

TM-H6000V

WebConfig API User's Manual

Overview

Describes an overview of WebConfig API.

Web API Specification

Describes the web API specification.

Reference

Describes how to refer to and change setting values.

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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 WebConfig API for the TM-H6000V.

Manual Content

The manual is made up of the following sections:

- Chapter 1 [Overview](#)
- Chapter 2 [Web API Specification](#)
- Chapter 3 [Reference](#)

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Overview

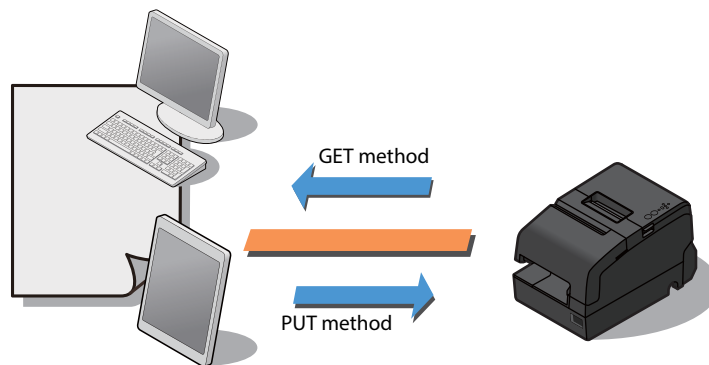
Overview of WebConfig API

WebConfig API is an API that can be included in your Web application in order to update the setting values of your TM printer.

The GET method, defined in HTTP (Hyper Text Transfer Protocol), is used to acquire setting values, and the PUT method is used to update the settings. The data is in JSON (JavaScript Object Notation) format.

After settings are updated with the PUT method, reset the printer to update the setting values.

Digest authentication and SSL/TLS transmission are used to ensure a secure environment.



Printers

- TM-H6000V

Support functions

Your printer includes a variety of functions for software settings. The functions that are supported (and not supported) by this API are shown in the following table.

Function	Supported / Not supported
TM intelligent function	Supported
Customize Value	Not supported
Memory Switches	Not supported
Network settings	Not supported

Interface

Settings can be configured on printers with the following interfaces.

