SmaPri Driver Developer Guide

HTTP Reference

SATO CORPORATION

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Contents

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Target Version

This document is intended for the following software and version.

Please note that some functions may not exist or may have been changed depending on the version.

SmaPri Driver (Android)	Version 1.21.0
SmaPri Driver (Windows)	Version 1.3.3.0

Chapter 5

HTTP Reference

(Android/Windows)

5-1	**List of Functions / How to use**
	The HTTP POST/GET method is used to utilize various functions.

- Function List (Action Path List)

W: Windows, A: Android

- Function (Action Path)	Overview	W	A
Sending/Receiving Data			
Format Printing (/Format/Print)	Specifies the layout "Record number" included in the format file (*.spfmtz) and input item data, and prints the format.	○	○
Send SBPL Command (/Printer/SendCommand)	Sends the SBPL Command to the printer.	○	○
Send Data (/Printer/SendRawData)	Sends and receives data to and from the printer.	○	○
Get Status			
Check Status (/Printer/Status)	Gets the printer status.	○	○
Check Spooler Status (/Spooler/Status)	Gets the spooler status.	○	○
Format Information			
Register/Acquire Format (/Format)	Registers the specified format file (*.spfmtz file) in SmaPri Driver, and gets all of the incorporated format information.	○	○
Get Format Input Item (/Format/InputItem)	Specifies the layout "Record number" included in the format file (*.spfmtz), and gets the input item information.	○	○
Font Information			
Get Font Information (/Font)	Gets information from the font file (*.ttf) cached in the device.	○	○
Font Clear (/Font/Clear)	Deletes the font file (*.ttf) cached in the device.	○	○
Setting/Getting of Output Destination Port			
Get Output Destination Port (/Printer/Port)	Gets the set output destination port (output destination printer).	○	○
Set Output Destination Port (/Printer/SetPort)	Sets the output destination port (output destination printer).	○	○
Spool Clear			
Spool Clear (/Spooler/Clear)	Deletes all of the jobs from the spool.	○	○
Bluetooth Device Operations			
Bluetooth Device Search (/Bluetooth/Discover)	Searches for nearby Bluetooth devices.	○	○
Bluetooth Device Pairing (/Bluetooth/CreateBond)	Pairs with the specified Bluetooth device.	○	○
Remove Bluetooth Device Pairing (/Bluetooth/RemoveBond)	Removes pairing with the specified Bluetooth device.	○	-
Display administration screen, and start/stop server (Intent)			

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Status screen (smapri:///View/Status)	Display administration screen (status).	-	○
Printer settings screen (smapri:///View/PrinterSettings)	Display administration screen (printer settings).	-	○
Server settings screen (smapri:///View/ServerSettings)	Display administration screen (server settings).	-	○
Start server (smapri:///Service/Start)	Start server.	-	○
Stop server (smapri:///Service/Stop)	Stop server.	-	○

- How to use

SmaPri Driver is operated by requests that consist of a combination of action path and parameters. For details on parameters that can be specified, see the pages on common parameters and action paths.

[Request Example]

> http://localhost:8080/Format/Print?__format_archive_url=http://example.com/smapri-format.spfmtz&__format_id_number[0]=1&__format[0].operator=SATO&__format_id_number[1]=2&__format[1].productName=Tea&Sugar&__format[1].price=120

[Breakdown of Request Example]

Server Address	http://localhost:8080/
Action Path	/Format/Print
Parameter (Parameter name = Parameter value)	__format_archive_url=http://example.com/smapri-format.spfmtz
	__format_id_number[0]=1
	__format[0].operator=SATO
	__format_id_number[1]=2
	__format[1].product name=Tea&Sugar
	__format[1].Price=120

• Request using the GET method

A request is made to SmaPri Driver by the HTTP query string. The parameter name and parameter value need to be URL encoded in UTF-8 in the query string.

*Line breaks are used in the following example to make the text easier to read, but line break codes should not be used in the actual file.

[HTTP Request Example (Before URL Encoding)]

http://localhost:8080/Format/Print

?**__format_archive_url**=*http://example.com/smapri-format.spfmtz*

&**__format_id_number[0]**=*1*

&**__format[0].operator**=*Sato*

&**__format_id_number[1]**=*2*

&**__format[1].productName**=*Tea&Sugar*

&**__format[1].price**=*120*

> **Blue Bold Type**: Parameter Name
> *Red Italic Type*: Parameter Value

[HTTP Request Example (After URL Encoding)]

http://localhost:8080/Format/Print

?**__format_archive_url**=*http%3A%2F%2Fexample.com%2Fsmapri-format.spfmtz*

&**__format_id_number[0]**=*1*

&**__format[0].operator**=*Sato*

&**__format_id_number[1]**=*2*

&**__format[1].productName**=*Tea%26Suger*

&**__format[1].price**=*120*

• Request Using the POST Method

A request is made to SmaPri Driver by sending the HTTP form.

Data sent using the POST method needs to be specified as UTF-8 data.

```
[Example HTML POST Request Description]
<form method="post" accept-charset="UTF-8" action="http://localhost:8080/Format/Print">
    <input name="__format_archive_url" value="http://example.com/smapri-format.spfmtz">
    <input name="__format_id_number[0]" value="1">
    <input name="__format[0].operator" value="SATO">
    <input name="__format_id_number[1] " value="2">
    <input name="__format[1].productName" value="Tea&Sugar">
    <input name="__format[1].price" value="120">
    <input type="submit" value="Send Request">
</form>
```

Blue Bold Type: Parameter Name

Red Italic Type: Parameter Value

- Limitations/Precautions

• When using the SmaPri Driver from a web application, make the web application SSL-enabled. For more information, refer to "Support SSL on web app".

• The order of response data in each action path may be changed and items added when the SmaPri Driver version is updated. Therefore, when processing response data, acquire the parameter value based on the parameter name.

• There are no limitations on the size of data handled by SmaPri Driver for 1 layout or 1 request, or the quantity of data specified in the index when multiple layouts are specified for format printing. The usable size differs depending on the specifications of the used device, usage conditions of other apps and OS specifications. Please note that when font embedding is specified in the layout or large graphics are specified, the request size in particular may become large when a large amount of data is issued at one time due to multiple layouts being specified. Implement sufficient checks in advance, and adjust the size and quantity for each environment.

• Operation cannot be guaranteed in cases where SmaPri Driver is forcibly terminated by shutting down the device, uninstalling, overwrite installing or forced stoppage by the setting app, etc. during issue processing or generation of a consecutive number, because corrupt data is sent to the printer and the consecutive number may be disrupted mid-way. When

forcibly terminating the app, either stop the server function or check there is no data in the spooler before terminating.

- In Windows, it has been confirmed that there is a limit to the URL length that can be sent due to the specifications of the OS (about 2083 characters). In cases where the request length is long, such as when printing in multiple formats, set an upper limit on the data to be sent at one time, or use the POST method.

- SmaPri Driver can't accept multiple requests at the same time. If another request is accepted while processing the request, SmaPri Driver will return "503 Service Unavailable". Consider using "Format Printing (Multiple Layouts)" for batch printing of multiple items. If you need to send requests in succession, be sure to check the response to the sent request before sending the next request.

- SmaPri Driver can't accept requests sent from addresses other than "localhost" (127.0.0.1 or ::1). Please install SmaPri Driver on each client device that uses the web app.

5-2	**Common Parameters**
	-List -XML -HTTP Redirect -HTML -XSL

There are request parameters common across all functions that specify the return format of execution results. Processing results are returned in XML format when no parameters are specified.

- Common Parameters List

Return Format	Data Specification Method	Parameter	Processing Results
XML	—	Not specified	OK/NG common
HTTP Redirect	URL	__success_redirect_url	OK
		__failure_redirect_url	NG
HTML	HTML	__success_html_text	OK
		__failure_html_text	NG
XML+XSL	XSL	__success_xsl_text	OK
		__failure _xsl_text	NG

When multiple common parameters are specified, they are prioritized in the following.

    [1] HTTP Redirect   [2] HTML   [3] XML+XSL

- XML Format

If the return format is not specified, the execution results are returned in XML format as a response. For details on the response parameters, see the description for each function. The XML format response is explained in XPath format.

- HTTP Redirect Format

Specify the redirect destination URL. As a response, 303 is returned as a HTTP response code (302 for HTTP/1.0), and a redirect destination URL with response parameter added is returned to the Location header. When a web browser is used, the browser automatically transfers to the specified website. The response parameter name is the element name defined in XML format as a character string delimited by ". (dot)", excluding the "response" root element. Repeated sections have an index such as [0] or [1] added after the item name, and the symbol "@" that denotes the XML format attributes is omitted.

Example HTTP Redirect Request

[Request Before URL Encoding]

http://localhost:8080/Format

   ?__format_archive_url=file:///sdcard/SATO/sample.spfmtz

   &__success_redirect_url=http://example.com/success.html

[Request After URL Encoding]

http://localhost:8080/Format

   ?__format_archive_url=file%3A%2F%2F%2Fsdcard%2FSATO%2Fsample.spfmtz

   &__success_redirect_url=http%3A%2F%2Fexample.com%2Fsuccess.html

Response Example for HTTP Redirect

HTTP/1.1 303 See Other

··· (header omitted) ···

Location: [Specified URL]?productVersion=1.19.0

&result=OK&function=/Format&message=[Process Results Message]

&printer=PW208

&SBPLVersion=06.10.0

&format[0].idNumber=1&format[0].name= Layout 1

&format[1].idNumber=2&format[1].name= Layout 2

&format[2].idNumber=3&format[2].name= Layout 3

··· (header omitted) ···

Web browser links to the Location header URL[(*)].

* Character string that has the processing results parameter added to the specified URL when requested.

- HTML Format

Specifies HTML for displaying the execution results.

HTML with the execution results data embedded is returned as a response. The "<%= Response Parameter Name %>" part in the specified HTML is replaced with the appropriate data in the same way as for the JSP format.

The response parameter name is the element name defined in XML format as a character string delimited by ". (dot)", excluding the "response" root element. Repeated sections have an index such as [0] or [1] added after the item name, and the symbol "@" that denotes the XML format attributes is omitted.

Example HTML Request

*Line breaks are used in the following example to make the text easier to read, but in reality line breaks should not be used.

```
http://localhost:8080/Format
    ?__format_archive_url=file:///sdcard/SATO/sample.spfmtz
    &__success_html_text=[Specified HTML]
```

The HTML character string is directly specified in the parameter.

Example HTML Specification

```
<html>
  <head>
    <title>result</title>
  </head>
  <body>
    <p><%= response.result %></p>
    <p><%= response.function %></p>
    <p><%= response.message %></p>
    <p><%= response.printer %></p>
    <p><%= response.SBPLVersion %></p>
    <p><%= response.format[0].idNumber %></p>
    <p><%= response.format[0].name %></p>
    <p><%= response.format[1].idNumber %></p>
    <p><%= response.format[1].name %></p>
    <p><%= response.format[2].idNumber %></p>
    <p><%= response.format[2].name %></p>
  </body>
</html>
```

Response
Parameter name
Replacement

Response

```
<p>OK</p>
<p>/Format</p>
<p>[Process Results Message]</p>
<p>PW208</p>
<p>06.10.0</p>
<p>1</p>
<p>Layout 1</p>
<p>2</p>
<p>Layout 2</p>
<p>3</p>
<p>Layout 3</p>
```

- XSL Format

Specifies XSL for displaying the execution results.

