

# Star Configuration Format

## Specifications Manual

Rev.NO. 2.02

STAR MICRONICS CO., LTD.  
Special Products Division

## Table of Contents

1. Star Configuration Format.....	6
1-1) Common specifications .....	6
1-2) List of JSON parameters.....	7
1-3) JSON parameter details.....	20
1-3-1) Common items .....	20
title.....	20
version.....	20
notification .....	21
print_when_completed_type.....	22
print_when_completed .....	22
1-3-2) Firmware update related items .....	23
firmwares[<num>] .....	23
firmwares[<num>].action.....	23
firmwares[<num>].device_name.....	24
firmwares[<num>].path_type .....	24
firmwares[<num>].path .....	25
firmwares[<num>].file_type .....	26
firmwares[<num>].print_type.....	26
firmwares[<num>].print_before_writing.....	26
firmwares[<num>].selftest_after_writing .....	27
1-3-3) Setting change related items .....	28
1-3-3-1) Common items .....	28
configurations[<num>] .....	28
configurations[<num>].device_name .....	28
configurations[<num>].print_type.....	28
configurations[<num>].print_before_writing .....	29
configurations[<num>].reset_settings_to_default .....	29
configurations[<num>].selftest_after_writing .....	29
1-3-3-2) Password related items .....	30
configurations[<num>].password_protected_settings.current_password .....	30
configurations[<num>].password_protected_settings.new_password .....	30
configurations[<num>].password_protected_settings.cloudprnt.service .....	30
configurations[<num>].password_protected_settings.cloudprnt.server_url.....	31
configurations[<num>].password_protected_settings.cloudprnt.polling_time .....	31
configurations[<num>].password_protected_settings.cloudprnt.user_name .....	31
configurations[<num>].password_protected_settings.cloudprnt.password.....	32
configurations[<num>].password_protected_settings.cloudprnt.https_trust_level .....	32
configurations[<num>].password_protected_settings.cloudprnt.https_trust_level_path_type .....	32
configurations[<num>].password_protected_settings.cloudprnt.https_trust_level_path .....	33
configurations[<num>].password_protected_settings.cloudprnt.ntp_server .....	33
configurations[<num>].password_protected_settings.cloudprnt.ntp_server_option .....	33
configurations[<num>].password_protected_settings.cloudprnt.cipher_suites_encryption_level.....	34
configurations[<num>].password_protected_settings.cloudprnt.use_tls_13.....	34
configurations[<num>].password_protected_settings.cloudprnt.http_response_timeout .....	34
configurations[<num>].password_protected_settings.cloudprnt.interface.network.target_device .....	35

configurations[<num>].password_protected_settings.interface.network.dns.dns1 .....	35
configurations[<num>].password_protected_settings.interface.network.dns.dns2 .....	35
1-3-3-3) Printer general settings .....	36
configurations[<num>].printer_control.media_type .....	36
configurations[<num>].printer_control.print_width .....	36
configurations[<num>].printer_control.reverse_printing .....	37
configurations[<num>].printer_control.print_startup_control .....	37
configurations[<num>].printer_control.print_speed .....	38
configurations[<num>].printer_control.print_density .....	38
configurations[<num>].printer_control.line_feed_amount .....	38
configurations[<num>].printer_control.processing_after_error_recovery .....	39
configurations[<num>].printer_control.cutter_operation .....	39
configurations[<num>].printer_control.cut_type .....	39
configurations[<num>].printer_control.top_margin .....	40
configurations[<num>].printer_control.spooler .....	40
1-3-3-4) Printer status related items .....	41
configurations[<num>].printer_status.asb.ethernet .....	41
configurations[<num>].printer_status.asb.bluetooth .....	41
configurations[<num>].printer_status.asb.usb_a .....	41
configurations[<num>].printer_status.asb.usb_b_c .....	42
configurations[<num>].printer_status.nsb.ethernet .....	42
configurations[<num>].printer_status.nsb.usb_b_c .....	42
1-3-3-5) Printer button related items .....	43
configurations[<num>].printer_button.multi_function_button .....	43
configurations[<num>].printer_button.power_button .....	43
configurations[<num>].printer_button.one_touch_label[<num>] .....	43
configurations[<num>].printer_button.one_touch_label[<num>].number .....	43
configurations[<num>].printer_button.one_touch_label[<num>].logo_keycode .....	44
configurations[<num>].printer_button.one_touch_label[<num>].cut_type .....	44
configurations[<num>].printer_button.feed_button .....	44
1-3-3-6) Printer sensor related items .....	45
configurations[<num>].printer_sensor.near_end .....	45
configurations[<num>].printer_sensor.top_search.control .....	45
configurations[<num>].printer_sensor.top_search.sensor .....	45
configurations[<num>].printer_sensor.top_search.power_on .....	46
configurations[<num>].printer_sensor.cover_close .....	46
configurations[<num>].printer_sensor.black_mark.mark_length_adjust .....	46
configurations[<num>].printer_sensor.black_mark.stop_position_adjust .....	47
configurations[<num>].printer_sensor.paper_taken.control .....	47
configurations[<num>].printer_sensor.paper_taken.timeout .....	47
configurations[<num>].printer_sensor.paper_taken.alarm .....	48
configurations[<num>].printer_sensor.paper_taken.status .....	48
configurations[<num>].printer_sensor.paper_taken.led .....	48
1-3-3-7) Reduced printing and paper saving related items .....	49
configurations[<num>].reduced_printing.horizontal_reduced_printing .....	49
configurations[<num>].reduced_printing.vertical_reduced_printing .....	49
configurations[<num>].reduced_printing.barcode_reduced_printing .....	49
configurations[<num>].reduced_printing.horizontal_paper_saving .....	50
configurations[<num>].reduced_printing.vertical_paper_saving .....	50
1-3-3-8) Interface related items .....	51
configurations[<num>].interface.general.interface_lock_timeout .....	51
configurations[<num>].interface.general.communication_detection .....	51
configurations[<num>].interface.bluetooth.device_name .....	51

configurations[<num>].interface.bluetooth.ios_port_name .....	51
configurations[<num>].interface.bluetooth.new_pairing .....	52
configurations[<num>].interface.bluetooth.auto_connection .....	52
configurations[<num>].interface.network.target_device .....	52
configurations[<num>].interface.network.dynamic.dhcp .....	53
configurations[<num>].interface.network.dynamic.dhcp_timeout .....	53
configurations[<num>].interface.network.static.ip_address .....	54
configurations[<num>].interface.network.static.subnet_mask .....	54
configurations[<num>].interface.network.static.default_gateway .....	54
configurations[<num>].interface.network.system_configurations.port9100 .....	54
configurations[<num>].interface.network.system_configurations.port9100_multi_session .....	55
configurations[<num>].interface.network.system_configurations.port9100_data_timeout .....	55
configurations[<num>].interface.network.system_configurations.port9101 .....	55
configurations[<num>].interface.network.system_configurations.udp22222 .....	56
configurations[<num>].interface.usb.usb_c_function .....	56
configurations[<num>].interface.usb.serial_number .....	56
configurations[<num>].interface.usb.serial_number_data .....	56
1-3-3-9) Printing character related items .....	57
configurations[<num>].character.character_code .....	57
configurations[<num>].character.special_region .....	57
configurations[<num>].character.international_character .....	58
configurations[<num>].character.large_font .....	58
configurations[<num>].character.code_page .....	59
configurations[<num>].character.zero_style .....	60
configurations[<num>].character.kanji_character_pitch .....	60
configurations[<num>].character.ank_character_pitch .....	60
1-3-3-10) Printer server related items .....	61
configurations[<num>].printer_server_tls.certificate .....	61
configurations[<num>].printer_server_tls.import_ca_signed_cert.certificate.path_type .....	61
configurations[<num>].printer_server_tls.import_ca_signed_cert.certificate.path .....	61
configurations[<num>].printer_server_tls.import_ca_signed_cert.private_key.path_type .....	62
configurations[<num>].printer_server_tls.import_ca_signed_cert.private_key.path .....	62
1-3-3-11) Sound related items .....	63
configurations[<num>].sound.error_sound_playback_function .....	63
1-3-3-12) SteadyLAN related items .....	64
configurations[<num>].steadylan.control .....	64
1-3-3-13) TetherLAN related items .....	65
configurations[<num>].tetherlan.control .....	65
configurations[<num>].maintenance.cleaning_notification_led .....	66
configurations[<num>].maintenance.cleaning_notification_print .....	66
configurations[<num>].maintenance.cleaning_notification_status .....	66
configurations[<num>].maintenance.replacement_notification_led .....	66
configurations[<num>].maintenance.replacement_notification_print .....	67
configurations[<num>].maintenance.replacement_notification_status .....	67
1-4) JSON sample .....	68
1-4-1) mC-Print2, 3 samples .....	68
1-4-2) mC-Label3 sample .....	69
2. Support status table by model .....	70

This document describes specifications for Star Configuration Format.