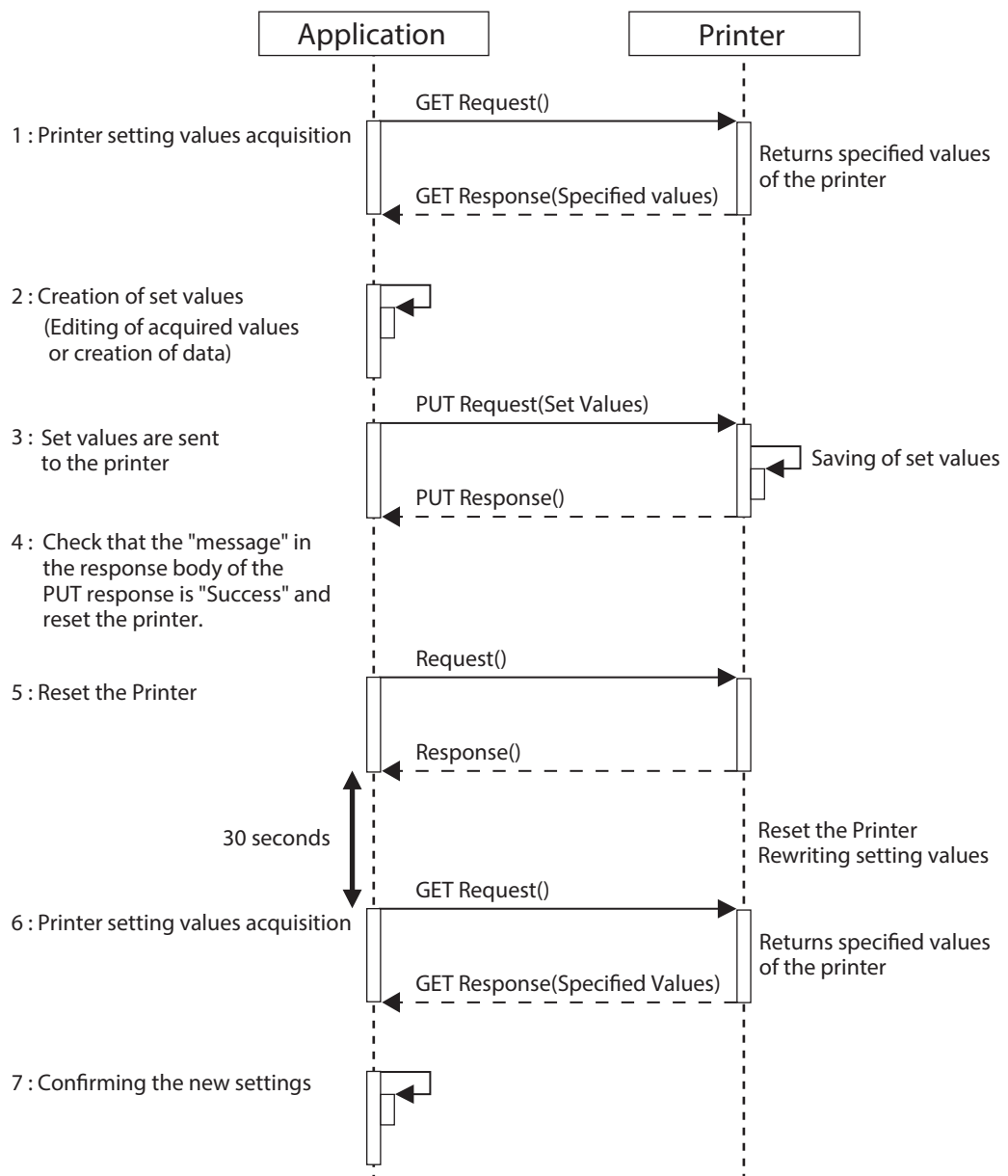
- Wired LAN
- Wireless LAN

Usage Instructions

Acquisition and Configuration of Setting Values

This section explains the system sequence and each element needed in order to acquire set values from printers and specify the settings by using the WebConfig API.

Acquisition and Configuration of Setting Values



Acquisition of setting values from the printer

The GET Request() is used to acquire setting values from the printer. The settings can be acquired from the following URLs.

- Used to acquire all data:
https://<Printer's IP address>/webconfig/api/v1/webconfig.cgi
- Used to acquire a specific key:
https://<Printer's IP address>/webconfig/api/v1/webconfig.cgi?keyname=<keyname1>,<keyname2>...

The printer's setting values are included in the GET Response(). The data is in JSON format.

Creation of setting values

Creation of each key value to configure the printer.

There are two setting methods: You can specify only the value of the specified key or you can edit the JSON data acquired by using the GET Response().

- Edit JSON data acquired from the printer.

For example:

Acquisition JSON data

```
...
  "StatusNotification": {
    "Active": "OFF",
    "ID": "",
    "Interval": "5",
    "Name": "",
    "Password": "(Not registered)",
    "Url": "",
    "UseProxy": "OFF",
    "UseServerAuthentication": "OFF",
    "UseUrlEncode": "ON"
  }
  "message": "Success"
},
...
```

Edit data

```
...
  "StatusNotification": {
    "Active": "ON",
    "ID": "",
    "Interval": "5",
    "Name": "PJ9F000156",
    "Url": "http://statusnotificationserver.test/test.php",
    "UseProxy": "OFF",
    "UseServerAuthentication": "OFF",
    "UseUrlEncode": "ON"
  }
  "message": "Success"
},
...
```

- Specify only the value of the specified key.
Specify the key and value, see ["Reference" on page 25](#).

Setting values are Sent to the Printer

The specified JSON data is sent to the printer by the PUT Request().

https://<Printer's IP address>/webconfig/api/v1/webconfig.cgi

Check the Response

When a printer receives a PUT Request, it returns a PUT Response().

If the setting values are processed normally, the "message" parameter of the PUT Response() is "Success".



The values in the PUT Response () are not the values that was set in the printer. Rather, they are the setting values from the PUT Request ().

Reset the Printer

The printer's setting values are not updated simply through the successful processing of a PUT Request().

To update the setting values, the printer must be reset.

