

TM-i Series

WebConfig API User's Manual

Overview

Describes an overview of WebConfig API.

Response Body Format

Describes the response body format.

Reference

Describes how to refer to and change setting values.

Sample Program

Describes how to use the sample program.

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For Safety

Key to Symbols

The symbols in this manual are identified by their level of importance, as defined below. Read the following carefully before handling the product.



Provides information that must be observed to avoid damage to your equipment or a malfunction.



Provides important information and useful tips.

Restriction of Use

When this product is used for applications requiring high reliability/safety such as transportation devices related to aviation, rail, marine, automotive etc.; disaster prevention devices; various safety devices etc; or functional/precision devices etc, you should use this product only after giving consideration to including fail-safes and redundancies into your design to maintain safety and total system reliability. Because this product was not intended for use in applications requiring extremely high reliability/safety such as aerospace equipment, main communication equipment, nuclear power control equipment, or medical equipment related to direct medical care etc, please make your own judgment on this product's suitability after a full evaluation.

About this Manual

Aim of the Manual

The aim of this manual is to provide development engineers with the necessary information to develop applications to set and refer to the EPSON TMNet WebConfig for the TM-i series.

The TM-i series in this manual is a generic term for the following printers.

- TM-T88V-i
- TM-T70-i
- TM-20II-i
- TM-T82II-i
- TM-L90-i

Manual Content

The manual is made up of the following sections:

| | |
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| Chapter 1 | Overview |
| Chapter 2 | Response Body Format |
| Chapter 3 | Reference |
| Chapter 4 | Sample Program |

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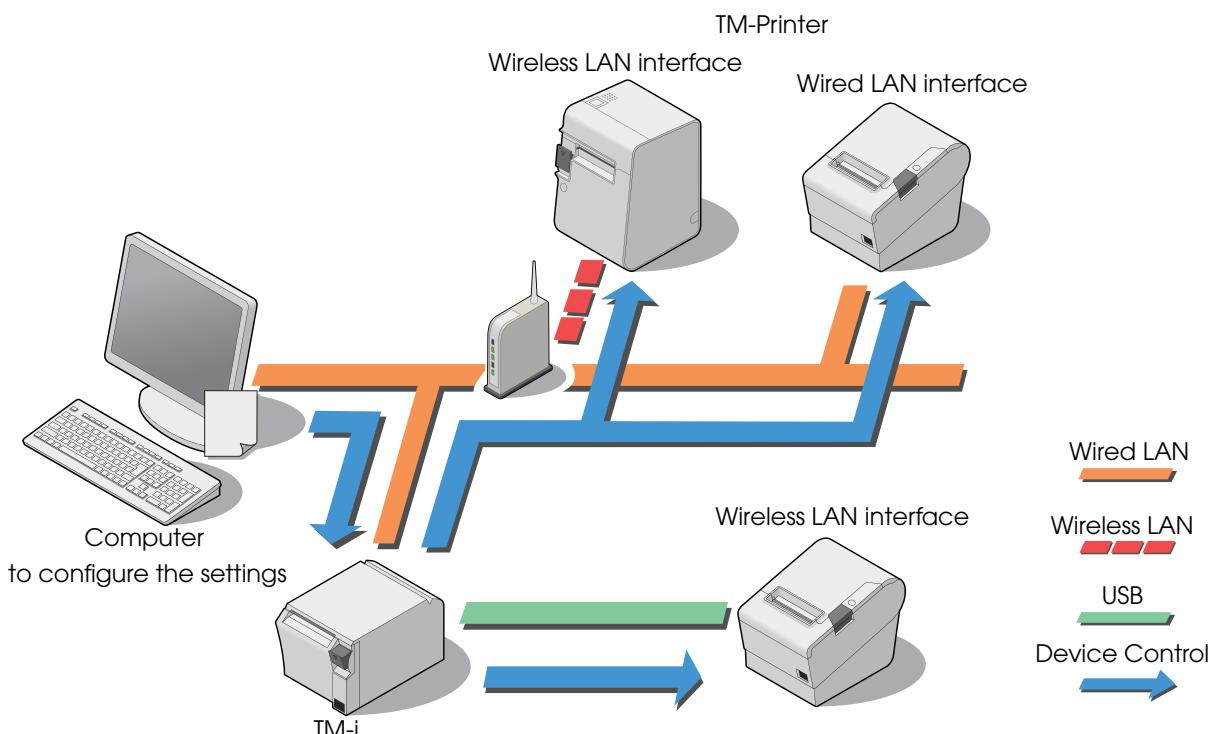
Overview

What is WebConfig API?

WebConfig API is an API for setting and referencing the EPSON TMNet WebConfig of the TM-i series. You can use it by including it in your application. This function can be used in the TM-i firmware Ver.2.x or later.

The EPSON TMNet WebConfig of the TM-i series (and of a TM printer* registered in the TM-i series) can be referenced or set up from the client's application. Setting work has been streamlined for TM printers with a UB-R03 interface because wireless LAN settings can be performed by connecting a USB.

*: TM-i firmware Ver.3.x or later



- Do not use the WebConfig API if you are directly setting or referring to the TM-i's settings from a browser on a computer.
- For the functions of EPSON TMNet WebConfig, refer to the detailed manual for each printer.

Function

- ❑ Allows getting/setting setting values of TM-i from HTTP-supported devices. Not OS-dependent.
- ❑ Allows an application to refer to the set values of a TM-i using the GET method (hereafter "GET") defined in HTTP (HyperText Transfer Protocol).
- ❑ Allows an application to change the set values of a TM-i using the POST method (hereafter "POST") defined in HTTP (HyperText Transfer Protocol).

Usable Formats

- ❑ html : HyperText Markup Language
- ❑ xml : Extensible Markup Language
- ❑ json : JavaScript Object Notation
- ❑ ini : Text file format mainly used in a Windows OS environment

Supported printers

TM-i

TM-i refers to EpsonNet WebConfig setting values. These values can be changed.

- TM-T88V-i
- TM-T70-i
- TM-T20II-i
- TM-T82II-i
- TM-L90-i

Confirming the TM-i firmware

You can confirm the TM-i firmware version by printing out a status sheet. With the printer ready for printing (paper loaded and power on), press and hold the push button on the rear panel of this device for at least 3 seconds.

| TM-i Firmware Ver.4.0 or later | TM-i Firmware Ver.3.x or earlier | | |
|--|----------------------------------|--|------------------|
| <pre>***** EPSON Status Sheet *****</pre> <p><General Information></p> <table border="1"> <tr> <td>Firmware X.XX</td> </tr> </table> <p>ePOS-Device X.XX Model TM-T88V-i</p> <p>"Firmware" (TM-i Firmware Version) is printed under <General Information>.</p> | Firmware X.XX | <pre>***** EPSON Status Sheet *****</pre> <p><General Information></p> <table border="1"> <tr> <td>Software X.XX</td> </tr> </table> <p>Model TM-T88V-i Time yyyy-mm-dd hh:mm:ss</p> <p>"Software" (TM-i Firmware Version) is printed under <General Information>.</p> | Software X.XX |
| Firmware X.XX | | | |
| Software X.XX | | | |

TM Printer

The TM printer refers to network setting values. These values can be changed.

- TM-T88V
- TM-T88IV
- TM-T70
- TM-T70II
- TM-T90
- TM-L90
- TM-P60II
- TM-T20
- TM-T82II
- TM-P80
- TM-U220

Contents in the Package

Manual

- TM-i WebConfig API User's Manual (This Document)
- TM-T88V-i Technical Reference Guide
- TM-T70-i Technical Reference Guide
- TM-T20II-i Technical Reference Guide
- TM-T82II-i Technical Reference Guide
- TM-L90-i Technical Reference Guide

Sample Program

WebConfigAPISample.xls

Download

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

<http://www.epsonexpert.com/> and follow the on-screen instructions.

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

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

Restrictions

- Web contents (zip file) and a certificate cannot be manually uploaded by using WebConfig API.
- To enable manual uploading of Web contents (zip file) and a certificate, file upload functionality used by applications as standard should be programmed.
(Manual uploading functionality is embedded in the sample program. Refer to the sample program.)

Response Body Format

An application can specify the format for the response body to be returned when using GET or POST for a TM-i.

Referring to the Set Values of a TM-i

An application (e.g. javascript or excel macro) can refer to the set values of a TM-i by executing GET for the following URL:

`http://%IP Address%/PrinterConfigurationPage/%SettingUrl%?format=[html | xml | json | ini]`

For TM-i firmware Ver. 4.x or later, use the following URL.

`http://%IP Address%/webconfig/%SettingUrl%?format=[html | xml | json | ini]`

- IP Address : The IP address of the TM-i whose set values to be acquired
- SettingUrl : The URL of the set values to be acquired
- format : Specifies the format of the response body to be returned by the TM-i
 - html : HTML format (the same operation as the operation performed when viewing EPSON TMNet WebConfig by using a browser)
 - xml : XML format
 - json : JSON format
 - ini : ini format



- If a password is set for EPSON TMNet WebConfig/ WebConfig API, at the time of access to the above URL, the user name (epson-specific) and password strings will be requested through digest authentication.
- For SettingUrl and values, refer to Chapter 3 "Reference".
- To use WebConfig API from XMLHttpRequest in javascript, register the Web page where the javascript code is written, to the TM-i as Web contents.

XML format

```
<?xml version="1.0" encoding="UTF-8"?>
<epos-utility xmlns="http://www.epson-pos.com/schemas/2012/02/epos-utility">
<response success="true"/>
<%Category%>
<%Key1%>%Value1%</%Key1%>
<%Key2%>%Value1%</%Key2%>
<%Key3%>%Value1%</%Key3%>

</%Category%>
</epos-utility>
```

The above keys are in no particular order.