Star Configuration Format defines the printer firmware update method and setting changes.

When the printer reads the file described in Star Configuration Format, it executes firmware update and setting change in sequence according to the description.

The interfaces for the printer to read the Star Configuration Format file are as follows.

- USB memory
  - For details, refer to the "Procedure for Firmware Rewrite Using USB Memory."
- CloudPRNT
  - For details, refer to the "Star CloudPRNT Protocol Developer's Guide."
- Star Micronics Cloud Services (SMCS)
  - For details, refer to the "Device Manager API Reference."

Information contained herein applies to the following models.

<Name of applicable models>

- mPOP
- TSP100IIIU
- mC-Print2
- mC-Print3
- TSP100IV
- mC-Label3

For function support status for each model, refer to "2.Support status table by model".

## 1. Star Configuration Format

### 1-1) Common specifications

- Star Configuration Format shall be described in the JSON format.  
If there is an error in the JSON syntax, the firmware will not be updated or the settings will not be changed.
- For line breaks, both CRLF and LF are allowed.
- Multi-byte characters shall not be used.
- The key names shall be described in lowercase.  
If the required key is not described, the firmware will not be updated or the settings will not be changed.
- The key name string length shall be up to 63 single-byte characters. If this is exceeded, an error will occur and the firmware will not be updated or the settings will not be changed.
- Values are case sensitive. Null cannot be used.  
If the required key is not described correctly, the firmware will not be updated or the settings will not be changed.  
If the optional key is not described correctly, the key processing will be skipped. However, the subsequent key read process will continue.  
Use "¥n" for line breaks, "¥¥" for '¥', and "¥"" for "" (double quotation).
- The maximum length of a value is 511 single-byte characters or less unless otherwise specified.  
If this limit is exceeded in the required key item, the firmware will not be updated or the settings will not be changed.  
For the optional key items, the key processing will be skipped. However, the subsequent key read process will continue.
- The JSON format has no comment syntax. When adding a comment, add an '\_' (underscore) to the beginning of the key name.  
Even if "notification" is enabled, it will be excluded from notification print.  
Do not place the same key name more than once in the same hierarchy.  
The key name length shall be up to 63 single-byte characters. If this is exceeded, an error will result. There is no character limit for values.

## 1-2) List of JSON parameters

- The Ver. column indicates the version of the Star Configuration Format specifications in which each key is defined.
- In the REQ. column, ◎ indicates a required item, and ○ indicates a required item when a parent element exists.
- For details about keys and values, refer to 1-3) JSON parameter details.

Key	Type	Ver.	REQ.	Description
title	String	V1.1.0	◎	Fixed string "star_configuration"
version	String	V1.0.0	◎	Version of the Star Configuration Format specifications The version of this document is "1.4.1"
notification	String	V1.1.0		Whether to print notifications on JSON key/value skip and error expression "none": Do not print notifications "all": Print notifications
print_when_completed_type	String	V1.1.0		Method of notification print when firmware update or setting change is completed "none": Do not print notifications "ascii": Print notifications (ASCII code)
print_when_completed	String	V1.1.0		Content of notification print when firmware update or setting change is completed
firmwares	Array (Object)	V1.0.0		FirmwareObject array Content of F/W update is specified.
action	String	V1.0.0	○	F/W update operation "upgrade": Only standard F/W upgrade is executed. "force": All F/W upgrade/downgrade operations are executed.
device_name	String	V1.0.0	○	Target model name for F/W update
path_type	String	V1.0.0	○	F/W file acquisition method "url": Downloaded from the specified URL "path": Acquired from the specified path "cloud": Acquired from Star Micronics Cloud Services (SMCS)
path	String	V1.0.0	○	Detailed acquisition method specified by "path_type"
file_type	String	V1.2.0		File type specified by "path" "firmware": Firmware file "font": Font file
print_type	String	V1.0.0		Method of notification print before F/W update "none": Do not print notifications "ascii": Print notifications (ASCII code)
print_before_writing	String	V1.0.0		Content of notification print before F/W update

Key	Type	Ver.	REQ.	Description
selftest_after_writing	String	V1.0.0		Content of self-print after F/W update completion "none": Do not perform self-print "all": All items (MSW, Bluetooth, Network, Printer Settings) "msw": MSW information "bluetooth": Bluetooth information "network": Network information "printer": Printer settings information "printer_diff": Printer settings information (printed only when different from the factory settings) "version": Version information
configurations	Array (Object)	V1.3.0		ConfigurationObject array Content of configurations is specified.
device_name	String	V1.3.0	○	Target model name for setting change "all": All models "<device_name>": Specified model
print_type	String	V1.3.0		Method of notification print before setting change "none": Do not print notifications "ascii": Print notifications (ASCII code)
print_before_writing	String	V1.3.0		Content of notification print before setting change
reset_settings_to_default	String	V1.3.0		Before executing the setting change, the default factory settings are applied. "none": Do not restore the factory settings. "all": All settings are restored to the factory settings.
selftest_after_writing	String	V1.3.0		Content of self-print after setting change completion "none": Do not perform self-print "all": All items (MSW, Bluetooth, Network, Printer Settings) "msw": MSW information "bluetooth": Bluetooth information "network": Network information "printer": Printer settings information "printer_diff": Printer settings information (printed only when different from the factory settings) "version": Version information
password_protected_settings	Object	V1.3.0		PasswordProtectedObject Password protected setting items
current_password	String	V1.3.0	○	Login password for Web Configuration
new_password	String	V1.3.0		New login password for Web Configuration
cloudprnt	Object	V1.3.0		CloudPRNTOBJECT CloudPRNT setting items
service	String	V1.3.0		Enable/disable CloudPRNT "default": Factory setting "disabled": CloudPRNT disabled "enabled": CloudPRNT enabled

