

Epson ePOS SDK for iOS Migration Guide

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Migration Overview

This manual explains how to modify applications created with following development tools in order to run these applications in Epson ePOS SDK for iOS ("Epson ePOS SDK").

- ePOS-Print SDK for iOS ("ePOS-Print SDK")
- ePOS-Device SDK for iOS ("ePOS-Device SDK")

ePOS-Print SDK and ePOS-Device SDK will no longer be optimized for new products and new functions. Refer to this document to perform migration to ePOS SDK-compatible application.

Migration Types

The following 2 methods are available for migration to Epson ePOS SDK-compatible application.

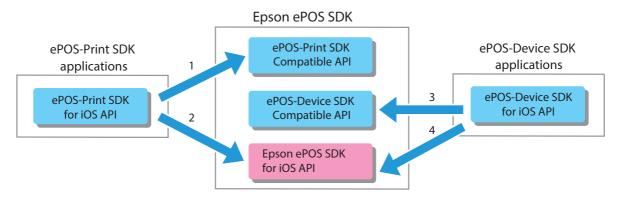
☐ Migration with compatible APIs for Epson ePOS SDK

Epson ePOS SDK includes both ePOS-Print SDK-compatible APIs and ePOS-Device SDK-compatible APIs. You can perform migration to an Epson ePOS SDK-compatible application by updating and building the configuration file without modifying the existing application program. If you want to use printing and other basic functions, you can also apply applications to new TM printers.

☐ Migration with Epson ePOS SDK APIs

You can perform migration of an existing application to a Epson ePOS SDK-compatible application by turning it into a program that uses Epson ePOS SDK APIs. Many program modifications are necessary, but applications can be applied to new models and functions of TM printers and peripheral devices.

Migration Types



- 1: Migration from ePOS-Print SDK with ePOS-Print SDK-compatible APIs of Epson ePOS SDK
- 2: Migration from ePOS-Print SDK with the APIs of Epson ePOS SDK
- 3: Migration from ePOS-Device SDK with ePOS-Device SDK-compatible APIs of Epson ePOS SDK
- 4: Migration from ePOS-Device SDK with the APIs of Epson ePOS SDK

Compatibility with new products and functions

	ePOS-Print SDK	Epson ePOS SDK	
New products and functions	ePOS-Device SDK		ePOS-Print SDK-compatible API ePOS-Device SDK-compatible API
Epson TM printers and peripheral devices	-	~	V
New functions of Epson TM printers and peripheral devices	-	/	_ *
New iOS version	-	/	V
New tablets and smartphone models	-	>	V

✓ : Compatible -: Incompatible

^{*} Not compatible with the new functions that require new APIs or API modifications.

Migration from ePOS-Print SDK

This chapter explains the method to perform migration of the applications that use ePOS-Print SDK to the applications that are compatible with Epson ePOS SDK.

Migration with ePOS-Print SDK-compatible APIs

You can perform migration to an Epson ePOS SDK-compatible application by replacing the configuration file without modifying the existing application program.

Migration procedure

The migration procedure is described below.

	Procedure	Description	
1	SDK file replacement	Library file replacement	
		Refer to "SDK file replacement".	
2	Application building	Building a project for the application with SDK files being replaced	

This completes the migration with the ePOS-Print SDK-compatible API.

SDK file replacement

Replace the following files that are included in the application project with Epson ePOS SDK files.

Type	ePOS-Print SDK	ePOS-Print SDK-compatible API
Library	libeposprint.a	libepos2.a

Application development with ePOS-Print SDK-compatible APIs

Refer to the following manuals for information that is necessary for the development and maintenance of the applications that use ePOS-Print SDK-compatible APIs.

☐ Specifications for ePOS-Print SDK-compatible APIs

"ePOS-Print SDK for iOS User's Manual"

The specifications for ePOS-Print SDK-compatible APIs are the same as the specifications for the ePOS-Print SDK APIs.

Device information and support APIs for the new Epson TM printer models

The Appendix of "Epson ePOS SDK for iOS Migration Guide" (this document)

Migration with the Epson ePOS SDK APIs

You can perform migration to an Epson ePOS SDK-compatible application by modifying the existing application program. Many program modifications are necessary, but applications can be applied to new models and functions of TM printers.

Migration procedure

The migration procedure is described below.

	Procedure	Description
1	SDK file replacement	Header file and library file replacement
		Refer to " SDK file replacement".
2	Adding dynamic libraries	Adding dynamic libraries to the application project
		Refer to " Adding dynamic libraries".
3	Changing import definitions	Changing the import definitions of the Objective-C header
		Refer to " Changing import definitions".
4	Changing classes	Changing the ePOS-Print SDK classes to the Epson ePOS SDK classes
		Refer to " Changing classes".
5	Changing APIs	Modifying the program or changing the ePOS-Print SDK APIs that have different specifications from those of Epson ePOS SDK
		The changes are described below.
		 Modifying the program to enable specific functions Modify the functions listed below.
		Establishing and cutting the communication with the printer Refer to "Establishing and cutting the communication with the printer".
		Printing Refer to " Printing". Obtaining callback
		Refer to "Obtaining callback".
		Obtaining status Refer to " Obtaining status".
		Printer search Refer to " Printer search".
		Status monitoring Refer to " Monitoring of the status".
		☐ Changing API name API names to be changed
		(You may need to change parameters too) Refer to " Changing API name".
		☐ Changing API parameters
		API names do not change, but parameter changes are necessary.
		Refer to " Changing API parameters".
6	Application building	Building a project for the modified application.

This completes the migration with the Epson ePOS SDK API.

SDK file replacement

Replace the following files that are included in the application project with Epson ePOS SDK files.

Туре	ePOS-Print SDK	Epson ePOS SDK
Header file	ePOS-Print.h	ePOS2.h
	ePOSEasySelect.h	ePOSEasySelect.h *
Library	libeposprint.a	libepos2.a
	libeposeasyselect.a	libeposeasyselect.a *

^{*} The file names do not change. Use the files included in the Epson ePOS SDK package.

Adding dynamic libraries

Incorporate the following dynamic library file in the application project.

• libxml2.2.*

Changing import definitions

Change the import definition of the Objective-C header that is included in the *.m source file of an application.

ePOS-Print SDK	Epson ePOS SDK
#import "ePOS-Print.h"	#import "ePOS2.h"

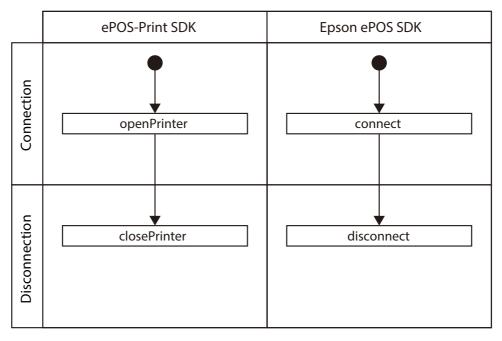
Changing classes

Change the classes of ePOS-Print SDK used in the application project to the classes of Epson ePOS SDK.

Туре	ePOS-Print SDK	Epson ePOS SDK
Printing functions	EposBuilder class	Epos2Printer class
	EposPrint class	
Printer search	Epsonlo Finder class	Epos2Discovery class
Log output function	EposLog class	Epos2Log class
Bluetooth [®] connection	EposBluetoothConnection class	Epos2BluetoothConnection class

Establishing and cutting the communication with the printer

Execution procedure differences



Program differences

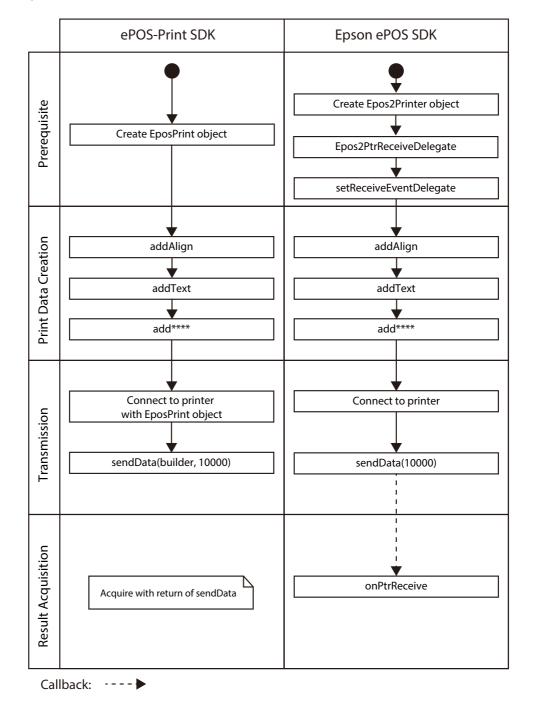
■ ePOS-Print SDK

```
id printer = [[EposPrint alloc] init];
if ( printer != nil) {
   int errorStatus = EPOS_OC_SUCCESS;
   errorStatus = [printer openPrinter:EPOS_OC_DEVTYPE_TCP
      Name:@"192.168.192.168" Enabled: EPOS_OC_TRUE
      Interval:EPOS_OC_PARAM_DEFAULT Timeout:EPOS_OC_PARAM_DEFAULT];
      ...processing...
   errorStatus = [printer closePrinter];
}
```

Printing

In ePOS-Print SDK, the printing results were obtained with the return value of the printing data transmission processing. whereas in Epson ePOS SDK, the printing results are obtained through callback.