The specified XSL data is converted to XML format and returned as response data. It is used to dynamically generate HTML data in accordance with the response data and display the results in a web browser, etc.

5-3	**[Send Data] Format Printing** Specifies Record No. and input item data, and prints the format.	**Supported OS**	Android Windows

- Action Path

/Format/Print

- Basic Parameter

Parameter	Type	Setting Value
__format_archive_url	Optional	Specify "format file (*.spfmtz) URL". - Can use Web (http://, https://), FTP (ftp://), a local file (file://). - If the same URL as last time is specified, the behavior follows __format_archive_update. - Either only "__format_archive_url" or "__format_archive_attach".
__format_archive_update	Optional	Update check of the format file is performed when the same URL in __format_archive_url as the previous time is specified. When "Update" is performed, the file is updated when either the file size or update date differs. noUpdate : No update (default value) update : Updated (with error notification) updateWithoutError : Updated (no error notification)
__format_archive_attach	Optional	Attach the format file (*.spfmtz) to this request. To specify this parameter, use the POST method and send this request in multipart/form-data format. Set the file name and file data in __format_archive_attach. - Either only "__format_archive_url" or "__format_archive_attach".
__format_id_number[1]	Required	"Record No." of used layout
Item Name[1][2]	Optional	Specify character strings for printing in input items in which "Key input (data)" is set. For "Fixed Graphic" objects (changed when issued), specify the graphic file URL or base 64 encoded character string of graphic data. PNG, JPEG, BMP and GIF image formats are supported. When this specification is omitted, the default value entered in SmaPri Designer is used.
Item Name.visible[1]	Optional	"Do not print" can be specified for each print item. false :Not printed (Can only be specified for (*.spfmtz) format files created using SmaPri Designer Ver.1.17.0.0 or later)
(Print quantity)[1]	Optional	Specifies the quantity issued. The name can be changed as desired for each project in SmaPri Designer, and the default name is "(Print quantity)". When omitted specify, it operates as "(Print quantity)=1".

[1] Adding an index [n] to the "__format_id_number" parameter enables multiple layouts such as header, details and footer to be printed when printing receipts, etc. For details, see "Format Printing (Multiple Layouts)".

[2] Problems may occur if the size of the data specified by the request is too large. See "Limitations/Precautions".

- Extended Parameter

Parameter	Type	Setting Value
__setting_print_operation*	Optional	Printer Operation Settings aaaa,bb,cc
		aaaa (Cut operation) 　0-9999　:Specified quantity is cut 　0E　　　: Ejection cut 　S　　　 : Follow format file settings 　**Omitted** : Follow printer settings *Specified quantity cut and ejection cut can be used simultaneously in combination (Example: 10E)
		bb (Print Density) 　1-10　　 : Density level (some printer models are "1-5".) 　S　　　 : Follow format file settings 　**Omitted** : Follow printer settings
		cc (Print Speed) 　Value　　: Speed level 　S　　　 : Follow format file settings 　**Omitted** : Follow printer settings
__setting_print_offset	Optional	Correction value of print position ±aaa, ±bbb
		±aaa (Vertical direction) 　Numerical value : Correction value (Unit: dot) 　**Omitted** : Follow printer settings
		±bbb (Horizontal direction) 　Numerical value : Correction value (Unit: dot) 　**Omittied** : Follow printer settings
__setting_job_name	Optional	Job name of print data 　Character string : Used as job name 　**Omitted**　　　 : Layout name used

*If omitted parameter, SmaPri Driver follows format file settings.

- Explanation

- SmaPri Driver caches the last registered format file (*spfmtz). It is saved if the device power is turned off, but deleted if SmaPri Driver is uninstalled.
    1) Case when file is updated to a new format file
        - When "__format_archive_attach" is specified.
        - When a different URL to the one registered previous in "__format_archive_attach" is specified.
        - When "__format_archive_url" is specified, and "update" or "updateWithoutError" is specified in the "__format_archive_update" parameter.
    2) Case when an existing format file (cache) is used
        - When neither "__format_archive_attach" or "__format_archive_url" is specified.
        - When the same URL as the one registered previous in "__format_archive_attach" is specified.
        - When "noUpdate" is specified for both "__format_archive_url" and "__format_archive_update" parameters.

- "__format_archive_attach" is used when the application sends the format file (*.spfmtz) directly to SmaPri Driver (when the path cannot be specified).

- URLs that can be specified as "__format_archive_url" and "Fixed Graphic" are the Web (http://, https://),

FTP (ftp://) and a local file (file://). The Data URL Scheme (data:⋯) can also be used for "Fixed Graphic". From SmaPri Driver (Android) Ver.1.19.0, it is necessary to obtain access permission to the reference folder when using the setting file on a terminal with Android 11 or later. For more information, refer to "Local file access on Android 11 and later".

· It takes time to register format files that use the TrueType font embedding function because the file size is large. There are cases where HTTP communication timeout occurs, or when HTTP and FTP cannot be used.

· "__format_id_number" is the Record No. set in the layout using SmaPri Designer.

· There are no restrictions of the size of image that can be specified for "Fixed Graphic". However, the larger the size, the lower the throughput when creating print data and transmitting the data to the printer.

- Request Example

The Record No. is the first format to be used for format printing from the formats registered in SmaPri Driver.

＊Encode the parameter name and parameter value as a URL in UTF-8 format.

*Line breaks are used in the following example to make the text easier to read, but line break codes should not be used in the actual file.

[Request Before URL Encoding]

http://localhost:8080**/Format/Print**

  ?__format_archive_url=http://example.com/smapri.spfmtz

  &__format_archive_update=update

  &__format_id_number=1

  &String1=Orange

  &Barcode1=123456789012

  &Price1=100

  &Frame1.visible=false

  &QTY=1

[Request After URL Encoding]

http://localhost:8080**/Format/Print**

  ?__format_archive_url=http%3A%2F%2Fexample.com%2Fsmapri.spfmtz

  &__format_archive_update=update

  &__format_id_number=1

  &String1=Orange

  &Barcode1=123456789012

  &Price1=100

  &Frame1.visible=false

  &QTY=1

[File path specification example]

HTTP Server	→	http://example.com/smapri.spfmtz
FTP Server	→	ftp://example.com/smapri.spfmtz
Android Local file	→	file:///storage/emulated/0/SATO/smapri.spfmtz
Windows Local file	→	file:///D:/SATO/smapri.spfmtz

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- Response (XML)

The response order may be changed and items added when the version is updated.

Path	Content
/response	Root Element of Processing Results
/response/@version	XML Data Version (1.0)
/response/@productName	SATO SmaPri Driver
/response/@productVersion	SmaPri Driver Version
/response/@creationTime	XML Data Creation Time
/response/result	Processing Results (OK/NG)
/response/function	/Format/Print
/response/message	Processing Results Message "SUCCESSFUL" when processing is successful If it fails, a character string describing the cause is displayed (E.g.: Parameter "string1" value is invalid.)
/response/printer	Printer device name specified in the format
/response/printer/@resolution	Printer resolution (dpi)
/response/SBPLVersion	SBPL specified in the format
/response/statusCode	"00" fixed.
/response/statusCode/@type	Printer Status Type (standard/lapin)

- Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<response version="1.0" productName="SATO SmaPri Driver"
  productVersion="1.11.0" creationTime="2016-08-26T17:26:04+09:00">
  <result>OK</result>
  <function>/Format/Print</function>
  <message>[Processing Results Message]</message>
  <printer resolution="203">PW208</printer>
  <SBPLVersion>06.10.0</SBPLVersion>
  <statusCode type=" standard">00</statusCode>
</response>
```

5-4	**[Send Data] Format Printing (Multiple Layouts)** Specifies multiple "Record No." and input data, and prints the format.	**Supported OS**	Android Windows

Multiple layouts can be specified and printed by adding an index value [n] to the "Layout Record No." and "Item name" parameters specified when format printing. When printing a variable length receipt using a combination of multiple layouts such as header, details and footer, use this when you want to print out multiple layouts together using one printing instruction.

The index value [n] is specified as a continuous value starting from 0. There is no limit to the maximum value of the index, but please use it within the range of 99 (up to 100 items) as a guide. See the "Request Example" for details.

Basic Parameter	Type	Setting Value
__format_id_number[n]	Required	Record No. of used layout
__format[n].Item name	Optional	Specify character strings for printing in input items in which "When issued (data)" is set. For "Fixed Graphic" objects (changed when issued), specify the graphic file URL or base 64 encoded character string of graphic data. PNG, JPEG, BMP and GIF image formats are supported. When this specification is omitted, the default value entered in SmaPri Designer is used.
__format[n].(Print quantity)	Optional	Specifies the quantity issued. User can specify the name for each project in SmaPri Designer, and the default name is (Print quantity). When omitted, it operates as (Print quantity)=1.
Extended Parameter	**Type**	**Setting Value**
__format[n].Item name.visible	Optional	"Do not print" can be specified for each item. false :Not printed (Can only be specified for (*.spfmtz) format files created using SmaPri Designer Ver.1.17.0.0 or later)

- Explanation

In case of SmaPri Driver (Windows), the Format printing (Multiple Layouts) is not availabe when "Selected printer" is printer driver.

- Request Example

Formats from those registered in SmaPri Driver are combined in the following order and printed.

  Index [0]:Record No.1 → Index [1]:Record No.2 → Index [2]:Record No.2 → Index [3]:Record No.3

In the following example, it is assumed that format files in which "Name" and "Receipt No." items are set in Record No.1 layout, "Product" and "Price" items are set in Record No.2 layout, and "Total" item is set in Record No.3 layout are registered in advance.

*Encode the parameter name and parameter value as a URL in UTF-8 format when sending the request.

*Line breaks are used in the following example to make the text easier to read, but line break codes should not be used in the actual file.

*If you want to output 2 sets of exactly the same report, either execute the same request twice or increase the number of indexes so that two sets are specified. When "(QTY)=2" is specified for each of the layout, printing is performed in the order of "header + header + detail 1 + detail 1 + detail 2 + detail 2…".

