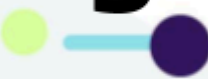


# **Payment Device SDK for iOS/Android Recent Change Guide**



For Software Version 3.16.5 (Familiar)

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# 1. Introduction

This document details recent SDK additions and the changes required by integrators when upgrading the Payment Device SDK for iOS/Android to the latest version. Migration changes are included for the last four releases. If you require migration notes or assistance to upgrade from an older version please contact the support team.

## 2. Release 3.16.5 (Familiar)

### IOS

- Added support for allowlisting on ID TECH VP3350 devices.
  - Renamed `WhitelistCardPresented` error code to `AllowlistedCardPresented`

### ANDROID

- Added support for allowlisting on ID TECH VP3350 devices.
  - Renamed `WhitelistCardPresented` error code to `AllowlistedCardPresented`
- Added support for USB-C female ID TECH VP3350 device connection type.
- Fixed issue where transactions could decline with `TransactionAlreadyInProgressError` on Miura PIN pads.

## 3. Release 3.16.4 (Familiar)

### ANDROID

- Added support for one way Card Tokens, allowing consistent, non-payment-specific tokenization of card PANs, to be used for a range of applications in integration.
  - Added Parameter Key `FeatureTokens` to allow parsing of feature tokens into `StartTransaction()`
  - Added transaction error `FeatureTokensInvalid` (returned by `StartTransaction()`) when an invalid feature token is supplied.
  - Added object `FeatureToken`. This contains data representing information about a generated feature token required for CardTokens to be returned for a transaction.
  - Added object `CardToken`. This contains data representing information about a generated card token for a transaction.
  - Added method `ChipDnaMobileSerializer.serializeFeatureTokens(List<FeatureToken>)` for serializing Card token lists to an XML string.
  - Added method `ChipDnaMobileSerializer.deserializeCardTokens(String)` for deserializing Card token lists from an XML string.

## 4. Release 3.16.3 (Familiar)

### IOS

- Resolved issue where during first-time configuration of an unconfigured VP3350 Device an unexpected error code was returned, causing the SDK to disconnect from the device.

## ANDROID

- Resolved issue with VP3350 incorrectly requesting an ARQC instead of an AAC when performing a contactless refund with Mastercard.

## 5. Release 3.16.2 (Familiar)

### IOS

- Added support for enabling Deferred Auths per card scheme. VP3350 on First Data will support Deferred Auths except on Amex and Discover card schemes.
- Resolved issue with First Data Discover Contactless performed on the VP3350. Unrecognized tag should be 0000 populated.
- Updated SQLCipher to version 4.6.1.

## ANDROID

- Added support for enabling Deferred Auths per card scheme. VP3350 on First Data will support Deferred Auths except on Amex and Discover card schemes.
- Resolved issue with First Data Discover Contactless performed on the VP3350. Unrecognized tag should be 0000 populated.

## 6. Release 3.16.1 (Familiar)

### IOS

- New requirement to include the IDTech.bundle resource for integrations using ID TECH VP3350 devices, this provides the latest features and bug fixes. If this is not included in the integration and a connect and configure is attempted with an ID TECH VP3350 device the error `IdTechBundleRequired` will be returned.
- Resolved issue with First Data Rapid Connect pre-formatted non-signature receipts being returned with a signature line. These now do not contain a signature line unless required.
- Added functionality to control the amount displayed for account verification transactions for Miura PIN pads via TMS.
  - The amount can now be configured to 0 or any other number, including if it is major or minor.
- Added functionality to control the amount displayed for `GetCardDetails` command for Miura PIN pads via TMS.
  - The amount can now be configured to 0 or any other number, including if it is major or minor.

- Resolved issue which prevented supplying both the OS and MPI to be updated for Miura PIN pads.
  - Both OS and MPI can be supplied for update via TMS at the same time. The PIN pad will then apply the updates in three parts: OS, MPI, and Configuration, rebooting after each.
- Added functionality to return more detailed progress for firmware updates for Miura devices.
  - Additional callback, `FirmwareUpdate`. Returns new keys: `FirmwareUpdateAvailable`, `FirmwareUpdateStatus`, `FirmwareDownloadPercentage`, `FirmwareFile`, `FirmwareUpdate`
- Resolved potential issues with Miura device getting out of sync with SDK when pressing Cancel(X) key during request to Present Card Again.
  - This issue was found on MPI 1-58 and very rarely occurs on other MPI versions.

## ANDROID

- Resolved issue with First Data Rapid Connect pre-formatted non-signature receipts being returned with a signature line. These now do not contain a signature line unless required.
- Added functionality to control the amount displayed for account verification transactions for Miura PIN pads via TMS.
  - The amount can now be configured to 0 or any other number, including if it is major or minor.
- Added functionality to control the amount displayed for `GetCardDetails` command for Miura PIN pads via TMS.
  - The amount can now be configured to 0 or any other number, including if it is major or minor.
- Resolved issue which prevented supplying both the OS and MPI to be updated for Miura PIN pads.
  - Both OS and MPI can be supplied for update via TMS at the same time. The PIN pad will then apply the updates in three parts: OS, MPI, and Configuration, rebooting after each.
- Added functionality to return more detailed progress for firmware updates for Miura devices.
  - This feature is only for firmware update progress and does not enable delayed firmware updates for Miura devices.

- Additional callback, `FirmwareUpdate`. Returns new keys:  
`FirmwareUpdateAvailable`, `FirmwareUpdateStatus`,  
`FirmwareDownloadPercentage`, `FirmwareFile`, `FirmwareUpdate`
- Resolved potential crash with Miura device during retry card whilst cancelling transaction via PinPad.
  - This issue was found on MPI 1-58 and very rarely occurs on other MPI versions.