Response body (*Example : config_tcpip_wired.cgi*)

```
<?xml version="1.0" encoding="UTF-8"?>
<epos-utility xmlns="http://www.epson-pos.com/schemas/2012/02/epos-utility">
<response success="true" />
<WiredNetwork>
<IPAddressSettingMethod>Auto</IPAddressSettingMethod>
<APIPA>Enable</APIPA>
<IPAddress>192.168.192.168</IPAddress>
<Netmask>255.255.255.0</Netmask>
<Gateway>192.168.192.1</Gateway>
<DNSServerSettingMethod>Auto</DNSServerSettingMethod>
<DNSServerIPAddress1>192.168.192.1</DNSServerIPAddress1>
<DNSServerIPAddress2>192.168.192.1</DNSServerIPAddress2>
<DNSServerIPAddress3>192.168.192.1</DNSServerIPAddress3>
</WiredNetwork>
</epos-utility>
```

JSON format

```
{ "response" :  
{  
    "success" : "true"  
},  
    "%Category%" :  
{  
    "%Key1%" : "%Value1%" ,  
    "%Key2%" : "%Value2%" ,  
    "%Key3%" : "%Value3%" ,  
}  
}
```

The above keys are in no particular order.

Response body (Example : config_tcpip_wired.cgi)

```
{ "response" :  
{  
    "success" : "true"  
},  
    "WiredNetwork" :  
{  
    "IPAddressSettingMethod" : "Auto" ,  
    "APIPA" : "Enable" ,  
    "IPAddress" : "192.168.192.168" ,  
    "Netmask" : "255.255.255.0" ,  
    "Gateway" : "192.168.192.1" ,  
    "DNSServerSettingMethod" : "Auto" ,  
    "DNSServerIPAddress1" : "192.168.192.1" ,  
    "DNSServerIPAddress2" : "192.168.192.1" ,  
    "DNSServerIPAddress3" : "192.168.192.1"  
}  
}
```

ini format

```
[response]
success="true"
[%Category%]
%Key1%="%Value1%"
%Key2%="%Value2%"
%Key3%="%Value3%"
```

The above keys are in no particular order.

Response body (Example : config_tcpip_wired.cgi)

```
[response]
success="true"
[WiredNetwork]
IPAddressSettingMethod="Auto"
APIPA="Enable"
IPAddress="192.168.192.168"
Netmask="255.255.255.0"
Gateway="192.168.192.1"
DNSServerSettingMethod="Auto"
DNSServerIPAddress1="192.168.192.1"
DNSServerIPAddress2="192.168.192.1"
DNSServerIPAddress3="192.168.192.1"
```

Changing the Set Values of a TM-i

An application (e.g. javascript or excel macro) can change the set values of a TM-i by executing POST for the following URL:

Execute POST after putting the set value you want to change and the set value after change into the POST parameter.

http://%IP Address%/PrinterConfigurationPage/%SettingUrl%?format=[html | xml | json | ini]

For TM-i firmware Ver. 4.x or later, use the following URL.

http://%IP Address%/webconfig/%SettingUrl%?format=[html | xml | json | ini]

- ❑ IP Address : The IP address of the TM-i whose set values to be acquired
- ❑ SettingUrl : The URL of the set value to be changed
- ❑ format : Specifies the format of the response body to be returned by the TM-i
 - html : HTML format (the same operation as the operation performed when viewing EPSON TMNet WebConfig by using a browser)
 - xml : XML format
 - json : JSON format
 - ini : ini format



- If a password is set for EPSON TMNet WebConfig / WebConfig API, at the time of access to the above URL, the user name (epson-specific) and password strings will be requested through digest authentication.
- For SettingUrl and values, refer to Chapter 3 "[Reference](#)".
- To use WebConfig API from XMLHttpRequest in javascript, register the Web page where the javascript code is written, to the TM-i as Web contents.

XML format

```
<?xml version="1.0" encoding="UTF-8"?>
<epos-utility xmlns="http://www.epson-pos.com/schemas/2012/02/epos-utility">
<response success="%Result%" code="%Reason%" />
</epos-utility>
```

This portion is added when response fails.

Response body (Example : set_tcpip_wired.cgi)

When response is successful

```
<epos-utility xmlns="http://www.epson-pos.com/schemas/2012/02/epos-utility">
<response success="true"/>
</epos-utility>
```

When response fails

```
<epos-utility xmlns="http://www.epson-pos.com/schemas/2012/02/epos-utility">
<response success="false" code="InvalidIPAddress" />
</epos-utility>
```



For details on an error code when response fails, see "[Error Codes and Actions to Take](#)" [on page 50](#).

JSON format

```
{ "response" :  
  {  
    "success" : "%Result%" ,  
    "code" : "%Reason%" } }  
This portion is added when response fails.
```

Response body (Example : *set_tcpip_wired.cgi*)

When response is successful

```
{ "response" :  
  {  
    "success" : "true"  
  } }
```

When response fails

```
{ "response" :  
  {  
    "success" : "false" ,  
    "code" : "InvalidIPAddress"  
  } }
```



For details on an error code when response fails, see "[Error Codes and Actions to Take](#)" on page 50.

ini format

```
[response]
success="%Result%"
code="%Reason%"
```

This portion is added when response fails.

Response body (Example : set_tcpip_wired.cgi)

When response is successful

```
[response]
success="true"
```

When response fails

```
[response]
success="false"
code="InvalidIPAddress"
```



For details on an error code when response fails, see "["Error Codes and Actions to Take" on page 50.](#)

Reference

Referring to Set Values

Wired LAN

General

SettingUrl : config_general_wired.cgi

Refers to the link speed of the wired LAN.

| Category | Key | Value | Description |
|----------------|-----------|-----------------|---------------------------|
| WiredLinkLayer | LinkSpeed | | Refers to the link speed. |
| | | 10BaseTHalf | 10BaseT half duplex |
| | | 10BaseTFull | 10BaseT full duplex |
| | | 100BaseTHalf | 100BaseT half duplex |
| | | 100BaseTFull | 100BaseT full duplex |
| | | AutoNegotiation | Auto-negotiation |

TCP/IP

SettingUrl : config_tcpip_wired.cgi

Refers to the IP address, etc. of the wired LAN.

| Category | Key | Value | Description |
|--------------|------------------------|----------|---|
| WiredNetwork | IPAddressSettingMethod | | Refers to the IP address setting method. |
| | | Auto | Auto |
| | | Manual | Manual |
| | | | Refers to whether to enable or disable APIPA. |
| | APIPA | Enable | Enable |
| | | Disable | Disable |
| | IPAddress | (String) | Refers to the IP address. |
| | SubnetMask | (String) | Refers to the subnet mask. |
| | Gateway | (String) | Refers to the default gateway. |
| | DNSServerSettingMethod | | Refers to the DNS server IP address setting method. |
| | | Auto | Auto |
| | | Manual | Manual |
| | DNSServerIPAddress1 | (String) | Refers to DNS server IP address 1. |
| | DNSServerIPAddress2 | (String) | Refers to DNS server IP address 2. |
| | DNSServerIPAddress3 | (String) | Refers to DNS server IP address 3. |

Wireless LAN

General

SettingUrl : config_general_wireless.cgi

Refers to the SSID, etc. of the wireless LAN.

| Category | Key | Value | Description |
|------------------|-----------------------|----------------|---------------------------------------|
| WiredLinkLayer | NetworkMode | | Refers to the network mode. |
| | | Infrastructure | Infrastructure mode |
| | | Adhoc | Adhoc mode |
| | SSID | (String) | Refers to the SSID. |
| | AdhocChannel | (String) | Refers to the AdhocChannel. |
| | CommunicationStandard | | Refers to the communication standard. |
| | | 802.11b/g | 802.11b/g |
| | | 802.11b/g/n | 802.11b/g/n |
| | AuthenticationMethod | | Refers to the authentication method. |
| | | OpenSystem | OpenSystem |
| | | SharedKey | SharedKey |
| | | WPAPSK | WPAPSK |
| | | WPA2PSK | WPA2PSK |
| EncryptionMethod | EncryptionMethod | | Refers to the encryption method. |
| | | None | No encryption |
| | | WEP | WEP |
| | | TKIP | TKIP |
| | | AES | AES |
| | DefaultWEPKey | | Refers to the WEP key to be used. |
| | | WEPKey1 | WEP key 1 |
| | | WEPKey2 | WEP key 2 |
| | | WEPKey3 | WEP key 3 |
| | | WEPKey4 | WEP key 4 |
| | WEPKey1 | (String) | Refers to WEP key 1. |
| | WEPKey2 | (String) | Refers to WEP key 2. |
| | WEPKey3 | (String) | Refers to WEP key 3. |
| | WEPKey4 | (String) | Refers to WEP key 4. |
| | PresharedKey | (String) | Refers to the pre-shared key. |

TCP/IP

SettingUrl : config_tcpip_wireless.cgi

Refers to the IP address, etc. of the wireless LAN.

| Category | Key | Value | Description |
|-----------------|------------------------|----------|---|
| WirelessNetwork | IPAddressSettingMethod | | Refers to the IP address setting method. |
| | | Auto | Auto |
| | APIPA | Manual | Manual |
| | | Enable | Refers to whether to enable or disable APIPA. |
| | | Disable | Disable |
| | IPAddress | (String) | Refers to the IP address. |
| | SubnetMask | (String) | Refers to the subnet mask. |
| | Gateway | (String) | Refers to the default gateway. |
| | DNSServerSettingMethod | | Refers to the DNS server IP address setting method. |
| | | Auto | Auto |
| | | Manual | Manual |
| | DNSServerIPAddress1 | (String) | Refers to DNS server IP address 1. |
| | DNSServerIPAddress2 | (String) | Refers to DNS server IP address 2. |
| | DNSServerIPAddress3 | (String) | Refers to DNS server IP address 3. |

Device

SettingUrl : config_epos_print.cgi

Refers to the registered device settings.