```
[Request Before URL Encoding]
http://localhost:8080/Format/Print
?__format_archive_url=http://example.com/smapri.spfmtz
&__format_archive_update=update
&__format_id_number[0]=1
&__format[0].operator=Sato
&__format[0].Receipt No=123
&__format_id_number[1]=2
&__format[1].productName=Tea
&__format[1].price=120
&__format_id_number[2]=2
&__format[2].productName=Rice ball
&__format[2].price=100
&__format_id_number[3]=3
&__format[3].Total=220
```

```
[Request After URL Encoding]
http://localhost:8080/Format/Print
?__format_archive_url=http%3A%2F%2Fexample.com%2Fsmapri.spfmtz
&__format_archive_update=update
&__format_id_number%5B0%5D=1
&__format%5B0%5D.operator=Sato
&__format%5B0%5D.Receipt%20No=123
&__format_id_number%5B1%5D=2
&__format%5B1%5D.productName=Tea
&__format%5B1%5D.price=120
&__format_id_number%5B2%5D=2
&__format%5B2%5D.productName=Rice%20ball
&__format%5B2%5D.price=100
&__format_id_number%5B3%5D=3
&__format%5B3%5D.Total=220
```

- Format of Request Described Above and Print Image -

No.1 format:

No.2 format:

No.3 format:

- Explanation

- Specify the index [n] as a continuous value starting from 0 when making the format printing request.
- Specify the same layout as the sensor type to prevent unexpected printing results.
- You cannot combine a layout for the "Receipt paper (Variable Length)" sensor type with the layout for any other sensor type for printing.
- When printing a variable length receipt, set the layout sensor type to "Receipt paper (Variable Length)".
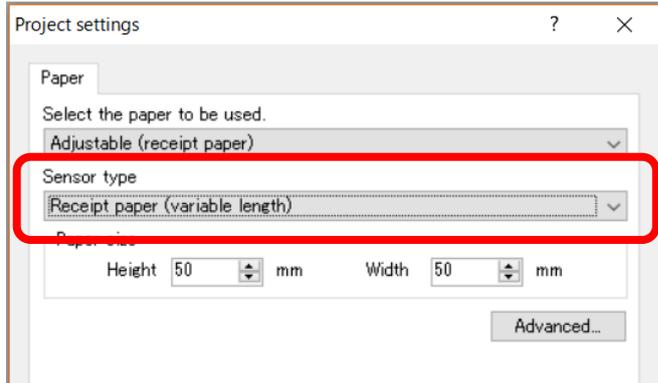
- When specifying the print density and speed for printing a variable length receipt using a combination of layouts with the "Receipt paper (Variable length)" sensor type, use the "__setting_print_operation" parameter.
- When using a combination of layouts with the "Receipt paper (Variable length)" sensor type the print quantity should be specified for the (printed last) layout that has the largest index [n]. If you want to specify the number of sheets to be printed when printing a combination of layouts whose sensor type is other than " Receipt paper (Variable length)", please specify it for each index.
- If you want to cut only the last label when printing using a combination of layouts with sensor types other than "Receipt paper (Variable length)", specify "E" (Ejection cut) for the cut operation in the "__setting_print_operation" parameter.
- When the specified quantity cut is selected for printing a combination of layouts with sensor types other than "Receipt paper (Variable length)", cuts will be done between the formats.
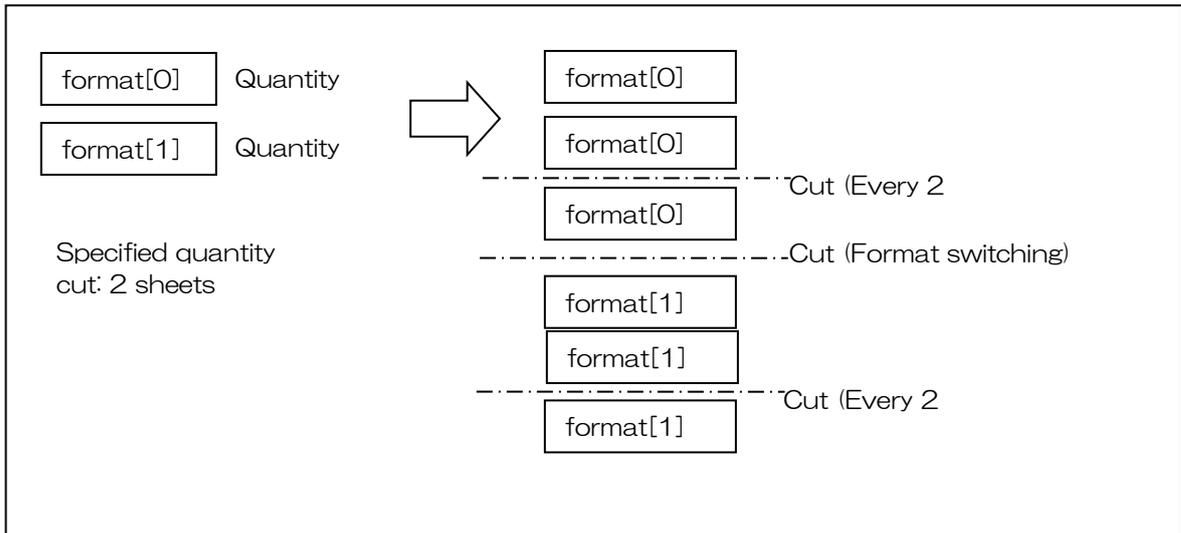
5-5	[Send Data] SBPL Send	Supported OS	Android
	Sends the SBPL command (Sato pronter control command).		Windows

For SBPL commands, refer to the programming reference of each printer.

- **Action Path**

  /Printer/SendCommand

- **Basic Parameter**

Parameter	Type	Setting Value
__command	Required*	SBPL Command
__command_url	Required*	SBPL Command File URL
__encoding	Optional	Command Encoding Type text (default value) / base64

＊Either "__command" or "__command_url" is required

- **Extended Parameter**

Parameter	Type	Setting Value
__escape_character	Optional	Specify the character to be replaced with "ESC (0x1B)" in the character string specified in the "__command" parameter. However, if "__encoding" is other than "text", it is ignored. (default value:^(0x5E))
__setting_job_name	Optional	Job name of print data Character string : Used as job name When omitted : Layout name
__tc_character	Optional	Specify automatic addition of [STX] and [ETX] (true/false) (default value: true)

- **Explanation**

- For the "__command", specify from "ESC" A to "ESC" Z once per each set. "STX", "ETX" and CRC are automatically added.

- When "__encoding" is text, the character string that corresponds to "__escape_character" within the value specified for "__command" is replaced with "ESC(0x1B)".
  If the contents of "__command" include double-byte characters, graphics, binary data, etc., specify the SBPL command in base64.

  ex.) http://localhost:8080/Printer/SendCommand?__encoding=base64&__command=G0EbVjUwG0g1M...

- The "ESC(0x1B)" replacement process of the "__escape_character" is not applied to the

SBPL command file specified in the "__command_url".

- • A character string of more than 2 characters can be specified for "__escape_character".
- • A local file (file://), Web (http://, https://) and FTP (ftp://) can be used as the URL specified in "__command_url". From SmaPri Driver (Android) Ver.1.19.0, it is necessary to obtain access permission to the reference folder when using the setting file on a terminal with Android 11 or later. For more information, refer to "Local file access on Android 11 and later".

- Request Example

Instruct a reprint to the printer.

∗Encode the parameter name and parameter value as a URL in UTF-8 format when sending the request.

[Request Before URL Encoding]
http://localhost:8080**/Printer/SendCommand**?__command=^A^C^Z

[Request After URL Encoding]
http://localhost:8080**/Printer/SendCommand**?__command=%5EA%5EC%5EZ

- Response (XML)

The response order may be changed and items added when the version is updated.

Path	Content
/response	Root Element of Processing Results
/response/@version	XML Data Version (1.0)
/response/@productName	SATO SmaPri Driver
/response/@productVersion	SmaPri Driver Version
/response/@creationTime	XML Data Creation Time
/response/result	Processing Results (OK/NG)
/response/function	/Printer/SendCommand
/response/message	Processing Results Message SUCCESSFUL when processing is successful If it fails, a character string describing the cause is displayed (E.g.: A value in parameter character string 1 is invalid.)
/response/statusCode	"00" fixed.

- Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<response version="1.0" productName="SATO SmaPri Driver"
   productVersion="1.0" creationTime="2011-09-05T14:12:28+09:00">
   <result>OK</result>
   <function>/Printer/SendCommand</function>
   <message>[Processing Results Message]</message>
   <statusCode>00</statusCode >
</response>
```

5-6	[Send Data] Send Data	Supported	Android
	Sends and receives data to and from the printer.	OS	Windows

- Action Path

/Printer/SendRawData

- Basic Parameter

Parameter	Type	Setting Value
__send_data	Required	Send Data
__send_data_url	Required	Send Data File URL
__encoding	Optional	Command Encoding Type base64 (default value) / hex
__receive_byte_count	Optional	Received No. of bytes
__receive_termination_data	Optional	Received Termination Data

＊Either "__send_data" or "__send_data_url" is required

Extended Parameter

None

- Explanation

- In this request, data is sent and received directly without using the spooler.
- If the output destination is a printer driver, an error will occur (for Windows).
- When "__encoding" is hex, specify a hexadecimal character string for "__send_data" and "__receive_termination_data". (E.g.: "05" for ENQ, "41" for A)
- A local file (file://), Web (http://, https://) and FTP (ftp://) can be used as the URL specified in "__send_data_url". From SmaPri Driver (Android) Ver.1.19.0, it is necessary to obtain access permission to the reference folder when using the setting file on a terminal with Android 11 or later. For more information, refer to "Local file access on Android 11 and later".
- "__encoding" is not applied to the SBPL command file specified in the "__send_data_url".
- Multiple bytes of data can be specified for "__receive_termination_data".
- Data Receive Conditions

    (1)__receive_byte_count, (2)__receive_termination_data

(1)	(2)	
None	None	Does not receive data
With data	None	Receive specified byte quantity of data

None	With data	Receive until the received data matches the specified data
With data	With data	Receive until either of the conditions (1) or (2) is fulfilled

- Request Example

Send ENQ to the printer and receive the status (11 bytes).

＊Encode the parameter's name and value as a URL in UTF-8 format when sending the request.

> http://localhost:8080/Printer/SendRawData?__send_data=05&__encoding=hex&__receive_byte_count=11

- Response (XML)

The response order may be changed and items added when the version is updated.

Path	Content
/response	Root Element of Processing Results
/response/@version	XML Data Version (1.0)
/response/@productName	SATO SmaPri Driver
/response/@productVersion	SmaPri Driver Version
/response/@creationTime	XML Data Creation Time
/response/result	Processing Results (OK/NG)
/response/function	/Printer/SendRawData
/response/message	Processing Results Message SUCCESSFUL when processing is successful If it fails, a character string describing the cause is displayed (E.g.: A value in parameter character string 1 is invalid.)
/response/receiveData	Data received from the printer
/response/receiveData/@encoding	Data Encoding Type

- Example Response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<response version="1.0" productName="SATO SmaPri Driver"
  productVersion="1.0" creationTime="2011-09-05T14:12:28+09:00">
  <result>OK</result>
  <function>/Printer/SendRawData</function>
  <message>[Processing Results Message]</message>
  <receiveData encoding="hex">0220204130303030303003</receiveData>
</response>
```

| 5-7 | [Status] Check Status
Acquires the printer status. | Supported OS | Android
Windows |

- Action Path

/Printer/Status

- Basic Parameter / Extended Parameter

None

- Request Example

http://localhost:8080/Printer/Status

- Response (XML)

The response order may be changed and items added when the version is updated.

Path	Content
/response	Root Element of Processing Results
/response/@version	XML Data Version (1.0)
/response/@productName	SATO SmaPri Driver
/response/@productVersion	SmaPri Driver Version
/response/@creationTime	XML Data Creation Time
/response/result	Processing Results (OK/NG)
/response/function	/Printer/Status
/response/message	Processing Results Message Printer status content if successful If it fails, a character string describing the cause is displayed (E.g.: A value in parameter character string 1 is invalid.)
/response/statusCode	Hexadecimal character string printer status code (E.g. 41)*1
/response/statusCode/@type	Printer Status Type (standard/lapin)

*1For details on the status code, see "Status Code Reference".

- Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<response version="1.0" productName="SATO SmaPri Driver"
  productVersion="1.0" creationTime="2011-09-05T14:12:28+09:00">
  <result>OK</result>
  <function>/Printer/Status</function>
  <message>[Processing Results Message]</message>
  <statusCode type="lapin">30</statusCode>
</response>
```

5-8	**[Status] Check Spooler Status** Acquires the spooler status.	**Supported OS**	Android Windows

- **Action Path**

  /Spooler/Status

- **Basic Parameter / Extended Parameter**

  None

- **Request Example**

  http://localhost:8080/Spooler/Status

- **Response (XML)**

The response order may be changed and items added when the version is updated.