Key			Type	Ver.	REQ.	Description
		server_url	String	V1.3.0		CloudPRNT server URL "default": Factory setting Other: Specified URL
		polling_time	Integer	V1.3.0		Interval of polling to the CloudPRNT server Specified in seconds "-1": Factory setting "1 - 7200": Specified polling interval
		user_name	String	V1.3.0		Basic authentication user name "default": Factory setting Other: Specified user name
		password	String	V1.3.0		Basic authentication password "default": Factory setting Other: Specified password
		https_trust_level	String	V1.3.0		CA certificate used for HTTPS server authentication "default": Factory setting "list": Pre-installed CA certificate "custom": User-specified CA certificate "all": Skip verification of server certificates
		https_trust_level_path_type	String	V1.3.0		Acquisition method of certificate file when "custom" is specified in "https_trust_level" "url": Downloaded from the specified URL "path": Acquired from the specified path
		https_trust_level_path	String	V1.3.0		Detailed acquisition method specified by "https_trust_level_path_type"
		ntp_server	String	V1.3.0		Reference NTP server "default": Factory setting "star": Default NTP server "custom": User-specified NTP server
		ntp_server_option	String	V1.3.0		NTP server URL when "custom" is specified in "ntp_server" "default": Factory setting Other: Specified URL
		cipher_suites_encryptio_n_level	String	V1.3.0		Encryption level of TLS 1.2 Cipher Suite "default": Factory setting "high+medium": HIGH + MEDIUM "medium": MEDIUM
		use_tls_13	String	V1.3.0		Enable/disable TLS 1.3 in HTTPS communication "disabled": TLS 1.3 disabled "enabled": TLS 1.3 enabled "default": Factory setting "disabled": Disabled "enabled": Enabled
		http_response_timeout	String	V1.4.1		HTTP Response Timeout from the CloudPRNT server "default": Factory setting "10, 20, 30, 40, 50, 60": Specified HTTP Response Timeout (seconds)

<b>Key</b>		<b>Type</b>	<b>Ver.</b>	<b>REQ.</b>	<b>Description</b>
	interface		Object	V1.4.0	InterfaceObject Interface settings
	network		Array (Object)	V1.4.0	NetworkObject array Network settings
	target_device	String	V1.4.0	○	Target network "eth0": Wired LAN 0
	dns	Object	V1.4.0		DnsObject DNS settings
		dns1	String	V1.4.0	IP address of DNS server that is used first "default": Factory setting "0.0.0.0" to "255.255.255.255": Specified address
		dns2	String	V1.4.0	IP address of DNS server that is used next after dns1 "default": Factory setting "0.0.0.0" to "255.255.255.255": Specified address
	printer_control		Object	V1.3.0	PrinterControlObject Printer general settings
	media_type		String	V1.4.0	Type of paper that is used "default": Factory setting "linerless_label": Linerless label paper "die_cut_label": Die cut label paper "continuous_label": Continuous label paper "receipt": Thermal paper
	print_width		String	V1.3.0	Printing width "default": Factory setting "120" to "576" (units: 8 dots): Specified dots width "276": 276 dots "406": 406 dots "420": 420 dots "15mm" to "72mm": Specified mm width "34.5mm": 34.5mm width "50.8mm": 50.8mm width "52.5mm": 52.5mm width
	reverse_printing		String	V1.3.0	180° inversion "default": Factory setting "disabled": Disabled "enabled": Enabled
	print_startup_control		String	V1.3.0	Print startup control "default": Factory setting "page": Page units "line": Line units
	print_speed		String	V1.3.0	Print Speed "default": Factory setting "high": High speed "medium": Medium speed "low": Low speed

<b>Key</b>		<b>Type</b>	<b>Ver.</b>	<b>REQ.</b>	<b>Description</b>
	print_density	<i>String</i>	V1.3.0		Print density "default": Factory setting "standard": Standard density "0": Standard density "+1": One step darker than standard "+2": Two steps darker than standard "+3": Three steps darker than standard "+4": Four steps darker than standard "-1": One step lighter than standard "-2": Two steps lighter than standard "-3": Three steps lighter than standard
	line_feed_amount	<i>String</i>	V1.3.0		Amount of Line Feed "default": Factory setting "4mm": 4mm "3mm": 3mm
	processing_after_error_reco very	<i>String</i>	V1.3.0		Print data processing after recovery from an error "default": Factory setting "discard": Print data is discarded. "reprint": Reprint
	cutter_operation	<i>String</i>	V1.3.0		Cutter operation "default": Factory setting "enabled": Cutter operation enabled "no_cut_with_feed_to_cutter": Cutter drive disabled
	cut_type	<i>String</i>	V1.4.0		Cutting method "default": Factory setting "follow_command": Follows the command. "partial_cut": Partial cut at all times "full_cut": Full cut at all times
	top_margin	<i>String</i>	V1.3.0		Top margin "default": Factory setting "<number>mm": Specified value
	spooler	<i>String</i>	V1.4.0		Spooler "default": Factory setting "disabled": Disabled "enabled": Enabled
printer_status		<i>Object</i>	V1.3.0		PrinterStatusObject Printer status settings
asb		<i>Object</i>	V1.3.0		AsbObject ASB function settings
	ethernet	<i>String</i>	V1.3.0		ASB of Ethernet "default": Factory setting "disabled": Disabled "enabled": Enabled
	bluetooth	<i>String</i>	V1.3.0		ASB of Bluetooth "default": Factory setting "disabled": Disabled "enabled": Enabled

Key			Type	Ver.	REQ.	Description
		usb_a	String	V1.3.0		ABS of USB-A "default": Factory setting "disabled": Disabled "enabled": Enabled
		usb_b_c	String	V1.3.0		ABS of USB-B, USB-C "default": Factory setting "disabled": Disabled "enabled": Enabled
	nsb		Object	V1.3.0		NsbObject NSB function settings
		ethernet	String	V1.3.0		NSB of Ethernet "default": Factory setting "disabled": Disabled "enabled": Enabled
		usb_b_c	String	V1.3.0		NSB of USB-B, USB-C "default": Factory setting "disabled": Disabled "enabled": Enabled
	printer_button		Object	V1.3.0		PrinterButtonObject Printer button setting
	multi_function_button		String	V1.4.0		Function selection for multi-function button "default": Factory setting "none": None "feed_button": Paper feed "one_touch_label": One Touch Label
	feed_button		String	V1.3.0		Paper feed with the feed button "default": Factory setting "disabled": Disabled "enabled": Enabled
	one_touch_label		Array (Object)	V1.4.0		OneTouchLabelObject array One Touch Label content settings
	number		Integer	V1.4.0		1: One Touch Label 1 setting 2: One Touch Label 2 setting 3: One Touch Label 3 setting
	logo_keycode		String	V1.4.0		Key code of the logo that is printed when One Touch Label is executed (2-character string or "none") "default": Factory setting "none": None "XX" (X is specified character): Specified key code Example: "01" for key code "01"
	cut_type		String	V1.4.0		Operation after logo printing "default": Factory setting "none": None "partial_cut": Partial cut "full_cut": Full cut

<b>Key</b>		<b>Type</b>	<b>Ver.</b>	<b>REQ.</b>	<b>Description</b>
	power_button	<i>String</i>	V1.3.0		Power off with the power button "default": Factory setting "disabled": Disabled "enabled": Enabled
	printer_sensor	<i>Object</i>	V1.3.0		PrinterSensorObject Printer sensor setting
	near_end	<i>String</i>	V1.3.0		Sensing remaining amount of paper with the near end sensor "default": Factory setting "disabled": Disabled "enabled": Enabled
	top_search	<i>Object</i>	V1.4.0		TopSearchObject Paper top detection settings
	control	<i>String</i>	V1.4.0		Paper top detection control "default": Factory setting "disabled": Disabled "enabled": Enabled
	sensor	<i>String</i>	V1.4.0		Sensor used for paper top detection "default": Factory setting "black_mark": Black mark sensor "gap": Gap sensor
	power_on	<i>String</i>	V1.4.0		Operation when power is turned ON during paper top detection control "default": Factory setting "keep": Do nothing "feed": Top search "feed_cut": Top search and cut
	cover_close	<i>String</i>	V1.4.0		Operation when cover is closed during paper top detection control "default": Factory setting "feed": Top search "feed_cut": Top search and cut
	black_mark	<i>Object</i>	V1.4.0		BlackMarkObject Black mark control settings
	mark_length_adjust	<i>String</i>	V1.4.0		Amount of black mark length adjustment during paper top detection control using the black mark sensor "default": Factory setting "0mm": No correction "1mm" to "15mm": Specified length is added to the standard value.