`https://<Printer's IP address>/webconfig/api/v1/reset.cgi`

After the Response() is sent, the printer starts the reset process. It will take approximately 30 seconds until resetting is complete.

Printer settings acquisition

Acquire the printer's setting values to confirm that the settings were updated. After a Response() is received, wait for the printer to reset and then use a GET Request() to acquire the printer's setting values.

- Acquire all data

`https://<Printer's IP address>/webconfig/api/v1/webconfig.cgi`

- Acquire a specific key

`https://<Printer's IP address>/webconfig/api/v1/webconfig.cgi?keyname=<keyname1>,<keyname2>...`

The printer's setting values are included in the response body of the GET Response() that is returned.

The JSON data format is used.

Confirming the new settings

Compare the values for each key set in the printer and the JSON set values acquired from the printer, and check that they have been properly revised.

Digest authentication

You need Digest authentication to communicate with the printer.

The default ID and Password are ID: `epson`, Pass: `epson` and are the same as the administrator for Network settings.

Restrictions

Manual uploading of certificate files are not possible. In order to upload these, it is necessary to use an uploading program, or upload using the TM-H6000V Utility.

Web API Specification

URL of CGI

- Getting or changing the settings:
https://<Printer's IP address>/webconfig/api/v1/webconfig.cgi
- Printer reset:
https://<Printer's IP address>/webconfig/api/v1/reset.cgi

HTTP Method

- GET: Acquires setting values
 - PUT: Updates setting values
- Other methods such as OPTIONS and HEAD are also supported.

Response

The following content is included in the response.

Response Header

Header	HTTP Method				Description
	GET	PUT	HEAD	OPTIO NS	Value
Content-Type:	●	●	●	●	-
					application/json; charset=utf-8
Access-Control-Allow-Origin:	●	●	●	●	Specify "*" in the header for permitting cross-domain communication if communication sources are not limited.
					*
Access-Control-Allow-Methods:	●	●	●	●	Communicates the allowable methods of cross-domain communication.
					PUT, GET, OPTIONS, HEAD
Access-Control-Allow-Headers:	●	●	●	●	Communicates the allowable request headers of cross-domain communication.
					Content-Type, Content-Length, Authorization

Header	HTTP Method				Description
	GET	PUT	HEAD	OPTIONS	Value
X-Content-Type-Options:	●	●	●	●	Prevents the browser from identifying JSON data as data other than JSON data. (Requires Internet Explorer 8 or later)
					nosniff
X-XSS-protection:	●	●	●	●	Enables the browser XSS filter function.
					1; mode=block
X-Frame-Options:	●	●	●	●	Prevents clickjacking attacks. Capable of preventing script execution of frames and iframes.
					deny
Content-Security-Policy:	●	●	●	●	Detects and mitigates well known types of attacks including cross-site scripting (XSS) and data injection attacks.
					default-src 'none'
WWW-Authenticate:	●	●	●	●	Although digest authentication is necessary, this is specified if there is no authentication information or authentication fails (such as when the password is incorrect). It is not specified when digest authentication is completed normally.
					Digest realm="<IP address>", nonce="xx", qop="auth"

Response Body

HTTP Method	Description
GET	The setting values are returned from the printer. For details of these return values, see "GET method" on page 16 .
PUT	The request body is returned. These are not the setting values acquired from the printer. For details of these return values, see "PUT method" on page 17 .

Request

Transmission Capacity

The maximum request message (Request Header and Request Body) capacity is 65533 bytes.

Request Header

Please specify as follows.

Header	Description
Content-Type:	application/json; charset=utf-8
Authorization:	Digest username="epson" realm="ByPassword" nonce="xxxxxxxxxxxxxxxxxxxxxxxxxxxx", qop="auth" ,,,,,,

Request Body

HTTP Method	Description
GET	Acquires the current setting values from the printer. For details of these set values, see "GET method" on page 16 .
PUT	Contains the values to configure the printer. For details of these set values, see "PUT method" on page 17 .

Parameter

GET method

GET method: Acquires the current setting values.