Path	Content
/response	Root Element of Processing Results
/response/@version	XML Data Version (1.0)
/response/@productName	SATO SmaPri Driver
/response/@productVersion	SmaPri Driver Version
/response/@creationTime	XML Data Creation Time
/response/result	OK (Fixed)
/response/function	/Spooler/Status
/response/message	Spooler Status (**status : message**)
	stop : Stopped
	waiting : Waiting
	printing : Printing
/response/status	printerOffline : Offline
	pause : Paused
	connectionError : Connection error
	printerError : Printer Error
/response/jobs	-
/response/jobs/@count	No. of jobs on the spooler
/response/jobs/job	Repeat no. of jobs
/response/job/@name	Job name
/response/job/@creationTime	Job created date and time
/response/job/@size	Job size (bytes)

- Example Response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<response version="1.0" productName="SmaPri Driver"
  productVersion="1.0" creationTime="2011-09-05T14:12:28+09:00">
  <result>OK</result>
  <function>/Spooler/Status</function>
  <message>Printing</message>
  <status>printing</status>
  <jobs count="2">
    <job name="job1" creationTime="2011-09-05T14:12:28+09:00" size="128">
    <job name="job2" creationTime="2011-09-05T14:13:28+09:00" size="64">
  </jobs>
</response>
```

5-9	[Format] Register/Acquire Format Registers the format file and acquires format information.	Supported OS	Android Windows

- Action Path

/Format

- Basic Parameter

Parameter	Type	Setting Value
__format_archive_url	Optional	Format file (*.spfmtz) URL
__format_archive_attach	Optional	Attach the format file (*.spfmtz) to this request. To specify this parameter, use the POST method and send this request in multipart/form-data format. Set the file name and file data in __format_archive_attach.

Extended Parameter

None

- Explanation

· Unlike "Format/Print", the format file is always overwritten and registered.

· When parameters are omitted, formatting is not registered and only the response is returned. An error occurs when there is no registered format file.

· When either "__format_archive_attach" or "__format_archive_url" is specified, the existing format file is always overwritten.

· Use this when "__format_archive_attach" sends the format file (*.spfmtz) from the native application to SmaPri Driver.

· A local file (file://), Web (http://, https://) and FTP (ftp://) can be used as the URL specified in "__format_archive_url". From SmaPri Driver (Android) Ver.1.19.0, it is necessary to obtain access permission to the reference folder when using the setting file on a terminal with Android 11 or later. For more information, refer to "Local file access on Android 11 and later".

· It takes time to register format files in which TrueType fonts are embedded because the file size is large. A timeout failure may occur when the HTTP path or FTP path is specified.

- Request Example

Registers the device storage format file in SmaPri Driver, and acquires the format information.

* Encode the parameter's name and value as a URL in UTF-8 format when sending the request.

* Line breaks are used in the following example to make the text easier to read, but line break codes should not be used in the actual file.

[Request Before URL Encoding]

http://localhost:8080**/Format**?__format_archive_url=file:///storage/emulated/0/SATO/sample.spfmtz

---

[Request After URL Encoding]

http://localhost:8080**/Format**?__format_archive_url=file%3A%2F%2F%2Fstorage%2Femulated%2F0%2FSATO%2Fsample.spfmtz

---

[File path specification example]

HTTP Server	→	http://example.com/smapri.spfmtz
FTP Server	→	ftp://example.com/smapri.spfmtz
Android Local file	→	file:///storage/emulated/0/SATO/smapri.spfmtz
Windows Local file	→	file:///D:/SATO/smapri.spfmtz

- Response (XML)

Path	Content
/response	Root Element of Processing Results
/response/@version	XML Data Version (1.0)
/response/@productName	SATO SmaPri Driver
/response/@productVersion	SmaPri Driver Version
/response/@creationTime	XML Data Creation Time
/response/result	Processing Results (OK/NG)
/response/function	/Format
/response/message	Processing Results Message SUCCESSFUL when processing is successful If it fails, a character string describing the cause is displayed (E.g.: the value for parameter __format_archive_url is invalid.)
/response/projectName	Project Name (Only output when format files (*.spfmtz) created using SmaPri Designer Ver.1.17.0.0 or later are registered)
/response/lastModified	Data Output Date and Time (Only output when format files (*.spfmtz) created using SmaPri Designer Ver.1.17.0.0 or later are registered)
/response/fileSize	Format Archive File Size (bytes)
/response/printer	Printer device name specified in the format
/response/printer/@resolution	Printer resolution (dpi)
/response/SBPLVersion	SBPL specified in the format
/response/format	Format Information (No. of formats repeated)
/response/format/@idNumber	Format Record No.
/response/format/@name	Format Record name

*The response order may be changed and items added when the version is updated.

- Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<response version="1.0" productName="SATO SmaPri Driver"
  productVersion="1.0" creationTime="2011-09-05T14:12:28+09:00">
  <result>OK</result>
  <function>/Format</function>
  <message>[Processing Results Message]</message>
  <printer resolution="203">PT208e</printer>
  <SBPLVersion>06.10.0</SBPLVersion>
  <format idNumber="1" name="Layout 1"/>
  <format idNumber="2" name="Layout 2"/>
  <format idNumber="3" name="Layout 3"/>
</response>
```

- Example Response (Redirect URL)

```
HTTP/1.1 303 See Other
… (header omitted) …
Location:   [Specified URL]?result=OK&function=/Format&message=[Process Results Message]
&printer=PT208e
&SBPLVersion=06.10.0
&format[0].idNumber=1&format[0].name= Layout 1
&format[1].idNumber=1&format[1].name= Layout 2
&format[2].idNumber=1&format[2].name= Layout 3
… (header omitted) …
```

- Example HTML Specification

```
<html>
  <head>      <title>result</title>
  </head>
  <body>
    <p><%= response.version %></p>
    <p><%= response.productName %></p>
    <p><%= response.productVersion %></p>
    <p><%= response.creationTime %></p>
    <p><%= response.result %></p>
    <p><%= response.function %></p>
    <p><%= response.message %></p>
    <p><%= response.printer %></p>
    <p><%= response.SBPLVersion %></p>
    <p><%= response.format[0].idNumber %></p>
    <p><%= response.format[0].name %></p>
    <p><%= response.format[1].idNumber %></p>
    <p><%= response.format[1].name %></p>
    <p><%= response.format[2].idNumber %></p>
    <p><%= response.format[2]name %></p>
  </body>
</html>
```

| 5-10 | [Format] Acquire Format Input Item | Supported OS | Android |
| | Specifies the layout Record No., and acquires the input item information. | | Windows |

- Action Path

/Format/InputItem

- Basic Parameter

Parameter	Type	Setting Value
__format_archive_url	Optional	Format file (*.spfmtz) URL. If the same URL as last time is specified, the behavior follows __format_archive_update.

__format_archive_update	Optional	Update check of the format file is performed when the same URL in __format_archive_url as the previous time is specified. When Updated is performed, the file is updated when either the file size or update date differs.
		  noUpdate : No update (default value)
		  update : Updated (with error notification)
		  updateWithoutError : Updated (no error notification)

__format_archive_attach	Optional	Attach the format file (*.spfmtz) to this request. To specify this parameter, use the POST method and send this request in multipart/form-data format. Set the file name and file data in __format_archive_attach.
__format_id_number	Required	Record No. of used layout

Extended Parameter

Parameter	Type	Setting Value
__response_addition_xml	Optional	Response Additional Information operation : Operation setting table : Table graphic : Graphic table *More than one can be specified separated by commas

- Explanation

· SmaPri Driver caches the last registered format file (*spfmtz). It is saved if the device power is turned off, but deleted if SmaPri Driver is uninstalled.
   1) Case when file is updated to a new format file
      - When "__format_archive_attach" is specified.
      - When a different URL to the one registered previous in "__format_archive_attach" is specified.
      - When "__format_archive_url" is specified, and "update" or "updateWithoutError" is specified in the "__format_archive_update" parameter.
   2) Case when an existing format file (cache) is used
      - When neither "__format_archive_attach" or "__format_archive_url" is specified.
      - When the same URL as the one registered previous in "__format_archive_attach" is specified.
      - When "noUpdate" is specified for both "__format_archive_url" and "__format_archive_update" parameters.
· It is used when "__format_archive_attach" sends the format file (*.spfmtz) directly from the application to

SmaPri Driver (when the path cannot be specified).

- URLs that can be specified as "__format_archive_url" are the Web (http://, https://), FTP (ftp://) and a local file (file://). From SmaPri Driver (Android) Ver.1.19.0, it is necessary to obtain access permission to the reference folder when using the setting file on a terminal with Android 11 or later. For more information, refer to "Local file access on Android 11 and later".

- It takes time to register format files that use the TrueType font embedding function because the file size is large. There are cases where HTTP communication timeout occurs, or when HTTP and FTP path specifications cannot be used.

- "__format_id_number" is the Record No. set in the layout using SmaPri Designer.

- Request Example

The Record No. acquires the input item information from the 1st format from those registered in the format archive in SmaPri Driver.

http://localhost:8080/Format/InputItem?__format_id_number=1

- Response (XML)

Path	Content
/response	Root Element of Processing Results
/response/@version	XML Data Version (1.0)
/response/@productName	SATO SmaPri Driver
/response/@productVersion	SmaPri Driver Version
/response/@creationTime	XML Data Creation Time
/response/result	Processing Results (OK/NG)
/response/function	/Format/InputItem
/response/message	Processing Results Message SUCCESSFUL when processing is successful If it fails, a character string describing the cause is displayed (E.g.: A value in parameter character string 1 is invalid.)
/response/printer	Printer device name specified in the format
/response/printer/@resolution	Printer resolution (dpi)
/response/SBPLVersion	SBPL specified in the format
/response/format	Format Information (No. of formats repeated)
/response/format/@idNumber	Format Record No..
/response/format/@name	Format Record name
/response/input	Input Item Information (Repeated the number of input items only)
/response/input/@type	Type of Input Item (text/barcode/price/dateTime/sequence/table/ quantity/graphic)
/response/input/@name	Item Name of Input Item
/response/input/@tableIdNumber	Table Number (Only when type is table)
/response/input/@length	Input No. of Digits *1
/response/input/@defaultValue	Default value *2
/response/print	Print Item Information (Repeated the number of print items only)
/response/print/@type	Type of Print Item (text/barcode/price/dateTime/sequence/line/ frame/table/graphic/command)
/response/print/@name	Item Name of Print Item

*The response order may be changed and items added when the version is updated.

