

Epson TM Print Assistant for iOS

User's Manual

Overview

System Configuration

Application Development

Sample Programs

Application Guide

Appendix

Precautions

- Unauthorized duplication, copying, reproduction, or modification of any part or all of this document is strictly prohibited.
- Contents of this manual are subject to change without prior notice. Contact us directly for the most recent information.
- Every effort is made to ensure that the contents of this manual are without error. Please contact us if any errors or other issues are found.
- The previous statement notwithstanding, we will not be liable for any negative impact as a result of use.
- Epson shall not be liable for any damages caused as a result of using this product incorrectly, failing to comply with the content of this document, or having repair or modifications performed by third parties other than Epson or those specified by Epson.
- Epson shall not be liable for any issues as a result of installing optional parts or consumables that are not genuine Epson parts or parts certified by Epson.

Trademarks

EPSON and EXCEED YOUR VISION are registered trademarks of Seiko Epson Corporation.

AirPlay, iPad, iPhone, iPod, iPod classic, iPod nano, iPod touch, and Retina are trademarks of Apple Inc., registered in the U.S. and other countries. iPad Air, iPad mini, and Lightning are trademarks of Apple Inc.

The trademark "iPhone" is used with a license from Aiphone K.K.

Safari® is trademark of Apple Inc. registered in the US and other countries.

Google Chrome™ is a trademark of Google Inc.

IOS® is a trademark or registered trademark of Cisco in the US and other countries.

The Bluetooth® word mark and logo is a registered trademark of Bluetooth SIG, Inc. Seiko Epson uses these trademarks under the terms of license. Other trademarks and tradenames are the property of their respective owners.

FileMaker® and FileMaker Go® are registered trademarks of FileMaker, Inc. in the US and other countries.



Other company names or product names are trademarks or registered trademarks of their respective companies.

© Seiko Epson Corporation 2018. All rights reserved.

Safety Precautions

Meaning of Symbols

The following symbols are used in this manual. Make sure to understand the meaning of these symbols before using the product.

| | |
|---|--|
|  | Describes usage precautions that must be observed. Incorrect handling due to the disregard of this information may result in product failure or incorrect operation. |
|  | Describes additional explanation or other useful information. |

Usage Limitations

Please use our products in environments and systems designed with consideration to safety and disaster recovery such as fail-safe configurations and redundant designs, for example, if this product is used in applications in which a high level of reliability and safety in functionality and precision is required such as in aircraft, trains, ships, automobiles and other transportation-related applications or in crime prevention equipment and safety equipment.

This product is not intended for use in applications that require extremely high levels of reliability and safety such as in aerospace equipment, trunk-line communications equipment, nuclear power control equipment, and medical equipment. Consider your usage environment and requirements carefully before using this product in such applications.

About this Manual

Purpose of this Manual

This manual provides the information necessary to develop systems using Epson TM Print Assistant.

Organization of this Manual

This manual is organized into the following chapters.

| | |
|-----------|---|
| Chapter 1 | Overview |
| Chapter 2 | System Configuration |
| Chapter 3 | Application Development |
| Chapter 4 | Sample Programs |
| Chapter 5 | Application Guide |
| Appendix | x-callback-url |

Contents

| | |
|-----------------------------------|----------|
| ■ Safety Precautions | 3 |
| Meaning of Symbols..... | 3 |
| ■ Usage Limitations | 3 |
| ■ About this Manual | 3 |
| Purpose of this Manual..... | 3 |
| Organization of this Manual | 3 |
| ■ Contents | 4 |

Overview 6

| | |
|---|----------|
| ■ Epson TM Print Assistant | 6 |
| ■ Operating Environment | 6 |
| ■ Downloadable Content | 7 |
| Packages | 7 |
| Related Manuals..... | 7 |

System Configuration 8

| | |
|--|----------|
| ■ System Configuration Flow | 8 |
| Connecting to TM Printer | 9 |

Application Development 11

| | |
|----------------------------------|-----------|
| ■ Overview | 11 |
| ■ Specifications | 12 |
| URL Scheme..... | 12 |
| Error Code List..... | 15 |
| ■ ePOS-Print Editor | 17 |

Sample Programs 19

| | |
|--------------------------------------|-----------|
| ■ Functionality | 19 |
| ■ Operating Environment | 19 |
| ■ Setup | 20 |
| Preparation | 20 |
| HTML Sample | 20 |
| FileMaker Sample | 20 |