GET Parameter	Response (status)	Response (body)	Description
<ul style="list-style-type: none"> If acquiring all set values: No GET parameters If acquiring a specific setting value: Specifies a keyname by the GET parameter. [format] keyname=<JSON keyname you want to get> If acquiring multiple setting values: Separating with commas multiple keynames in GET parameter. [format] keyname=<keyname1>,<keyname2>... 	200 OK	{ "Setting": <JSON object for the setting item specified in the key> "message": "Success", }	Settings acquired successfully. Reply consists only of the object of the specified key if the keyname is specified.
	503 Service Unavailable	{ "Setting": {}, "message": "Cannot communicate with the printer : The other host interface may hold the communication", }	Could not get permission to communicate via port 9100. Communication was not possible because printer is being used.
	500 Internal Server Error	{ "Setting": {}, "message": "Failed to get the settings" }	Failed to acquire settings.
	500 Internal Server Error	{ "message": "Failed: No enough memory" }	Failed due to insufficient memory. Repair is necessary if the problem occurs even after restarting the printer.
	400 Bad Request	{ "Setting": {}, "message": "Specified key is not exist" }	Failed to acquire settings. Keyname % not present in JSON data of keyname=% specified values. A keyname not found in the setting value JSON data has been specified.
	400 Bad Request	{ "message": "Invalid Parameter" }	Parameter other than "keyname" is present.
	401 Authentication Required	As authentication is carried out by lighttpd, the response body is returned by lighttpd.	Authentication information is required.

If multiple keys are specified for keyname, "Success" is returned when the specified value for a single keyname is acquired even though several keyname cannot be acquired due to some error. Check each key value accordingly.

PUT method

PUT method: Updates setting values.

PUT Parameter	Response (status)	Response (body)	Description
<p>Specifies several set of keyname and value by the following way.</p> <pre>[format] { "Setting" : { <keyname1 you want to modify> : <value you want to set>, <keyname2 you want to modify> : <value you want to set>, ... , } }</pre> <ul style="list-style-type: none"> You need to specify keyname and value in the prescribed manner as described at "Reference" on page 25. Any characters in PUT parameter must be escaped as described at "Escape Sequence" on page 19. 	200 OK	{ "Setting": <JSON object for the setting item specified in the key> "message": "Success", }	Updating was successful. Refer to "Reset the Printer" on page 11 .
	413 Request Entity Too Large	{ "message": "Request Entity Too Large" }	Data is excessively large. For the maximum size of "Setting" parameters (after URL decoding), refer to "Transmission Capacity" on page 15 .
	500 Internal Server Error	{ "message": "Failed to update the settings" }	Failed to update settings.
	500 Internal Server Error	{ "message": "Failed: No enough memory" }	Failed due to insufficient memory. Repair is necessary if the problem occurs even after restarting the printer.
	503 Service Unavailable	{ "message": "Cannot communicate with the printer : The other host interface may hold the communication" }	Could not get permission to communicate via port 9100. Communication was not possible because printer is being used.
	401 Authentication Required	As authentication is carried out by lighttpd, the response body is returned by lighttpd.	Parameter other than "Setting" is present.
	400 Bad Request	{ "message": "Invalid Parameter" }	"Setting" not found.
	400 Bad Request	{ "message": "Invalid Parameter" }	Parameter other than "Setting" is present.
	400 Bad Request	{ "message": "Setting values should be JSON object" }	Setting values are not in the JSON format.

PUT Parameter	Response (status)	Response (body)	Description
	400 Bad Request	{ "message": "Special characters must be escaped" }	The JSON escape process is not valid.

When a method that cannot be used is specified

"405 Method Not Allowed" or "403 Forbidden" is returned.

Characters

Character Code

UTF-8

Escape Sequence

According to the JSON RFC (Request for Comments), the setting character string transmitted by PUT must use the following escape sequences.

This also applies to the JSON character string acquired using GET Response().

Escape notation	Original character	Description
\"	"	Double quotation
\\	\	Back slash
\b	-	Back space
\f		New page
\n		New line
\r		Line feed
\t		Tab

Escape is not used for uXXXX (hexadecimal character strings) in Japanese, etc.

Passwords

To ensure security, all passwords are hashed. They are displayed as follows:

- When registered: (Registered)
- When not registered: (Not registered)

“Registered” and “Not Registered” cannot be used as a password.