*1When the type is graphic, "0" is constantly returned.

*2 When the type is graphic, a character string encoded in base64 is returned for the default value image file

data.

- When "__response_addition_xml" is operation (Additional response)

Path	Content
/response/speed	Print speed information (setting value amount repeated)
/response/speed/@settingValue	Print speed setting value
/response/speed/@speedValue	Print speed value "mm/s"
/response/speed/@default	Default value: (true/false)
/response/depth	Print density information (setting value amount repeated)
/response/depth/@settingValue	Print density setting value
/response/depth/@default	Default value: (true/false)
/response/verticalPositionCorrection	
/response/verticalPositionCorrection/@minValue	Vertical direction base point correction minimum value "dot"
/response/verticalPositionCorrection/@maxValue	Vertical direction base point correction maximum value "dot"
/response/horizontalPositionCorrection	
/response/horizontalPositionCorrection/@minValue	Horizontal direction base point correction minimum value "dot"
/response/horizontalPositionCorrection/@maxValue	Horizontal direction base point correction maximum value "dot"
/response/numberOfSheetsCut	When specified quantity cut is supported
/response/numberOfSheetsCut/@maxValue	Specified quantity cut maximum value
/response/numberOfSheetsCut/@defaultValue	Specified quantity cut default value
/response/ejectionSheetCut	When ejection cut specification is supported
/response/ejectionSheetCut/@defaultValue	Ejection cut default value (true/false)

- When "__response_addition_xml" is table (Additional response)

Path	Content
/response/table	Repeat no. of tables
/response/table/@idNumber	Table No.
/response/table/@name	Table name
/response/table/record	Repeat the number of records only
/response/table/record/@registrationNumber	Record registration number
/response/table/record/stringValue	Record character string

- When "__response_addition_xml" is graphic (Additional response)

Path	Content
/response/table	Repeat the number of tables only
/response/table/@idNumber	100 (fixed)
/response/table/@name	Table name
/response/table/record	Repeat the number of records only
/response/table/record/@registrationNumber	Record registration number
/response/table/record/stringValue	Record character string
/response/table/record/graphicValue	Record graphic data (base64 Encoded Character String)

- Example Response (XML)

• When operation, table and graphic are specified in "__response_addition_xml"

```xml
<?xml version="1.0" encoding="UTF-8"?>
<response version="1.0" productName="SmaPri Driver"
  productVersion="1.0" creationTime="2011-09-05T14:12:28+09:00">
  <result>OK</result>
  <function>/Format/InputItem</function>
  <message>[Processing Results Message]</message>
  <printer resolution="203">PT208</printer>
  <SBPLVersion>06.10.0</SBPLVersion>
  <format idNumber="1" name="Layout 1"/>
  <speed settingValue="1" speedValue="75"/>
  <speed settingValue="2" speedValue="103" default="true"/>
  <depth settingValue="1"/>
  <depth settingValue="2"/>
  <depth settingValue="3" default="true"/>
  <depth settingValue="4"/>
  <depth settingValue="5"/>
  <verticalPositionCorrection minValue="-300" maxValue="300"/>
  <horizontalPositionCorrection minValue="-300" maxValue="300"/>
  <numberOfSheetsCut maxValue="9999" defaultValue="1"/>
  <ejectionSheetCut defaultValue="true"/>
  <input type="text" name="Character string 1" length="10"/>
  <input type="barcode" name="Barcode 1" length="12" defaultValue="123456789012"/>
  <input type="price" name="Price 1" length="6" defaultValue="1000"/>
  <input type="table" tableIdNumber="1" name="Table convert" length="4" defaultValue="1"/>
  <table idNumber="1" name="Table 1">
    <record registrationNumber="1">
      <stringValue>Record 1</stringValue>
    </record>
    <record registrationNumber="2">
      <stringValue>Record 2</stringValue>
    </record>
  </table>
  <table idNumber="100" name="Graphic Table">
    <record registrationNumber="1">
      <stringValue>Plus 6mm</stringValue>
      <graphicValue>Qk2+AQAAAAAA…（partially omitted）…APwAA/wAAAAD/AAA=</graphicValue>
    </record>
    <record registrationNumber="2">
      <stringValue>Paper 6mm</stringValue>
      <graphicValue>Qk2+AQAAAAAA…（partially omitted）…//+AAH/wAA////gD//AAA=</graphicValue>
    </record>
  </table>
</response>
```

- Example Response (Redirect URL)

• When table is specified in "__response_addition_xml"

```
HTTP/1.1 303 See Other
··· (header omitted) ···
Location:   [Specified URL]?result=OK&function=/Format/InputItem&message=[Process Results Message]
&printer=PT208e
&SBPLVersion=06.10.0
&format.idNumber=1&format.name= Layout 1
&input[0].type=text&input[0].name= Character String 1&input[0].length=10&input[0].defaultValue=
&input[1].type=barcode&input[1].name=Barcode 1
&input[1].length=12&input[1].defaultValue=123456789012
&input[2].type=price&input[2].name=Price 1&input[2].length=6&input[2].defaultValue=1000
&table[0].idNumber=1&table[0].name= Table 1
&table[0].record[0].registrationNumber=1&table[0].record[0].stringValue= Record 1
&table[0].record[1].registrationNumber=2&table[0].record[1].settingValue= Record 2
&table[1].idNumber=1&table[1].name= Graphic Table
&table[1].record[0].registrationNumber=1&table[1].record[0].stringValue= Plus 6mm
&table[1].record[1].registrationNumber=2&table[1].record[1].settingValue= Paper 6mm
··· (header omitted) ···
```

- Example HTML Specification

• When "__response_addition_xml" is not specified

```html
<html>
  <head>
    <title>result</title>
  </head>
  <body>
    <p><%= response.version %></p>
    <p><%= response.productName %></p>
    <p><%= response.productVersion %></p>
    <p><%= response.creationTime %></p>
    <p><%= response.result %></p>
    <p><%= response.function %></p>
    <p><%= response.message %></p>
    <p><%= response.printer %></p>
    <p><%= response.SBPLVersion %></p>
    <p><%= response.format.idNumber %></p>
    <p><%= response.format.name %></p>
    <p><%= response.input[0].type %></p>
    <p><%= response.input[0].name %></p>
    <p><%= response.input[0].length %></p>
    <p><%= response.input[0].defaultValue %></p>
    <p><%= response.input[1].type %></p>
    <p><%= response.input[1].name %></p>
    <p><%= response.input[1].length %></p>
    <p><%= response.input[1].defaultValue %></p>
    <p><%= response.input[2].type %></p>
    <p><%= response.input[2].name %></p>
    <p><%= response.input[2].length %></p>
    <p><%= response.input[2].defaultValue %></p>
  </body>
</html>
```

5-11	[Font] Acquire Font Information Acquires information from the font file cached in SmaPri Driver.	Supported OS	Android Windows

- Action Path

  /Font

- Basic Parameter / Extended Parameter

  None

- Explanation

· When a format file (*.spfmtz) created using SmaPri Designer Ver.1.17.0.0 or later is registered as a format, the font file is cached in the device. SmaPri Driver also needs to be a supported version (Android: Ver.1.11.0 or later, Windows: Ver.1.1.0.0 or later).

· When the format file (*.spfmtz) is updated, the data size can be reduced when performing "Data Output" with SmaPri Designer by unchecking the "Include TrueType Font File" check box.　If the required font file is not cached, an error occurs at printing.

- Request Example

http://localhost:8080/Font

- Response (XML)

Path	Content
/response	Root Element of Processing Results
/response/@version	XML Data Version (1.0)
/response/@productName	SATO SmaPri Driver
/response/@productVersion	SmaPri Driver Version
/response/@creationTime	XML Data Creation Time
/response/result	Processing Results (OK/NG)
/response/function	/Font
/response/message	Processing Results Message SUCCESSFUL when processing is successful, or a character string describing the cause is displayed if it fails
/response/fonts	-
/response/fonts/@count	No. of font files
/response/fonts/font	Font information (Repeat the number of font files only)
/response/fonts/font/@family	Font family name
/response/fonts/font/@style	Font style (italic / underscore / negative / outlined (hollow) / strikeout / bold / regular / oblique) *When combining multiple styles, "|" is used to delimit the list.
/response/fonts/font/@size	Font File Size (Byte)

  *The response order may be changed and items added when the version is updated.

- Example Response (XML)

```
<?xml version="1.0" encoding="UTF-8"?>
<response version="1.0" productName="SATO SmaPri Driver"
  productVersion="1.11.0" creationTime="2016-08-25T18:50:27+09:00">
  <result>OK</result>
  <function>/Font</function>
  <message>[Processing Results Message]</message>
  <fonts count="2">
    <font family="Arial" style="bold|italic" size="32767"/>
    <font family="Meiryo" style="regular" size=" 65535" />
  <fonts/>
</response>
```

- Example Response (Redirect URL)

```
HTTP/1.1 303 See Other
… (header omitted) …
Location:  [Specified URL]?result=OK&function=/Font&message=[Process Results Message]
&fonts.@count=2
&fonts.font[0].@familyName=Arial&fonts.font[0].@style=bold|italic&fonts.font[0].@size=32767
&fonts.font[1].@familyName=Meiryo&fonts.font[1].@style=regular&fonts.font[1].@size=65535
… (header omitted) …
```

- Example HTML Specification

```html
<html>
  <head>
    <title>result</title>
  </head>
  <body>
    <p><%= response.@version %></p>
    <p><%= response.@productName %></p>
    <p><%= response.@productVersion %></p>
    <p><%= response.@creationTime %></p>
    <p><%= response.result %></p>
    <p><%= response.function %></p>
    <p><%= response.message %></p>
    <p><%= response.fonts.@count %></p>
    <p><%= response.fonts.font[0].@family %></p>
    <p><%= response.fonts.font[0].@style %></p>
    <p><%= response.fonts.font[0].@size %></p>
    <p><%= response.fonts.font[1].@family %></p>
    <p><%= response.fonts.font[1].@style %></p>
    <p><%= response.fonts.font[1].@size %></p>
  </body>
</html>
```

5-12	**[Font] Font Clear** Deletes the font file (*.ttf) cached in the device.	**Supported OS**	Android Windows

- Action Path

  /Font/Clear

- Basic Parameter / Extended Parameter

  None

- Explanation

- When a format file (*.spfmtz) created using SmaPri Designer Ver.1.17.0.0 or later is registered as a format, the font file is cached in the device.
- Font clear deletes all font files cached in the device.
- If there is no necessary font, labels using the font can not be issued, please register the format file again.