Application Guide.....21

■ Error Handling by Web Application 21

Error Notification by Epson TM Print Assistant 21

Error Notification by Web Application 22

■ Error Handling by FileMaker Application 23

Error Notification by Epson TM Print Assistant 23

Error Notification by FileMaker Application..... 24

■ Outputting Application Log 25

Enabling Log Output Function 25

Log Output Location 26

Appendix27

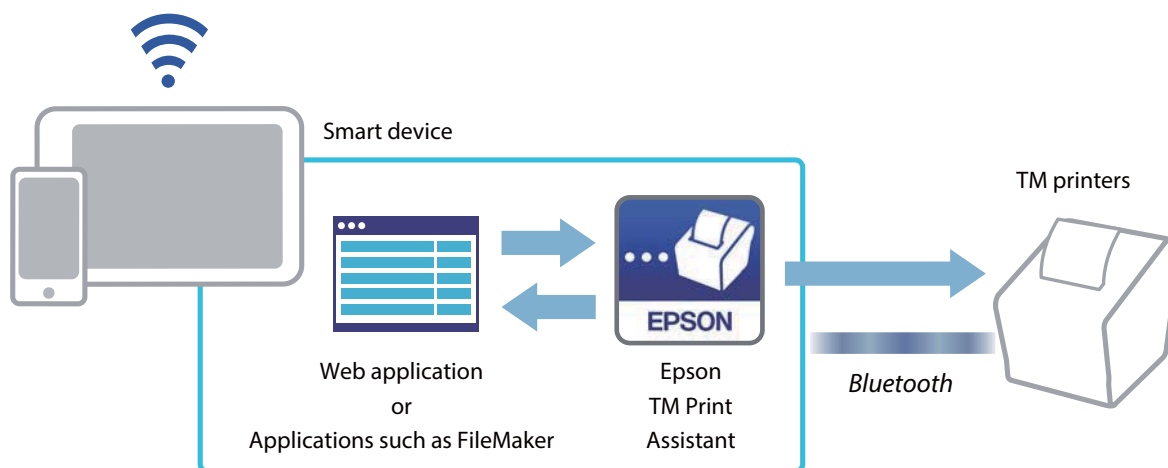
■ x-callback-url 27

URL Scheme..... 27

Overview

Epson TM Print Assistant is a native application which passes print data between applications and TM printers. Using Epson TM Print Assistant, you can develop a system which allows for printing data from a Web application or an application which can be linked with URL schemes (e.g., FileMaker) on a TM printer connected with a smart device via *Bluetooth*.

The URL scheme uses queries defined by Epson TM Print Assistant.



Connection via network also supported.

Epson TM Print Assistant

Epson TM Print Assistant sends received print data to a TM printer connected with a smart device. You can use the Epson TM Print Assistant functions to easily connect a smart device and TM printer.

Search for "Epson TM Print Assistant" on App Store and download it. When you get update notification from App Store, check it and update Epson TM Print Assistant.

Operating Environment

Refer to README file for the OSes, smart devices, Web browsers, and TM printers supported by Epson TM Print Assistant.

Downloadable Content

Packages

Epson TM Print Assistant packages include the following files.

| Filename | Description |
|---------------------------------------|---|
| TM_Print_Assistant_iOS_Sample.ja.zip | Contains Japanese sample program files for iOS. |
| TM_Print_Assistant_iOS_Sample.en.zip | Contains English sample program files for iOS. |
| README.ja.txt | This is the Japanese README file. |
| README.en.txt | This is the English README file. |
| TM_Print_Assistant_iOS_um_ja_revx.pdf | This is the Japanese user manual. |
| TM_Print_Assistant_iOS_um_en_revx.pdf | This is the English user manual. |

Related Manuals

- ❑ ePOS-Print XML User's Manual
- ❑ Technical Reference Guide of each TM printer

For customers in North America, go to the following web site:

<http://www.epson.com/support/>

For customers in other countries, go to the following web site:

<https://download.epson-biz.com/?service=pos>

System Configuration

This chapter explains how to configure a system using Epson TM Print Assistant.

System Configuration Flow

1. Setting Up Devices

Install the TM printer and set up the smart device.
Refer to the manual provided for details.



2. Installing and Setting Up Epson TM Print Assistant

Install Epson TM Print Assistant on your smart device and connect the smart device and TM printer.
Refer to [Epson TM Print Assistant](#) for downloading Epson TM Print Assistant.
Refer to [Connecting to TM Printer](#) for connecting your smart device and TM printer.



3. Setting Up Application

Set up the application to use it on your smart device.
Refer to [Application Development](#) for application development.



4. Operation Test

Use the application to perform test printing on the TM printer.
Use the provided sample program for the operation test.
Refer to [Sample Programs](#) for more information.

Connecting to TM Printer

The following procedure uses *Bluetooth* connection.

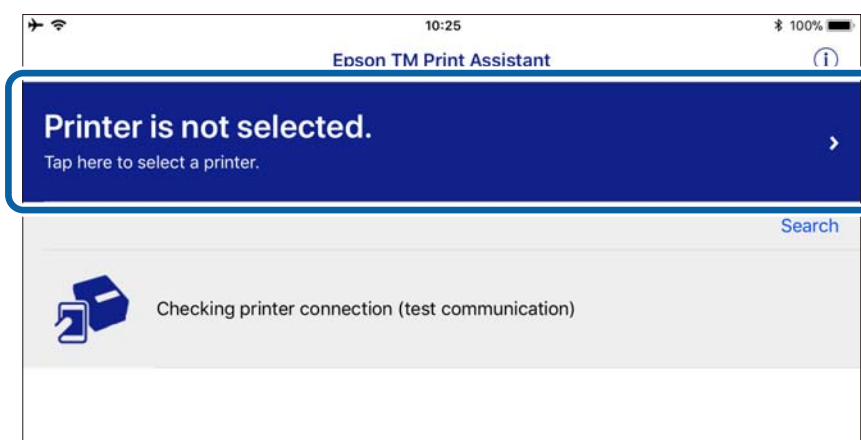
- 1 Enable *Bluetooth* connection on your smart device and TM printer.



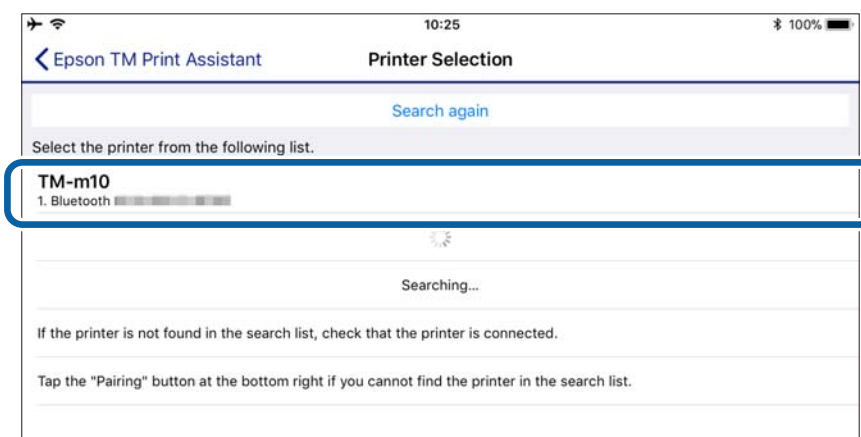
Refer to the Technical Reference Guide of the TM printer for *Bluetooth* connection setting of the TM printer.

- 2 Launch Epson TM Print Assistant.

