is easy with the pre-certified *EVO CommerceDriver*[™] SDK. The pre-certified *CommerceDriver*[™] SDK installs alongside your software application to add EMV transaction processing to your POS system. *CommerceDriver*[™] facilitates all transactional communication with the *EVO Payments International* global processing platforms and approved hardware devices to isolate payment data and keep it separate from the software application.

CommerceDriver[™] is designed to support multiple terminal manufacturers while retaining a common API. At startup, *CommerceDriver*[™] detects the supported terminal manufacturer(s)/models for processing Authorize, Authorize & Capture and Return transactions.

How It Works

- 1. Create transaction data objects in your POS.
- 2. Pass the transaction data to *CommerceDriver*[™].
- 3. *CommerceDriver*[™] initiates terminal commands and gathers tender/EMV data to send to the EVO Snap* Platform.
- 4. The EVO Snap* Platform returns a response to *CommerceDriver*[™] with receipt details.

Version Details

- * CommerceDriver[™] V2.0.27
- Supports EVOSnap* v2.1.27 Platform calls
- * Supported Terminal Ingenico ICMP via Bluetooth

Compatibility

- * CommerceDriver™ Framework iOS 8.0 & Higher using Objective-C
- Sample Code, Projects & Guides Created using xCode 8 & iOS 9+

Integration

To get started with *CommerceDriver*[™], select your Platform, Network and Hardware. The setup is similar to a direct Web Services integration, but *CommerceDriver*[™] must be hosted locally.



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- 1. Drag and drop the framework files provided by your EVO Snap* Support Engineer into the Embedded Binaries section of your iOS project target.
- 2. Add the Import statement to the classes using the *CommerceDriver*[™] framework.

#import <EVOCommerceDriver/EVOCommerceDriver.h>

3. Create an EVOPlatformConfiguration specifying your service related information and an EVOCommerceDriverAPI object to utilize the configuration.



4. Set the *CommerceDriver*[™]logging level. (Optional)

[commerceDriverAPI setLogLevel:EVOLogLevelDebug];

Authentication

After initializing your instance of EVOCommerceDriverAPI with the EVOPlatformConfiguration you are required to authenticate to the platform with your Username and Password.

1. Log into the Platformby calling the loginUser:password: method EVOCommerceDriverAPI.

[commerceDriverAPI loginUser:username password:password];

2. Listen For the results notification communicated from the EVOIdentityLoginEvent.

[[NSNotificationCenter defaultCenter] addObserver:**self** selector:@**selector**(onIdentityLoginEvent:) name:EVOIdentityLoginEvent object:nil];

3. Process the login response using the example notification handler below.



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Terminal Setup

CommerceDriver[™] supports multiple terminal manufacturer families through individual frameworks. Choose the terminal(s) your organization would like to support by including the related framework, create the associated EVOTerminal object and add it to the EVOCommerceDriverAPI object.

A minimum of one terminal is required to perform the following activities.

- * Authorize
- * AuthorizeAndCapture
- ReturnUnlinked

CommerceDriver[™] for iOS currently supports the *Ingenico ICMP* device. The library for this device is EVOIngenicoTerminals.framework version 1.0.0.

To Setup your device:

1. Drag and drop the EVO *CommerceDriver*[™] framework files provided by EVO Snap* Support Engineer, into the Embedded Binaries section of your iOS project target.



2. For the Ingenico library, add the following Import statements to the classes using the *CommerceDriver*[™] framework.

#import <EVOCommerceDriver/EVOCommerceDriver.h> #import <EVOIngenicoTerminals/EVOIngenicoTerminals.h>

To **Register** your device for support:

1. Create the related terminal object and add the object to the EVOCommerceDriverAPI.

Sample A – Create an ICMP Terminal w/First Available Paired Device



//Tell CommerceDriver which device you want to use. //Note: When dealing with one terminal, you do not need to make this call as CommerceDriver will use the device [commerceDriverAPI selectTerminal:icmp];

Transaction Processing

Two transaction sets can be processed using *CommerceDriver*™.

Terminal Required Transactions

- Authorize
- Authorize and Capture
- Return Unlinked

No Terminal Required Transactions

- Undo
- Capture



* Return by ID

Creating a POS Transaction Request

To **Start** a transaction:

1. Create an EVOPOSTTransactionRequest.

Note: Use the 'create' factory methods to create various transaction request types.