- Request Example

http://localhost:8080/Font/Clear

- Response (XML)

Path	Content
/response	Root Element of Processing Results
/response/@version	XML Data Version (1.0)
/response/@productName	SATO SmaPri Driver
/response/@productVersion	SmaPri Driver Version
/response/@creationTime	XML Data Creation Time
/response/result	Processing Results (OK/NG)
/response/function	/Font/Clear
/response/message	Processing Results Message SUCCESSFUL when processing is successful, or a character string describing the cause is displayed if it fails

  *The response order may be changed and items added when the version is updated.

- Example Response (XML)

```
<?xml version="1.0" encoding="UTF-8"?>
<response version="1.0" productName="SATO SmaPri Driver"
  productVersion="1.11.0" creationTime="2016-08-25T19:43:15+09:00">
  <result>OK</result>
  <function>/Font/Clear</function>
  <message>SUCCESSFUL</message>
</response>
```

5-13	[Port] Acquire Output Destination Port Acquires the set output destination port (printer).	Supported OS	Android Windows

- Action Path

/Printer/Port

- Basic Parameter / Extended Parameter

None

- Request Example

http://localhost:8080/Printer/Port

- Response (XML)

The response order may be changed and items added when the version is updated.

Path	Content
/response	Root Element of Processing Results
/response/@version	XML Data Version (1.0)
/response/@productName	SATO SmaPri Driver
/response/@productVersion	SmaPri Driver Version
/response/@creationTime	XML Data Creation Time
/response/result	OK (Fixed)
/response/function	/Printer/Port
/response/message	SUCCESSFUL : Successful NO PORT SET : Printer not registered
/response/deviceType	bluetooth/tcpip/usb/driver * 'driver' is only supported in Windows version.

/response/address	Printer Address
	  Bluetooth: MAC address format (Example: 00:01:90:E3:84:77)
	  TCP/IP: IPv4 format + TCP port number (Example: 192.168.1.1:9100)
	  USB: Null character or USB serial ID
	  Driver: This item is not output.

/response/driverName	Printer driver name * Only supported in Windows version (if deviceType is 'driver').
/response/protocol	Printer communication protocol (status3/status3_lapin/status4)
/response/crc	CRC addition (false/true)
/response/connected	Whether connected to the printer (false/true) * Only supported in Android version.
/response/nfcOndemand	Use NFC on demand printing (false/true) * Only supported in Android version.

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/response/bondedBluetoothDevices	Paired Bluetooth information
/response/bondedBluetoothDevices/@count	No. of devices
/response/bondedBluetoothDevices/device	Device address (Repeated for number of devices)
/response/bondedBluetoothDevices/device/@name	Device name
/response/connectedUsbDevices	Connected USB devices
/response/connectedUsbDevices/@count	Number of connected USB devices
/response/connectedUsbDevices/device	Serial number of connected USB device (Repeated for number of devices)
/response/connectedusbDevices/device/@name	Name of Connected USB device * Only supported in Android version.
/response/drivers	Printer driver * Only supported in Windows version.
/response/drivers/@count	Number of printer driver
/response/drivers/printer	(Repeated for number of printer driver)
/response/drivers/printer/@name	Name of printer driver

- Example Response (Android)

```xml
<?xml version="1.0" encoding="UTF-8"?>
<response version="1.0" productName="SATO SmaPri Driver"
  productVersion="1.21.0" creationTime="2024-06-24T10:00:00+0900">
  <result>OK</result>
  <function>/Printer/Port</function>
  <message>SUCCESSFUL</message>
  <deviceType>bluetooth</deviceType>
  <address>84:25:3F:B5:E3:33</address>
  <protocol>status4</protocol>
  <crc>false</crc>
  <connected>false</connected>
  <nfcOndemand>false</nfcOndemand>
  <bondedBluetoothDevices count="2">
    <device name="SATO PRINTER_84253fb5e333">84:25:3F:B5:E3:33</device>
    <device name="SATO PRINTER_84253f5e9e77">84:25:3F:5E:9E:77</device>
  </bondedBluetoothDevices>
  <connectedUsbDevices count="0">
</response>
```

5-14	[Port] Specify Output Destination Port Sets the output destination port (printer).	Supported OS	Android Windows

- Action Path

/Printer/SetPort

- Basic Parameter

Parameter	Type	Setting Value
__device_type	Optional	Printer Device Type (bluetooth/tcpip/usb) * When "bluetooth" or "tcpip" is specified, "__address" is required.
__address	Optional	Printer Address Bluetooth: MAC address format (Example: 00:01:90:E3:84:77) * An address which is not paired will be an error. TCP/IP: IPv4 format + TCP port (Example: 192.168.1.1:9100) USB: Not supported
__protocol	Optional	Printer protocol (status3/status3_lapin/status4)
__crc	Optional	CRC addition (false/true)

Settings of omitted parameters are not changed.

- Extended Parameters

*Only parameters supported by Windows version

Parameter	Type	Setting Value
__device_type	Optional	Printer Device Type (driver)
__driver_name	Optional	For Driver Character string: Printer name (Printer driver name)

Settings of omitted parameters are not changed.

*Only parameters supported by Android version (SmaPri Driver Ver.1.16.0 or later)

Parameter	Type	Setting Value
__nfc_ondemand	Optional	Use NFC on-demand printing. Specify "true" to switch to NFC on-demand printing. Specifying the printer address with the "__address" cancels NFC on-demand printing. Ex.) __device_type=bluetooth&__nfc_ondemand=true Ex.) __device_type=bluetooth&__address=00:01:90:E3:84:77 *If __device_type is tcpip, this parameter cannot be used.

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- Explanation

- If SmaPri Driver is connected to a printer, this request will result in an error. If you want to switch printers, set [Printer Settings] > [Printer disconnection timer] to [Every label print] (for SmaPri Driver (Android)).

- "__crc" usually does not need to be specified. Specify this only when the CRC check function is enabled on the printer (the default value of the printer is invalid). If the settings do not match the printer, it may cause problems such as missing labels.

- Request Example

An example request for each interface is described.

＊Encode the parameter's name and value as a URL in UTF-8 format when sending the request.

[Request Before URL Encoding]

http://localhost:8080/Printer/SetPort?__device_type=bluetooth&__address=00:01:90:E3:84:77

http://localhost:8080/Printer/SetPort?__device_type=tcpip&__address=192.168.1.1:9100

http://localhost:8080/Printer/SetPort?__device_type=usb

http://localhost:8080/Printer/SetPort?__device_type=driver&__driver_name=SATO CL4NX 203dpi

[Request After URL Encoding]

http://localhost:8080/Printer/SetPort?__device_type=bluetooth&__address=00%3A01%3A90%3AE3%3A84%3A77

http://localhost:8080/Printer/SetPort?__device_type=tcpip&__address=192.168.1.1%3A9100

http://localhost:8080/Printer/SetPort?__device_type=usb

http://localhost:8080/Printer/SetPort?__device_type=driver&__driver_name=SATO%20CL4NX%20203dpi

- Response (XML)

The response order may be changed and items added when the version is updated.

Path	Content
/response	Root Element of Processing Results
/response/@version	XML Data Version (1.0)
/response/@productName	SATO SmaPri Driver
/response/@productVersion	SmaPri Driver Version
/response/@creationTime	XML Data Creation Time
/response/result	Processing Results (OK/NG)
/response/function	/Printer/SetPort
/response/message	Processing Results Message SUCCESSFUL when processing is successful. If it fails, a character string describing the cause is displayed. (e.g., The value for parameter __address is invalid.)

- Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<response version="1.0" productName="SATO SmaPri Driver"
  productVersion="1.4.0" creationTime="2012-10-23T15:26:22+0900">
  <result>OK</result>
  <function>/Printer/SetPort</function>
  <message>SUCCESSFUL</message>
</response>
```

| 5-15 | [Spool] Spool Clear
Deletes all of the jobs from the spooler. | Supported OS | Android
Windows |

- Action Path

  /Spooler/Clear

- Basic Parameter / Extended Parameter

  None

- Request Example

http://localhost:8080/Spooler/Clear

- Response (XML)

The response order may be changed and items added when the version is updated.

Path	Content
/response	Root Element of Processing Results
/response/@version	XML Data Version (1.0)
/response/@productName	SATO SmaPri Driver
/response/@productVersion	SmaPri Driver Version
/response/@creationTime	XML Data Creation Time
/response/result	Processing Results (OK/NG)
/response/function	/Spooler/Clear
/response/message	Processing Results Message SUCCESSFUL when processing is successful If it fails, a character string describing the cause is displayed (E.g.: The value for parameter __address is invalid.)

- Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<response version="1.0" productName="SATO SmaPri Driver"
  productVersion="1.5.0" creationTime="2013-04-09T17:10:15 AM+0900">
  <result>OK</result>
  <function>/Spooler/Clear</function>
  <message>SUCCESSFUL</message>
</response>
```

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| 5-16 | **[Device] Bluetooth Device Search**
Searches for nearby Bluetooth devices. | **Supported OS** | Android
Windows |

- Action Path

   /Bluetooth/Discover

- Basic Parameter

Parameter	Type	Setting Value
__timeout	Required	Search Time (1-61)*1
__mode	Optional	sync : Sync mode (default value) async : Async mode

*1 On Android, even if 12 or more is specified, the search ends with about 12 seconds as specified by the OS.

Extended Parameter

   None

- Explanation

- SmaPri Driver (Android) Ver.1.19.0 or later, this request will not work on Android 10, 11 due to OS limitations. Please use SmaPri Driver's "Discover new device" or Setting app on device menu, or use a device with Android 12 or later.

- When the "__mode" is sync, a response is returned after the search time specified in "__timeout" has elapsed.

- When the "__mode" is async, a response is returned immediately after the request without waiting for the search to complete. In this case, if a request is performed without specifying parameters ("__timeout", "__mode"), the Bluetooth device list can be acquired while searching. Judgement of whether or not the search is complete is made according to the "/response/message" value (IN PROGRESS: searching, SUCCESSFUL: Search complete).

- Request Example

```
//3 second search starts in sync mode
http://localhost:8080/Bluetooth/Discover?__timeout=3&mode=sync
```
```
//10 second search starts in async mode
http://localhost:8080/Bluetooth/Discover?__timeout=10&mode=async
//A list of devices found from the start of searching until present is acquired
http://localhost:8080/Bluetooth/Discover
```

- Response (XML)

The response order may be changed and items added when the version is updated.