Key			Type	Ver.	REQ.	Description
stop_position_adjust			String	V1.4.0		Amount of cut position adjustment during paper top detection control using the black mark sensor "default": Factory setting "0mm": No correction "-10.0mm" to "-0.5mm" (units: 0.5 mm): Moves in front of the mark by the specified distance. "0.5mm" to "1023.5mm" (units: 0.5 mm): Moves beyond the mark by the specified distance.
paper_taken			Object	V1.4.0		PaperTakenObject Hold print sensor settings
control			String	V1.4.0		Hold print control "default": Factory setting "disabled": Disabled "enabled": Enabled
timeout			String	V1.4.0		Hold print time "default": Factory setting "none": No timeout "5min": 5 minutes "10min": 10 minutes "30min": 30 minutes
alarm			String	V1.4.0		Buzzer sounding during hold print "default": Factory setting "disabled": Disabled "enabled": Enabled
status			String	V1.4.0		The hold print sensor state is continually applied to the status. "default": Factory setting "disabled": Disabled "enabled": Enabled
led			String	V1.4.0		LED indication of printing backlog status resulting from hold print control "default": Factory setting "disabled": Disabled "enabled": Enabled
reduced_printing			Object	V1.3.0		ReducedPrintingObject Reduced printing and paper saving settings
horizontal_reduced_printing			String	V1.3.0		Horizontal Reduced Printing "default": Factory setting "disabled": Disabled "67%": Enabled (67%)
vertical_reduced_printing			String	V1.3.0		Vertical reduced printing "default": Factory setting "disabled": Disabled "50%": Enabled (50%) "75%": Enabled (75%)

<b>Key</b>		<b>Type</b>	<b>Ver.</b>	<b>REQ.</b>	<b>Description</b>
	barcode_reduced_printing	<i>String</i>	V1.3.0		Applying reduced printing to barcodes during reduced printing "default": Factory setting "disabled": Not applied "enabled": Applied
	horizontal_paper_saving	<i>String</i>	V1.3.0		Horizontal paper saving "default": Factory setting "disabled": Disabled "enabled": Enabled
	vertical_paper_saving	<i>String</i>	V1.3.0		Vertical paper saving "default": Factory setting "disabled": Disabled "enabled": Enabled
	interface	<i>Object</i>	V1.3.0		InterfaceObject Interface settings
	general	<i>Object</i>	V1.3.0		GeneralObject General interface settings
	interface_lock_timeout	<i>String</i>	V1.3.0		I/F switching wait time, specified in seconds "default": Factory setting "<number>": Specified time
	communication_detection	<i>String</i>	V1.3.0		Detect communication connection status "default": Factory setting "disabled": Disabled "enabled": Enabled
	bluetooth	<i>Object</i>	V1.4.0		BluetoothObject Bluetooth settings
	device_name	<i>String</i>	V1.4.0		Device name "default": Factory setting Other: Specified device name
	ios_port_name	<i>String</i>	V1.4.0		Port name in iOS "default": Factory setting Other: Specified port name
	new_pairing	<i>String</i>	V1.4.0		New pairing "default": Factory setting "disabled": Disabled "enabled": Enabled
	auto_connection	<i>String</i>	V1.4.0		Auto connection function in iOS "default": Factory setting "disabled": Disabled "enabled": Enabled
	network	<i>Array (Object)</i>	V1.4.0		NetworkObject array Network settings
	target_device	<i>String</i>	V1.4.0	○	Target network "eth0": Wired LAN 0
	dynamic	<i>Object</i>	V1.4.0		DynamicIpAddressObject IP address automatic acquisition (DHCP) setting

Key			Type	Ver.	REQ.	Description
		dhcp	String	V1.4.0		IP address automatic acquisition (DHCP) "default": Factory setting "disabled": Disabled "enabled": Enabled
			String	V1.4.0		"default": Factory setting "disabled": Disabled "enabled": Enabled
	static	ip_address	String	V1.4.0		StaticIpaddressObject Static IP address setting
			String	V1.4.0		IP Address "default": Factory setting "0.0.0.0" to "255.255.255.255": Specified address
		subnet_mask	String	V1.4.0		Subnet Mask "default": Factory setting "0.0.0.0" to "255.255.255.255": Specified mask
		default_gateway	String	V1.4.0		Default Gateway "default": Factory setting "0.0.0.0" to "255.255.255.255": Specified address
		system_configurations	Object	V1.4.0		SystemConfigurationsObject Network general system settings
		port9100	String	V1.4.0		Print function at TCP/IP port 9100 "default": Factory setting "disabled": Disabled "enabled": Enabled
		port9100_multi_session	String	V1.4.0		Multi-session for printing at TCP/IP port 9100 "default": Factory setting "disabled": Disabled "enabled": Enabled
		port9100_data_timeout	String	V1.4.0		Timeout time (units: seconds) for printing at TCP/IP port 9100 "default": Factory setting "0": No timeout "30", "40", "60", "120", "180", "300": Specified time
		port9101	String	V1.4.0		TCP/IP port 9101 "default": Factory setting "disabled": Disabled "enabled": Enabled
		udp22222	String	V1.4.0		UDP/IP port 22222 "default": Factory setting "disabled": Disabled "enabled": Enabled
	usb	usb_c_function	Object	V1.3.0		UsbObject USB settings
			String	V1.3.0		USB-C function "default": Factory setting "power_communication": Power supply + communication "power": Power supply only "communication": Communication only
		serial_number	String	V1.3.0		USB serial number function "default": Factory setting "disabled": Disabled "enabled": Enabled

Key			Type	Ver.	REQ.	Description
			serial_number_data	String	V1.4.0	USB serial number "default": Factory setting 8 or 16 one-byte uppercase alphanumeric characters: Specified serial number
character			Object	V1.3.0		CharacterObject Printing character settings
			character_code	String	V1.3.0	Character Code "default": Factory setting "none": Single-byte characters "gb2312": Simplified Chinese (GB2312) "gb18030": Simplified Chinese (GB18030) "big5": Traditional Chinese (BIG5) "shift_jis": Japanese characters (SHIFT_JIS Kanji Character Mode)
special_region			String	V1.3.0		Special location of use "default": Factory setting "standard": Standard "thai": Thailand
international_character			String	V1.3.0		International characters "default": Factory setting "<international character>": Specified international characters
large_font			String	V1.3.0		Large font usage "default": Factory setting "disabled": Disabled "enabled": Enabled
code_page			String	V1.3.0		Code page "default": Factory setting "<code page>": Specified code page
zero_style			String	V1.3.0		Zero character format "default": Factory setting "normal": Normal (not slashed) "slashed": Slashed zero
kanji_character_pitch			String	V1.3.0		Character spacing of double-byte characters "default": Factory setting "standard": Standard "wide": Wide
ank_character_pitch			String	V1.3.0		Character spacing of single-byte characters "default": Factory setting "standard": Standard "wide": Wide
printer_server_tls			Object	V1.4.0		PrinterServerObject Settings related to server functions
	certificate		String	V1.4.0		Certificate type "default": Factory setting "self_signed": Self signed certificate "ca_signed": CA signed certificate
	import_ca_signed_cert		Object	V1.4.0		ImportantCaObject Settings related to CA signed certificates