When registering/changing a password, please replace the (Registered) or (Not registered) string with the desired password.

Operation specifications

Printer Response Time

Response is within 10 seconds.

Example of Request and Response

Here is an example of acquiring the ServerDirectPrint and StatusNotification settings.

The following keys are acquired and updated.

- ePOS-Print: Turn Active ON. It is turned OFF in the factory default settings.
- Printer List: Set the Device IDs and other printer information.
- Server Direct Print: Specify the server and applications for Server Direct Print.
- Status Notification: Specify the server and applications for Status Notification.

GET Request

Request Header

```
GET /webconfig/api/v1/webconfig.cgi?keyname=ePOS-Print,PrinterList,ServerDirectPrint,StatusNotification HTTP/1.1
Host: <http://192.168.192.20/>
Authorization: Digest username="epson", realm="ByPassword", nonce="", uri="/webconfig/api/v1/webconfig.cgi",
response="f708199215ba938f85ae77c373c192c2", opaque=""
```

Request Body is none

GET Response

The setting values for ePOS-Print, PrinterList, ServerDirectPrint and StatusNotification are returned in the response body.

Response Header

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: PUT, GET, OPTIONS, HEADER
Access-Control-Allow-Headers: Content-Type, Content-Length, Authorization
Content-Type: application/json; charset=utf-8
X-Content-Type-Options: nosniff
X-XSS-protection: "1; mode=block"
X-Frame-Options: deny
Content-Security-Policy: default-src 'none'
Connection: close
Transfer-Encoding: chunked
Date: Wed, 23 Aug 2017 07:46:22 GMT
Server: lighttpd
```

Response Body

```
{
  "Setting": {
    "ePOS-Print": {
      "Active": "OFF"
    },
    "PrinterList": {
      "Printer1": {
        "DeviceID": "local_printer",
        "IPAddress": "127.0.0.1",
        "ModelName": "TM-H6000V"
      }
    },
    "ServerDirectPrint": {
      "Active": "OFF",
      "CutReserveTimeout": "2",
      "ID": "",
      "Interval1": "5",
      "Interval2": "5",
      "Interval3": "5",
      "Name": "ECCN905633",
      "Password": "(Not registered)",
      "Url1": "",
      "Url2": "",
      "Url3": "",
      "UseProxy": "OFF",
      "UseServerAuthentication": "OFF",
      "UseUrlEncode": "ON"
    },
    "StatusNotification": {
      "Active": "OFF",
      "ID": "",
      "Interval": "5",
      "Name": "ECCN905633",
      "Password": "(Not registered)",
      "Url": "",
      "UseProxy": "OFF",
      "UseServerAuthentication": "OFF",
      "UseUrlEncode": "ON"
    }
  },
  "message": "Success"
}
```

The diagram illustrates the JSON response body structure. Red boxes highlight the following sections:

- ePOS-Print:** A sub-object within "Setting" containing "Active": "OFF".
- PrinterList:** A sub-object within "Setting" containing a "Printer1" object with "DeviceID": "local_printer", "IPAddress": "127.0.0.1", and "ModelName": "TM-H6000V".
- ServerDirectPrint:** A sub-object within "Setting" containing various configuration parameters like "Active", "CutReserveTimeout", "ID", "Intervals", "Name", "Password", "Urls", "UseProxy", "UseServerAuthentication", and "UseUrlEncode".
- StatusNotification:** A sub-object within "Setting" containing parameters like "Active", "ID", "Interval", "Name", "Password", "Url", "UseProxy", "UseServerAuthentication", and "UseUrlEncode".

Red lines connect these highlighted sections to their respective labels on the right: ePOS-Print, PrinterList, ServerDirectPrint, and StatusNotification.

PUT request

The acquired data is edited as shown below, and then added to the response body. Keys that are not specified can be deleted.

ePOS-Print

- Active: OFF

Printer List

- Printer1
 - DeviceID: local_printer
This setting can be configured according to the application.
 - IPAddress: 127.0.0.1
Do not change this setting. Otherwise, printing will not be possible.
 - ModelName: TM-H6000V
Do not change this setting. Otherwise, printing will not be possible.

ServerDirectPrint

- Active: ON
- Name: Floor_Printer
- url: Server address/sample program path for Server Direct Print

StatusNotification

- Active: ON
- Name: Floor_Printer
- url: Server address/sample program path for Status Notification

Request Header