- 3 Tap [Printer is not selected.].



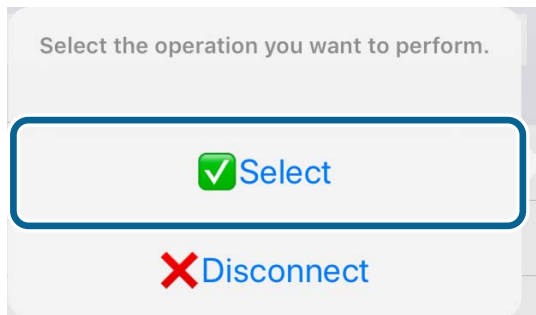
- 4 Choose the TM printer to use from the list.



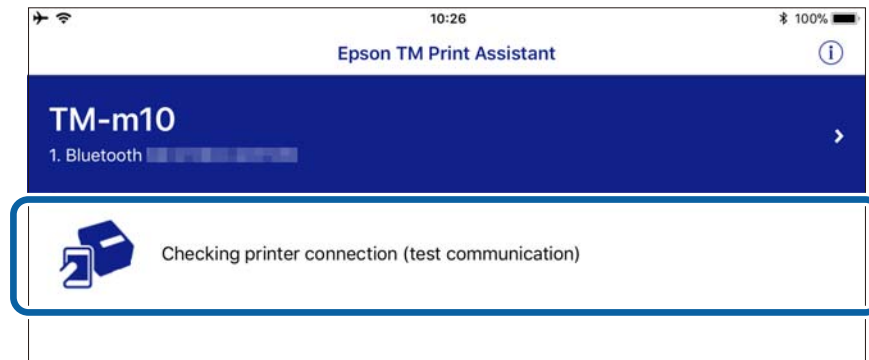
5 Tap [Select].



Note that it is not shown when connecting to the printer via wired or wireless LAN.



6 Tap [Checking printer connection (test communication)].

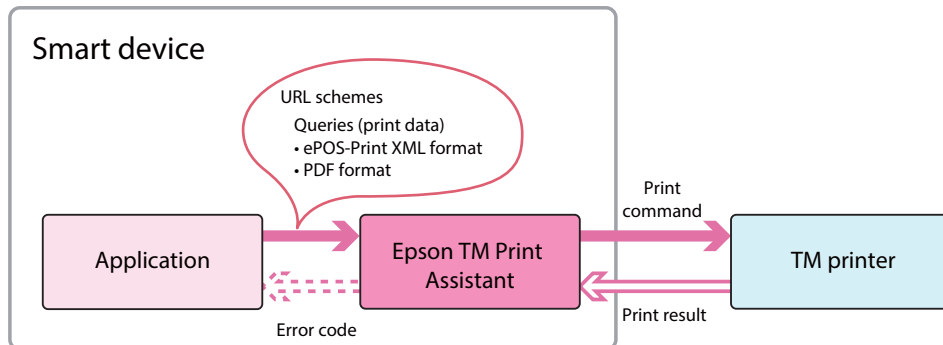


7 When the test communication succeeds, the TM printer is ready for printing.

Application Development

This chapter provides information necessary to develop an application used with a system configured using Epson TM Print Assistant.

Overview



An application invokes Epson TM Print Assistant by the URL scheme and uses queries to transfer print data to it. When Epson TM Print Assistant receives print data, it sends the print command to the TM printer. The TM printer returns the print result to Epson TM Print Assistant. When the print result is an error, Epson TM Print Assistant displays an error message according to received status.



You can choose to display the error message in the application or Epson TM Print Assistant depending on the system requirements. Refer to [Application Guide](#) for more information.

Print data can be in one of the following formats:

- ePOS-Print XML format
- PDF format

Specifications

URL Scheme

This section explains the queries used in a URL scheme.

URL encode (RFC3986) is used for the data format in URL schemes.

Syntax

[scheme]://[host]/[action]?[action parameters]

scheme

Specifies "tmprintassistant" as the URL scheme name to invoke Epson TM Print Assistant.

host

Specifies "tmprintassistant.epson.com" as the URL host.

action

Specifies "print" as the identifier of the action executed by Epson TM Print Assistant.

action parameters

Specifies action parameters such as caller application name, print data and its option parameters, and so on.

Specified format: "key1=value1&key2=value2"

| Query | Functionality | Description | | |
|-----------|--|-----------------|---|---------|
| | | Input condition | Set value | Default |
| success | URL displayed when Epson TM Print Assistant has terminated normally | Can be omitted | URL encoding format (RFC3986) | - |
| error | URL displayed when an error has occurred in Epson TM Print Assistant | Can be omitted | URL encoding format (RFC3986) | - |
| ver | Version number | Required | Integer: 1 (fixed) | - |
| data-type | Print data type | Required | <ul style="list-style-type: none"> ePOS-Print XML format: eposprintxml PDF format: pdf | |
| data | Print data | Required | Data type: eposprintxml Maximum data length: Approximately 750 KB | - |
| | | | Data type: pdf <ul style="list-style-type: none"> Base64 data format Maximum data length: Approximately 750 KB (PDF size: Approximately 500KB*¹) | - |

| Query | Functionality | Description | | |
|-------------------------------|---|-----------------|--------------------------|---------|
| | | Input condition | Set value | Default |
| timeout | Operation timeout period (ms) for Epson TM Print Assistant | Can be omitted | Integer: 10000 to 300000 | 15000 |
| error-dialog | Error notification by Epson TM Print Assistant | Can be omitted | yes/no | yes |
| reselect | Printer reconfiguration upon communication error | Can be omitted | yes/no | no |
| drawer-open | Drawer setting | Can be omitted | pin2/pin5/no | no |
| cut | Cutter setting | Can be omitted | feed/no-feed/no | no |
| pairing-off | Disabling <i>Bluetooth</i> pairing after printing | Can be omitted | yes/no | no |
| fit-to-width ^{*2} | Expanding or reducing the PDF's page in accordance with either of the following: <ul style="list-style-type: none"> the paper width specified in paper-width the printable width specified in printable-width | Can be omitted | yes/no | no |
| paper-width ^{*2} | Paper width specification (mm) ^{*3} | Can be omitted | 58/80 | 80 |
| printable-width ^{*2} | Printable width specification (mm) ^{*4} Use when setting the printable width in detail | Can be omitted | 20.0 to 80.0 | 72 |

*1: Approximate data size before Base64 conversion

*2: Available when pdf is specified in data-type

*3: When 80mm selected: the width of PDF's page is adjusted to 72 mm.