| Category | Key | Value | Description |
|--------------------|---------------|----------|--|
| Devices-%DeviceID% | | | Refers to the device ID by turning it into the string "Devices-% Device ID%". |
| | | | As many values for Category, Model, IPAddress, and RetryInterval as registered devices will be returned from the TM-i. |
| | Model | (String) | Refers to the device model. |
| | IPAddress | (String) | Refers to the IP address. |
| | RetryInterval | (String) | Refers to the communication retry interval (in milliseconds). |

SettingUrl : config_epos_display.cgi

Refers to setting values for customer displays.

| Category | Key | Value | Description |
|-----------------------|----------|---------|---|
| Devices-local_display | Baudrate | | Refers to the communication speed. |
| | | 2400 | 2400 bps |
| | | 4800 | 4800 bps |
| | | 9600 | 9600 bps |
| | | 19200 | 19200 bps |
| | | 38400 | 38400 bps |
| | | 57600 | 57600 bps |
| | | 115200 | 115200 bps |
| Databit | | | Refers to the data bit. |
| | 7 | 7 bits | |
| | 8 | 8 bits | |
| Parity | | | Refers to the parity. |
| | None | None | |
| | Even | Even | |
| | Odd | Odd | |
| Brightness | | | Refers to the brightness. |
| | 100 | 100% | |
| | 60 | 60% | |
| | 40 | 40% | |
| | 20 | 20% | |
| Use | | | Refers to whether customer displays are used. |
| | Enable | Enable | |
| | Disable | Disable | |

SettingUrl : config_epos_key_input_device.cgi

Refers to all registered key input device information.

| Category | Key | Value | Description |
|---|---------------|----------|---|
| Devices- "Device ID of key input device" (Example) | | | |
| Devices-local_keyboard | DeviceName | (String) | Refers to the device name. |
| | VID | (String) | Refers to vendor ID (4-digit hexadecimal value). |
| | PID | (String) | Refers to product ID (4-digit hexadecimal value). |
| | ControlScript | (String) | Refers to file name of a control script to be used. |

SettingUrl : config_epos_serial.cgi

Refers to serial communication device information that has a device ID of (local_serial).

If the TM-i specifications do not include a serial port, this does not refer to serial communication device information.

| Category | Key | Value | Description |
|----------------------|---------------------------------|----------|--|
| Devices | "Serial Communication DeviceID" | | |
| (Example) | | | |
| Devices-local_serial | | | |
| | Use | | Refers to whether a serial communication device is used. |
| | | Enable | Enable |
| | | Disable | Disable |
| | Baudrate | | Refers to the communication speed. |
| | | 2400 | 2400 bps |
| | | 4800 | 4800 bps |
| | | 9600 | 9600 bps |
| | | 19200 | 19200 bps |
| | | 38400 | 38400 bps |
| | | 57600 | 57600 bps |
| | | 115200 | 115200 bps |
| | Databit | | Refers to the data bit. |
| | | 7 | 7 bits |
| | | 8 | 8 bits |
| | Parity | | Refers to the parity. |
| | | None | None |
| | | Even | Even |
| | | Odd | Odd |
| | Stopbit | | Refers to the stop bit. |
| | | 1 | 1 bit |
| | | 1.5 | 1.5 bit |
| | | 2 | 2 bit |
| | FlowControl | | Refers to the flow control. |
| | | XOnXOff | XOnXOff |
| | | Hardware | Hardware |
| | | None | None |

Searching TM printers

SettingUrl : search_devices.cgi

Refers to the settings of TM printers connected to the TM-i.



Referencing is possible under the following conditions.

- TM-i and TM printers are connected to the same subnet network by a LAN cable.
(Referencing is not possible if the TM-i and TM printers are connected by a wireless LAN.)
- A TM-i printer and wireless LAN interface with a USB connector of a TM printer are connected by USB. (UB-R03)

| Category | Key | Value | Description |
|------------------|------------------------|----------------|--|
| NetworkPrinter-n | | | Refer to detected printers with the character string, "NetworkPrinter-n". ("n" is a number applied in the order the printers were detected in.) |
| | Model | (String) | Refers to the device model. |
| | IPAddress | (String) | Refers to the IP address. |
| | MACAddress | (String) | Refers to the MAC address. |
| | Connection | | Refers to the detected printer's connection status. |
| | | Wired | Detects a wired LAN connection printer on the LAN. |
| | | Wireless | Detects a wireless LAN connection printer on the LAN. |
| | | USB | Detects a wireless LAN connection printer via USB connection. |
| | IPAddressSettingMethod | | Refers to the IP address setting method. |
| | | Auto | Auto |
| | | Manual | Manual |
| | APIPA | | Refers to whether to enable or disable APIPA. |
| | | Enable | Enable |
| | | Disable | Disable |
| | SubnetMask | (String) | Refers to the subnet mask. |
| | Gateway | (String) | Refers to the default gateway. |
| | NetworkMode | | Refers to the network mode. |
| | | Infrastructure | Infrastructure mode |
| | | Adhoc | Adhoc mode |

| Category | Key | Value | Description |
|------------------|-----------------------|-------------|---------------------------------------|
| NetworkPrinter-n | SSID | (String) | Refers to the SSID. |
| | AdhocChannel | (String) | Refers to the AdhocChannel. |
| | CommunicationStandard | | Refers to the communication standard. |
| | | 802.11b | 802.11b |
| | | 802.11b/g | 802.11b/g |
| | | 802.11b/g/n | 802.11b/g/n |
| | AuthenticationMethod | | Refers to the authentication method. |
| | | OpenSystem | OpenSystem |
| | | SharedKey | SharedKey |
| | | WPAPSK | WPAPSK |
| EncryptionMethod | EncryptionMethod | | Refers to the encryption method. |
| | | None | No encryption |
| | | WEP | WEP |
| | | TKIP | TKIP |
| | | AES | AES |
| DefaultWEPKey | DefaultWEPKey | | Refers to the WEP key to be used. |
| | | WEPKey1 | WEP key 1 |
| | | WEPKey2 | WEP key 2 |
| | | WEPKey3 | WEP key 3 |
| | | WEPKey4 | WEP key 4 |

Web Contents Updater

SettingUrl : config_web_contents_updater.cgi

Refers to the Web contents update setting.

| Category | Key | Value | Description | |
|--------------------------|------------------------|--|--|--|
| WebContents | AutoUpdate | | Refers to whether to automatically update the Web contents. | |
| | | Enable | Enable | |
| | | Disable | Disable | |
| | Frequency | | Hour | Updates at specified time intervals. |
| | | | Daily | Updates daily, at the specified time of day. |
| | | | Weekly | Updates weekly, on the specified day of the week and at the specified time of day. |
| | | | Monthly | Updates monthly, on the specified day and at the specified time of day. |
| | Timing | | Refers to the timing of automatic update. The return value varies depending on the value for Frequency. | |
| | (When Frequency=Hour) | (String) | Refers to the interval of automatic update. | |
| | (When Frequency=Daily) | | A blank character is returned. | |
| (When Frequency=Weekly) | Sunday | Updates every Sunday. | | |
| | Monday | Updates every Monday. | | |
| | Tuesday | Updates every Tuesday. | | |
| | Wednesday | Updates every Wednesday. | | |
| | Thursday | Updates every Thursday. | | |
| | Friday | Updates every Friday. | | |
| | Saturday | Updates every Saturday. | | |
| (When Frequency=Monthly) | (String) | Refers to the day to perform automatic update. | | |
| UpdateTimeHour | (String) | Refers to the hour of the time of day to perform automatic update. When Frequency=Hour, an empty character is returned. | | |

| Category | Key | Value | Description |
|-------------|-------------------------|----------|---|
| WebContents | UpdateTimeMinute | (String) | Refers to the minute of the time of day to perform automatic update. When Frequency=Hour, an empty character is returned. |
| | FileURL | (String) | Refers to the URL of the Web contents file. |
| | UseProxy | | Refers to whether to use a proxy server at the time of automatic update. |
| | | Enable | Enable |
| | | Disable | Disable |
| | ProxyURL | (String) | Refers to the URL of the proxy server. |
| | LastUpdateYear | (String) | Refers to the year automatic update was performed last. |
| | LastUpdateMonth | (String) | Refers to the month automatic update was performed last. |
| | LastUpdateDay | (String) | Refers to the day automatic update was performed last. |
| | LastUpdateHour | (String) | Refers to the hour of the time automatic update was performed last. |
| | LastUpdateMinute | (String) | Refers to the minute of the time automatic update was performed last. |
| | LastUpdateresultCode | (String) | Refers to the results of the last automatic update as a numeric value. |
| | LastUpdateresultMessage | (String) | Refers to the results of the last automatic update as a message string. |
| | LastUpdateSecond | (String) | Refers to the second of the time automatic update was performed last. |
| | ServerAuthentication | | Refers to whether server authentication is used. If this authentication cannot be acquired, the setting becomes "Disable". |
| | | Enable | Enable |
| | | Disable | Disable |
| | ID | (String) | Refers to an ID for identifying TM-i on the web server side. This is a user ID used for Digest authentication. |
| | Password | (String) | Refers to the password for web content updates. |

Server Direct Print

SettingUrl : config_server_direct_print.cgi

Refers to Server Direct Print setting values.

| Category | Key | Value | Description |
|-------------------|----------------------|----------|---|
| ServerDirectPrint | Use | | Refers to whether Server Direct Print is used. |
| | | Enable | Enable |
| | ID | Disable | Disable |
| | | (String) | Refers to the ID. |
| | Password | (String) | Refers to the password. |
| | URL | (String) | Refers to the acquisition destination URL for printed data. |
| | Interval | (String) | Designates a value in seconds for the standby time from the completion of acquisition of print data until acquisition of the next print data. |
| | URL1 | (String) | Refers to the acquisition destination URL for printed data. |
| | Interval1 | (String) | Designates a value in seconds for the standby time from the completion of acquisition of print data until acquisition of the next print data. |
| | URL2 | (String) | Refers to the acquisition destination URL for printed data. |
| | Interval2 | (String) | Designates a value in seconds for the standby time from the completion of acquisition of print data until acquisition of the next print data. |
| | URL3 | (String) | Refers to the acquisition destination URL for printed data. |
| | Interval3 | (String) | Designates a value in seconds for the standby time from the completion of acquisition of print data until acquisition of the next print data. |
| | ServerAuthentication | | Refers to whether server authentication is used. If this authentication cannot be acquired, the setting becomes "Disable". |
| | Enable | Enable | |
| | | Disable | Disable |