Key			Type	Ver.	REQ.	Description		
certificate			Object	V1.4.0		CertificateObject Settings related to CA signed certificates		
			String	V1.4.0		Method for acquisition of CA signed certificate "url": Downloaded from the specified URL "path": Acquired from the specified path		
			String	V1.4.0		Detailed acquisition method specified by "path_type"		
private_key		Object	V1.4.0		PrivateKeyObject Settings related to private key			
		String	V1.4.0		Method for acquisition of private key file "url": Downloaded from the specified URL "path": Acquired from the specified path			
		String	V1.4.0		Detailed acquisition method specified by "path_type"			
sound		Object	V1.3.0		SoundObject Sound setting			
error_sound_playback_function		String	V1.3.0		Melody speaker error sound playback function "default": Factory setting "disabled": Disabled "enabled": Enabled			
steadylan		Object	V1.4.0		SteadyLanObject SteadyLan setting			
control		String	V1.4.0		SteadyLAN function "default": Factory setting "disabled": Disabled "enabled": Enabled			
		tetherlan			Object	V1.4.0		TetherLanObject TetherLan setting
					String	V1.4.0		TetherLAN function "default": Factory setting "disabled": Disabled "enabled": Enabled. However cannot be enabled at same time as SteadyLan.
					Object	V1.4.0		MaintenanceObject Maintenance settings
					String	V1.4.0		Parts cleaning LED notification function "default": Factory setting "disabled": Disabled "enabled": Enabled
		maintenance			String	V1.4.0		Parts cleaning print notification function "default": Factory setting "disabled": Disabled "enabled": Enabled
					String	V1.4.0		Application of parts cleaning notification to status "default": Factory setting "disabled": Disabled "enabled": Enabled

<b>Key</b>		<b>Type</b>	<b>Ver.</b>	<b>REQ.</b>	<b>Description</b>
	replacement_notification_led	<i>String</i>	V1.4.0		Parts replacement LED notification function "default": Factory setting "disabled": Disabled "enabled": Enabled
	replacement_notification_pri nt	<i>String</i>	V1.4.0		Parts replacement print notification function "default": Factory setting "disabled": Disabled "enabled": Enabled
	replacement_notification_sta tus	<i>String</i>	V1.4.0		Application of parts replacement notification to status "default": Factory setting "disabled": Disabled "enabled": Enabled

## 1-3) JSON parameter details

### 1-3-1) Common items

#### title

[Type]	String
[Description]	Fixed string "star_configuration" shall be specified. If this is not specified, a Star Configuration file error occurs. In such a case, the file reading process will be skipped and the firmware update/setting change will not be executed.
[Key]	Required
[Value]	Fixed string "star_configuration"

#### version

[Type]	String
[Description]	The version of Star Configuration Format is specified. In this document, "1.4.1" is specified. If this is not specified, a Star Configuration file error occurs. In such a case, the file reading process will be skipped and the firmware update/setting change will not be executed.
[Key]	Required
[Value]	"<Major Version>.<Minor Version>.<Revision>" [e.g: "1.4.1"]

## notification

[Type]	String
[Description]	Whether to print notifications on JSON key/value skip and error expression during reading process of Star Configuration Format is specified.
[Key]	Optional (When omitted, value = "none")
[Value]	

value	Description
"none"	If there is any JSON key/value skip or error expression, the content is not printed.
"all"	<p>If there is any JSON key/value skip or error expression, the content is printed.      Whether the file read by the printer conforms to Star Configuration Format can be checked.</p> <ul style="list-style-type: none"> <li>• Notification print content if there is an error in the required key  <code>"&lt;Key&gt;"</code>  <b>KEY ERROR</b></li> <li>• Notification print content if the value of the required key is not correct  <code>"&lt;Key&gt;": "&lt;Value&gt;"</code>  <b>VALUE ERROR</b></li> <li>• Notification print content if there is any unsupported key  <code>"&lt;Key&gt;"</code>  <b>KEY SKIPPED</b></li> <li>• Notification print content if the value of the optional key is not correct  <code>"&lt;Key&gt;": "&lt;Value&gt;"</code>  <b>VALUE SKIPPED</b></li> <li>• Notification print content if the key string exceeds 63 characters  <code>"&lt;Key&gt;"</code>  <b>KEY LENGTH ERROR</b></li> <li>• Notification print content if the value string of the required key exceed the maximum length  <code>"&lt;Key&gt;": "&lt;Value&gt;"</code>  <b>VALUE LENGTH ERROR</b></li> <li>• Notification print content if the value string of the optional key exceed the maximum length  <code>"&lt;Key&gt;": "&lt;Value&gt;"</code>  <b>VALUE LENGTH SKIPED</b></li> <li>• Notification content when a firmware update or setting change fails (undefined error) even though the key/value is correct.  <b>UNDEFINED ERROR</b></li> </ul> <p>The main causes of undefined errors are as follows.</p> <ul style="list-style-type: none"> <li>- Firmware acquisition failed.</li> <li>- There are five or more objects related to firmware update.</li> <li>- The firmware data for another model is specified by key "path."</li> <li>- The file specified by key "path" is not firmware data.</li> <li>- There is an error in the specification of key "file_type."</li> <li>- Old firmware or custom firmware update is specified with value "upgrade" specified for key "action."</li> <li>- There are multiple objects related to setting change, and the value of key "device_name" is duplicated.</li> </ul>

### print\_when\_completed\_type

[Type] String  
[Description] Method of notification print when firmware update or setting change is completed is specified.  
[Key] Optional (When omitted, value = "none")  
[Value]

value	Description
"none"	Notification is not printed.
"ascii"	Notification is printed. Print content is specified by ASCII code. The actual print content is specified in key "print_when_completed." The characters that can be specified for "print_when_completed" are ASCII characters 0x20 to 0x7E. The maximum number of characters is 511.

[Related item] [print\\_when\\_completed](#)

### print\_when\_completed

[Type] String  
[Description] Actual content to be printed when firmware update or setting change is completed is specified.  
If the device restarts multiple times during the setting change, it is printed only after the last restart. If printing is not possible because the device is out of paper or the cover is open, this process is skipped.  
[Key] Optional  
[Value] Print content when completed.  
[Related item] [print\\_when\\_completed\\_type](#)

### 1-3-2) Firmware update related items

#### firmwares[<num>]

[Type]	Array (object)
[Description]	Information about the firmware update function is described in an array of <i>FirmwareObject</i> . When providing the firmware update function for multiple models, prepare <i>FirmwareObject</i> as many as the number of models and specify the target model name in "device_name." When providing multiple firmware update functions for the same model, prepare <i>FirmwareObject</i> as many as the number of pieces of firmware to be updated, specify the model name in "device_name," and specify the file type in "file_type." For the processing under "firmwares", the "configurations" process is performed first regardless of the order listed in json.
[Note]	When the processing under "firmwares" is performed, the values below "configurations" in the json file are not affected.

#### firmwares[<num>].action

[Type]	String
[Description]	Firmware update action is specified.
[Key]	Required when a parent element exists
[Value]	

value	Action											
"upgrade"	Standard firmware version can be upgraded. - Downgrading the version is not possible. - Upgrading the version from a custom firmware is not possible. A Star Configuration parameter error occurs. - Application of a custom firmware is not possible. A Star Configuration parameter error occurs.											
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Current F/W</th> <th>Upgrade (from old to new)</th> <th>Downgrade (from new to old)</th> </tr> </thead> <tbody> <tr> <td>Starndard F/W</td> <td>Possible</td> <td>Not possible</td> </tr> <tr> <td>Custom F/W</td> <td>Not possible</td> <td>Not possible</td> </tr> </tbody> </table>			Current F/W	Upgrade (from old to new)	Downgrade (from new to old)	Starndard F/W	Possible	Not possible	Custom F/W	Not possible	Not possible
Current F/W	Upgrade (from old to new)	Downgrade (from new to old)										
Starndard F/W	Possible	Not possible										
Custom F/W	Not possible	Not possible										
"force"	Downgrading and upgrading of all firmware versions are possible. - Both standard and custom firmware can be updated freely.											
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Current F/W</th> <th>Upgrade (from old to new)</th> <th>Downgrade (from new to old)</th> </tr> </thead> <tbody> <tr> <td>Starndard F/W</td> <td>Possible</td> <td>Possible</td> </tr> <tr> <td>Custom F/W</td> <td>Possible</td> <td>Possible</td> </tr> </tbody> </table>			Current F/W	Upgrade (from old to new)	Downgrade (from new to old)	Starndard F/W	Possible	Possible	Custom F/W	Possible	Possible
Current F/W	Upgrade (from old to new)	Downgrade (from new to old)										
Starndard F/W	Possible	Possible										
Custom F/W	Possible	Possible										