Execution procedure differences



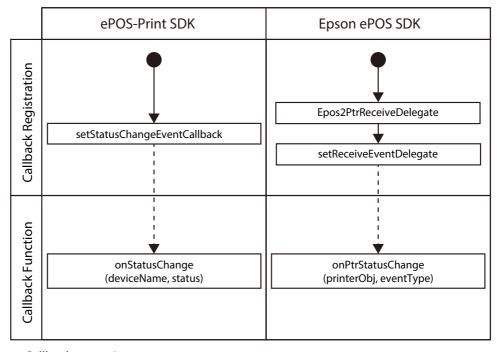
■ ePOS-Print SDK

```
@interface Sample() <Epos2PtrReceiveDelegate>
{
    Epos2Printer *printer_;
}
- (void) openPrinter
{
    [printer_ setReceiveEventDelegate:self];
    int errorStatus = [printer_ addText:@"ABCDE"];
    ...connection...
    errorStatus = [printer_ sendData:EPOS2_PARAM_DEFAULT];
}
- (void) onPtrReceive:(Epos2Printer *)printerObj code:(int)code
status:(Epos2PrinterStatusInfo *)status printJobId:(NSString *)printJobId
{
    ...processing...
}
```

Obtaining callback

In ePOS-Print SDK, a selector was used for callback processing, whereas in Epson ePOS SDK, a protocol is used for callback processing.

Execution procedure differences



Callback: ----▶

□ ePOS-Print SDK

```
- (void)onStatusChange:(NSString *)deviceName Status:(NSNumber *)status
{
...connection...
}
- (void)openPrinter
{
   id printer = [[EposPrint alloc] init];
   if ( printer != nil) {
     int errorStatus = EPOS_OC_SUCCESS;
     [printer setStatusChangeEventCallback @selector(onStatusChange:Status:)

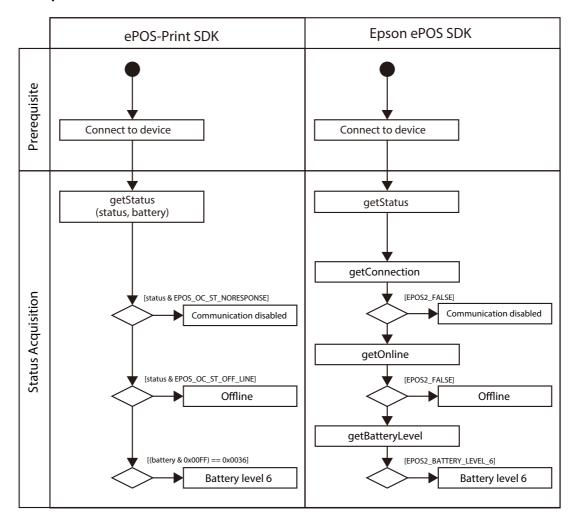
Target:self];
   errorStatus = [printer openPrinter:EPOS_OC_DEVTYPE_TCP
     Name:@"192.168.192.168" Enabled: EPOS_OC_TRUE
     Interval:EPOS_OC_PARAM_DEFAULT Timeout:EPOS_OC_PARAM_DEFAULT];
}
```

```
@interface Sample() <Epos2PtrStatusChangeDelegate>
{
    Epos2Printer *printer_;
}
- (void) openPrinter
{
     ...connection...
     [printer_ setStatusChangeEventDelegate:self];
     [printer_ startMonitor];
}
- (void) onPtrStatusChange:(Epos2Printer *)printerObj eventType:(int)eventType
{
     ...processing...
}
```

Obtaining status

In ePOS-Print SDK, the combinations of multiple printer statuses were obtained with the return value, whereas in Epson ePOS SDK, each status is obtained from PrinterStatusInfo-type properties.

Execution procedure differences



■ ePOS-Print SDK

```
id printer = [[EposPrint alloc] init:];
unsigned long status = 0;
unsigned long battery = 0;
if ( printer != nil) {
  int errorStatus = EPOS_OC_SUCCESS;
   errorStatus = [printer openPrinter:EPOS_OC_DEVTYPE_TCP
  Name:@"192.168.192.168"];
   errorStatus = [printer getStatus:&status Battery:&battery];
   ///Process///
   if(status & EPOS_OC_ST_NO_RESPONSE) {
     // no response
   if(status & EPOS_OC_ST_OFF_LINE) {
     // status offline
   }
   if((battery \& 0x00FF) == 0x0036){
      // battery level 6
   errorStatus = [printer closePrinter];
```

```
@interface Sample()
{
    Epos2Printer *printer_;
}
- (void) getStatus
{
    ...connection...
    Epos2PrinterStatusInfo *status = [printer_ getStatus];

    if([status getConnection] != EPOS2_TRUE) {
        // no response
    }

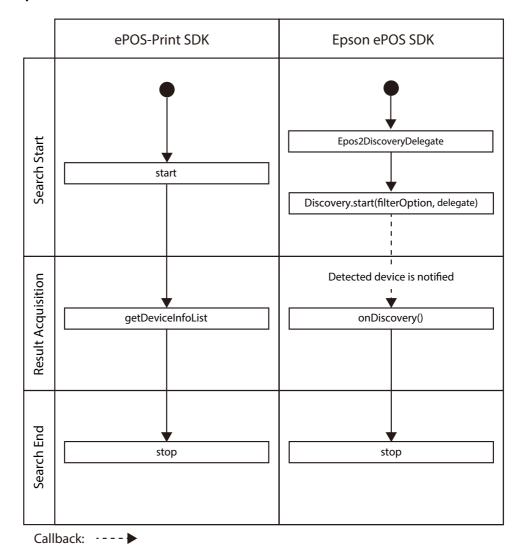
    if([status getOnline] != EPOS2_TRUE) {
        // status offline
    }

    if([status getBatteryLevel] == EPOS2_BATTERY_LEVEL_6) {
        // offline
    }
}
```

Printer search

In ePOS-Print SDK, the printer search results were obtained through the API, whereas in Epson ePOS SDK the search results are obtained with the callback method after the filtering settings have been configured.

Execution procedure differences



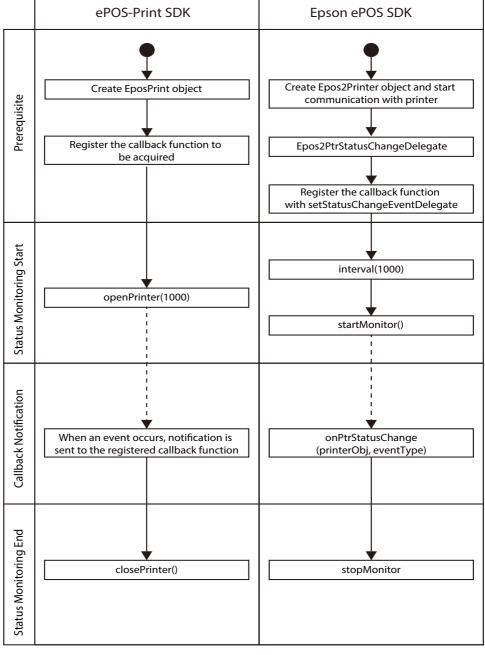
■ ePOS-Print SDK

```
@interface Sample () <Epos2DiscoveryDelegate>
- (void) discovery
{
          Epos2FilterOption *option = [Epos2FilterOption alloc]init];
          [Epos2Discovery start:option delegate:self];
          ...searching...
        [Epos2Discovery stop];
}
- (void) onDiscovery:(Epos2DeviceInfo *)deviceInfo
{
          NSString* target = [deviceInfo getTarget];
}
```

Monitoring of the status

In ePOS-Print SDK, the communication with the printer and status monitoring started at the same time, whereas in Epson ePOS SDK, status monitoring starts after the communication with the printer has been established.