When 58mm selected: the width is adjusted to 50.8mm.

*4: Configure according to your TM printer's printable width. Refer to the printable width list of TM printers in README for the specifications.

Print data

| Print data format | Description |
|-------------------|---|
| ePOS-Print XML | Use XML command of ePOS-Print XML to create ePOS-Print XML format data. Refer to "XML Reference" in the ePOS-Print XML User's Manual for details of XML commands. You can create XML print data using the ePOS-Print Editor supplied with ePOS-Print XML. Refer to ePOS-Print Editor for more information. |
| PDF | Create PDF data according to your TM printer's printable width. Refer to README for the specifications of your printer's printable width. Otherwise, use fit-to-width/paper-width/printable-width queries. Use the data converted with Base64 for this format. |

Example

The following is an example of transferring print data in the ePOS-Print XML format.

When printing is successful, control is returned to the caller application. When an error occurs, Epson TM Print Assistant opens a dialog to report the error.

Replace %%% with the IP address of the server.

```
tmprintassistant://tmprintassistant.epson.com/print?
success=http://%%%/success.html&
ver=1&
data-type=eposprintxml&
data=**XMLData**&
error-dialog=yes
```



If you use Google Chrome, change the "http" in the URL scheme to "googlechrome".

Execution Result

Print result returned by Epson TM Print Assistant.

To display error messages in Epson TM Print Assistant, specify "yes" in the error-dialog query of the print command.

To display error messages in the application, specify the application path in the error query of the print command and program the application to process the code and message queries.



Refer to [Application Guide](#).

| Query | Functionality | Description | | |
|---------|-----------------------------|-----------------|--|---------|
| | | Input condition | Set value | Default |
| code | Error code for print result | - | Refer to Error Code List . | - |
| message | Description of print result | - | Refer to Error Code List . | - |

Example

The following is an example of reporting an error in the application.

The application displays the error code "101" and the error message "Could not communicate with the printer."

Replace %%% with the IP address of the server.

```
http://%%%/page.html?code=101&message=Could not communicate with the printer.
```

Error Code List

| Error code | Message displayed | |
|------------|---|--|
| | Cause | Counteraction |
| 101 | Could not communicate with the printer. | Check the power and communication status of the printer. |
| 102 | Process running time exceeded the specified timeout period. | Check the power and communication status of the printer. If the power and communication status of the printer is OK, adjust the timeout period. If the timeout period cannot be adjusted, consult the application developer. |
| 103 | Cover is open. | Close the printer cover. |
| 104 | Auto cutter error occurred. | Remove the error cause and power off and then on the printer. |
| 105 | Mechanical error occurred. | |
| 106 | Unrecoverable error occurred. | Power off and then on the printer. Contact the distributor or Epson Information Center if the problem persists. |
| 107 | No paper. | Refill the paper. |
| 108 | Printer is too hot to run the process. | Run the process after the error lamp of the printer turns off. |
| 109 | | |
| 110 | | |
| 111 | Printer battery has run out. | Replace the battery or use the AC adapter. |
| 199 | Printer communication error occurred. | Check the power and communication status of the printer. Power off and then on the device and try again. Contact the distributor or Epson Information Center if the problem persists. |
| 201 | Could not communicate with the printer. | Check the power and communication status of the printer. |
| 301 | Connection to the printer failed. | Run pairing with the <i>Bluetooth</i> printer on the Setting screen of the iOS device. |
| 302 | Disconnection from the printer failed. | Cancel pairing with the <i>Bluetooth</i> printer on the Setting screen of the iOS device. |
| 303 | Disconnection from the printer failed. | This printer does not support the disconnection function. Cancel pairing with the <i>Bluetooth</i> printer on the Setting screen of the iOS device. |

| Error code | Message displayed | |
|------------|---|---|
| | Cause | Counteraction |
| 401 | Character string specified in the query is invalid. | Transmission data contains an error. Contact the application developer with the following information. query: xxx. |
| 402 | Print data is not specified. | |
| 403 | PDF data conversion failed. | |
| 404 | XML data conversion failed. | |
| 405 | Print data exceeded the upper limit. | |
| 406 | Process running time exceeded the specified timeout period. | Adjust the timeout period. If the timeout period cannot be adjusted, consult the application developer. |
| 501 | Printer is not selected. | Choose the printer in Epson TM Print Assistant. |
| 502 | Error occurred within Epson TM Print Assistant. | Power off and then on the device and try again. Contact the distributor or Epson Information Center if the problem persists. |
| 599 | | |