```
PUT /webconfig/api/v1/webconfig.cgi HTTP/1.1
<Host name or IP address>
Authorization: Digest username="epson", realm="ByPassword", nonce="", uri="/webconfig/api/v1/webconfig.cgi",
response="0a3e57cca43d8221d942d13aeb377658", opaque=""
Content-Type: application/json
```

Request Body

```
{
  "Setting": {
    "ePOS-Print": {
      "Active": "ON"
    }
  },
  "PrinterList": {
    "Printer1": {
      "DeviceID": "local_printer",
      "IPAddress": "127.0.0.1",
      "ModelName": "TM-H6000V"
    }
  },
  "ServerDirectPrint": {
    "Active": "ON",
    "CutReserveTimeout": "2",
    "ID": "",
    "Interval1": "5",
    "Interval2": "5",
    "Interval3": "5",
    "Name": "Floor_Printer",
    "Url1": "http://192.168.192.10/Test_print.php",
    "Url2": "",
    "Url3": "",
    "UseProxy": "OFF",
    "UseServerAuthentication": "OFF",
    "UseUrlEncode": "ON"
  },
  "StatusNotification": {
    "Active": "ON",
    "ID": "",
    "Interval": "5",
    "Name": "Floor_Printer",
    "Url": "http://192.168.192.10/Test_status.php",
    "UseProxy": "OFF",
    "UseServerAuthentication": "OFF",
    "UseUrlEncode": "ON"
  }
}
```

Put Response

Response Header

```

HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
Access-Control-Allow-Methods: PUT, GET, OPTIONS, HEADER
Access-Control-Allow-Headers: Content-Type, Content-Length, Authorization
Content-Type: application/json; charset=utf-8
X-Content-Type-Options: nosniff
X-XSS-protection: "1; mode=block"
X-Frame-Options: deny
Content-Security-Policy: default-src 'none'
Connection: close
Transfer-Encoding: chunked
Date: Wed, 23 Aug 2017 07:47:15 GMT
Server: lighttpd

```

Response Body