Execution procedure differences



Callback: ----▶

■ ePOS-Print SDK

```
(void)onStatusChange:(NSString *)deviceName Status:(NSNumber *)status
{
...processing...
}
 (void)openPrinter
  id printer = [[EposPrint alloc] init];
  if ( printer != nil) {
     int errorStatus = EPOS_OC_SUCCESS;
     [printer setStatusChangeEventCallback @selector(onStatusChange:Status:)
Target:self];
     errorStatus = [printer openPrinter:EPOS_OC_DEVTYPE_TCP
        Name:@"192.168.192.168" Enabled: EPOS_OC_TRUE
        Interval:EPOS_OC_PARAM_DEFAULT Timeout:EPOS_OC_PARAM_DEFAULT];
      ...connection...
     errorStatus = [printer closePrinter];
  }
```

Changing API name

When performing migration from ePOS-Print SDK to Epson ePOS SDK, change the API name as follows.

• Change the initial letters of the argument keywords from upper case to lower case. The example below is for addImage.

Rename the APIs. The APIs that need to be renamed are listed in the table below. In some cases, multiple
APIs are bundled in one API, or one API is divided into several APIs. Among the APIs in the table below,
there are APIs where specifications other than the name have changed.

To see what has changed, compare APIs in the "ePOS-Print SDK for iOS User's Manual" and "Epson ePOS SDK for iOS User's Manual".

A list of API names to be changed

Function	ePOS-Print SDK	Epson ePOS SDK
Class initialization	initWithPrinterModel	initWithPrinterSeries
	init	
Adding the text line space settings to the instruction buffer	addTextLineSpace	addLineSpace
Adding the character size settings to the instruction buffer	addTextDouble	addTextSize
Adding the text printing position settings to the instruction buffer	addTextPosition	addHPosition
Starting communication	openPrinter	connect
Starting status monitoring		startMonitor
Terminating communication	closePrinter	disconnect
Terminating status monitoring		stopMonitor
Registering the notification destination of printer statuses	set Status Change Event Callback	setStatusChangeEventDelegate
Registering the notification destination of online events	set Online Event Callback	
Registering the notification destination of offline events	setOfflineEventCallback	
Registering the notification destination of power-off events	setPowerOffEventCallback	
Registering the notification destination of cover-closed events	set Cover Ok Event Callback	
Registering the notification destination of cover-open events	set Cover Open Event Callback	

Function	ePOS-Print SDK	Epson ePOS SDK
Registering the notification destination of paper OK events	set Paper Ok Event Callback	set Status Change Event Delegate
Registering the notification destination of paper near-end events	set Paper Near End Event Callback	
Registering the notification destination of paper end events	setPaperEndEventCallback	
Registering the notification destination of drawer-closed events	set Drawer Closed Event Callback	
Registering the notification destination of drawer-open events	set Drawer Open Event Callback	
Registering the notification destination of battery-low events	setBatteryLowEventCallback	
Registering the notification destination of battery level OK events	setBatteryOkEventCallback	
Registering the notification destination of battery statuses	set Battery Status Change Event Callback	
Obtaining printer search results	start getDeviceInfoList	start

Changing API parameters

When performing migration from ePOS-Print SDK to Epson ePOS SDK, change the parameters as follows.

• Change the parameters for Printer Easy Select to parameters for Epson ePOS SDK as shown in the table below.

ePOS-Print SDK	Epson ePOS SDK
EPOS_OC_DEVTYPE_TCP	EPOS_EASY_SELECT_DEVTYPE_TCP
EPOS_OC_DEVTYPE_BLUETOOTH	EPOS_EASY_SELECT_DEVTYPE_BLUETOOTH

• Change the parameter naming rule for ePOS-Print SDK to the rule for Epson ePOS SDK.

ePOS-Print SDK	Epson ePOS SDK
EPOS_OC_****	EPOS2_****

• Add or merge parameters, and add or delete setting values. The APIs where the parameters need to be changed are listed below.

To see what has changed, compare APIs in the "ePOS-Print SDK for iOS User's Manual" and "Epson ePOS SDK for iOS User's Manual".

A list of APIs with parameters to be changed

API	Parameter change	
addTextAlign	align settings added	
addTextRotate	rotate settings added	
addTextLang	lang settings added	
addTextFont	font settings added	
addTextSmooth	smooth settings added	
addTextSize	width/height settings added	
addTextStyle	reverse/ ul/ em/ color settings added	
addImage	compress settings added	
addBarcode	hri/ font settings added	
addPageDirection	direction settings added	
addPagePosition	x/ y settings added	
addSound	pattern/ repeat settings added	
	The pattern setting name changed	
sendData	Change to timeout only	
getStatus	No parameter, and value obtained with the return value	
createQR	The deviceType setting name changed	

Migration from ePOS-Device SDK

This chapter explains the method to perform migration of the applications that use ePOS-Device SDK to the applications that are compatible with Epson ePOS SDK.

Migration with ePOS-Device SDK-compatible APIs

You can perform migration to an Epson ePOS SDK-compatible application by replacing the configuration file without modifying the existing application program.

Migration procedure

The migration procedure is described below.

	Procedure Description		
1	SDK file replacement	Library file replacement	
		Refer to "SDK file replacement".	
2	Application building	Building a project for the application with SDK files being replaced	

This completes the migration with ePOS-Device SDK-compatible APIs.

SDK file replacement

Replace the following files that are included in the application project with Epson ePOS SDK files.

Туре	ePOS-Device SDK	ePOS-Device SDK-compatible API
Library	libeposdevice.a	libepos2.a

Application development with ePOS-Device SDK-compatible APIs

Refer to the following manuals for information that is necessary for the development and maintenance of the applications that use ePOS-Device SDK-compatible APIs.

Specifications for ePOS-Device SDK-compatible APIs: "ePOS-Device SDK for iOS User's Manual"

Migration with the Epson ePOS SDK APIs

You can perform migration to an Epson ePOS SDK-compatible application by modifying the existing application program. Many program modifications are necessary, but applications can be applied to new models and functions of TM printers or peripheral devices.

Migration procedure

The migration procedure is described below.

	Procedure	Description	
1	SDK file replacement	Header file and library file replacement	
		Refer to "SDK file replacement".	
2	Adding frameworks	Adding frameworks to the application project	
		Refer to " Adding frameworks".	
3	Changing import definitions	Changing the import definitions of the Objective-C header	
		Refer to " Changing import definitions".	
4	Changing classes	Changing the ePOS-Device SDK classes to the Epson ePOS SDK classes	
		Refer to "Changing classes".	
5	Changing APIs	Modifying the program or changing the ePOS-Device SDK APIs that have different specifications from those of Epson ePOS SDK	
		The changes are described below.	
		 Modifying the program to enable specific functions Modify the functions listed below 	
		 Establishing and cutting the communication with the device Refer to "Establishing and cutting the communication with the device". 	
		 Reconnection notifications Refer to "Reconnection notifications". 	
		• Printing Refer to "Printing".	
		 Forced sending Refer to "Forced sending". 	
		Obtaining callback Refer to " Obtaining callback".	
		Obtaining status Refer to " Obtaining status".	
		• Status monitoring Refer to " Monitoring of the status".	
		☐ Changing API names	
		API names to be changed (You may need to change parameters too)	
		Refer to " Changing API names".	
		☐ Changing API parameters API names do not change, but parameter changes are necessary. Refer to "Changing API parameters".	
6	Application building	Building a project for the modified application.	

This completes the migration with the Epson ePOS SDK APIs.

SDK file replacement

Replace the following files that are included in the application project with Epson ePOS SDK files.

Туре	ePOS-Device SDK	Epson ePOS SDK
Header file	ePOS-Device.h	ePOS2.h
Library	libeposdevice.a	libepos2.a

Adding frameworks

Incorporate the following framework file in the application project.