### **firmwares[<num>].device\_name**

[Type] String  
[Description] Target model name for the firmware update is specified.  
For custom firmware, the base model name is specified.  
[Key] Required when a parent element exists  
[Value]

value	Target model name
"mPOP"	mPOP series
"TSP100IIIU"	TSP100III USB model
"mC-Print2"	mC-Print2 series
"mC-Print3"	mC-Print3 series
"TSP100IV"	TSP100IV series
"mC-Label3"	mC-Label3 series

### **firmwares[<num>].path\_type**

[Type] String  
[Description] Acquisition method of firmware file is specified.  
When an incorrect value is specified, a Star Configuration parameter error occurs.  
[Key] Required when a parent element exists  
[Value]

value	Acquisition method
"url"	Downloaded from the specified URL
"path"	Acquired from the specified path
"cloud"	Acquired from Star Micronics Cloud Services (SMCS)

[Related item]

firmwares[<num>].path

[Note]

For supported values for each model, refer to "2.Support status table by model".

## **firmwares[<num>].path**

[Type] String

[Description] Details of the acquisition method specified by "path\_type" are specified.

When a parent element exists and this is not specified, or when the specified file does not exist, a Star Configuration parameter error occurs.

When the specified file exists but is damaged, a Star Configuration specified file error occurs.

[Key] Required when a parent element exists

[Value]

path_type	path value
"url"	<p>Specify the download URL that starts with "http://" or "https://".</p> <p>Example: "https://www.hoge.com/fw_files/mC-Print3_V36(MAIN).mot"</p> <p>Notes 1) The printer divides and downloads the firmware data. The download server must support the Range header (RFC 7233).</p> <p>Notes 2) Reserved characters such as '#' (number sign) cannot be used in the URL. To use them, percent-encoding is required.</p> <p>Notes 3) When specifying a path of a firmware file stored in a cloud storage, perform sufficient evaluation and operation check. Depending on the type of cloud storage, the firmware may not be downloaded and rewriting may fail.</p>
"path"	<p>The relative path from the folder where the Star Configuration Format file is located is specified.</p> <p>Both '/' and '\' are allowed as folder delimiters.</p> <p>Example: "/fw_files\mC-Print3_V36(MAIN).mot"</p>
"cloud"	<p>The file name and password are specified in the following format.</p> <p>?file=&lt;filename&gt;&amp;password=&lt;password&gt;</p> <p>Example: "?file=mC-Print3_V36(MAIN).mot&amp;password=1234"</p> <p>If a file that does not have a password is selected, specify it as follows.</p> <p>?file=&lt;filename&gt;</p> <p>Example: "?file=mC-Print3_V36(MAIN).mot"</p>

[Related item] firmwares[<num>].path\_type

firmwares[<num>].file\_type

### **firmwares[<num>].file\_type**

[Type] String  
[Description] File type specified by "path" is specified.  
[Key] Optional (When omitted, value = "firmware")  
[Value]

value	File type
"firmware"	Firmware file (Main, Boot, or Power Delivery file, or a combination of these files)
"font"	Font file

[Related item] firmwares[<num>].path

### **firmwares[<num>].print\_type**

[Type] String  
[Description] The method of notification print before executing the firmware update is specified.  
[Key] Optional (When omitted, value = "none")  
[Value]

value	Description
"none"	Notification is not printed.
"ascii"	Notification is printed. Print content is specified by ASCII code. The actual print content is specified in key "print_before_writing." The characters that can be specified for "print_before_writing" are ASCII characters 0x20 to 0x7E. The maximum number of characters is 511.

[Related item] firmwares[<num>].print\_before\_writing

### **firmwares[<num>].print\_before\_writing**

[Type] String  
[Description] Actual content to be printed before executing the firmware update is specified.  
If printing is not possible because the device is out of paper or the cover is open, this process is skipped and the next process is performed.  
[Key]  
[Value] Content of notification print before executing the firmware update  
[Related item] firmwares[<num>].print\_type

### **firmwares[<num>].selftest\_after\_writing**

[Type] String

[Description] Self-print content after the firmware update completion is specified.

Executed only when the firmware update is successful.

[Key] Optional (When omitted, value = "none")

[Value]

value	Self-print content
"none"	No self-print
"all"	All items (version information (printed only when different from the factory settings), MSW, Bluetooth, Network, printer settings information)
"msw"	MSW information (printer information)
"bluetooth"	Bluetooth information (for models equipped with Bluetooth)
"network"	Network information (for models equipped with LAN)
"printer"	Printer settings information
"printer_diff"	Printer settings information (printed only when different from the factory settings)
"version"	Version information

[Note] Only the self-print contents supported by the printer can be set. For the supported self-print contents, refer to the product specifications manual.  
When "firmwares" and "configurations" are listed in the same json file, and when printing printer settings information at the corresponding key process, the setting values below "configurations" which have not been applied are printed. (Refer to the "firmwares" note.)

### 1-3-3) Setting change related items

#### 1-3-3-1) Common items

##### configurations[<num>]

[Type] Array (object)  
[Description]

Information about the setting change is described in an array of *ConfigurationObject*. When providing the printer setting change for multiple models, specify the target models in "device\_name."

##### configurations[<num>].device\_name

[Type] String  
[Description] Target model name for the setting change is specified.  
[Key]  
[Value]

value	Target model name
"all"	All models
"mC-Print2"	mC-Print2 series
"mC-Print3"	mC-Print3 series
"TSP100IV"	TSP100IV series
"mC-Label3"	mC-Label3 series

- Notes 1) When "all" is specified, the setting change is applied to all models.  
Notes 2) If both "all" and a specific model (e.g. mC-Print3) are specified, the settings for "all" are read first. Then, the settings overwritten by the settings for the specific model are applied.  
Notes 3) Setting target including "all" must not be overlapped. A Star Configuration parameter error occurs.

##### configurations[<num>].print\_type

[Type] String  
[Description] The method of notification print before executing the setting change is specified.  
[Key]  
[Value]

value	Description
"none"	Notification is not printed.
"ascii"	Notification is printed. Print content is specified by ASCII code. The actual print content is specified in key "print_before_writing." The characters that can be specified for "print_before_writing" are ASCII characters 0x20 to 0x7E. The maximum number of characters is 511.

[Related item] configurations[<num>].print\_before\_writing

### configurations[<num>].print\_before\_writing

[Type]	String
[Description]	Actual content to be printed before executing the setting change is specified. If printing is not possible because the device is out of paper or the cover is open, this process is skipped and the next process is performed.
[Key]	Optional
[Value]	Content of notification print before executing the setting change
[Related item]	configurations[<num>].print_type

### configurations[<num>].reset\_settings\_to\_default

[Type]	String						
[Description]	Whether to apply the default factory settings before executing setting change is specified.						
[Key]	Optional (When omitted, value = "none")						
[Value]	<table border="1"><thead><tr><th>value</th><th>Reset to default</th></tr></thead><tbody><tr><td>"none"</td><td>No Not restored to default.</td></tr><tr><td>"all"</td><td>Yes All settings are restored to default.</td></tr></tbody></table>	value	Reset to default	"none"	No Not restored to default.	"all"	Yes All settings are restored to default.
value	Reset to default						
"none"	No Not restored to default.						
"all"	Yes All settings are restored to default.						