/* Use this factory method to create a request of operation type EVOPOSOperationAuthorizeAndCapture
,EVOPOSOperationAuthorize, EVOPOSOperationReturnUnlinked. Any other EVOPosOperation value will produce an exception.
Requests created with this factory method will require a terminal to proceed with the request */
+ (instancetype) createTerminalRequestWithOperation: (EVOPOSOperation) operation amount: (NSDecimalNumber *) amount
employeeId: (NSString *) employeeId laneId: (NSString *) laneId orderNumber: (NSString *) orderNumber reference: (NSString *)
reference tipAmount: (NSDecimalNumber *) tipAmount cashbackAmount: (NSDecimalNumber *) cashbackAmount
overrideApDupe: (BOOL) overrideApDupe;
/* Use this factory method to create an Undo Request */
+ (instancetype) createEundoRequestTransactionID: (NSString *) transactionID;
/* Use this factory method to create a Capture Request without a tip.*/
+ (instancetype) createCaptureRequestTransactionID: (NSString *) transactionID amount: (NSDecimalNumber *) amount;
/* Use this factory method to create a Capture request with a tip. */
+ (instancetype) createCaptureRequestTransactionID: (NSString *) transactionID amount: (NSDecimalNumber *) amount;
/* Use this factory method to create a Capture request with a tip. */
+ (instancetype) createCaptureRequestTransactionID: (NSString *) transactionID amount: (NSDecimalNumber *) amount;
/* Use this factory method to create a Return with a TransactionID amount: (NSDecimalNumber *) amount;
/* Use this factory method to create a Return with a TransactionID */
+ (instancetype) createReturRequestTransactionID: (NSString *) transactionID amount; (NSDecimalNumber *) amount;
/* Use this factory method to create a Return with a TransactionID #/
+ (instancetype) createReturRequestTransactionID: (NSString *) transactionID amount; (NSDecimalNumber *) amount;
/* Use this factory method to create a Return with a TransactionID #/
+ (instancetype) createReturRequestTransactionID; (NSString *) transactionID #/
+ (instancetype) createReturReques

The default initializer can also be used to create a request. For additional information, please refer to the *CommerceDriver*[™] *Apple Doc.*

- (instancetype)initWithOperation: (EVOPOSOperation) operation
 amount: (NSDecimalNumber *) amount employeeId: (NSString *) employeeId laneId: (NSString *) laneId orderNumber: (NSString
 *) orderNumber reference: (NSString *) reference tipAmount: (NSDecimalNumber *) tipAmount cashbackAmount: (NSDecimalNumber
 *) cashbackAmount overrideApDupe; (BOOL) overrideApDupe;
- 2. Once the POS Request object is created, call the processTransactionRequest method from the EVOCommerceDriver object.

[commerceDriverAPI processTransactionRequest:authAndCaptureRequest];

To Cancel a Request:

1. Call cancelAsynchPRocess.

[commerceDriverAPI cancelAsyncProcess:authAndCaptureRequest];



To **Request** a POS Delegate:

1. The EVOPOSTransactionRequest USES the EVOPOSTransactionRequestDelegate protocol to communicate transaction status. After creating an EVOPOSTransactionRequest Set the delegate property to the class that implements the EVOPOSTransactionRequestDelegate.

EVOPOSTransactionRequest * authAndCaptureRequest = [EVOPOSTransactionRequest createTerminalRequestWithOperation:EVOPOSOperationAuthorizeAndCapture amount:[NSDecimalNumber numberWithInt:5] employeeId:@"EE-ID1" laneId:@"LN-01" orderNumber:@"ORDER-01" reference:@"REF-01" tipAmount:[NSDecimalNumber zero] cashbackAmount:[NSDecimalNumber zero] overrideApDupe:YES];

authAndCaptureRequest.delegate = self;

2. The following delegate methods are required.

```
/// Called when validation of a signature is needed.
///
/// This method will block the completion of a transaction until the
/// signature is approved or declined.
///
/// @param request - The original POS Request
/// @param request - The EVO Platform response to that original request.
/// @see EVOTransactionResponse
/// @see EVOTransactionResponse
/// @see EVOTransaction. Return VES to approve the signature
/// and NO to reject it.
+ (void) getSignatureForRequest:(EVOPOSTransactionRequest *)request
/// @param request - The original POS Request
/// Called when a transaction can not be started.
/// @param request - The original POS Request
/// Called when a transaction can not be started.
/// @param request - The original POS Request
/// @param request - The original POS Request
/// Called when a transaction Request *)request
failedToStartWithErrors:(NSDictionary for the errors encountered
/// starting the TransactionRequest *)request
failedToStartWithErrors:(NSDictionary *)errors;
/// Called upon completion of a transaction
/// @param request The original request sent
/// @param request The original request sent
/// @param request (EVOPOSTransactionRequest *)request
/// @param request The original request sent
/// @param request (EVOPOSTransactionRequest *)request
/// @param request The original request sent
/// @param request (EVOPOSTransactionRequest *)request
/// @param request (EVOPOSTransactionRequest *)request completedWithResponse:
  (EVOTransactionResponse *)response;
```

Frameworks

CommerceDriver[™] for iOS consists of the following frameworks

- * EVOCommerceDriver.framework The core framework that provides all *CommerceDriver*[™] functionality. This framework is required.
- * EVOIngenicoTerminals.framework This framework provides the terminal implementation for all Ingenico terminals supported by *CommerceDriver*[™].

Reference Information

For additional information, please visit the EVO Snap* Support site at http://www.evosnap.com/support/ or contact your EVO Technical Support representative.