Status Notification

SettingUrl : config_status_notification.cgi

Refers to status notification setting.

| Category | Key | Value | Description |
|--------------------|----------------------|----------|---|
| StatusNotification | Use | | Refers to whether the status notification function is used. |
| | | Enable | Enable |
| | | Disable | Disable |
| | ID | (String) | Refers to the ID. |
| | Password | (String) | Refers to the password. |
| | URL | (String) | Refers to the notification destination URL for status. |
| | Interval | (String) | Refers to the standby time in seconds from the completion of a status notification until the next notification is sent. |
| | ServerAuthentication | | Refers to whether server authentication is used. If this authentication cannot be acquired, the setting becomes "Disable". |
| | Enable | | Enable |
| | | Disable | Disable |

Certificates

SettingUrl : listup_certificates.cgi

Refers to a list of all certificates installed in TM-i.

| Category | Key | Value | Description |
|---------------------------|------------------|----------|--|
| Certificate-%X%(1 <= %X%) | ValidFromYear | (String) | Refers to valid period (start year). |
| | ValidFromMonth | (String) | Refers to valid period (start month). |
| | ValidFromDay | (String) | Refers to valid period (start day). |
| | ValidFromHour | (String) | Refers to valid period (start hour). |
| | ValidFromMinute | (String) | Refers to valid period (start minute). |
| | ValidFromSecond | (String) | Refers to valid period (start second). |
| | ValidUntilYear | (String) | Refers to valid period (end year). |
| | ValidUntilMonth | (String) | Refers to valid period (end month). |
| | ValidUntilDay | (String) | Refers to valid period (end day). |
| | ValidUntilHour | (String) | Refers to valid period (end hour). |
| | ValidUntilMinute | (String) | Refers to valid period (end minute). |
| | ValidUntilSecond | (String) | Refers to valid period (end second). |
| | FileDigest | (String) | Refers to the hash value of the certificate. |
| | issuer | (String) | Refers to the person who issued the certificate. |
| | issuedTo | (String) | Refers to the issue destination for the certificate. |

Proxy

SettingUrl : config_proxy.cgi

Refers to setting information for the proxy.

| Category | Key | Value | Description |
|----------|----------------------------|----------|--|
| Proxy | ID | (String) | Refers to an ID for proxy authentication. |
| | Password | (String) | Refers to the password for proxy authentication. |
| | UseProxyServerDirectPrint | | Refers to whether a proxy is used for Server Direct Print. |
| | Enable | Enable | |
| | | Disable | Disable |
| | UseProxyStatusNotification | | Refers to whether a proxy is used in status notifications. |
| | Enable | Enable | |
| | | Disable | Disable |
| | UseProxyWebContentsUpdate | | Refers to whether a proxy is used for automatic updating of web content. |
| | Enable | Enable | |
| | | Disable | Disable |
| | ProxyURL | (String) | Refers to the proxy URL. |

Administrator and Location

SettingUrl : config_administrator.cgi

Refers to the administrator information.

| Category | Key | Value | Description |
|----------|---------------|----------|---|
| General | Administrator | (String) | Refers to the string that designates the administrator. |
| | Location | (String) | Refers to the string that designates the location. |

Time of Day

SettingUrl : config_time.cgi

Refers to the time-of-day setting.

| Category | Key | Value | Description |
|----------|-------------------------|----------|---|
| Time | Year | (String) | Refers to the year of the internal clock of the TM-i. |
| | Month | (String) | Refers to the month of the internal clock of the TM-i. |
| | Day | (String) | Refers to the day of the internal clock of the TM-i. |
| | Hour | (String) | Refers to the hour of the time of the internal clock of the TM-i. |
| | Minute | (String) | Refers to the minute of the time of the internal clock of the TM-i. |
| | UseTimeServer | | Refers to whether to enable or disable the clock alignment by the time server. |
| | Enable | Enable | |
| | Disable | Disable | |
| | TimeServerSettingMethod | | Refers to the time server name acquisition method. |
| | Auto | Auto | |
| | Manual | Manual | |
| | TimeServer | | Refers to the time server name. |
| | LastUpdateResult | | Displays the results of the last time-of-day acquisition synchronized with the time server. |
| | Success | Success | Time-of-day synchronization with the time server was successful. |
| | Failure | Failure | Time-of-day synchronization with the time server failed. |
| | - | - | Time-of-day synchronization not done. |
| | TimeZone | | Refers to the time zone. |

Password

SettingUrl : config_password.cgi

Refers to the set password.

| Category | Key | Value | Description |
|----------|-------------|----------|---|
| Password | PasswordMD5 | (String) | Refers to the string created from the password string through MD5 encryption. |

Changing the Set Values

Common

You can not send only part of the parameters written in each SettingUrl. Send all the parameters in each SettingURL. If you want to change some set values only, send together the parameters other than those you want to change, without changing their values acquired by referring to the settings.

Wired LAN

General

SettingUrl : set_general_wired.cgi

Changes the link speed of the wired LAN.

| POST parameter | Specifiable value | Description |
|----------------|-------------------|---------------------------|
| LinkSpeed | | Specifies the link speed. |
| | 10BaseTHalf | 10BaseT half duplex |
| | 10BaseTFull | 10BaseT full duplex |
| | 100BaseTHalf | 100BaseT half duplex |
| | 100BaseTFull | 100BaseT full duplex |
| | AutoNegotiation | Auto-negotiation |

TCP/IP

SettingUrl : set_tcpip_wired.cgi

Changes the IP address, etc. of the wired LAN.

| POST parameter | Specifiable value | Description |
|------------------------|-------------------|---|
| IPAddressSettingMethod | | Specifies the IP address setting method. |
| | Auto | Auto |
| | Manual | Manual |
| APIPA | | Refers to whether to enable or disable APIPA. |
| | Enable | Enable |
| | Disable | Disable |
| IPAddress | (String) | Specifies the IP address setting method. |
| SubnetMask | (String) | Specifies the subnet mask. |
| Gateway | (String) | Specifies the default gateway. |
| DNSServerSettingMethod | | Specifies the DNS server IP address setting method. |
| | Auto | Auto |
| | Manual | Manual |
| DNSServerIPAddress1 | (String) | Refers to DNS server IP address 1. |
| DNSServerIPAddress2 | (String) | Refers to DNS server IP address 2. |
| DNSServerIPAddress3 | (String) | Refers to DNS server IP address 3. |

Wireless LAN

General

SettingUrl : set_general_wireless.cgi

Changes the SSID, etc. of the wireless LAN.

| POST parameter | Specifiable value | Description |
|-----------------------|-------------------|--|
| NetworkMode | | Specifies the network mode. |
| | Infrastructure | Infrastructure mode |
| | Adhoc | Adhoc mode |
| SSID | (String) | Specifies the SSID by a character string using single-byte alphanumeric characters and spaces, 1 character or more to 32 characters or less long. |
| AdhocChannel | (String) | Specifies the ad hoc channel using an integer in the range 1- 11. |
| CommunicationStandard | | Specifies the communication standard. |
| | 802.11b/g | 802.11b/g |
| | 802.11b/g/n | 802.11b/g/n |
| AuthenticationMethod | | Specifies the authentication method. |
| | OpenSystem | OpenSystem |
| | SharedKey | SharedKey |
| | WPAPSK | WPAPSK |
| | WPA2PSK | WPA2PSK |
| EncryptionMethod | | Specifies the encryption method. |
| | None | No encryption |
| | WEP | WEP |
| | TKIP | TKIP |
| | AES | AES |
| DefaultWEPKey | | Specifies the WEP key to be used. |
| | WEPKey1 | WEP key 1 |
| | WEPKey2 | WEP key 2 |
| | WEPKey3 | WEP key 3 |
| | WEPKey4 | WEP key 4 |
| WEPKey1 | (String) | Specifies a value for WEP key 1 using one of the following strings: <ul style="list-style-type: none">• 10-digit hexadecimal number• 26-digit hexadecimal number• 5 single-byte alphanumeric characters and spaces• 13 single-byte alphanumeric characters and spaces |
| WEPKey2 | (String) | Specifies a value for WEP key 2 using one of the following strings: <ul style="list-style-type: none">• 10-digit hexadecimal number• 26-digit hexadecimal number• 5 single-byte alphanumeric characters and spaces• 13 single-byte alphanumeric characters and spaces |

| POST parameter | Specifiable value | Description |
|-----------------------|--------------------------|--|
| WEPKey3 | (String) | Specifies a value for WEP key 3 using one of the following strings: <ul style="list-style-type: none">• 10-digit hexadecimal number• 26-digit hexadecimal number• 5 single-byte alphanumeric characters and spaces• 13 single-byte alphanumeric characters and spaces |
| WEPKey4 | (String) | Specifies a value for WEP key 4 using one of the following strings: <ul style="list-style-type: none">• 10-digit hexadecimal number• 26-digit hexadecimal number• 5 single-byte alphanumeric characters and spaces• 13 single-byte alphanumeric characters and spaces |
| PreSharedKey | (String) | Specifies the pre-shared key using one of the following strings: <ul style="list-style-type: none">• 8 or more to 63 or less single-byte alphanumeric characters and spaces• 64-digit hexadecimal number |

TCP/IP

SettingUrl : *set_tcpip_wireless.cgi*

Changes the IP address, etc. of the wireless LAN.

| POST parameter | Specifiable value | Description |
|------------------------|-------------------|---|
| IPAddressSettingMethod | Auto | Specifies the IP address setting method. Auto |
| | Manual | Manual |
| APIPA | Enable | Refers to whether to enable or disable APIPA. Enable |
| | Disable | Disable |
| IPAddress | (String) | Specifies the IP address. |
| SubnetMask | (String) | Specifies the subnet mask. |
| Gateway | (String) | Specifies the default gateway. |
| DNSServerSettingMethod | Auto | Specifies the DNS server IP address setting method. Auto |
| | Manual | Manual |
| DNSServerIPAddress1 | (String) | Refers to DNS server IP address 1. |
| DNSServerIPAddress2 | (String) | Refers to DNS server IP address 2. |
| DNSServerIPAddress3 | (String) | Refers to DNS server IP address 3. |

Adding a TM Printer

SettingUrl : set_epos_print.cgi

Registers a new device.