### configurations[<num>].selftest\_after\_writing

[Type]	String																		
[Description]	Self-print content after the setting change completion is specified.																		
[Key]	Optional (When omitted, value = "none")																		
[Value]	<table border="1"><thead><tr><th>value</th><th>Self-print content</th></tr></thead><tbody><tr><td>"none"</td><td>No self-print</td></tr><tr><td>"all"</td><td>All items (version information (printed only when different from the factory settings), MSW, Bluetooth, Network, printer settings information)</td></tr><tr><td>"msw"</td><td>MSW information (printer information)</td></tr><tr><td>"bluetooth"</td><td>Bluetooth information (for models equipped with Bluetooth)</td></tr><tr><td>"network"</td><td>Network information (for models equipped with LAN)</td></tr><tr><td>"printer"</td><td>Printer settings information</td></tr><tr><td>"printer_diff"</td><td>Printer settings information (printed only when different from the factory settings)</td></tr><tr><td>"version"</td><td>Version information</td></tr></tbody></table>	value	Self-print content	"none"	No self-print	"all"	All items (version information (printed only when different from the factory settings), MSW, Bluetooth, Network, printer settings information)	"msw"	MSW information (printer information)	"bluetooth"	Bluetooth information (for models equipped with Bluetooth)	"network"	Network information (for models equipped with LAN)	"printer"	Printer settings information	"printer_diff"	Printer settings information (printed only when different from the factory settings)	"version"	Version information
value	Self-print content																		
"none"	No self-print																		
"all"	All items (version information (printed only when different from the factory settings), MSW, Bluetooth, Network, printer settings information)																		
"msw"	MSW information (printer information)																		
"bluetooth"	Bluetooth information (for models equipped with Bluetooth)																		
"network"	Network information (for models equipped with LAN)																		
"printer"	Printer settings information																		
"printer_diff"	Printer settings information (printed only when different from the factory settings)																		
"version"	Version information																		

[Note] Only the self-print contents supported by the printer can be set.  
For the supported self-print contents, refer to the product specifications manual.

### **1-3-3-2) Password related items**

#### **configurations[<num>].password\_protected\_settings.current\_password**

[Type]	String
[Description]	The login password for Web Configuration is specified. Specification of this key is required if the setting items under "password_protected_settings" are changed. If the login password is the default, some items cannot be changed, and a Star Configuration password-not-changed error occurs. In this case, a new password must be specified by "new_password." When the password is incorrect, a Star Configuration password mismatch error occurs.
[Key]	Required when a parent element exists
[Value]	Current password
[Related item]	configurations[<num>].password_protected_settings.new_password, Settings below configurations[<num>].password_protected_settings

#### **configurations[<num>].password\_protected\_settings.new\_password**

[Type]	String
[Description]	The login password for Web Configuration is changed. Applied only when the correct value is set for "current_password" at the same time.
[Key]	Optional
[Value]	New password or "default" (factory setting)
[Related item]	configurations[<num>].password_protected_settings.current_password

#### **configurations[<num>].password\_protected\_settings.cloudprnt.service**

[Type]	String								
[Description]	Whether to enable or disable the CloudPRNT client function is specified.								
[Key]	Optional								
[Value]	<table border="1"><thead><tr><th>value</th><th>Setting value</th></tr></thead><tbody><tr><td>"disabled"</td><td>Factory setting</td></tr><tr><td>"disabled"</td><td>CloudPRNT is disabled.</td></tr><tr><td>"enabled"</td><td>CloudPRNT is enabled.</td></tr></tbody></table>	value	Setting value	"disabled"	Factory setting	"disabled"	CloudPRNT is disabled.	"enabled"	CloudPRNT is enabled.
value	Setting value								
"disabled"	Factory setting								
"disabled"	CloudPRNT is disabled.								
"enabled"	CloudPRNT is enabled.								
[Related item]	configurations[<num>].password_protected_settings.current_password								

**configurations[<num>].password\_protected\_settings.cloudprnt.server\_url**

[Type]	String
[Description]	The CloudPRNT server URL is specified. The maximum number of characters is 511 single-byte characters.
[Key]	Optional
[Value]	Server URL that starts with "http://" or "https://", or "default" (factory setting).
[Related item]	configurations[<num>].password_protected_settings.current_password

**configurations[<num>].password\_protected\_settings.cloudprnt.polling\_time**

[Type]	Integer						
[Description]	The interval of polling to the CloudPRNT server is specified. Specified in seconds. The minimum allowable value is 1 second, and the maximum value is 7,200 seconds.						
[Key]	Optional						
[Value]	<table border="1"><thead><tr><th>value</th><th>Polling interval</th></tr></thead><tbody><tr><td>"-1"</td><td>Factory setting</td></tr><tr><td>"1 to 7200"</td><td>Specified polling interval (seconds)</td></tr></tbody></table>	value	Polling interval	"-1"	Factory setting	"1 to 7200"	Specified polling interval (seconds)
value	Polling interval						
"-1"	Factory setting						
"1 to 7200"	Specified polling interval (seconds)						
[Related item]	configurations[<num>].password_protected_settings.current_password						

**configurations[<num>].password\_protected\_settings.cloudprnt.user\_name**

[Type]	String
[Description]	If the server supports the basic authentication, the user name is specified. The maximum number of characters is 63 single-byte characters.
[Key]	Optional
[Value]	Basic authentication user name or "default" (factory setting)
[Related item]	configurations[<num>].password_protected_settings.current_password, configurations[<num>].password_protected_settings.cloudprnt.password

### configurations[<num>].password\_protected\_settings.cloudprnt.password

[Type]	String
[Description]	If the server supports the basic authentication, the password is specified. The maximum number of characters is 63 single-byte characters.
[Key]	Optional
[Value]	Basic authentication password or "default" (factory setting)
[Related item]	configurations[<num>].password_protected_settings.current_password, configurations[<num>].password_protected_settings.cloudprnt.user_name

### configurations[<num>].password\_protected\_settings.cloudprnt.https\_trust\_level

[Type]	String										
[Description]	When connecting to the CloudPRNT server via HTTPS, the CA certificate used for server authentication is specified.										
[Key]	Optional										
[Value]	<table border="1"><thead><tr><th>value</th><th>CA certificate used</th></tr></thead><tbody><tr><td>"default"</td><td>Factory setting</td></tr><tr><td>"list"</td><td>Pre-installed CA certificate of the device</td></tr><tr><td>"custom"</td><td>User-specified custom CA certificate The custom CA certificate is specified by "https_trust_level_path_type" and "https_trust_level_path."</td></tr><tr><td>"all"</td><td>Verification of server certificate is skipped. This setting is not secure.</td></tr></tbody></table>	value	CA certificate used	"default"	Factory setting	"list"	Pre-installed CA certificate of the device	"custom"	User-specified custom CA certificate The custom CA certificate is specified by "https_trust_level_path_type" and "https_trust_level_path."	"all"	Verification of server certificate is skipped. This setting is not secure.
value	CA certificate used										
"default"	Factory setting										
"list"	Pre-installed CA certificate of the device										
"custom"	User-specified custom CA certificate The custom CA certificate is specified by "https_trust_level_path_type" and "https_trust_level_path."										
"all"	Verification of server certificate is skipped. This setting is not secure.										
[Related item]	configurations[<num>].password_protected_settings.current_password, configurations[<num>].password_protected_settings.cloudprnt.https_trust_level_path_type, configurations[<num>].password_protected_settings.cloudprnt.https_trust_level_path										

### configurations[<num>].password\_protected\_settings.cloudprnt.https\_trust\_level\_path\_type

[Type]	String						
[Description]	The acquisition method of user-specified custom CA certificate file is specified.						
[Key]	Optional						
[Value]	<table border="1"><thead><tr><th>value</th><th>Acquisition method</th></tr></thead><tbody><tr><td>"url"</td><td>Downloaded from the specified URL</td></tr><tr><td>"path"</td><td>Acquired from the specified path</td></tr></tbody></table>	value	Acquisition method	"url"	Downloaded from the specified URL	"path"	Acquired from the specified path
value	Acquisition method						
"url"	Downloaded from the specified URL						
"path"	Acquired from the specified path						

[Related item]	configurations[<num>].password_protected_settings.current_password, configurations[<num>].password_protected_settings.cloudprnt.https_trust_level, configurations[<num>].password_protected_settings.cloudprnt.https_trust_level_path
[Note]	For supported values for each model, refer to "2.Support status table by model".