• ExternalAccessory.framework

Changing import definitions

Change the import definition of the Objective-C header that is included in the *.m source file of an application.

ePOS-Device SDK	Epson ePOS SDK
#import "ePOS-Device.h"	#import "ePOS2.h"

Changing classes

Change the classes of ePOS-Device SDK used in the application project to the classes of Epson ePOS SDK.

ePOS-Device SDK class names to be deleted

Class name	Details	
EposDevice class	The following functions of the EposDevice class are assigned to the APIs of each	
	class.	
	Establishing the communication path	
	Disconnecting the communication path	
	Obtaining the establishment status of the communication path	
	Obtaining administrator information	
	Obtaining installation location information	
	Registering the callback method for the reconnection processing start event	
	Registering the callback method for the reconnection end event	
	Registering the callback method for the network disconnection event	
EposCommBoxManager class	This is integrated in the CommBox class	

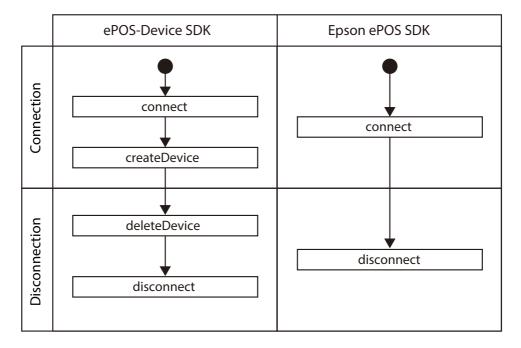
Class names to be changed

Туре	ePOS-Device SDK	Epson ePOS SDK
Printing function	EposPrinter class	Epos2Printer class
Device control	EposDisplay class	Epos2LineDisplay class
	EposKeyboard class	Epos2Keyboard class
	EposScanner class	Epos2BarcodeScanner class
Command trans- mission	EposSimpleSerial class	Epos2SimpleSerial class
Communication	EposCommBoxManager class	Epos2CommBox class
box	EposCommBox class	1
Log function	EposDeviceLog class	Epos2Log class

Establishing and cutting the communication with the device

In ePOS-Device SDK, the communication with each device used to start after the connection with ePOS-Device Service had been established, whereas in Epson ePOS SDK the communication starts for each individual device. Also, in ePOS-Device SDK, the connection with ePOS-Device Service used to terminate after the communication with the device had ended, whereas in Epson ePOS SDK the communication terminates for each individual device.

Execution procedure differences



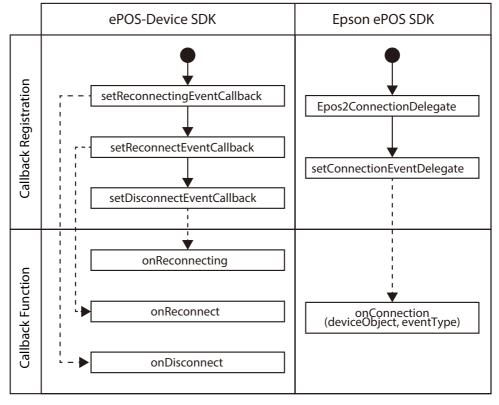
☐ ePOS-Device SDK

```
@interface Sample()
   EposDevice *device_;
   EposPrinter *printer_;
  (void) openPrinter
   device_ = [[EposDevice alloc] init];
   if ( device_ != nil) {
       int errorStatus = EDEV_OC_SUCCESS;
      errorStatus = [device connect:@"192.168.192.168" Collback:@selector(onConnect:Code)
Target:self];
 (void) onConnect:(NSString *)ipAddress Code:(int)code
    if(code == EDEV_OC_SUCCESS) {
        int errorStatus = [device_ createDevice:@"local_printer"
DeviceType:EDEV_OC_TYPE_PRINTER Crypto:EDEV_OC_FALSE Buffer:EDEV_OC_FALSE
Callback:@selector(onCreateDevice:DeviceId:DeviceType:DeviceObject:Code) Target:self];
- (void) onCreateDevice:(NSString *)ipAddress DeviceId:(NSString *)deviceId
DeviceType:(int)deviceType
          DeviceObject: (id) deviceObject Code: (int) code
   if(code == EDEV_OC_SUCCESS) {
        if(deviceType == EDEV_OC_TYPE_PRINTER) {
           printer_ = deviceObject;
   }
  (void) closePrinter
    if(printer_ != nil) {
        int errorStatus = [device_ deleteDevice:printer_
Callback:@selector(onDeleteDevice:DeviceId:Code) Target:self];
 (void) onDeleteDevice:(NSString *)ipAddress DeviceId:(NSString *)deviceId Code:(int)code
   if(code == EDEV_OC_SUCCESS) {
        [device_ disconnect];
```

Reconnection notifications

In ePOS-Device SDK, the registration was carried out through the API for each notification type, whereas in Epson ePOS SDK the APIs for the registration of notification destination are merged in one API and the processing is carried out for each notification type using the notification destination method.

Execution procedure differences



Callback: ----

□ ePOS-Device SDK

```
@interface Sample()
   EposDevice *device_;
 (void) openPrinter
   device_ = [EposDevice alloc]init];
   if(device_ != nil) {
        [device_ setReconnectingEventCallback:@selector(onReconnect:) Target:self];
        [device_ setReconnectEventCallback:@selector(onReconnect:) Target:self];
        [device_ setDisconnectEventCallback:@selector(onReconnect:) Target:self];
        ...connection...
   }
 (void) onReconnecting:(NSString *)ipAddress
    ...starting reconnection...
  (void) onReconnect:(NSString *)ipAddress
    ...reconnection end...
  (void) onDisconnect:(NSString *)ipAddress
    ...reconnection failed...
```

```
@interface Sample() <Epos2ConnectionDelegate>
  Epos2Printer *printer_;
  (void) openPrinter
   printer_ = [[Epos2Printer alloc] initWithPrinterSeries:EPOS2_TM_T88
                lang:EPOS2_MODEL_ANK];
   if(printer_ != nil) {
        [printer_ setConnectionEventDelegate:self];
        ...connection...
 (void) onConnection:(id)deviceObj eventType:(int)eventType
   if(eventType == EPOS2_EVENT_RECONNECTING) {
        ...starting reconnection...
    if(eventType == EPOS2_EVENT_RECONNECT) {
        ...reconnection end...
   if(eventType == EPOS2_EVENT_DISCONNECT) {
        ...reconnection failed...
    }
```

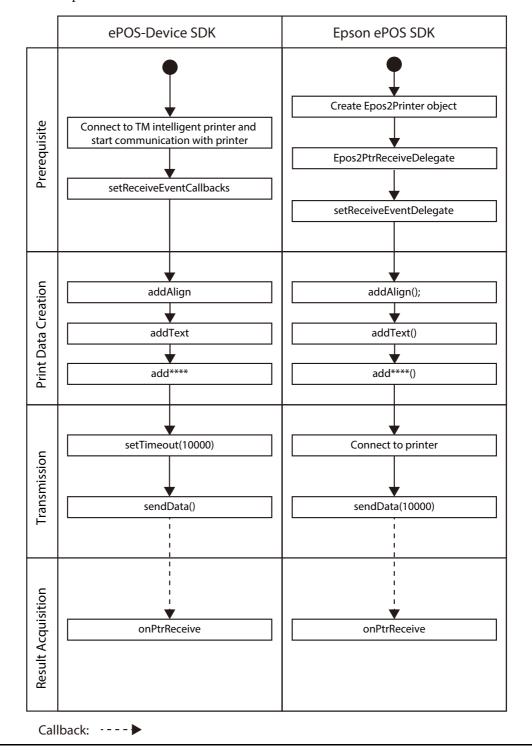
Printing

In ePOS-Device SDK, the printing data was created after the connection with the printer had been established, whereas in Epson ePOS SDK, the data can be created either before or after the connection with the printer is established.

Printing is possible without any modifications to the execution procedures of the existing programs.

Execution procedure differences

The execution procedure of Epson ePOS SDK is the procedure for creating printing data before establishing a connection with the printer.



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□ ePOS-Device SDK

☐ Epson ePOS SDK

The following program creates printing data before establishing a connection with the printer.

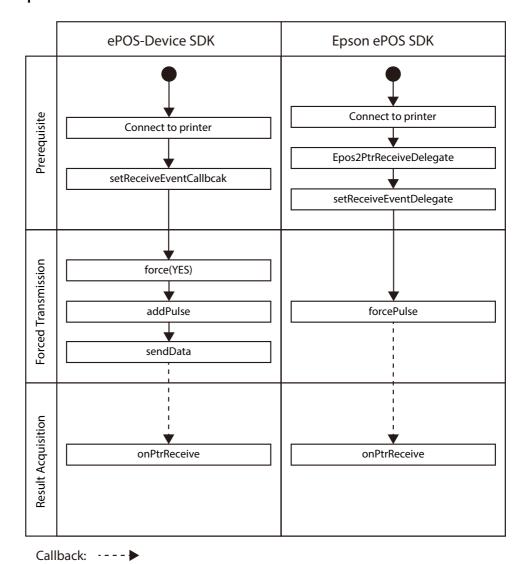
```
@interface Sample() <Epos2PtrReceiveDelegate>
{
    Epos2Printer *printer_;
}
- (void) openPrinter
{
    [printer_ setReceiveEventDelegate:self];
    int errorStatus = [printer_ addText:@"ABCDE"];
    ...connection...
    errorStatus = [printer_ sendData:EPOS2_PARAM_DEFAULT];
}
- (void) onPtrReceive:(Epos2Printer *)printerObj code:(int)code
status:(Epos2PrinterStatusInfo *)status printJobId:(NSString *)printJobId
{
    ...processing...
}
```

Forced sending

In ePOS-Device SDK, forced sending was carried out with 3 APIs, whereas in Epson ePOS SDK it is carried out with 1 API.