Refer to the Technical Reference Guide for printers that can be designated.



| POST parameter | Specifiable value | Description |
|----------------|-------------------|---|
| DeviceID | (String) | Specifies the device ID by a character string using single-byte alphanumeric characters, underscore(s), period(s), and/or dash(es), one character or more and 30 characters or less long. |
| Model | | Specifies the device model. |
| | TM-T88V | TM-T88V |
| | TM-T88IV | TM-T88IV |
| | TM-T70 | TM-T70 |
| | TM-T70II | TM-T70II |
| | TM-T90 | TM-T90 |
| | TM-L90 | TM-L90 |
| | TM-P60II | TM-P60II |
| | TM-T20 | TM-T20 |
| | TM-T20II | TM-T20 |
| | TM-T82II | TM-T82II |
| | TM-P80 | TM-P80 |
| | TM-U220 | TM-U220 |
| IPAddress | (String) | Specifies the IP address. |
| RetryInterval | (String) | Specifies the communication retry interval using a numeric value (in milliseconds) in the range 100- 60000. |

Deleting a TM Printer

SettingUrl : delete_epos_print.cgi

Deletes a registered device.

| POST parameter | Specifiable value | Description |
|----------------|-------------------|---|
| DeviceID | (String) | Specifies the device ID by a character string using single-byte alphanumeric characters, underscore(s), period(s), and/or dash(es), one character or more and 30 characters or less long. |

Setting a Customer Display

SettingUrl : set_epos_display.cgi

Changes the settings for customer displays connected to TM-i.

| POST parameter | Specifiable value | Description |
|----------------|-------------------|---|
| Baudrate | 2400 | Specifies the communication speed. 2400 bps |
| | 4800 | 4800 bps |
| | 9600 | 9600 bps |
| | 19200 | 19200 bps |
| | 38400 | 38400 bps |
| | 57600 | 57600 bps |
| | 115200 | 115200 bps |
| Databit | 7 | Specifies the data bit. 7 bits |
| | 8 | 8 bits |
| | None | Specifies the parity. None |
| Parity | Even | Even |
| | Odd | Odd |
| | 100 | Specifies the brightness. 100% |
| Brightness | 60 | 60% |
| | 40 | 40% |
| | 20 | 20% |
| | Enable | Refers to whether customer displays are used. Enable |
| Use | Disable | Disable |

Adding a key input device

SettingUrl : set_epos_key_input_device.cgi

Changes the information for key input devices connected to TM-i.

| POST parameter | Specifiable value | Description |
|----------------|-------------------|--|
| DeviceID | (String) | Designates a device ID of 1 to 30 alphanumeric characters, underbars, periods, and hyphens. local_printer, local_display, and local_serial cannot be designated. Designate IDs that are not the same as those used for registered printers and registered key input devices. |
| DeviceName | (String) | Specifies the device name. |
| VID | (String) | Designates a vendor ID (4-digit hexadecimal value). |
| PID | (String) | Designates a product ID (4-digit hexadecimal value). |
| ControlScript | (String) | Designates the file name of the control script to be used. |

Deleting a key input device

SettingUrl : delete_epos_key_input_device.cgi

Deletes the key input device information for the device ID specified in the parameter.

| POST parameter | Specifiable value | Description |
|----------------|-------------------|---|
| DeviceID | (String) | Designates a device ID of 1 to 30 alphanumeric characters, underbars, periods, and hyphens. |

Setting a Serial Communication Device

SettingUrl : set_epos_serial.cgi

Changes the serial communication device information with a device ID of (local_serial).

If the TM-i specifications include no serial ports, this setting is disabled.

| POST parameter | Specifiable value | Description |
|----------------|-------------------|--|
| Use | | Designates whether to use a serial communication device. |
| | Enable | Enable |
| | Disable | Disable |
| Baudrate | 2400 | 2400 bps |
| | 4800 | 4800 bps |
| | 9600 | 9600 bps |
| | 19200 | 19200 bps |
| | 38400 | 38400 bps |
| | 57600 | 57600 bps |
| | 115200 | 115200 bps |
| Databit | | Specifies the data bit. |
| | 7 | 7 bits |
| | 8 | 8 bits |
| Parity | | Specifies the parity. |
| | None | None |
| | Even | Even |
| | Odd | Odd |
| Stopbit | | Specifies the stop bit. |
| | 1 | 1 bit |
| | 1.5 | 1.5 bit |
| | 2 | 2 bit |
| FlowControl | | Specifies the flow control. |
| | XOnXOff | XOnXOff |
| | Hardware | Hardware |
| | None | None |

Setting a TM printer

General

SettingUrl : set_device_tcpip.cgi

Changes the network settings for a TM printer connected to the TM-i.



Setting is possible under the following conditions.

- TM-i and TM printers are connected to the same subnet network by a LAN cable.
(Setting is not possible if the TM-i and TM printers are connected by a wireless LAN.)
- A TM-i printer and wireless LAN interface with a USB connector of a TM printer are connected by USB. (UB-R03)

| POST parameter | Specifiable value | Description |
|------------------------|-------------------|---|
| MACAddress | (String) | Specifies the MAC address. |
| HostName | (String) | Specifies the IP address. |
| IPAddressSettingMethod | | Specifies the IP address setting method. |
| | Auto | Auto |
| | Manual | Manual |
| APIPA | | Refers to whether to enable or disable APIPA. |
| | Enable | Enable |
| | Disable | Disable |
| IPAddress | (String) | Specifies the IP address. |
| SubnetMask | (String) | Specifies the subnet mask. |
| Gateway | (String) | Specifies the default gateway. |
| Password | (String) | Specifies a new password to be set using a single-byte alphanumeric character string 0 (zero) character or more and 20 characters or less long. |

Wireless LAN

SettingUrl : set_device_wireless.cgi

Changes the wireless LAN settings for a TM printer connected to the TM-i.



Setting is possible under the following conditions.

- A TM-i printer and wireless LAN interface with a USB connector of a TM printer are connected by USB. (UB-R03)

| POST parameter | Specifiable value | Description |
|----------------|-------------------|---|
| MACAddress | (String) | Specifies the MAC address. |
| HostName | (String) | Specifies the IP address. |
| NetworkMode | | Specifies the network mode. |
| | Infrastructure | Infrastructure mode |
| | Adhoc | Adhoc mode |
| SSID | (String) | Specifies the SSID by a character string using single-byte alphanumeric characters and spaces, 1 character or more to 32 characters or less long. |

| POST parameter | Specifiable value | Description |
|-----------------------|--------------------------|--|
| AdhocChannel | (String) | Specifies the ad hoc channel using an integer in the range 1- 11. |
| CommunicationStandard | 802.11b | 802.11b |
| | 802.11b/g | 802.11b/g |
| | 802.11b/g/n | 802.11b/g/n |
| AuthenticationMethod | OpenSystem | OpenSystem |
| | SharedKey | SharedKey |
| | WPAPSK | WPAPSK |
| | None | No encryption |
| EncryptionMethod | WEP | WEP |
| | TKIP | TKIP |
| | AES | AES |
| | WEPKey1 | WEP key 1 |
| DefaultWEPKey | WEPKey2 | WEP key 2 |
| | WEPKey3 | WEP key 3 |
| | WEPKey4 | WEP key 4 |
| WEPKey1 | (String) | Specifies a value for WEP key 1 using one of the following strings: <ul style="list-style-type: none">• 10-digit hexadecimal number• 26-digit hexadecimal number• 5 single-byte alphanumeric characters and spaces• 13 single-byte alphanumeric characters and spaces |
| WEPKey2 | (String) | Specifies a value for WEP key 2 using one of the following strings: <ul style="list-style-type: none">• 10-digit hexadecimal number• 26-digit hexadecimal number• 5 single-byte alphanumeric characters and spaces• 13 single-byte alphanumeric characters and spaces |
| WEPKey3 | (String) | Specifies a value for WEP key 3 using one of the following strings: <ul style="list-style-type: none">• 10-digit hexadecimal number• 26-digit hexadecimal number• 5 single-byte alphanumeric characters and spaces• 13 single-byte alphanumeric characters and spaces |

| POST parameter | Specifiable value | Description |
|-----------------------|--------------------------|--|
| WEPKey4 | (String) | Specifies a value for WEP key 4 using one of the following strings: <ul style="list-style-type: none">• 10-digit hexadecimal number• 26-digit hexadecimal number• 5 single-byte alphanumeric characters and spaces• 13 single-byte alphanumeric characters and spaces |
| PresharedKey | (String) | Specifies the pre-shared key using one of the following strings: <ul style="list-style-type: none">• 8 or more, 63 or less single-byte alphanumeric characters and spaces |
| Password | (String) | Specifies a new password to be set using a single-byte alphanumeric character string 0 (zero) character or more and 20 characters or less long. |

Web Contents Updater

SettingUrl : set_web_contents_updater.cgi

Changes the Web contents update setting.