Path	Content
/response	Root Element of Processing Results
/response/@version	XML Data Version (1.0)
/response/@productName	SATO SmaPri Driver
/response/@productVersion	SmaPri Driver Version
/response/@creationTime	XML Data Creation Time
/response/result	Processing Results (OK/NG)
/response/function	/Bluetooth/Discover
/response/message	Processing Results Message SUCCESSFUL when processing is successful IN PROGRESS while searching If it fails, a character string describing the cause is displayed (E.g.: The value for parameter __timeout is invalid.)
/response/bluetoothDevices	Bluetooth device information found by searching
/response/bluetoothDevices/@count	No. of devices
/response/bluetoothDevices/device	BD address (Repeated for number of devices)
/response/bluetoothDevices/device/@name	Device name
/response/bluetoothDevices/device/@bonded	Paired or not (true/false)

- Example Response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<response version="1.0" productName="SATO SmaPri Driver"
  productVersion="1.0.0" creationTime="2015-06-24T17:10:15 AM+0900">
  <result>OK</result>
  <function>/Bluetooth/Discover</function>
  <message>SUCCESSFUL</message>
  <bluetoothDevices count="2">
    <device name="PT208j" bonded="false" >00:01:90:E3:84:77</device>
    <device name="SATO MOBILE PRINTER" bonded="true" >00:01:90:EC:1D:7A</device>
  </bluetoothDevices>
</response>
```

5-17	**[Device] Bluetooth Device Pairing** Pairs with the specified Bluetooth device.	**Supported OS**	Android Windows

- Action Path

  /Bluetooth/CreateBond

- Basic Parameter

Parameter	Type	Setting Value
__address	Required	BD address: MAC address format (Example) 00:01:90:E3:84:77
__pin	Optional	PIN Code (Max. 16 digits)

- Extended Parameter

  None

- Explanation

- Please specify uppercase letters for BD address.
- When the Bluetooth authentication level of the printer is level 4, __pin can be omitted.
  After executing the request, perform pairing according to the dialog displayed on the OS and printer.
- To set the paired printer as the output destination, send a /Printer/SetPort request.

- Request Example

* Encode the parameter's name and value as a URL in UTF-8 format when sending the request.

* Line breaks are used in the following example to make the text easier to read, but line break codes should not be used in the actual file.

[Request Before URL Encoding]
http://localhost:8080/Bluetooth/CreateBond
   ? __address=00:01:90:E3:84:77&__pin=0000

[Request After URL Encoding]
http://localhost:8080/Bluetooth/CreateBond
   ? __address=00%3A01%3A90%3AE3%3A84%3A77&__pin=0000

- Response (XML)

The response order may be changed and items added when the version is updated.

Path	Content
/response	Root Element of Processing Results
/response/@version	XML Data Version (1.0)
/response/@productName	SATO SmaPri Driver

/response/@productVersion	SmaPri Driver Version
/response/@creationTime	XML Data Creation Time
/response/result	Processing Results (OK/NG)
/response/function	/Bluetooth/CreateBond
/response/message	Processing Results Message SUCCESSFUL when processing is successful If it fails, a character string describing the cause is displayed (E.g.: The value for parameter __address is invalid.)

- **Example Response**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<response version="1.0" productName="SATO SmaPri Driver"
  productVersion="1.0.0" creationTime="2015-06-24T17:10:15 AM+0900">
  <result>OK</result>
  <function>/Bluetooth/CreateBond</function>
  <message>SUCCESSFUL</message>
</response>
```

5-18	[Device] Remove Bluetooth Device Pairing Removes pairing with the specified Bluetooth device.	Supported OS	Windows

- Action Path

/Bluetooth/RemoveBond

- Basic Parameter

Parameter	Type	Setting Value
__address	Required	BD address: MAC address format (Example) 00:01:90:E3:84:77

Extended Parameter

None

- Request Example

* Encode the parameter name and parameter value as a URL in UTF-8 format when sending the request.

> [Request Before URL Encoding]
> http://localhost:8080/Bluetooth/RemoveBond?__address=00:01:90:E3:84:77

> [Request After URL Encoding]
> http://localhost:8080/Bluetooth/RemoveBond?__address=00%3A01%3A90%3AE3%3A84%3A77

- Response (XML)

The response order may be changed and items added when the version is updated.

Path	Content
/response	Root Element of Processing Results
/response/@version	XML Data Version (1.0)
/response/@productName	SATO SmaPri Driver
/response/@productVersion	SmaPri Driver Version
/response/@creationTime	XML Data Creation Time
/response/result	Processing Results (OK/NG)
/response/function	/Bluetooth/RemoveBond
/response/message	Processing Results Message SUCCESSFUL when processing is successful If it fails, a character string describing the cause is displayed (E.g.: The value for parameter __address is invalid.)

- Example Response

```
<?xml version="1.0" encoding="UTF-8"?>
<response version="1.0" productName="SATO SmaPri Driver"
   productVersion="1.0.0" creationTime="2015-06-24T17:10:15 AM+0900">
   <result>OK</result>
   <function>/Bluetooth/RemoveBond</function>
   <message>SUCCESSFUL</message>
</response>
```

- Explanation

Since Android OS does not release an API for removing pairing, SmaPri does not support it (as of December 5, 2017).

5-19	**Display administration screen, and start/stop server** Display administration screen, and start/stop server using intent.	**Supported OS**	Android

You can perform SmaPri Driver functions (e.g. display main administration screen, start/stop server) from other applications or the Web browser using intent (custom URL scheme).

- **Intent List**

URI	Function	Supplement
smapri:///View/Status	Display administration screen (status)	
smapri:///View/ServerSettings	Display administration screen (server settings)	
smapri:///View/PrinterSettings	Display administration screen (printer settings)	1
smapri:///View/Spooler	Display administration screen (spooler display)	
smapri:///View/NfcPairing	Display NFC Pairing screen	4
smapri:///Service/Start	Start server	2
smapri:///Service/Stop	Stop server	3

Supplement 1: Display administration screen (printer settings)
- The following message appears when the spooler is processing print jobs.
"Printer setting cannot be changed while spooling. Wait for printing all print jobs or pause the spooler to change settings."
When you tap "OK", the spooler is not displayed.
When you tap "Spooler", the spooler display appears.

- The following message appears when SmaPri Driver is connected to a printer.
"Printer will be disconnected. Do you want to continue?"
When you tap "Yes", printer will be disconnected and the printer settings screen appears.
When you tap "No", the printer settings screen appears but no changes can be made.

Supplement 2: Start server
- The configuration file path can be specified using the "import_setting_file_location" option parameter.
ex）smapri:/// Service/Start?import_settings_file_location=/storage/emulated/0/SmaPri.ini

From SmaPri Driver Ver.1.19.0, it is necessary to obtain access permission to the reference folder when using the setting file on a terminal with Android 11 or later.
For more information, refer to "Local file access on Android 11 and later".

Supplement 3: Stop server
- The following message appears when the spooler is processing print jobs.
"Print jobs exist in spooler. Do you want to stop server?"
When you tap "Yes", server will stop after print commands are generated for all print jobs.
When you tap "No", the request to stop the server will not be performed.

- Request example

- Call the screen "Spooler Display" from web browser (by HTML link).

ex）<p> Spooler Display </p>

Supplement 4) Display the NFC pairing screen

- If NFC is disabled, an error message is displayed and the OS setting screen opens.

"NFC is disabled on the device. Please enable NFC in a setting screen."

- If there is no NFC module, an error message will be displayed.

"NFC is not available on the device."

5-20	Local file access on Android 11 and later	Supported OS	Android

From SmaPri Driver Ver.1.19.0, it is necessary to obtain access permission to the reference folder when placing format files, setting files, etc. in folders in the internal shared storage on devices with Android 11 or later.

conditions

・SmaPri Driver (Android) version is Ver.1.19.0 or later

・Android device OS is Android 11 or later

・Reference destinations such as format files refer to local files (file://)

Please refer to the procedure on the next page to obtain access permission to the local folder.

Also, if you install SmaPri Driver Ver.1.19.0 or later on a terminal with Android 11 or later, the following dialog will be displayed at the first startup. If you select "OK", the dialog will not appear until you reinstall.
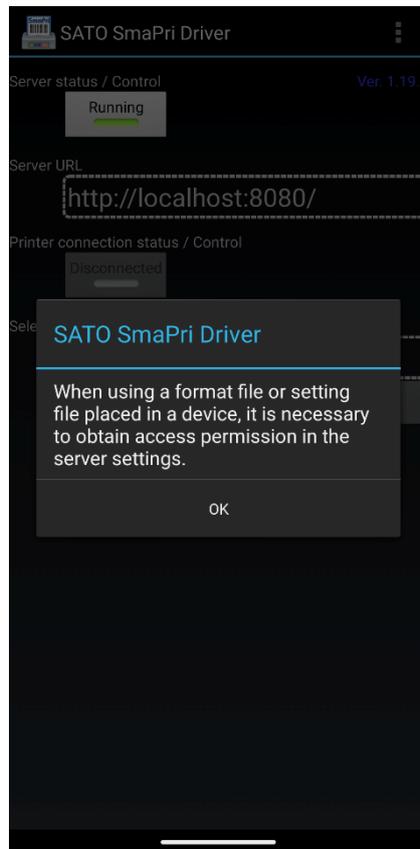
**- Procedure for obtaining folder access permission**

As an example, the procedure when the reference destination of the format file is the SATO folder of the internal shared storage is explained.