Also, in ePOS-Device SDK, forced sending was only enabled in offline mode, whereas in Epson ePOS SDK it can be carried out either in online or offline mode.

Execution procedure differences



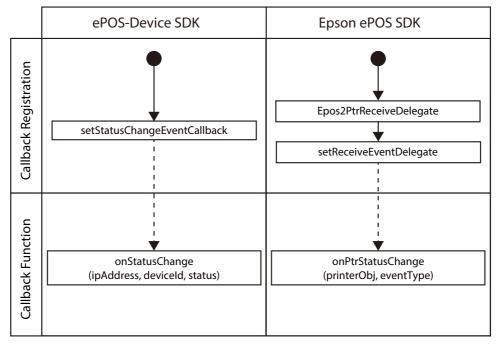
□ ePOS-Device SDK

```
@interface Sample()
                    EposPrinter *printer_;
        (void) openPrinter
{
                      ...connection...
                      [printer\_\ set Receive Event Callback : @selector (on Receive : Device Id : Success : Code : Status : Printer\_\ set Receive Event Callback : Printer\_\ set Receive Event Cal
                                                                                                                                                                                                                                                                 Battery) Target:self];
                      [printer_ setForce:YES];
                      [printer_ addPulse:EDEV_OC_DRAWER_1 Time:EDEV_OC_PULSE_100];
                      [printer_ sendData];
       (void)onReceive:(NSString *)ipAddress DeviceId:(NSString *)deviceId
                                                                Success: (int) success
                                                                                Code: (int)code
                                                                    Status: (NSNumber *) status
                                                                Battery: (NSNumber *)battery
                      ...processing...
```

Obtaining callback

In ePOS-Device SDK, a selector was used for callback processing, whereas in Epson ePOS SDK, a protocol is used for callback processing.

Execution procedure differences



Callback: ----▶

Program differences

■ ePOS-Device SDK

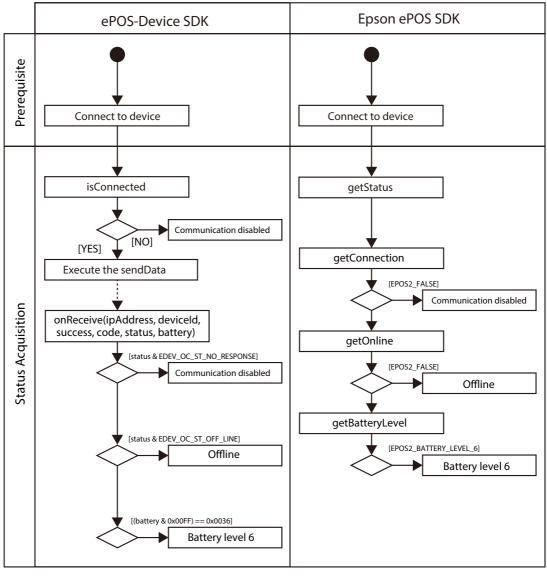
☐ Epson ePOS SDK

```
@interface Sample() <Epos2PtrStatusChangeDelegate>
{
    Epos2Printer *printer_;
}
- (void) openPrinter
{
     ...connection...
     [printer_ setStatusChangeEventDelegate:self];
     [printer_ startMonitor];
}
- (void) onPtrStatusChange:(Epos2Printer *)printerObj eventType:(int)eventType
{
     ...processing...
}
```

Obtaining status

In ePOS-Device SDK, the combinations of multiple printer statuses were obtained with the return value, whereas in Epson ePOS SDK, each status is obtained from PrinterStatusInfo-type properties.

Execution procedure differences



Callback: ----

Program differences

■ ePOS-Device SDK

```
@interface Sample()
    EposDevice *device_;
    EposPrinter *printer_;

    (void) getStatus

    ...connection...
    if([device_ isConnected] != YES) {
        ...disconnecting...
    [printer_ setReceiveEventCallback:@selector(onReceive:DeviceId:Success:Code:Status
                                        :Battery) Target:self];
    int errorStatus = [printer_ sendData];
- (void) onReceive: (NSString *)ipAddress
         DeviceId: (NSString *)deviceId
          Success: (int) success
             Code: (int)code
            Status: (NSNumber *) status
           Battery: (NSNumber *)battery
    if((status & EDEV_OC_ST_NO_RESPONSE) == EDEV_OC_ST_NO_RESPONSE) {
        // no response
    if((status & EDEV_OC_ST_OFF_LINE) == EDEV_OC_ST_OFF_LINE){
        // status offline
    if((battery & 0x00FF) == 0x0036){
        // battery level 6
```

☐ Epson ePOS SDK

```
@interface Sample()
{
    Epos2Printer *printer_;
}
- (void) getStatus
{
    ...connection...
    Epos2PrinterStatusInfo *status = [printer_ getStatus];

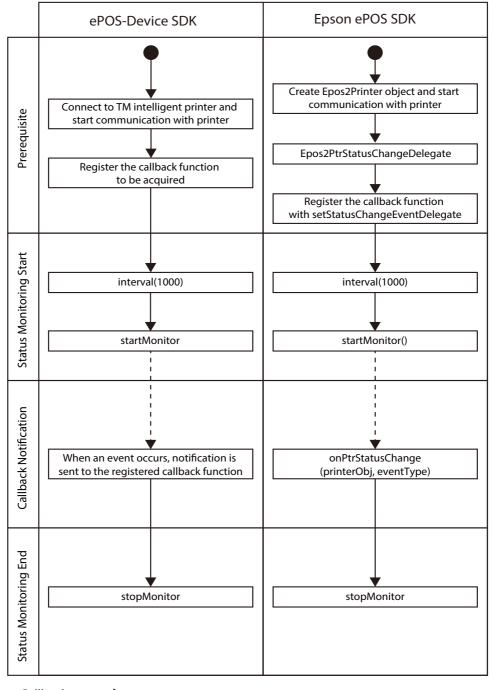
    if([status getConnection] != EPOS2_TRUE) {
        // no response
    }
    if([status getOnline] != EPOS2_TRUE) {
        // status offline
    }

if([status getBatteryLevel] == EPOS2_BATTERY_LEVEL_6) {
        // offline
    }
}
```

Monitoring of the status

In ePOS-Device SDK, the registration was carried out through the API for each status type, whereas in Epson ePOS SDK the APIs for the registration of notification destination are merged in one API and processing is selected using the notification destination method.

Execution procedure differences



Callback: ----▶

Program differences

■ ePOS-Device SDK

☐ Epson ePOS SDK

```
@interface Sample() <Epos2PtrStatusChangeDelegate>
{
    Epos2Printer *printer_;
}

- (void) openPrinter
{
    [printer_ setStatusChangeEventDelegate:self];
    ...connection...
    [printer_ startMonitor];

    [printer_ stopMonitor];
}

- (void) onPtrStatusChange:(Epos2Printer *)printerObj eventType:(int)eventType
{
    ...processing...
}
```

Changing API names

When performing migration from ePOS-Device SDK to Epson ePOS SDK, change the API name as follows.

• Change the initial letters of the argument keywords from upper case to lower case. The example below is for addImage.

```
ePOS-Device SDK

errorStatus = [printer addImage: imageData X: 0 Y: 0 Width: 256 Height: 256
Color: EDEV_OC_PARAM_DEFAULT Mode: EDEV_OC_MODE_MONO];

Epson ePOS SDK

errorStatus = [printer addImage: imageData x: 0 y: 0 width: 256 height: 256
color: EPOS2_PARAM_DEFAULT mode: EPOS2_MODE_MONO
halftone: EPOS2_HALFTONE_DITHER brightness: 1.0
compress: EPOS2_COMPRESS_NONE];
```

Rename the APIs. The APIs that need to be renamed are listed in the table below. In some cases, multiple
APIs are bundled in one API, one API is divided into several APIs, or some APIs have been deleted.
Among the APIs in the table below, there are APIs where specifications other than the name have changed.

To see what has changed, compare APIs in the "ePOS-Device SDK for iOS User's Manual" and "Epson ePOS SDK for iOS User's Manual".