| POST parameter | Specifiable value | Description |
|--------------------------|-------------------|--|
| AutoUpdate | | Specifies whether to automatically update the Web contents. |
| | Enable | Enable |
| | Disable | Disable |
| Frequency | | Specifies the frequency of automatic update. |
| | Hour | Updates at specified time intervals. |
| | Daily | Updates daily, at the specified time of day. |
| | Weekly | Updates weekly, on the specified day of the week and at the specified time of day. |
| | Monthly | Updates monthly, on the specified day and at the specified time of day. |
| Timing | | Specifies the timing of automatic update. The value to be specified varies depending on the value for Frequency. |
| (When Frequency=Hour) | (String) | Specifies the time interval of automatic update using an integer in the range 1- 23. |
| (When Frequency=Daily) | | Specify a blank character. |
| (When Frequency=Weekly) | Sunday | Updates every Sunday. |
| | Monday | Updates every Monday. |
| | Tuesday | Updates every Tuesday. |
| | Wednesday | Updates every Wednesday. |
| | Thursday | Updates every Thursday. |
| | Friday | Updates every Friday. |
| | Saturday | Updates every Saturday. |
| (When Frequency=Monthly) | (String) | Specifies the date to perform automatic update using an integer in the range 1- 31. |
| UpdateTimeHour | (String) | Specifies the hour of the time to perform automatic update using an integer in the range 0- 23. When Frequency=Hour, specifies the empty character. |
| UpdateTimeMinute | (String) | Specifies the minute of the time to perform automatic update using an integer in the range 0- 59. When Frequency=Hour, specifies the empty character. |
| FileURL | (String) | Specifies the URL of the Web contents file. |
| UseProxy | | Specifies whether to use a proxy server at the time of automatic update. |
| | Enable | Enable |
| | Disable | Disable |
| ProxyURL | (String) | Specifies the URL of the proxy server. |

| POST parameter | Specifiable value | Description |
|----------------------|-------------------|--|
| ID | (String) | Designates the ID that identifies TM-i on the web server side. This is the user ID used for digest authentication. |
| Password | (String) | Designates the password used for Digest authentication. |
| ServerAuthentication | | Designates whether to use server authentication. If no password is specified, the current settings are used. |
| | Enable | Enable |
| | Disable | Disable |

Automatic Update

SettingUrl : execute_web_contents_updater.cgi

Forcibly perform automatic update of the Web contents.
No parameter to be set.

Server Direct Print

SettingUrl : set_server_direct_print.cgi

Changes the Server Direct Print settings.

| POST parameter | Specifiable value | Description |
|----------------|-------------------|--|
| Use | | Designates whether to use Server Direct Print. |
| | Enable | Enable |
| | Disable | Disable |
| ID | (String) | Designates an ID of no more than 30 alphanumeric characters, underbars, periods, and hyphens. |
| Password | (String) | Designates a password of no more than 30 alphanumeric characters, underbars, periods, and hyphens. |
| URL | (String) | Designates the acquisition destination URL for print data. If URL1 is specified, this parameter is ignored. |
| Interval | (String) | Designates a value (seconds) between 1 and 86400 for the standby time from the completion of acquisition of print data until acquisition of the next print data. |
| URL1 | (String) | Designates the acquisition destination URL for print data. |
| Interval1 | (String) | Designates a value (seconds) between 1 and 86400 for the standby time from the completion of acquisition of print data until acquisition of the next print data. |

| POST parameter | Specifiable value | Description |
|-----------------------|--------------------------|--|
| URL2 | (String) | Designates the acquisition destination URL for print data. |
| Interval2 | (String) | Designates a value (seconds) between 1 and 86400 for the standby time from the completion of acquisition of print data until acquisition of the next print data. |
| URL3 | (String) | Designates the acquisition destination URL for print data. |
| Interval3 | (String) | Designates a value (seconds) between 1 and 86400 for the standby time from the completion of acquisition of print data until acquisition of the next print data. |
| ServerAuthentication | | Designates whether to use server authentication. If no password is specified, the current settings are used. |
| | Enable | Enable |
| | Disable | Disable |

Status Notification

SettingUrl : set_status_notification.cgi

Changes the settings for status notifications.

| POST parameter | Specifiable value | Description |
|-----------------------|--------------------------|--|
| Use | | Designates whether the status notification function is used. |
| | Enable | Enable |
| | Disable | Disable |
| ID | (String) | Designates an ID of no more than 30 alphanumeric characters, underbars, periods, and hyphens. |
| Password | (String) | Designates a password of no more than 30 alphanumeric characters, underbars, periods, and hyphens. |
| URL | (String) | Designates the status notification destination URL. |
| Interval | (String) | Designates a value (seconds) between 1 and 86400 for the standby time from the completion of acquisition of print data until acquisition of the next print data. |
| ServerAuthentication | | Designates whether to use server authentication. If no password is specified, the current settings are used. |
| | Enable | Enable |
| | Disable | Disable |

Certificate

SettingUrl : delete_certificate.cgi

Deletes the specified certificate.

| POST parameter | Specifiable value | Description |
|----------------|-------------------|--|
| FileDigest | (String) | Designates the "MD5" hash value for the certificate to be deleted. |

Proxy

SettingUrl : set_proxy.cgi

Changes the proxy information.

| POST parameter | Specifiable value | Description |
|----------------------------|-------------------|---|
| ProxyURL | (String) | Enter the proxy server URL and port number in the following: "http://host name: port number". Example: http://10.0.0.1:8008 |
| ID | (String) | Designates an ID of no more than 30 alphanumeric characters, underbars, periods, and hyphens. |
| Password | (String) | Designates a password of no more than 30 alphanumeric characters, underbars, periods, and hyphens. |
| UseProxyServerDirectPrint | Enable Disable | Designates whether a proxy is used in Server Direct Print. |
| UseProxyStatusNotification | Enable Disable | Designates whether a proxy is used in status notifications. |
| UseProxyWebContentsUpdate | Enable Disable | Designates whether a proxy is used in Web Contents Update. |

Administrator and Location

SettingUrl : set_administrator.cgi

Changes the administrator information.

| POST parameter | Specifiable value | Description |
|----------------|-------------------|--|
| Administrator | (String) | Specifies the string that designates the administrator, 255 characters or less long. |
| Location | (String) | Specifies the string that designates the location, 255 characters or less long. |

Time of Day

SettingUrl : set_time.cgi

Changes the time-of-day setting.

| POST parameter | Specifiable value | Description |
|-------------------------|-------------------|--|
| Year | (String) | Specifies the year of the internal clock of the TM-i using an integer in the range 2012-2036. |
| Month | (String) | Specifies the month of the internal clock of the TM-i using an integer in the range 1-12. |
| Day | (String) | Specifies the day of the internal clock of the TM-i using an integer in the range 1-31. |
| Hour | (String) | Specifies the hour of the time of the internal clock of the TM-i using an integer in the range 0-23. |
| Minute | (String) | Specifies the minute of the time of the internal clock of the TM-i using an integer in the range 0-59. |
| UseTimeServer | | Specifies whether to enable or disable the clock alignment by the time server. |
| | Enable | Enable |
| | Disable | Disable |
| TimeServerSettingMethod | | Specifies the time server name acquisition method. |
| | Auto | Auto |
| | Manual | Manual |
| TimeServer | (String) | Specifies the time server name. |
| TimeZone | (String) | Specifies the time zone with a value that is -14 or higher to 12 or lower. |

Password

SettingUrl : set_password.cgi

Changes the set password.

| POST parameter | Specifiable value | Description |
|----------------|-------------------|---|
| NewPassword | (String) | Specifies a new password to be set using a single-byte alphanumeric character string 0 (zero) character or more and 20 characters or less long. |

Resetting and Initializing the Settings

SettingUrl : set_reset.cgi

Resets the wired LAN/wireless LAN and restores the factory default settings.

| POST parameter | Specifiable value | Description |
|----------------|-------------------|--|
| Operation | Reset | Resets the wired LAN/wireless LAN. |
| | FactoryDefault | Restores the factory default settings. |

Error Codes and Actions to Take

This section describes an error code returned to the response body when POST fails and an action to take.

| code | Action to Take |
|-----------------------------------|--|
| FirmwareUpdating | Firmware is being updated by the remote update tool. Wait until the execution of the remote update tool becomes complete. |
| InvalidLinkSpeed | Invalid LinkSpeed parameter value. Correct the error. |
| InvalidIPAddressSettingMethod | Invalid IPAddressSettingMethod parameter value. Correct the error. |
| InvalidAPIPA | Invalid APIPA parameter value. Correct the error. |
| InvalidIPAddress | Invalid IPAddress parameter value. Correct the error. |
| InvalidSubnetMask | Invalid SubnetMask parameter value. Correct the error. |
| InvalidGateway | Invalid Gateway parameter value. Correct the error. |
| InvalidDNSServerSettingMethod | Invalid DNSServerSettingMethod parameter value. Correct the error. |
| InvalidDNSServerIPAddress | Invalid value for any of the parameters DNSServerIPAddress1 to DNSServerIPAddress3. Correct the error. |
| InvalidNetworkMode | Invalid NetworkMode parameter value. Correct the error. |
| InvalidSSID | Invalid SSID parameter value. Correct the error. |
| InvalidAdhocChannel | Invalid AdhocChannel parameter value. Correct the error. |
| InvalidCommunicationStandard | Invalid CommunicationStandard parameter value. Check the values for the communication standard supported by the printer to correct the value. |
| InvalidAuthenticationMethod | Invalid AuthenticationMethod parameter value. Correct the error. |
| InvalidAuthenticationMethodAdhoc | When Adhoc is specified for the NetworkMode parameter, WPAPSK/WPA2PSK cannot be specified for AuthenticationMethod. Correct the error. |
| InvalidEncryptionMethod | Invalid EncryptionMethod parameter value. Correct the error. |
| InvalidEncryptionMethodAdhoc | When Adhoc is specified for the NetworkMode parameter, TKIP/AES cannot be specified for EncryptionMethod. Correct the error. |
| InvalidEncryptionMethodOpenSystem | When OpenSystem is specified for the AuthenticationMethod parameter, TKIP/AES cannot be specified for EncryptionMethod. Correct the error. |