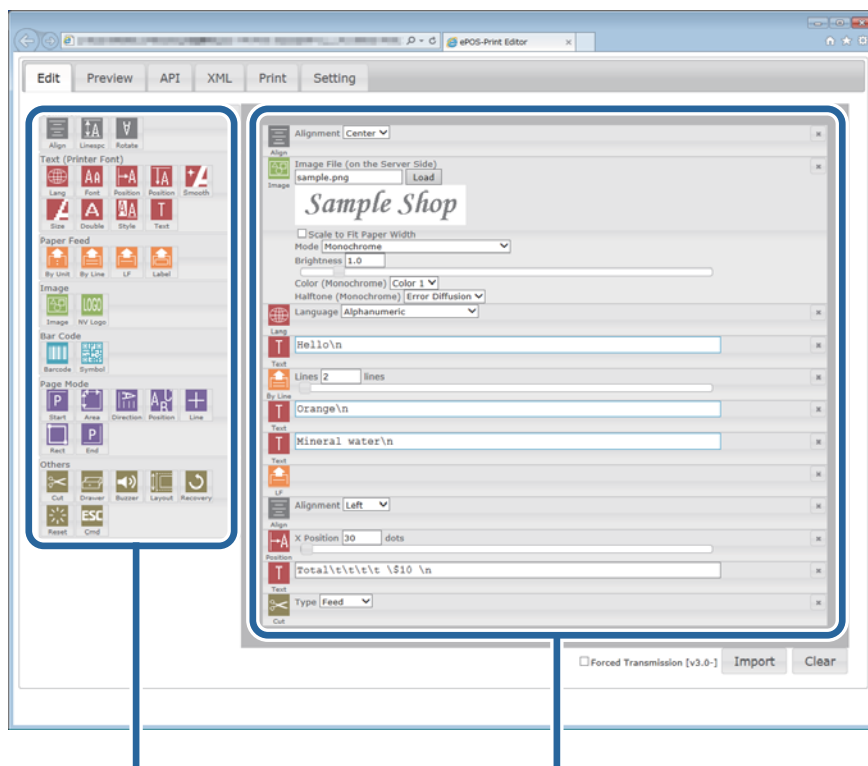
ePOS-Print Editor

You can create ePOS-Print XML print data using the ePOS-Print Editor supplied with ePOS-Print XML.



Refer to the ePOS-Print XML User's Manual for how to use the ePOS-Print Editor.

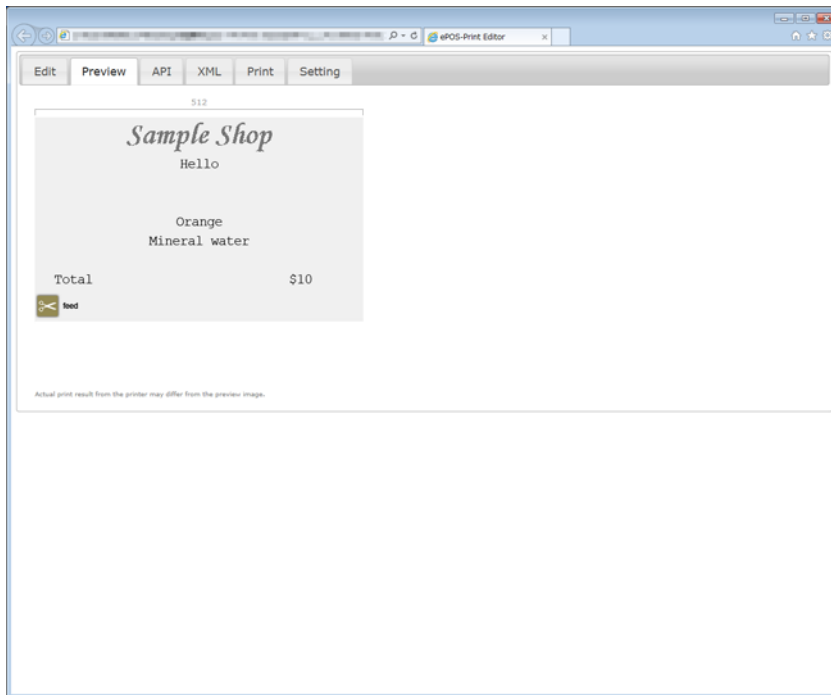
- 1** Unzip the ePOS-Print_Sample_XML_Vx.x.xE.zip.
- 2** Open index.html in the editor folder in the web browser.
- 3** Click an icon in the Menu area to add the element to the Edit area.



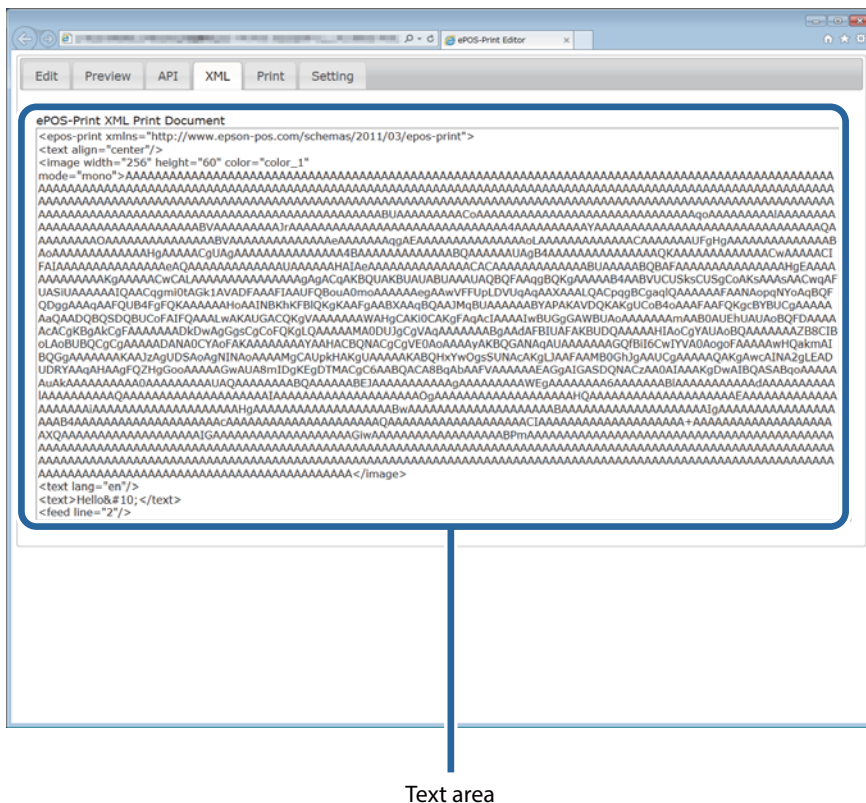
Menu area

Edit area

4 Click the Preview tab to display the preview.



5 XML data can be copied from the text area in the XML tab.



Text area

Sample Programs

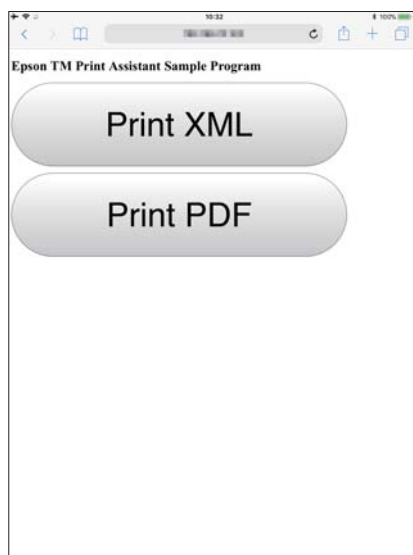
This chapter explains the sample application programs included in the Epson TM Print Assistant package.