A list of API names to be changed

Cla	ss	ePOS-Device SDK	Encon aDOS CDV
	Function	eros-pevice spk	Epson ePOS SDK
Cla	ss - common		<u>'</u>
	Class initialization	init	initWithPrinterSeries
			initWithDisplaySeries
			init
	Obtaining the device object	connect	connect
		createDevice	
	Discarding the device object	disconnect	disconnect
		deleteDevice	
	Obtaining the present status information	isConnected	getStatus
	Registering the notification destination of reconnection processing start event	set Reconnecting Event Callback	setConnectionEventDelegate
	Registering the notification destination of reconnection end event	setReconnectEventCallback	
	Registering the notification destination of network disconnection event	set Disconnect Event Callback	
Epo	osDisplay class		'
	Adding display area definition to the instruction buffer	createWindow	addCreateWindow
	Adding display area settings cancellation to the instruction buffer	destroyWindow	addDestroyWindow
	Adding display area switching to the instruction buffer	setCurrentWindow	addSetCurrentWindow

lass	ePOS-Device SDK	Epson ePOS SDK	
Function	ci os sevice sex	Epson er Os son	
posDisplay class			
Adding display area settings deletion to the instruction buffer.	clearWindow	addClearCurrentWindow	
Adding the cursor position to the instruction buffer	setCursorPosition	addSetCursorPosition	
Adding the cursor position in the display area to the instruction buffer	moveCursorPosition	addMoveCursorPosition	
Adding cursor type change to the instruction buffer	setCursorType	addSetCursorType	
Adding the marquee view to the instruction buffer	addMarquee	addMarqueeText	
Adding blinking display information to the instruction buffer	setBlink	addSetBlink	
Adding display brightness information to the instruction buffer	setBrightness	addSetBrightness	
Adding time displayed on the clock to the instruction buffer	ShowClock	addShowClock	
Resetting the customer display	reset	addInitiailze	
Registering the notification destination of control result reception events	SetReceiveEventCallback	setReceiveEventDelegate	
oosKeyboard class			
Registering the notification destination of pressed key detection events	set Key Press Event Callback	set Key Press Event Delegate	
Registering the notification destination of character string detection events	setStringEventCallback	setReadStringEventDelegate	
oos Printer class			
Adding the text line space settings to the instruction buffer	addTextLineSpace	addLineSpace	
Adding the character size settings to the	addTextSize	addTextSize	
instruction buffer	addTextDouble		
Adding the text printing position settings to the instruction buffer	addTextPosition	addHPosition	
Adding the vertical printing start position settings to the instruction buffer	addTextVPosition	addPagePosition	
Adding line feeding to the instruction	addFeedLine	addFeedLine	
buffer	addFeed		
Recovery from a recoverable error	recover	forceRecover	
Adding the error recovery tag	addRecovery		
Forced sending of the reset command to the printer	reset	forceReset	
Adding the reset tag of the printer	addReset		
Obtaining printing results	getPrintJobStatus	requestPrintJobStatus	
Obtaining the present status	setOnlineEventCallback	getStatus	
Setting the processing method for the halftone of the raster image	halftone properties	addImage	
Setting the correction value for the brightness of the raster image	brightness properties		

iss	ePOS-Device SDK	Epson ePOS SDK
Function	er 03-Device 3DK	Lpson er O5 5DK
os Printer class		
Forced sending	force properties	forceRecover
		forcePulse
		forceStopSound
		forceCommand
Setting the transmission timeout time	timeout properties	deleted
Status of the drawer signal line	drawerOpenLevel properties	deleted
Registering the notification destination of printer statuses	set Status Change Event Callback	setStatusChangeEventDelegate
Registering the notification destination of online events	setOnlineEventCallback	
Registering the notification destination of offline events	setOfflineEventCallback	
Registering the notification destination of power-off events	setPowerOffEventCallback	
Registering the notification destination of cover-closed events	setCoverOkEventCallback	
Registering the notification destination of cover-open events	setCoverOpenEventCallback	
Registering the notification destination of paper presence events	setPaperOkEventCallback	
Registering the notification destination of paper near-end events	set Paper Near End Event Callback	
Registering the notification destination of paper end events	setPaperEndEventCallback	
Registering the notification destination of drawer-closed events	setDrawerClosedEventCallback	
Registering the notification destination of drawer-open events	setDrawerOpenEventCallback	
Registering the notification destination of battery-low events	setBatteryLowEventCallback	
Registering the notification destination of battery level OK events	setBatteryOkEventCallback	
Registering the notification destination of battery statuses	setBatteryStatusChangeEvent- Callback	
Registering the notification destination of response document reception events	set Receive Event Callback	setReceiveEventDelegate
osScanner class		
Registering the notification destination of barcode data input events	set Data Event Callback	setScanEventDelegate
osSimpleSerial class		•
Registering the notification destination of reception events from the device	setCommandReplyEventCallback	setReceiveEventDelegate

Cla	nss	ePOS-Device SDK	Epson ePOS SDK	
	Function	er 03-Device 3DK		
Epo	osCommBox class			
	Creating a communication box	openCommBox	connect	
	Discarding the communication box	closeCommBox	disconnect	
	Sending a message to the communication box	sendData	sendMessage	
	Registering the notification destination for receiving a message in the communication box	set Receive Event Callback	set Receive Event Delegate	

Changing API parameters

When performing migration from ePOS-Device SDK to Epson ePOS SDK, change the parameters as follows.

• Change the parameter naming rule for ePOS-Device SDK to the rule for Epson ePOS SDK.

ePOS-Device SDK	Epson ePOS SDK
EDEV_OC_****	EPOS2_****

 Add or merge parameters, and add or delete setting values. The APIs where the parameters need to be changed are listed below.

To see what has changed, compare APIs in the "ePOS-Device SDK for iOS User's Manual" and "Epson ePOS SDK for iOS User's Manual".

A list of APIs with parameters to be changed

Class	Downward and the same
API	Parameter change
EposDisplay class	
addText	lang settings added
addReverseText	lang settings added
setReceiveEventListener	code value (for callback method) added
EposPrinter class	
sendData	Change to timeout only
addTextAlign	align settings added
addTextRotate	rotate settings added
addTextLang	lang settings added
addTextFont	font settings added
addTextSmooth	smooth settings added
addTextSize	width/height settings added
addTextStyle	reverse/ ul/ em/ color settings added
addlmage	halftone/ brightness parameters added
	compress settings added
addBarcode	hri/ font/ width/ height settings added
addSymbol	level/ width/ height/ size settings added
addPageDirection	direction settings added
addPagePosition	x/ y settings added
setReceiveEventListener	Callback method status/ battery parameters merged
	code value (for callback method) deleted
interval properties	Settings added
EposCommBox class	
getCommHistory	code value (for callback method) deleted

Appendix

ePOS-Print SDK-compatible API

A list of support APIs for each printer model

The following table lists the support APIs available for each model of printer.

The symbols used in the table represent the following:

- ✔: Supported
- -: Not supported.

АРІ	TM-m10	TM-m30	TM-T60	TM-T88VI	TM-T88VI-iHUB
addTextAlign	~	~	'	1	~
addTextLineSpace	~	~	~	~	~
addTextRotate	~	~	~	~	~
addText	~	~	~	~	~
addTextLang	~	~	'	1	~
addTextFont	~	~	'	1	~
addTextSmooth	~	~	~	~	~
addTextDouble	~	~	~	~	~
addTextSize	~	~	~	~	~
addTextStyle	~	~	~	~	~
addTextPosition	~	~	~	~	~
addFeedUnit	~	~	/	~	~
addFeedLine	~	~	~	~	~
addImage	~	~	/	~	~
addImage(Previous format)	~	~	/	~	~
addImage(Previous format)	~	~	~	~	'
addLogo	~	~	/	~	~
addBarcode	~	~	/	~	~
addSymbol	~	~	/	~	~
addPageBegin	~	~	/	~	~
addPageEnd	~	~	/	~	~
addPageArea	~	~	~	~	~
addPageDirection	~	~	~	~	~
addPagePosition	~	~	~	~	~
addPageLine	-	-	-	~	~
addPageRectangle	-	-	-	~	~
addCut	~	~	~	~	~

АРІ	TM-m10	TM-m30	TM-T60	TM-T88VI	TM-T88VI-iHUB
addPulse	~	~	/	~	/
addSound	~	/	-	/	~
addSound(Previous format)	~	~	-	~	~
addFeedPosition	-	-	-	~	~
addLayout	-	-	-	~	~
addCommand	~	~	~	~	~

TM-m10

The TM-m10 model information is listed in the table below.