| code | Action to Take |
|-----------------------------------|---|
| InvalidEncryptionMethodWPAPSK | When WPAPSK is specified for the AuthenticationMethod parameter, None/WEP cannot be specified for EncryptionMethod. Correct the error. |
| InvalidDefaultWEPKey | Invalid DefaultWEPKey parameter value. Correct the error. |
| InvalidWEPKey1 | Invalid WEPKey1 parameter value. Correct the error. |
| InvalidWEPKey2 | Invalid WEPKey2 parameter value. Correct the error. |
| InvalidWEPKey3 | Invalid WEPKey3 parameter value. Correct the error. |
| InvalidWEPKey4 | Invalid WEPKey4 parameter value. Correct the error. |
| InvalidPresharedKey | Invalid PresharedKey parameter value. Correct the error. |
| InvalidDeviceID | Invalid DeviceID parameter value. Correct the error. |
| DeviceIDAlreadyRegistered | The device specified for the DeviceID parameter cannot be registered because it is already registered. Specify a different ID. |
| InvalidModel | Invalid Model parameter value. Correct the error. |
| InvalidRetryInterval | Invalid RetryInterval parameter value. Correct the error. |
| DeviceIDNotRegistered | The device specified for the DeviceID parameter cannot be deleted because it is not registered. Specify an already registered ID. |
| InvalidMACAddress | Invalid MACAddress parameter value. Correct the error. |
| InvalidHostName | Invalid HostName parameter value. Correct the error. |
| PasswordNotCorrect | The string specified for the Password parameter did not match the password string set into the detected TM printer. Correct the error. |
| DeviceNotFound | The TM printer specified for the MACAddress or HostName parameter could not be found. Check the connection status of the TM printer. |
| InvalidCommunicationStandardAdhoc | When Adhoc is specified for the NetworkMode parameter, 802.11b/g/n cannot be specified for CommunicationStandard. Correct the error. |
| DeviceNotWireless | The TM printer specified for the MACAddress or HostName parameter is not a printer with any wireless LAN interface. Check the interface of the TM printer. |
| InvalidAutoUpdate | Invalid AutoUpdate parameter value. Correct the error. |

| code | Action to Take |
|----------------------------|--|
| InvalidFrequency | Invalid Frequency parameter value. Correct the error. |
| InvalidTiming | Invalid Timing parameter value. Correct the error. |
| InvalidUpdateTimeHour | Invalid UpdateTimeHour parameter value. Correct the error. |
| InvalidTimeMinute | Invalid UpdateTimeMinute parameter value. Correct the error. |
| InvalidFileURL | Invalid FileURL parameter value. Correct the error. |
| InvalidUseProxy | Invalid UseProxy parameter value. Correct the error. |
| InvalidProxyURL | Invalid ProxyURL parameter value. Correct the error. |
| AccessToFileURLFailed | Failed to access the URL specified for the FileURL parameter. Check the network settings for the TM-i and for the server. |
| AccessToProxyURLFailed | Failed to access the proxy URL specified for the ProxyURL parameter. Check the network settings for the TM-i and for the server. |
| NotEnoughFreeSpace | The amount of free ROM space on the TM-i is not enough to explode the Web contents downloaded from the URL specified for FileURL. Check that the file size of the Web contents is 30MB or less. |
| FileURLNotZip | The Web contents downloaded from the URL specified for FileURL were not of a zip file format. Correct the error. |
| WebContentsUpdaterDisabled | The Web contents automatic update setting is disabled. Correct the error. |
| microSDNotFound | The Web contents save destination is specified as microSD, but no microSD could be detected. Check that a microSD is mounted to the TM-i. |
| InvalidUse | Invalid Use parameter value. Correct the error. |
| InvalidID | Invalid ID parameter value. Correct the error. |
| InvalidPassword | Invalid Password parameter value. Correct the error. |
| IDNeededToSetPassword | When a string with no null character is specified for the Password parameter, a null character string cannot be specified for the ID parameter. Set a value for the ID parameter. |
| InvalidURL | Invalid URL parameter value. Correct the error. |
| InvalidInterval | Invalid Interval parameter value. Correct the error. |
| InvalidAdministrator | Invalid Administrator parameter value. Correct the error. |

| code | Action to Take |
|--------------------------------|--|
| InvalidLocation | Invalid Location parameter value. Correct the error. |
| InvalidYear | Invalid Year parameter value. Correct the error. |
| InvalidMonth | Invalid Month parameter value. Correct the error. |
| InvalidDay | Invalid Day parameter value. Correct the error. |
| InvalidHour | Invalid Hour parameter value. Correct the error. |
| InvalidMinute | Invalid Minute parameter value. Correct the error. |
| InvalidTimeZone | Invalid TimeZone parameter value. Correct the error. |
| InvalidUseTimeServer | Invalid UseTimeServer parameter value. Correct the error. |
| InvalidTimeServerSettingMethod | Invalid TimeServerSettingMethod parameter value. Correct the error. |
| InvalidTimeServer | Invalid TimeServer parameter value. Correct the error. |
| InvalidDate | Invalid Year/Month/Day parameter combination. Correct the error. |
| InvalidTime | Invalid Hour/Minute parameter combination. Correct the error. |
| InvalidNewPassword | Invalid NewPassword parameter value. Correct the error. |
| InvalidOperation | Invalid Operation parameter value. Correct the error. |

Sample Program

This sample program can acquire/change the set values of the TM-i and upload files.

Screen

The following screen appears when the sample program starts.

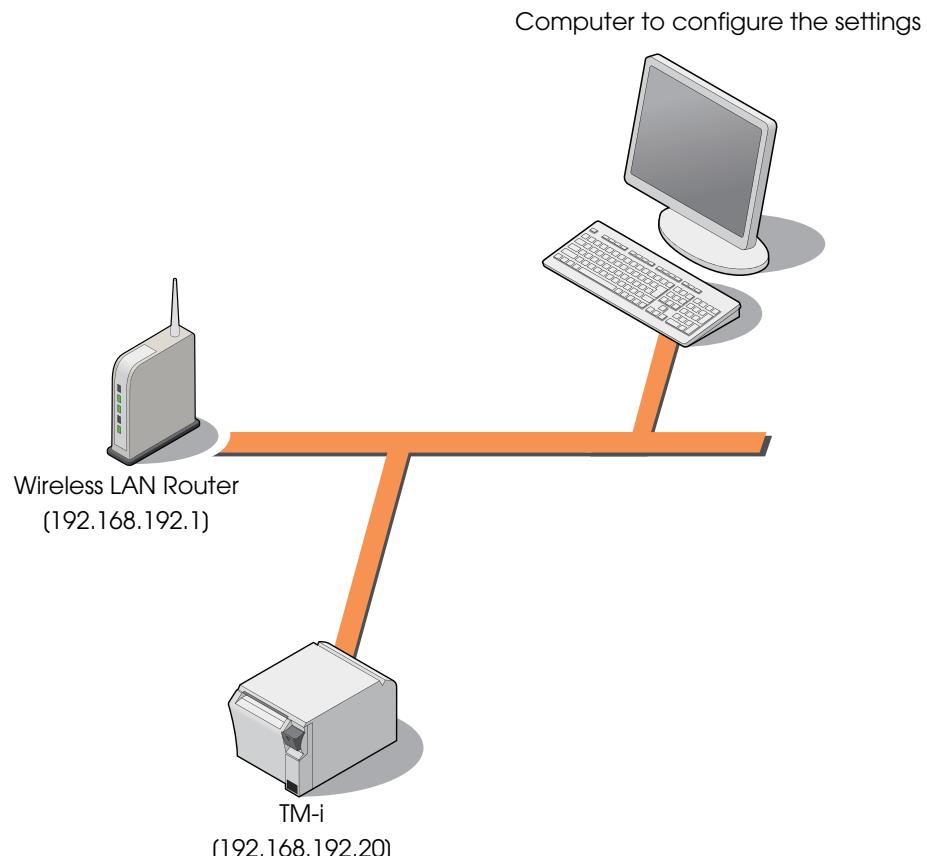
| A | B | C |
|----|------------------|--|
| 1 | | |
| 2 | IP Address | 192.168.192.168/PrinterConfigurationPage |
| 3 | CGI Name | config_general_wired.cgi/set_general_wired.cgi |
| 4 | Format | json |
| 5 | User Name | epson |
| 6 | Password | |
| 7 | | |
| 8 | GET | SET |
| 9 | | Upload Web Contents |
| 10 | | Upload Certificate File |
| 11 | response | |
| 12 | success | |
| 13 | code | |
| 14 | HTTP status code | |
| 15 | Response body | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |
| 26 | | |
| 27 | | |
| 28 | | |
| 29 | | |
| 30 | | |
| 31 | | |
| 32 | | |
| 33 | | |
| 34 | | |
| 35 | | |

Operating Environment

The system configuration diagram for the sample programs is as below.



The IP address value is just an example. Set the value that suits your use environment.



- Wireless LAN Router
- TM-i (1 set)
TM-T88V-i/TM-T70-i/TM-L90-i
- Computer to configure the settings
Computer in which Microsoft Office Excel 2003(Excel2003) or later and Microsoft Internet Explorer 7 or later are installed.

Basic Usage of the Sample Program

This sample program is implemented using VBA macros. Use this program by enabling macros.