```

{
  "Setting": {
    "ePOS-Print": {
      "Active": "ON"
    },
    "Setting": {
      "PrinterList": {
        "Printer1": {
          "DeviceID": "local_printer",
          "IPAddress": "127.0.0.1",
          "ModelName": "TM-H6000V"
        }
      }
    },
    "ServerDirectPrint": {
      "Active": "ON",
      "CutReserveTimeout": "2",
      "ID": "",
      "Interval1": "5",
      "Interval2": "5",
      "Interval3": "5",
      "Name": "Floor_Printer",
      "Password": "(Not registered)",
      "Url1": "http://192.168.192.10/Test_print.php",
      "Url2": "",
      "Url3": "",
      "UseProxy": "OFF",
      "UseServerAuthentication": "OFF",
      "UseUrlEncode": "ON"
    },
    "StatusNotification": {
      "Active": "ON",
      "ID": "",
      "Interval": "5",
      "Name": "Floor_Printer",
      "Password": "(Not registered)",
      "Url": "http://192.168.192.10/Test_status.php",
      "UseProxy": "OFF",
      "UseServerAuthentication": "OFF",
      "UseUrlEncode": "ON"
    }
  },
  "message": "Success : Please confirm by get again and You need to reset the printer to apply settings."
}

```


Reference

This chapter explains items that can be acquired from the printer, as well as items and values that can be set.

When using GET Method, this is included in the response body.

With the PUT method, place them in the request body.

When creating a request body in a PUT Request(), you can add only the items to be updated, and use only the items that are included in the GET response body.

Key 1	Key 2	Key 3	Key 4	Description
				Value
ePOS-Print	Active			ePOS-Print setting
				Sets to whether to enable or disable ePOS-Print. When using the following functions, it is necessary to set the value of this key to "ON". <ul style="list-style-type: none"> • Server Direct Print • ePOS-Device • Status Notification
				"OFF", "ON"
ePOS-Device	Active			ePOS-Device setting
				Sets to whether to enable or disable ePOS-Device. "OFF", "ON"
Printer List	Printer1			Printer list that is set with the WebConfig API.
				Setting for the TM-H6000V.
				DeviceID
				IDs that identify printer devices. Device ID specified for "local_printer" or the printer. String with a length of 1 to 30 characters. Characters that can be used are single-byte alphanumeric characters (0 to 9, a to z, A to Z), "_", ":", and "-". There must not be any duplicate string for another DeviceID.
				IPAddress
				Specify the printer IP Address. "127.0.0.1"
				ModelName
Specify the printer model name. "TM-H6000V"				

Key 1	Key 2	Key 3	Key 4	Description
				Value
ProxyInfo				<p>Proxy settings.</p> <p>To use a proxy server, set the following keys to "ON".</p> <ul style="list-style-type: none"> • UseProxy of ServerDirectPrint • UseProxy of StatusNotification
	Url	Specify the proxy server URL.		
		<p>The communication destination server URL string.</p> <p>Empty string or string not exceeding 2043 characters that starts with "http://" or "https://".</p> <p>Single-byte alphanumeric characters (0 to 9, a to z, A to Z), "_", "-", ".", "/", ":", ";", "*", "(", ")", "[", "]", ",", "?", ":", "@", "&", "=", "\$", "%", "#", and "+".</p>		
	Port	Specify the proxy server port number.		
		"0" to "65535"		
	ID	Specify the proxy server authentication ID.		
		<p>Empty string or string with 1 to 30 characters.</p> <p>Characters that can be used are single-byte alphanumeric characters (0 to 9, a to z, A to Z), "_", ".", and "-".</p>		
	Password	Specify the proxy server authentication password.		
<p>Empty string or string with 1 to 30 characters.</p> <p>Characters that can be used are single-byte alphanumeric characters (0 to 9, a to z, A to Z), "_", ".", and "-".</p> <p>The following cannot be specified.</p> <p>"Registered", "Not Registered"</p>				
ServerDirectPrint	Server direct print settings.			
	Active	Specify whether server direct printing is enabled/disabled.		
		"OFF", "ON"		
	Name	Specify the ID for identifying the communication source (identification information transmitted to the server).		
		<p>Empty string or string with 1 to 30 characters.</p> <p>Characters that can be used are single-byte alphanumeric characters (0 to 9, a to z, A to Z), "_", ".", and "-".</p> <p>The printer serial number is used for "Name" when the initial value or an empty string is specified. It is left empty if the printer serial number is not set.</p>		
ID	Specify the Digest authentication ID.			
	<p>Empty string or string with 1 to 30 characters.</p> <p>Characters that can be used are single-byte alphanumeric characters (0 to 9, a to z, A to Z), "_", ".", and "-".</p>			

Key 1	Key 2	Key 3	Key 4	Description	
				Value	
	Password			Specify the Digest authentication Password.	
				Empty string or string with 1 to 30 characters. Characters that can be used are single-byte alphanumeric characters (0 to 9, a to z, A to Z), "_", "." and "-". The following cannot be specified. "Registered", "Not Registered"	
	Url1/ Url2/ Url3				Specifies whether to enable or disable the Server 1/ Server 2 / Server 3.
					The communication destination server URL string. Empty string or string not exceeding 2043 characters that starts with "http://" or "https://". Single-byte alphanumeric characters (0 to 9, a to z, A to Z), "_", "-", ".", "/", "!", "~", "*", "(", ")", "[", "]", ";", "?", ":", "@", "&", "=", "\$", "%", "# and "+".
	Interval1/ Interval2/ Interval3				Specifies whether to enable or disable the Server 1/ Server 2 / Server 3.
					"0" to "86400"
	UseServerAuthentication				Specify whether server authentication (HTTPS) is used.
					"OFF", "ON"
	UseProxy				Specify whether a proxy server is used.
					"OFF", "ON" When this setting is "ON", is it necessary to specify "ProxyInfo".
	UseUrlEncode				Specify whether a URL encode is used.
					"OFF", "ON"
	CutReserveTimeout				Not used
					-