		58 mm	
Resolution		203 dpi x 203 dpi (W x H)	
Country		ANK model	
		Japanese model	
		Traditional Chinese model	
Print Width		420 dots	
Characters in a Line Font A		ANK: 35 characters	
		Kanji ^{*1} : 17 characters	
	Font B	ANK: 42 characters	
		Kanji ^{*2} : 21 characters	
	Font C	ANK: 46 characters	
Character Size	Font A	ANK: 12 dots x 24 dots (W x H)	
		Kanji *1: 24 dots x 24 dots (W x H)	
	Font B	ANK: 10 dots x 24 dots (W x H)	
		Kanji *2: 20 dots x 24 dots (W x H)	
	Font C	ANK: 9 dots x 17 dots (W x H)	
Character Baseline	Font A	ANK; At the 21st dot from the top of the character	
		Kanji *1: At the 21st dot from the top of the character	
	Font B	ANK; At the 21st dot from the top of the character	
		Kanji *2: At the 21st dot from the top of the character	
	Font C	At the 16th dot from the top of the character	
Default Line Feed Space		30 dots	
Color Specification		First color	
Page Mode Default Area		420 dots x 2400 dots (W x H)	
Page Mode Maximum Are	a	420 dots x 2400 dots (W x H)	
Barcode		UPC-A, UPC-E, EAN13, JAN13, EAN8, JAN8, CODE39, ITF,CODABAR, CODE93,	
		CODE128, GS1-128,	
		GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Limited, GS1 DataBar Expanded	
Two-Dimensional Code		PDF417, QR Code, MaxiCode, GS1 DataBar Stacked,	
TWO-Dimensional Code		GS1 DataBar Stacked Omnidirectional,	
		GS1 DataBar Expanded Stacked, Aztec Code, Data Matrix	
		(Composite Symbology not supported)	
Paper Cut		Cut, Feed cut	
Drawer Kick-Out		Supported	
Buzzer		Option (Pattern A ~ Pattern E, Error, No paper, Stop)	
Battery		Not supported	
Bluetooth connection		Supported only by the TM-m10 Bluetooth® model.	
		•	

^{*1} Differs depending on the Multilingual Model specifications.

^{*2} Only for Japanese model.

For information about the APIs, refer to "ePOS-Print SDK for iOS User's Manual".

API	Parameter	Specifiable Settings Value	Description
initWithPrinterModel	printerModel	"TM-m10"	TM-m10 USB model
			TM-m10 Ethernet model
			TM-m10 Wi-Fi model
			• TM-m10 <i>Bluetooth</i> ® model
	lang	EPOS_OC_MODEL_ANK	ANK model
		EPOS_OC_MODEL_JAPANESE	Japanese model
		EPOS_OC_MODEL_TAIWAN	Traditional Chinese model
addTextFont	font	EPOS_OC_FONT_A	Font A
		EPOS_OC_FONT_B	Font B
		EPOS_OC_FONT_C	Font C
addImage	mode	EPOS_OC_MODE_MONO	Monochrome (2 tone)
		EPOS_OC_MODE_GRAY16	Multiple tone (16 tone)
		EPOS_OC_PARAM_DEFAULT	Default value ((Monochrome (2 tone))
	compress	EPOS_OC_COMPRESS_DEFLATE	Image compression is carried out.
		EPOS_OC_COMPRESS_NONE	Image compression is not carried out.
		EPOS_OC_PARAM_DEFAULT	Default value (Image compression is not carried out)

TM-m30

The TM-m30 model information is listed in the table below.

		58 mm	80 mm	
Resolution		203 dpi x 203 dpi (W x H)		
Country		ANK model		
		Japanese model		
		Simplified Chinese model		
		Traditional Chinese model		
		Korean model		
Print Width		420 dots	576 dots	
Characters in a Line	Font A	ANK: 35 characters	ANK: 48 characters	
		Kanji ^{*1} : 17 characters	Kanji *1: 24 characters	
	Font B	ANK: 42 characters	ANK: 57 characters	
		Kanji *2: 21 characters	Kanji *2: 28 characters	
		Kanji *3: 26 characters	Kanji *3: 36 characters	
	Font C	ANK: 46 characters	ANK: 64 characters	
Character Size	Font A	ANK: 12 dots x 24 dots (W x H) / Kanji	*1: 24 dots x 24 dots (W x H)	
	Font B	10 dots x 24 dots (W x H)		
		Kanji *2: 20 dots x 24 dots (W x H) / Kanji *3: 16 dots x 16 dots (W x H)		
	Font C	9 dots x 17 dots (W x H)		
Character Baseline	Font A	ANK; At the 21st dot from the top of the character		
		Kanji *1: At the 21st dot from the top of the character		
	Font B	At the 21st dot from the top of the character		
		Kanji *2: At the 21st dot from the top of the character		
		Kanji *3: At the 15th dot from the top	of the character	
	Font C	At the 16th dot from the top of the ch	naracter	
Default Line Feed Space	•	30 dots		
Color Specification		First color		
Page Mode Default Area		420 dots x 2400 dots (W x H)	576 dots x 2400 dots (W x H)	
Page Mode Maximum Area		420 dots x 2400 dots (W x H)	576 dots x 2400 dots (W x H)	
Barcode			AN8, CODE39, ITF,CODABAR, CODE93,	
		CODE128, GS1-128, GS1 DataBar Omnidirectional, GS1 DataBar Truncated,		
		GS1 DataBar Limited, GS1 DataBar Expanded		
Two-Dimensional Code		PDF417, QR Code, MaxiCode, GS1 Data		
		Aztec Code, Data Matrix	nal, GS1 DataBar Expanded Stacked,	
		(Composite Symbology not supported)		
Paper Cut		Cut, Feed cut		
Drawer Kick-Out		Supported		
Buzzer		Option (Pattern A ~ Pattern E, Error, No paper, Stop)		
Battery		Not supported		
Bluetooth connection		Supported only by the TM-m30 <i>Bluetooth</i> ® model.		

 $^{^{*}1}$ Differs depending on the Multilingual Model specifications.

^{*2} Only for Japanese model.

^{*3} Only for Korean model.

For information about the APIs, refer to "ePOS-Print SDK for iOS User's Manual".

API	Parameter	Specifiable Settings Value	Description
initWithPrinterModel	printerModel	"TM-m30"	TM-m30 Standard model
			• TM-m30 <i>Bluetooth</i> ® model
	lang	EPOS_OC_MODEL_ANK	ANK model
		EPOS_OC_MODEL_JAPANESE	Japanese model
		EPOS_OC_MODEL_CHINESE	Simplified Chinese model
		EPOS_OC_MODEL_TAIWAN	Traditional Chinese model
		EPOS_OC_MODEL_KOREAN	Korean model
addTextFont	font	EPOS_OC_FONT_A	Font A
		EPOS_OC_FONT_B	Font B
		EPOS_OC_FONT_C	Font C
addlmage	mode	EPOS_OC_MODE_MONO	Monochrome (2 tone)
		EPOS_OC_MODE_GRAY16	Multiple tone (16 tone)
		EPOS_OC_PARAM_DEFAULT	Default value ((Monochrome (2 tone))
	compress	EPOS_OC_COMPRESS_DEFLATE	Image compression is carried out.
		EPOS_OC_COMPRESS_NONE	Image compression is not carried out.
		EPOS_OC_PARAM_DEFAULT	Default value (Image compression is not carried out)

TM-T60

The TM-T60 model information is listed in the table below.

		80 mm	
Resolution		203 dpi x 203 dpi (W x H)	
Country		Simplified Chinese model	
Print Width		576 dots	
Characters in a Line	ters in a Line Font A ANK: 48 characters		
		Kanji: 24 characters	
	Font B	ANK: 64 characters	
Character Size	Font A	ANK: 12 dots x 24 dots (W x H)	
		Kanji: 24 dots x 24 dots (W x H)	
	Font B	9 dots x 17 dots (W x H)	
Character Baseline Font A ANK: At the 21st dot from the top of the character		ANK: At the 21st dot from the top of the character	
		Kanji: At the 21th dot from the top of the character	
	Font B	At the 16th dot from the top of the character	
Default Line Feed Space		30 dots	
Color Specification		First color	
Page Mode Default Area		576 dots x 831 dots (W x H)	
Page Mode Maximum Area		576 dots x 1662 dots (W x H)	
Barcode		UPC-A, UPC-E, EAN13, JAN13, EAN8, JAN8, CODE39, ITF,CODABAR, CODE93, CODE128	
Two-Dimensional Code		PDF417, QR Code	
Paper Cut		Cut, Feed cut	
Drawer Kick-Out		Supported	
Buzzer		Not supported	
Battery		Not supported	

API information

For information about the APIs, refer to "ePOS-Print SDK for iOS User's Manual".