Functionality

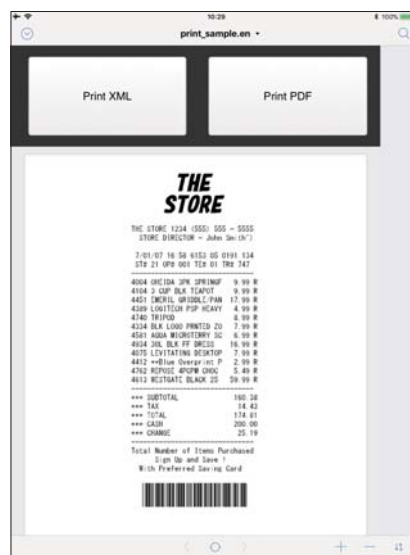
The sample programs provide the following functionality.

- Print XML: Prints XML print data created by ePOS-Print XML.
- PDF printing: Prints PDF data.

<HTML>



<FileMaker>



Operating Environment

Refer to README file for the operating environment of the sample programs.

Setup

Preparation

- 1** Install Epson TM Print Assistant on your smart device.
- 2** Launch Epson TM Print Assistant and choose the TM printer to use.
- 3** Tap the [Test communication] button to check connection with the TM printer.

HTML Sample

- 1** Unzip the TM_Print_Assistant_iOS_Sample.en.zip.
- 2** Register print_sample.en.html and receipt.pdf from the unzipped folder to the server.
Change the value of the pdfPath variable of print_sample.en.html according to the actual location of receipt.pdf.
- 3** Launch the web browser on your smart device and access to print_sample.en.html.
Example of access URL) `http://%/%/print_sample.en.html`
Replace %%% with the IP address of the server.
- 4** Tap the [Print XML] button or [Print PDF] button to use the sample program.

FileMaker Sample

- 1** Unzip the TM_Print_Assistant_iOS_Sample.en.zip.
- 2** Open print_sample.en.fmp12 in FileMaker Go.
Refer to the following for how to transfer the fmp12 file to FileMaker Go.
https://support.filemaker.com/s/answerview?language=en_US&p=All+Products&q=&d=Any&v=All+Versions&anum=000024024&pn=1
- 3** Tap the [Print XML] button or [Print PDF] button to use the sample program.

Application Guide

Error Handling by Web Application

Error Notification by Epson TM Print Assistant

```

<!DOCTYPE html>
<html lang="ja">
<head>
<meta charset="utf-8" />

<!-- Script -->
<script type="text/javascript">

//Print process
function send() {
  //URL to be displayed when Epson TM Print Assistant has terminated normally
  var success = window.location.href;
  //Version number (fixed value)
  var ver = '1';
  //Type of print data
  var datatype = 'eposprintxml';
  //Print data (ePOS-Print XML format)
  var data = '<epos-print xmlns="http://www.epson-pos.com/schemas/2011/03/epos-print">' +
    '<text>Test Print</text><feed/>' +
    '<cut/>' +
    '</epos-print>';
  //Error Notification by Epson TM Print Assistant
  var errordialog = 'yes';

  //Create destination and transmission data
  var urldata = 'tmprintassistant://tmprintassistant.epson.com/print?' +
    'success=' + encodeURIComponent(success) + '&' +
    'ver=' + ver + '&' +
    'data-type=' + datatype + '&' +
    'data=' + encodeURIComponent(data) + '&' +
    'error-dialog=' + errordialog;

  //Send data by URL scheme
  window.location.href = urldata;
}

</script>
</head>
<body>
  <p><button onclick="send()">Print</button></p>
</body>
</html>

```

Error Notification by Web Application

```

<!DOCTYPE html>
<html lang="ja">
<head>
<meta charset="utf-8" />

<!-- Script -->
<script type="text/javascript">

//Print process
function send() {
    //URL to be displayed when Epson TM Print Assistant has terminated normally
    var success = window.location.href;
    //URL to be displayed when an error has occurred in Epson TM Print Assistant
    var error = window.location.href;
    //Version number (fixed value)
    var ver = '1';
    //Type of print data
    var datatype = 'eposprintxml';
    //Print data (ePOS-Print XML format)
    var data = '<epos-print xmlns="http://www.epson-pos.com/schemas/2011/03/epos-print">' +
        '<text>Test Print</text><feed/>' +
        '<cut/>' +
        '</epos-print>';

    //Create destination and transmission data
    var urldata = 'tmprintassistant://tmprintassistant.epson.com/print?' +
        'success=' + encodeURIComponent(success) + '&' +
        'error=' + encodeURIComponent(error) + '&' +
        'ver=' + ver + '&' +
        'data-type=' + datatype + '&' +
        'data=' + encodeURIComponent(data);

    //Send data by URL scheme
    window.location.href = urldata;
}

//Print result process
function init() {
    //Error handling by Web application
    var alertMsg = "";
    var errCode = window.location.search.match(/code=(.*?)(&|$)/);
    var errMsg = window.location.search.match(/message=(.*?)(&|$)/);

    if (errCode[1] && errMsg[1]) {
        alertMsg = 'ERROR CODE : ' + decodeURIComponent(errCode[1]) +
            '\nERROR MESSAGE : ' + decodeURIComponent(errMsg[1]);
        alert(alertMsg);
    }
}
</script>
</head>
<body onload="init()">
    <p><button onclick="send()">Print</button></p>
</body>
</html>

```

Error Handling by FileMaker Application

Error Notification by Epson TM Print Assistant

Describe the following script in the script workspace and run it.