URL example) file:///storage/emulated/0/SATO/sample.spfmtz

1) Select "Server Settings".
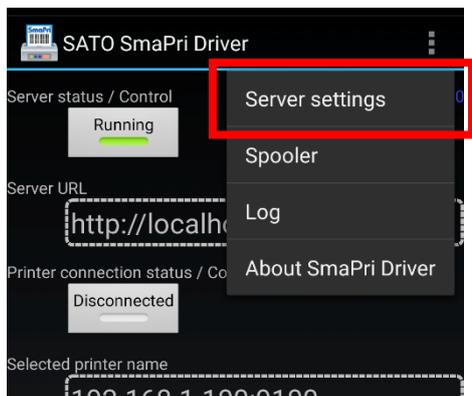

2) Select "Access to the folder is granted".
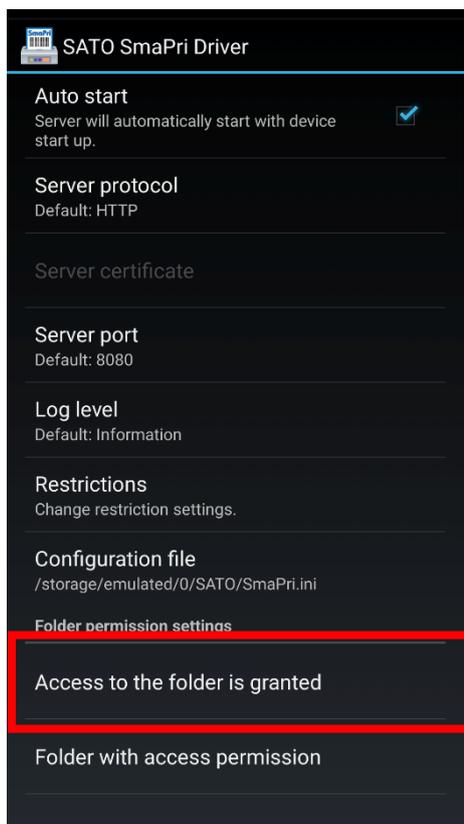
3) The folder selection screen opens. Select the folder where the format file is located (SATO folder here) and select "Use this folder".
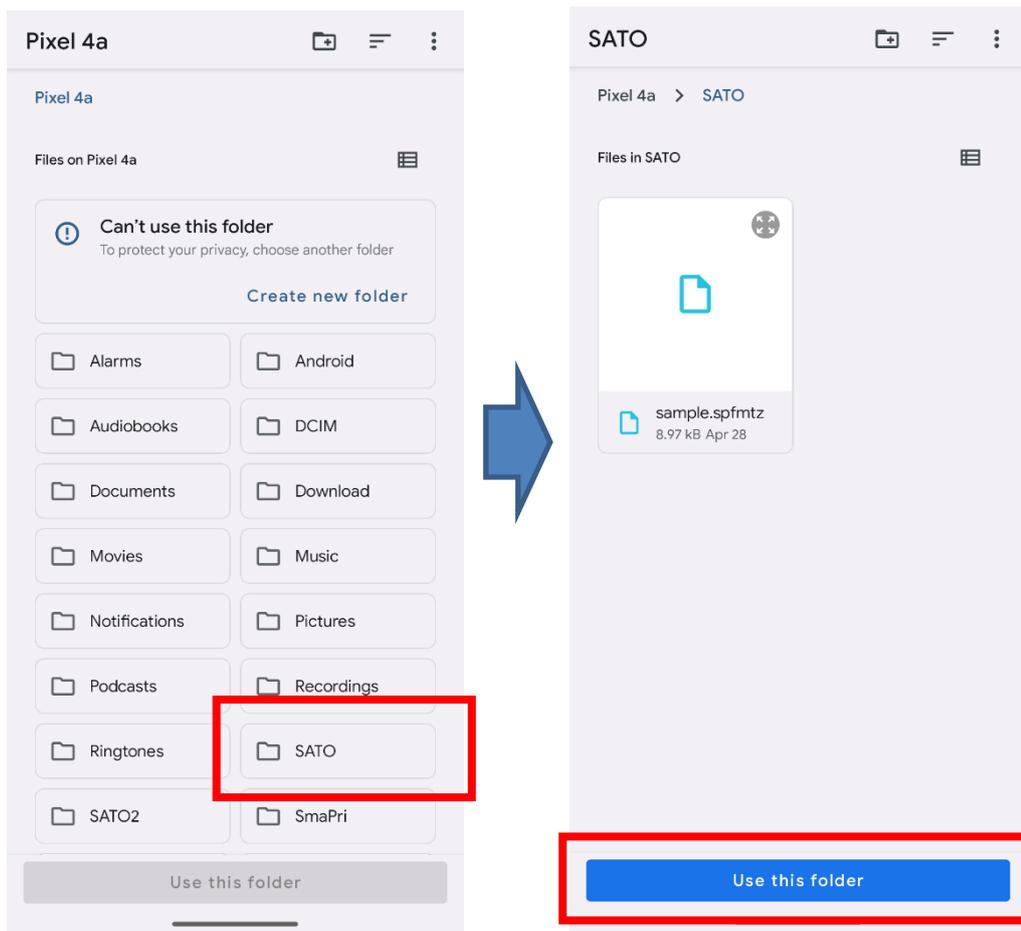
4) Select "Allow".
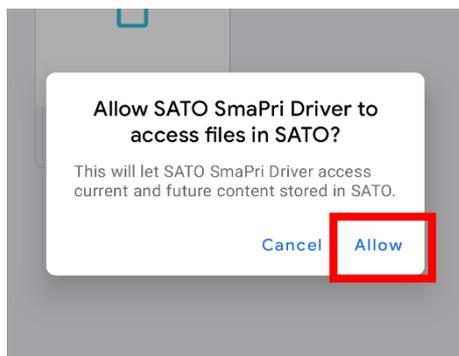
5) Return to the server settings. Confirm that the folder name ("/SATO") is displayed in "Folder with access permission ".
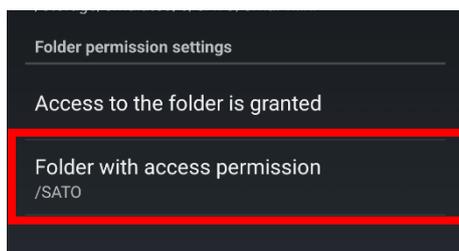
6) Run the Format/Print request to make sure the label can be printed.

If there are other folders that require access permissions, repeat steps 1) to 5).

Other restrictions

- The folder name for which you have obtained permission is case-sensitive depending on the OS. Please make sure that the case of the URL specified in the "__format_archive_url" parameter of the format print request matches the case of the folder name on the terminal.

- If you uninstall SmaPri Driver, the folder permission information will be deleted. Please re-obtain access permissions to the folder after reinstalling.

- If you want to refer to a file in a subfolder of a folder for which you have permission, please obtain permission for the subfolder.
Error example)

Failed to download file from the URL[file:///storage/emulated/0/SATO/sample.spfmtz]. (/storage/emulated/0/SATO/sample.spfmtz: open failed : EACCES (Permission denied))

- Access permissions cannot be obtained for some local folders.
  - Directly under the internal shared storage (/storage/emulated/0/, /sdcard)
  - Download folder (/storage/emulated/0/Download, /sdcard/Download)
  - Android folder (/Android, /Android/data, /Android/obb, etc.)

  For folders for which access permissions cannot be obtained, "Can't use this folder" is displayed on the folder selection screen. If the file is placed in the corresponding folder, change the folder.
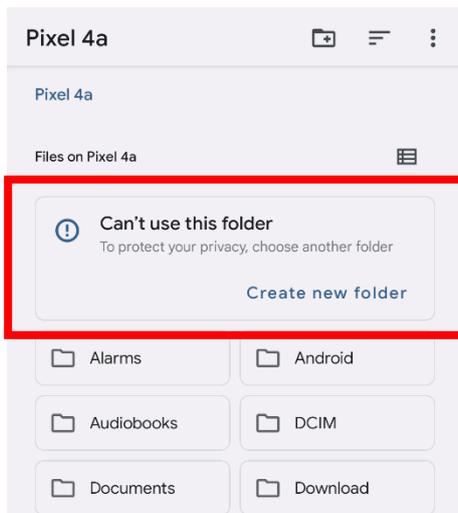
5-21	Support SSL on web app	Supported OS	Android Windows

Due to the specifications of Google Chrome version 94 or later, when using the SmaPri Driver from a web application, please support SSL on your web app.

If the URL of the web application is http (http://example.com/), the request to SmaPri Driver (http://localhost:8080/) will be blocked by the browser and will result in a transmission error. See the Chrome developer site below for details.

https://developer.chrome.com/blog/private-network-access-update/

Note

- It is not necessary to set the server protocol of SmaPri Driver to HTTPS.

- Please check the operation of the browser for the web application in the intranet environment. Please support SSL on your web app if the request is blocked by your browser.

Example

1) When the URL of the web application is "http://license.sato.co.jp/"

Sending requests to SmaPri Driver (http://localhost:8080/) fails.

As an example, when using XMLHttpRequest in JavaScript, HTTP status code 0 is returned. The browser's developer mode log will show an error stating that the request was blocked, such as:

```
[Log (sample)]
Access to XMLHttpRequest at 'http://localhost:8080/Format/Print…' from origin
'http://license.sato.co.jp' has been blocked by CORS policy: The request client is not a secure
context and the resource is in more-private address space `local`.
```

2) When the URL of the web application is "https://license.sato.co.jp/"

Requests to the SmaPri Driver (http://localhost:8080/) are successfully sent.

5-22	Response Message List	Supported OS	Android Windows

- HTTP status codes

HTTP status codes	Description	Status
200 OK	Your Request has been successfully accepted.	Normal
204 No Content	Preflight request accepted.	Normal
404 Not Found	The WebAPI name of your request is invalid.	Error
500 Internal Server Error	Your request cannot be processed because SmaPri Driver encountered an error. Please check the log for error details.	Error
503 Service Unavailable	Another request was received while your request was being processed. Multiple requests cannot be processed simultaneously. Please wait a moment and resend your request.	Error

Note

・Check the HTTP status code to see if your request was accepted successfully.

・"200 OK" indicates that the request sent by your app was successfully accepted, but does not indicate that the request was successfully executed. To check whether the execution result is successful or not, check that <result> in the response data is OK. If execution fails, NG will be returned to <result> and an error message will be returned to <message>.

- Response Message list

<message>	Description
SUCCESSFUL	1. Print job successfully generated (Format/Print, /Printer/SendCommand) 2. Request processed successfully (other)
IN PROGRESS	This message will be returned in the following cases. 1. When printing a format that includes sequential numbers (normal) 2. When printing multiple sheets of variable length format whose total height exceeds the maximum print height of the printer (normal) 3. When /Bluetooth/Discover request is executed in asynchronous mode (__mode=async) (normal) 4. If background processing is in progress for formats that include sequential numbers or for printing multiple formats (error)
The value for parameter [parameter name] is invalid.	There is an error in the input data. Please check the

	request details.
Parameter [parameter name] and [parameter name] cannot be specified together.	There is an error in the input data. Please check the request details.
Failed to download file from the URL[URL].	1. Please check whether the URL of the format file (.spfmtz) is set correctly. 2. (SmaPri Driver (Android) Ver.1.19.0 or later) If "file:///" is specified for the file URL on Android 11 or later, access to the folder has already been obtained and the case of the alphabet in the URL Please check if it matches the path on your terminal.
Format archive file is not registered.	Please specify the __format_archive_url or __format_archive_attach parameter in your request.
Cannot find the label format number (n).	Please check whether the layout call number is set correctly in the __format_id_number parameter.
Variable length format and fix length format cannot be existed together.	When printing multiple formats, the sensor type " Receipt paper (Variable length)" layout cannot be combined with the layout of other sensor types.
Unable to add data as the print job has been deleted.	Please resend the format print request.
Failed to load the format file.	Please check if the format file is corrupted.
Bluetooth is not supported.	Please use a device that supports Bluetooth.
Wi-Fi is not supported.	Please use a device that supports Wi-Fi.
Bluetooth is not enabled.	Please enable Bluetooth.
Wi-Fi is not enabled.	Please enable Wi-Fi.
Printer is not selected.	Please set the printer settings of SmaPri Driver.
The printer is not paired with this device.	Please pair your device and printer.
Failed to connect to the printer. Check printer power.	Please check the settings of SmaPri Driver and perform a test print to see if you can connect to your printer.
Printer is not connected.	Please set the printer settings of SmaPri Driver.
Error occurred while transmitting data to printer.	An unexpected error has occurred when sending data. Please check the SmaPri Driver log.
Invalid status data is returned by the printer.	Please match the communication protocol with the printer.
There is no reply from the printer.	1. Please check whether the output destination printer address and communication protocol are set correctly in SmaPri Driver. 2. (If it occurs irregularly) Communication between the terminal and printer may be unstable. Please try printing to another device or printer and check if there are any problems with the device, printer, communication environment, etc.

Disconnected from the printer.	Please check if there is any problem with the communication environment with the printer.
NO PORT SET	Please set the printer settings of SmaPri Driver.
Unable to change port while connected to printer.	You cannot change the output destination while connected to a printer.
It was not able to start discovery of Bluetooth device, because it is in progress.	Please wait a moment and resend your request.
Failed to start discovery of Bluetooth device.	1. Please allow "location information" in SmaPri Driver's app permissions. 2. SmaPri Driver (Android) 1.19.0 or later, /Bluetooth/Discover requests do not work on Android 10, 11 due to OS limitations.
The bluetooth device can not be bonded.	Please check if the PIN code is correct.