API	Parameter	Specifiable Settings Value	Description
initWithPrinterModel	printerModel	"TM-T60"	TM-T60
	lang	EPOS_OC_MODEL_CHINESE	Simplified Chinese model
addTextFont	font	EPOS_OC_FONT_A	Font A
		EPOS_OC_FONT_B	Font B
addlmage	mode	EPOS_OC_MODE_MONO	Monochrome (2 tone)
		EPOS_OC_PARAM_DEFAULT	Default value ((Monochrome (2 tone))
	compress	EPOS_OC_COMPRESS_NONE	Image compression is not carried out.
		EPOS_OC_PARAM_DEFAULT	Default value (Image compression is not carried out)

TM-T88VI

The TM-T88VI model information is listed in the table below.

		58 mm	80 mm
Resolution		180 dpi x 180 dpi (W x H)	
Country		ANK model	
		Japanese model	
		Simplified Chinese model	
		Traditional Chinese model	
		Korean model	
		South Asian model	
Print Width		360 dots	512 dots
Characters in a Line	Font A	ANK: 30 characters	ANK: 42 characters
		Kanji ^{*1} : 15 characters	Kanji ^{*1} : 21 characters
	Font B	ANK: 40 characters	ANK: 56 characters
		Kanji ^{*2} : 22 characters	Kanji ^{*2} : 32 characters
	Special font A *3	30 characters	42 characters
	Special font B *3	40 characters	56 characters
Character Size	Font A	ANK: 12 dots x 24 dots (W x H) / Kanji	*1: 24 dots x 24 dots (W x H)
	Font B	ANK: 9 dots x 17 dots (W x H) / Kanji *	² : 16 dots x 16 dots (W x H)
	Special font A *3	12 dots x 24 dots (W x H)	
Special font B *3		9 dots x 24 dots (W x H)	
Character Baseline	Font A	ANK: At the 21st dot from the top of the character	
		Kanji *1: At the 21st dot from the top of the character	
Font B		ANK: At the 16th dot from the top of the character	
		Kanji *2: At the 15th dot from the top of the character	
	Special font A *3	At the 20th dot from the top of the character	
	Special font B *3	At the 20th dot from the top of the character	
Default Line Feed Space		30 dots	
Color Specification		First color	
Page Mode Default Area	1	360 dots x 831 dots (W x H)	512 dots x 831 dots (W x H)
Page Mode Maximum A	rea	360 dots x 2400 dots (W x H)	512 dots x 2400 dots (W x H)
Barcode		UPC-A, UPC-E, EAN13, JAN13, EAN8, JAN8, CODE39, ITF, CODABAR, CODE93, CODE128, GS1-128, GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Limited, GS1 DataBar Expanded	
Two-Dimensional Code		PDF417, QR Code, MaxiCode, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Expanded Stacked, Aztec Code, Data Matrix (Composite Symbology not supported)	
Paper Cut		Cut, Feed cut	
Drawer Kick-Out		Supported	
Buzzer		Option (Pattern A ~ Pattern E, Error, No paper, Stop)	
Battery		Not supported	
Bluetooth connection		Supported only by the TM-T88VI Bluetooth® model.	

 $^{^{\}star}1$ Differs depending on the Multilingual Model specifications.

^{*2} Only for Korean model.

^{*3} Only for South Asian model.

For information about the APIs, refer to "ePOS-Print SDK for iOS User's Manual".

API	Parameter	Specifiable Settings Value	Description
initWithPrinterModel	printerModel	"TM-T88VI"	TM-T88VI
	lang	EPOS_OC_MODEL_ANK	ANK model
		EPOS_OC_MODEL_JAPANESE	Japanese model
		EPOS_OC_MODEL_CHINESE	Simplified Chinese model
		EPOS_OC_MODEL_TAIWAN	Traditional Chinese model
		EPOS_OC_MODEL_KOREAN	Korean model
		EPOS_OC_MODEL_SOUTHASIA	South Asian model
addTextFont	font	EPOS_OC_FONT_A	Font A
		EPOS_OC_FONT_B	Font B
addlmage	mode	EPOS_OC_MODE_MONO	Monochrome (2 tone)
		EPOS_OC_MODE_GRAY16	Multiple tone (16 tone)
		EPOS_OC_PARAM_DEFAULT	Default value ((Monochrome (2 tone))
	compress	EPOS_OC_COMPRESS_DEFLATE	Image compression is carried out.
		EPOS_OC_COMPRESS_NONE	Image compression is not carried out.
		EPOS_OC_PARAM_DEFAULT	Default value (Image compression is not carried out)

TM-T88VI-iHUB

The TM-T88VI-iHUB model information is listed in the table below.

		58 mm	80 mm
Resolution		180 dpi x 180 dpi (W x H)	
Country		ANK model	
		Japanese model	
		Simplified Chinese model	
		Traditional Chinese model	
		Korean model	
		South Asian model	
Print Width		360 dots	512 dots
Characters in a Line	Font A	ANK: 30 characters	ANK: 42 characters
		Kanji *1: 15 characters	Kanji ^{*1} : 21 characters
	Font B	ANK: 40 characters	ANK: 56 characters
		Kanji *2: 22 characters	Kanji ^{*2} : 32 characters
	Special font A *3	30 characters	42 characters
	Special font B *3	40 characters	56 characters
Character Size Font A ANK: 12 dots x 24 dots (W x H) / Kanji *1: 24 d		*1: 24 dots x 24 dots (W x H)	
	Font B	ANK: 9 dots x 17 dots (W x H) / Kanji *2	² : 16 dots x 16 dots (W x H)
	Special font A *3	12 dots x 24 dots (W x H)	
	Special font B *3	9 dots x 24 dots (W x H)	
Character Baseline	Font A	ANK: At the 21st dot from the top of the character	
Font B Special font A *3		Kanji *1: At the 21st dot from the top of the character	
		ANK: At the 16th dot from the top of the character	
		Kanji *2: At the 15th dot from the top of the character	
		At the 20th dot from the top of the character	
	Special font B*3 At the 20th dot from the top of the character		aracter
Default Line Feed Space		30 dots	
Color Specification		First color	
Page Mode Default Area		360 dots x 831 dots (W x H)	512 dots x 831 dots (W x H)
Page Mode Maximum Ai	rea	360 dots x 2400 dots (W x H)	512 dots x 2400 dots (W x H)
Barcode		UPC-A, UPC-E, EAN13, JAN13, EAN8, JAN8, CODE39, ITF, CODABAR, CODE93,	
		CODE128, GS1-128, GS1 DataBar Omnidirectional, GS1 DataBar Truncated,	
		GS1 DataBar Limited, GS1 DataBar Expanded	
Two-Dimensional Code		PDF417, QR Code, MaxiCode, GS1 DataBar Stacked, GS1 DataBar Stacked	
		Omnidirectional, GS1 DataBar Expanded Stacked, Aztec Code, Data Matrix (Composite Symbology not supported)	
Paper Cut		Cut, Feed cut	
Drawer Kick-Out		Supported	
Buzzer		Option (Pattern A ~ Pattern E, Error, No paper, Stop)	
		Not supported	
Battery		Not supported	

 $^{^{*}1}$ Differs depending on the Multilingual Model specifications.

^{*2} Only for Korean model.

^{*3} Only for South Asian model.

For information about the APIs, refer to "ePOS-Print SDK for iOS User's Manual".

API	Parameter	Specifiable Settings Value	Description
initWithPrinterModel	printerModel	"TM-T88VI"	TM-T88VI
	lang	EPOS_OC_MODEL_ANK	ANK model
		EPOS_OC_MODEL_JAPANESE	Japanese model
		EPOS_OC_MODEL_CHINESE	Simplified Chinese model
		EPOS_OC_MODEL_TAIWAN	Traditional Chinese model
		EPOS_OC_MODEL_KOREAN	Korean model
		EPOS_OC_MODEL_SOUTHASIA	South Asian model
addTextFont	font	EPOS_OC_FONT_A	Font A
		EPOS_OC_FONT_B	Font B
addlmage	mode	EPOS_OC_MODE_MONO	Monochrome (2 tone)
		EPOS_OC_MODE_GRAY16	Multiple tone (16 tone)
		EPOS_OC_PARAM_DEFAULT	Default value ((Monochrome (2 tone))
	compress	EPOS_OC_COMPRESS_DEFLATE	Image compression is carried out.
		EPOS_OC_COMPRESS_NONE	Image compression is not carried out.
		EPOS_OC_PARAM_DEFAULT	Default value (Image compression is not carried out)