☐ Print command script

```
//Print setting
//Scheme information
Set variable [$scheme; value: "tmprintassistant://tmprintassistant.epson.com/print?"]
//Path to the application (FileMaker project) to move to after printing
Set variable [$success; value: "fmp://$/print_sample.en.fmp12"]
//Version number (fixed value)
Set variable [$ver; value: "1"]
//Type of print data
Set variable [$datatype; value: "eposprintxml"]
//Print data (ePOS-Print XML format)
Set variable [$data; value: "<epos-print xmlns='http://www.epson-pos.com/schemas/2011/03/epos-print'><text>Test Print</text><feed/><cut/></epos-print>"]
//Error Notification by TM Print Assistant
Set variable [$errordialog; value: "yes"]

//Send print data
Open URL [Show dialog: Off;
$scheme &
"tmprintassistant://tmprintassistant.epson.com/print?" &
"success=" & GetAsURLEncoded($success) &
"ver=" & $ver &
"data-type=" & $datatype &
"data=" & GetAsURLEncoded($data) &
"error-dialog=" & $errordialog
```

Error Notification by FileMaker Application

Describe the following script in the script workspace and run it.

❑ Print command script

```
//Print setting
//Scheme information
Set variable [$scheme; value: "tmprintassistant://tmprintassistant.epson.com/print?"]
//Path to the application (FileMaker project) to move to after printing
Set variable [$success; value: "fmp://$/print_sample.en.fmp12"]
//Path to the application (FileMaker project) to output the print result to
Set variable [$error; value: "fmp://$/print_sample.en.fmp12?script=callback"]
//Type of print data
Set variable [$datatype; value: "eposprintxml"]
//Version number (fixed value)
Set variable [$ver; value: "1"]
//Print data (ePOS-Print XML format)
Set variable [$data; value: "<epos-print xmlns='http://www.epson-pos.com/schemas/2011/03/epos-print'><text>Test Print</text><feed/><cut/></epos-print>"]

//Send print data
Open URL [Show dialog: Off;
$scheme &
"tmprintassistant://tmprintassistant.epson.com/print?" &
"success=" & GetAsURLEncoded($success) &
"error=" & GetAsURLEncoded($error) &
"ver=" & $ver &
"data-type=" & $datatype &
"data=" & GetAsURLEncoded($data)]
```

Implement the error handling process by the FileMaker application in the callback script.

❑ callback script for execution result

```
Show custom dialog ["Warning"; "ErrorCode: " & $code & "ErrorMessage: " & $message ]
```


Outputting Application Log

When you contact us about an error encountered during application development or system operation, we may ask you to submit us a log file for troubleshooting the error.

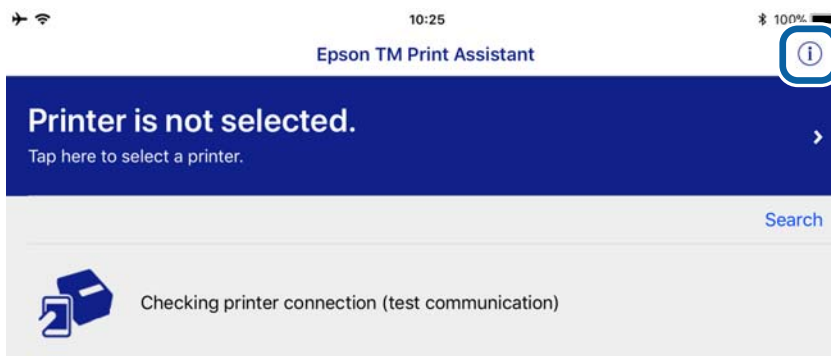
Use the log output function of Epson TM Print Assistant to acquire the log file.



This function is disabled by default.

Enabling Log Output Function

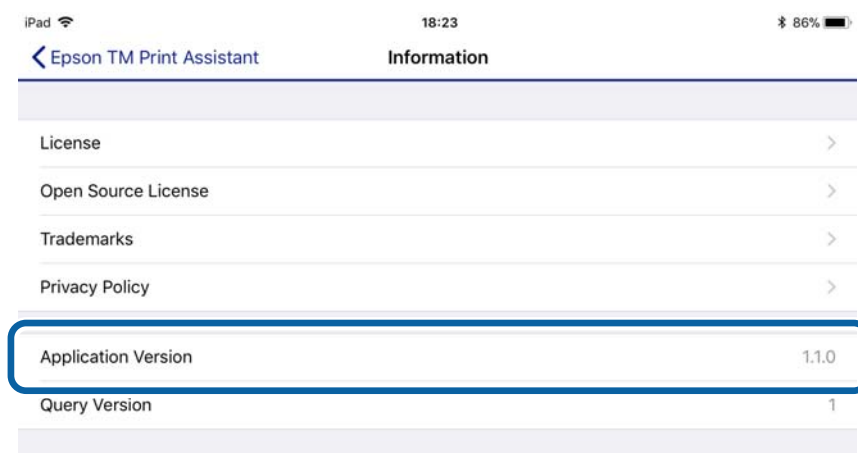
- 1 Launch Epson TM Print Assistant.
- 2 Tap ⓘ to open the Information screen.



- 3 Tap [Application Version] 5 times within 2 seconds.



You must wait for 1 second before tapping 5 times.



The log output function is enabled.

To disable the log output function, tap [Application Version] 5 times again.