1 Specify values for IP Address, CGI Name, Format, User Name, and Password.

For CGI Name and Format each, select a parameter from a list.

| A | B | C |
|----|------------|--|
| 1 | | |
| 2 | IP Address | 192.168.192.20/PrinterConfigurationPage |
| 3 | CGI Name | config_general_wired.cgi/set_general_wired.cgi |
| 4 | Format | json |
| 5 | User Name | epson |
| 6 | Password | |
| 7 | GET | SET |
| 8 | | Upload Web Contents |
| 9 | | Upload Certificate File |
| 10 | response | |
| 11 | success | |
| 12 | code | |
| 13 | | |

2 Click the (GET) button.

The response body and set values will be filled into the cells.

| A | B | C |
|----|------------------------|--|
| 7 | GET | SET |
| 8 | | Upload Web Contents |
| 9 | | Upload Certificate File |
| 10 | response | |
| 11 | success | TRUE |
| 12 | code | |
| 13 | | |
| 14 | HTTP status code | 200 |
| | Response body | { "response" : { "success" : "true" }, "WiredNetwork" : { "DNSServerIPAddress2" : "", "DNSServerSettingMethod" : "Manual", "IPAddress" : "192.168.192.20", "IPAddressSettingMethod" : "Manual", "SubnetMask" : "255.255.255.0", "APIPA" : "Disable", "DNSServerIPAddress1" : "", "DNSServerIPAddress3" : "", "Gateway" : "192.168.192.1" } } |
| 15 | | |
| 16 | | |
| 17 | WiredNetwork | |
| 18 | DNSServerIPAddress2 | |
| 19 | DNSServerSettingMethod | Manual |
| 20 | IPAddress | 192.168.192.20 |
| 21 | IPAddressSettingMethod | Manual |
| 22 | SubnetMask | 255.255.255.0 |
| 23 | APIPA | Disable |
| 24 | DNSServerIPAddress1 | |
| 25 | DNSServerIPAddress3 | |
| 26 | Gateway | 192.168.192.1 |
| 27 | | |

3 Change the set value you want to change and click the (SET) button.

The response body and set values will be filled into the cells.

| | GET | SET | Upload Web Contents | Upload Certificate File |
|----|------------------------|--|---------------------|-------------------------|
| 10 | response | | | |
| 11 | success | TRUE | | |
| 12 | code | | | |
| 13 | HTTP status code | 200 | | |
| 14 | Response body | <pre>{"response":\n{\n"success": "true"\n},\n"WiredNetwork":\n{\n"DNSServerIPAddress2": "",\n"DNSServerSettingMethod": "Manual",\n"IPAddress": "192.168.192.20",\n"IPAddressSettingMethod": "Manual",\n"SubnetMask": "255.255.255.0",\n"APIPA": "Disable",\n"DNSServerIPAddress1": "",\n"DNSServerIPAddress3": "",\n"Gateway": "192.168.192.1"\n}\n}</pre> | | |
| 15 | | | | |
| 16 | | | | |
| 17 | WiredNetwork | | | |
| 18 | DNSServerIPAddress2 | | | |
| 19 | DNSServerSettingMethod | Manual | | |
| 20 | IPAddress | 192.168.192.20 | | |
| 21 | IPAddressSettingMethod | Manual | | |
| 22 | SubnetMask | 255.255.255.0 | | |
| 23 | APIPA | Disable | | |
| 24 | DNSServerIPAddress1 | | | |
| 25 | DNSServerIPAddress3 | | | |
| 26 | Gateway | 192.168.192.1 | | |
| 27 | | | | |

4 Success or failure of the process to change the set value will be displayed. If the process fails, the reason will be filled into the cell.

The following screen shows the case in which the IP address failed to be set.

| | GET | SET | Upload Web Contents | Upload Certificate File |
|----|------------------------|---|---------------------|-------------------------|
| 10 | response | | | |
| 11 | success | FALSE | | |
| 12 | code | InvalidIPAddress | | |
| 13 | HTTP status code | 200 | | |
| 14 | Response body | <pre>{"response":\n{\n"success": "false",\n"code": "InvalidIPAddress"\n}\n}</pre> | | |
| 15 | | | | |
| 16 | | | | |
| 17 | WirelessNetwork | | | |
| 18 | DNSServerIPAddress2 | | | |
| 19 | DNSServerSettingMethod | Manual | | |
| 20 | IPAddress | 192.168.255.255 | | |
| 21 | IPAddressSettingMethod | Manual | | |
| 22 | SubnetMask | 255.255.255.0 | | |

Note

If (config_epos_print.cgi, set_epos_print.cgi) is selected for CGI Name and the (GET) button is clicked, all the registered devices will be filled into (Response body).

| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | |
|---|---|---|-----------------------|--|----|----|-----|----|----|----|----|----|----|----|----|--|
| | | | GET | | | | SET | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | response | | | | | | | | | | | | | |
| | | | success | TRUE | | | | | | | | | | | | |
| | | | code | | | | | | | | | | | | | |
| | | | HTTP status code | 200 | | | | | | | | | | | | |
| | | | Response body | <?xml version="1.0" encoding="UTF-8"?> <epos-utility xmlns="http://www.epson-pos.com/schemas/2012/02/epo"> <response success="true" /> <Devices-local_printer> <IPAddress></IPAddress> <Model>TM-T70</Model> <RetryInterval>100</RetryInterval> </Devices-local_printer> <Devices-printer> <IPAddress>192.168.192.168</IPAddress> <Model>TM-T70</Model> <RetryInterval>100</RetryInterval> </Devices-printer> </epos-utility> | | | | | | | | | | | | |
| | | | Devices-local_printer | | | | | | | | | | | | | |
| | | | IPAddress | | | | | | | | | | | | | |
| | | | Model | TM-T70 | | | | | | | | | | | | |
| | | | RetryInterval | 100 | | | | | | | | | | | | |
| | | | Devices-printer | | | | | | | | | | | | | |
| | | | IPAddress | 192.168.192.168 | | | | | | | | | | | | |
| | | | Model | TM-T70 | | | | | | | | | | | | |
| | | | RetryInterval | 100 | | | | | | | | | | | | |

All the registered devices are displayed.

Note that one device at a time can be registered (SET).

| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | |
|---|---|---|------------------|---|----|----|-----|----|----|----|----|----|----|----|----|--|
| | | | GET | | | | SET | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | response | | | | | | | | | | | | | |
| | | | success | TRUE | | | | | | | | | | | | |
| | | | code | | | | | | | | | | | | | |
| | | | HTTP status code | 200 | | | | | | | | | | | | |
| | | | Response body | <?xml version="1.0" encoding="UTF-8"?> <epos-utility xmlns="http://www.epson-pos.com/schemas/2012/02/epo"> <response success="true" /> </epos-utility> | | | | | | | | | | | | |
| | | | DeviceID | printer1 | | | | | | | | | | | | |
| | | | IPAddress | 192.168.192.168 | | | | | | | | | | | | |
| | | | Model | TM-T70 | | | | | | | | | | | | |
| | | | RetryInterval | 100 | | | | | | | | | | | | |

Write only one device to be registered.

Uploading Files

- 1 Click the (Upload Web Contents) button.

| A | B | C | D |
|----|------------------|--|-------------------------|
| 1 | | | |
| 2 | IP Address | 192.168.192.168 | |
| 3 | CGI Name | config_general_wired.cgi/set_general_wired.cgi | |
| 4 | Format | json | |
| 5 | User Name | epson | |
| 6 | Password | | |
| 7 | | | |
| 8 | GET | SET | Upload Web Contents |
| 9 | | | Upload Certificate File |
| 10 | response | | |
| 11 | success | | |
| 12 | code | | |
| 13 | | | |
| 14 | HTTP status code | | |
| 15 | Response body | | |

- 2 The file selection screen appears. Select the file to be uploaded to the TM-i. Click the (OPEN) button and the file starts to be uploaded.

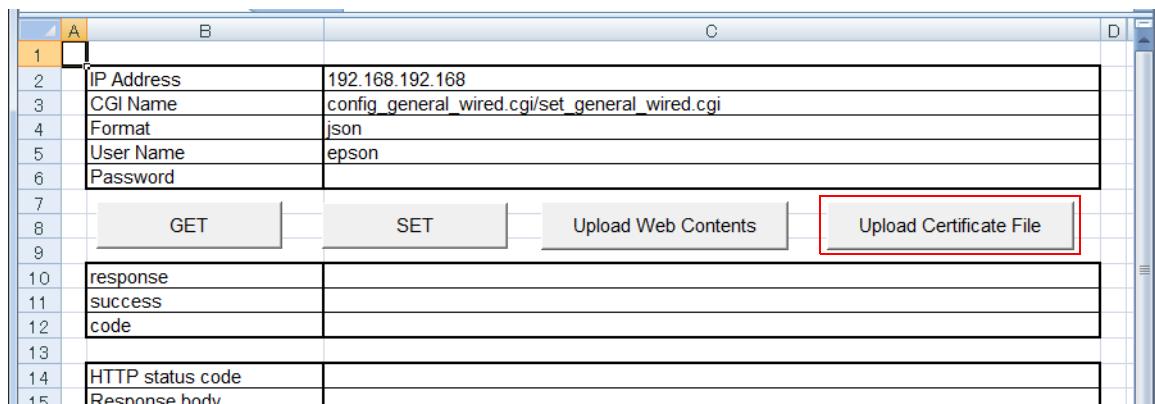
- 3 The results are displayed in the cell.

The following screen shows the case in which the file has been successfully uploaded.

| | | |
|----|------------------|--|
| 13 | | |
| 14 | HTTP status code | 200 |
| | | <HTML> |
| | | <HEAD> |
| | | <link rel="stylesheet" href="style.css" type="text/css" /> |
| | | <TITLE>Operation is complete.</TITLE> |
| | | </HEAD> |
| | | <BODY BGCOLOR="#FFFFFF" TEXT="#000000"> |
| | | <script type="text/javascript"> |
| | | function GoBack() { |
| | | var calledurl = document.referrer; |
| | | location.href = calledurl; |
| | | } |
| | | </script> |
| | | <CENTER> |
| | | Operation is complete. |
| | | |
| | | <P> |
| | | Go Back |
| | | </CENTER> |
| | | </BODY> |
| | | </HTML> |
| 15 | Response body | |

Uploading Certificate

- 1 Click the (Upload Certificate File) button.



- 2 The file selection screen appears. Select the file to be uploaded to the TM-i. Click the (OPEN) button and the file starts to be uploaded.
- 3 The results are displayed in the cell.

The following screen shows the case in which the file has been successfully uploaded.