Log Output Location

When the log output function is enabled, the log file is output to the following location of the smart device.

| Path | Filename |
|-----------------------------------|---|
| TM Print Assistant/Documents/Log/ | appLog.txt |
| TM Print Assistant/Epos2Log/ | <ul style="list-style-type: none">• Epos2Log.txt• Epos2Log.zip |

Appendix

x-callback-url

Epson TM Print Assistant can also be used in a URL scheme conforming to x-callback-url (<http://x-callback-url.com/>).

URL Scheme

This section explains the queries used in a URL scheme.

URL encode (RFC3986) is used for the data format in URL schemes.

Syntax

```
[scheme]://[host]/[action]?[x-callback parameters]&[action parameters]
```

Parameter

scheme

Specifies "tmprintassistant" as the URL scheme name to invoke Epson TM Print Assistant.

host

Specifies "tmprintassistant.epson.com" as the URL host.

action

Specifies "print" as the identifier of the action executed by Epson TM Print Assistant.

x-callback parameters

Specify the name of the application which called Epson TM Print Assistant or a URL to be displayed upon normal completion.

Specified format: "key1=value1&key2=value2"

| Query | Functionality | Description | | |
|-----------|--|-----------------|-------------------------------|---------|
| | | Input condition | Set value | Default |
| x-source | Caller application | Can be omitted | URL encoding format (RFC3986) | - |
| x-success | URL displayed when Epson TM Print Assistant has terminated normally | Can be omitted | URL encoding format (RFC3986) | - |
| x-error | URL displayed when an error has occurred in Epson TM Print Assistant | Can be omitted | URL encoding format (RFC3986) | - |

| Query | Functionality | Description | | |
|----------|---|-----------------|-------------------------------|---------|
| | | Input condition | Set value | Default |
| x-cancel | Although it is provided by the x-callback-url standard, Epson TM Print Assistant does not use it. It will be ignored if specified. | Can be omitted | URL encoding format (RFC3986) | - |

action parameters

Specify the print data and its optional parameters.

Specified format: "key1=value1&key2=value2"

| Query | Functionality | Description | | |
|--------------|--|-----------------|--|---------|
| | | Input condition | Set value | Default |
| ver | Version number | Required | Integer: 1 (fixed) | - |
| data-type | Print data type | Required | <ul style="list-style-type: none"> ePOS-Print XML format: eposprintxml PDF format: pdf | - |
| data | Print data | Required | Data type: eposprintxml <ul style="list-style-type: none"> Maximum data length: Approximately 750 KB | - |
| | | | Data type: pdf <ul style="list-style-type: none"> Base64 data format Maximum data length: Approximately 750 KB (PDF size: Approximately 500KB*¹) | - |
| timeout | Operation timeout period (ms) for Epson TM Print Assistant | Can be omitted | Integer: 10000 to 300000 | 15000 |
| error-dialog | Error notification by Epson TM Print Assistant | Can be omitted | yes/no | yes |
| reselect | Printer reconfiguration upon communication error | Can be omitted | yes/no | no |
| drawer-open | Drawer setting | Can be omitted | pin2/pin5/no | no |
| cut | Cutter setting | Can be omitted | feed/no-feed/no | no |
| pairing-off | Disabling <i>Bluetooth</i> paring after printing | Can be omitted | yes/no | no |

| Query | Functionality | Description | | |
|-------------------------------|---|-----------------|--------------|---------|
| | | Input condition | Set value | Default |
| fit-to-width ^{*2} | Expanding or reducing the PDF's page in accordance with either of the following: <ul style="list-style-type: none"> the paper width specified in paper-width the printable width specified in printable-width | Can be omitted | yes/no | no |
| paper-width ^{*2} | Paper width specification (mm) ^{*3} | Can be omitted | 58/80 | 80 |
| printable-width ^{*2} | Printable width specification (mm) ^{*4} Use when setting the printable width in detail | Can be omitted | 20.0 to 80.0 | 72 |

*1: Approximate data size before Base64 conversion

*2: Available when pdf is specified in data-type

*3: When 80mm selected: the width of PDF's page is adjusted to 72 mm.

When 58mm selected: the width is adjusted to 50.8mm.

*4: Configure according to your TM printer's printable width. Refer to the printable width list of TM printers in README for the specifications.

Print data

| Print data format | Description |
|-------------------|---|
| ePOS-Print XML | Use XML command of ePOS-Print XML to create ePOS-Print XML format data. Refer to "XML Reference" in the ePOS-Print XML User's Manual for details of XML commands. You can create XML print data using the ePOS-Print Editor supplied with ePOS-Print XML. Refer to ePOS-Print Editor for more information. |
| PDF | Create PDF data according to your TM printer's printable width. Refer to README for the specifications of your printer's printable width. Otherwise, use fit-to-width/paper-width/printable-width queries. Use the data converted with Base64 for this format. |

Example

The following is an example of transferring print data in the ePOS-Print XML format.

When printing is successful, control is returned to the caller application. When an error occurs, Epson TM Print Assistant opens a dialog to report the error.

Replace "%%%" with the IP address of the server.

```
tmprintassistant-x-callback://x-callback-url/print?
x-source=http://%%%/source.html&
x-success=http://%%%/success.html&
ver=1&data-type=eposprintxml&data=**XMLData**&error-dialog=yes
```



If you use Google Chrome, change the "http" in the URL scheme to "googlechrome".

Execution Result

Print result returned by Epson TM Print Assistant.

To display error messages in Epson TM Print Assistant, specify "yes" in the error-dialog query of the print command.

To display error messages in the application, specify the application path in the error query of the print command and program the application to process the code and message queries.



Refer to [Application Guide](#).

| Query | Functionality | Description | | |
|---------|-----------------------------|-----------------|--|---------|
| | | Input condition | Set value | Default |
| code | Error code for print result | - | Refer to Error Code List . | - |
| message | Description of print result | - | Refer to Error Code List . | - |

Example

The following is an example of reporting an error in the application.

The application displays the error code "101" and the error message "Could not communicate with the printer."

Replace %%% with the IP address of the server.

```
http://%%%/page.html?code=101&message=Could not communicate with the printer.
```