### configurations[<num>].password\_protected\_settings.cloudprnt.https\_trust\_level\_path

[Type] String

[Description] The detailed acquisition method specified by "https\_trust\_level\_path\_type" is specified.

[Key] Optional

[Value]

https_trust_level_path_type	https_trust_level_path value
"url"	Specify the download URL that starts with "http://" or "https://". Example: "https://www.hoge.com/ca_files/cacerts.crt"  Note) Reserved characters such as '#' (number sign) cannot be used in the URL. To use them, percent-encoding is required.
"path"	The relative path from the folder where the Star Configuration Format file is located is specified. Both '/' and '¥' are allowed as folder delimiters. Example: "/ca_files¥¥cacerts.crt"

[Related item]

configurations[<num>].password\_protected\_settings.current\_password,  
configurations[<num>].password\_protected\_settings.cloudprnt.https\_trust\_level,  
configurations[<num>].password\_protected\_settings.cloudprnt.https\_trust\_level\_path\_type

### configurations[<num>].password\_protected\_settings.cloudprnt.ntp\_server

[Type] String

[Description] The reference NTP server is specified.

[Key] Optional

[Value]

value	NTP server type
"default"	Factory setting
"star"	Default NTP server
"custom"	User-specified NTP server Specify the NTP server URL in "ntp_server_option."

[Related item]

configurations[<num>].password\_protected\_settings.current\_password,  
configurations[<num>].password\_protected\_settings.cloudprnt.ntp\_server\_option

### configurations[<num>].password\_protected\_settings.cloudprnt.ntp\_server\_option

[Type] String

[Description] The URL of the reference NTP server is specified.

The maximum number of characters is 253 single-byte characters.

[Key] Optional

[Value] NTP server URL or "default" (factory setting)

[Related item] configurations[<num>].password\_protected\_settings.current\_password,  
configurations[<num>].password\_protected\_settings.cloudprnt.ntp\_server

### configurations[<num>].password\_protected\_settings.cloudprnt.cipher\_suites\_encryption\_level

[Type] String

[Description] The encryption level of TLS 1.2 cipher suite is specified.

[Key] Optional

[Value]

value	TLS 1.2 encryption level
"default"	Factory setting
"high+medium"	The cipher suite that implements forward secrecy is included.
"medium"	The cipher suite that implements forward secrecy is not included.

[Related item] configurations[<num>].password\_protected\_settings.current\_password

[Note] Refer to the product specifications manual for the cipher suites supported by each setting value.

### configurations[<num>].password\_protected\_settings.cloudprnt.use\_tls\_13

[Type] String

[Description] Whether to enable or disable TLS 1.3 in HTTPS communication is specified.

[Key] Optional

[Value]

value	TLS1.3
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

[Related item] configurations[<num>].password\_protected\_settings.current\_password

### configurations[<num>].password\_protected\_settings.cloudprnt.http\_response\_timeout

[Type] String

[Description] The HTTP Response Timeout from the CloudPRNT server is specified.

Specified in seconds. The minimum allowable value is 10 seconds, and the maximum value is 60 seconds.

[Key] Optional

[Value]

value	Response wait time
"default"	Factory setting
"10, 20, 30, 40, 50, 60"	Specified HTTP Response Timeout (seconds)

[Related item] configurations[<num>].password\_protected\_settings.current\_password

**configurations[<num>].password\_protected\_settings.interface.network.target\_device**

[Type] String

[Description] The target network is specified.

[Key] Optional

[Value]

value	Target network
"eth0"	Wired LAN 0

**configurations[<num>].password\_protected\_settings.interface.network.dns.dns1**

[Type] String

[Description] The IP address of the DNS server that is used first is specified.

[Key] Optional

[Value]

value	First DNS server
"default"	Factory setting
"0.0.0.0" to "255.255.255.255"	Specified address

**configurations[<num>].password\_protected\_settings.interface.network.dns.dns2**

[Type] String

[Description] The IP address of the DNS server that is used next after dns1 is specified.

[Key] Optional

[Value]

value	Second DNS server
"default"	Factory setting
"0.0.0.0" to "255.255.255.255"	Specified address

### **1-3-3-3) Printer general settings**

#### **configurations[<num>].printer\_control.media\_type**

[Type]	String												
[Description]	The type of paper used is specified. Based on this setting, the maintenance notifications, removal operation after cutting, prohibited items, and other settings are adjusted automatically.												
[Key]	Optional												
[Value]	<table border="1"><thead><tr><th>value</th><th>Paper type</th></tr></thead><tbody><tr><td>"default"</td><td>Factory setting</td></tr><tr><td>"linerless_label"</td><td>Linerless label paper</td></tr><tr><td>"die_cut_label"</td><td>Die cut label paper</td></tr><tr><td>"continuous_label"</td><td>Continuous label paper</td></tr><tr><td>"receipt"</td><td>Thermal paper</td></tr></tbody></table>	value	Paper type	"default"	Factory setting	"linerless_label"	Linerless label paper	"die_cut_label"	Die cut label paper	"continuous_label"	Continuous label paper	"receipt"	Thermal paper
value	Paper type												
"default"	Factory setting												
"linerless_label"	Linerless label paper												
"die_cut_label"	Die cut label paper												
"continuous_label"	Continuous label paper												
"receipt"	Thermal paper												

#### **configurations[<num>].printer\_control.print\_width**

[Type]	String																				
[Description]	The printing width is specified. If the specified unit is "dots," specify only numerals. Can be specified in minimum 8 dot units. If the specified unit is "mm," add "mm" at the end. Can be specified in minimum 1 mm units. There are some special printing areas where this can be specified in smaller units.																				
[Key]	Optional																				
[Value]	<table border="1"><thead><tr><th>value</th><th>Printing width</th></tr></thead><tbody><tr><td>"default"</td><td>Factory setting</td></tr><tr><td>"120" ~ "576" (Units: 8dots)</td><td>Specified dot width</td></tr><tr><td>"276"</td><td>276 dots width</td></tr><tr><td>"406"</td><td>406 dots width</td></tr><tr><td>"420"</td><td>420 dots width</td></tr><tr><td>"15mm" ~ "72mm" (Units: 1mm)</td><td>Specified mm width</td></tr><tr><td>"34.5mm"</td><td>34.5 mm width</td></tr><tr><td>"50.8mm"</td><td>50.8 mm width</td></tr><tr><td>"52.5mm"</td><td>52.5 mm width</td></tr></tbody></table>	value	Printing width	"default"	Factory setting	"120" ~ "576" (Units: 8dots)	Specified dot width	"276"	276 dots width	"406"	406 dots width	"420"	420 dots width	"15mm" ~ "72mm" (Units: 1mm)	Specified mm width	"34.5mm"	34.5 mm width	"50.8mm"	50.8 mm width	"52.5mm"	52.5 mm width
value	Printing width																				
"default"	Factory setting																				
"120" ~ "576" (Units: 8dots)	Specified dot width																				
"276"	276 dots width																				
"406"	406 dots width																				
"420"	420 dots width																				
"15mm" ~ "72mm" (Units: 1mm)	Specified mm width																				
"34.5mm"	34.5 mm width																				
"50.8mm"	50.8 mm width																				
"52.5mm"	52.5 mm width																				

[Note] Only the printing width supported by the printer can be set. Refer to the product specifications manual for the supported printing width.

**configurations[<num>].printer\_control.reverse\_printing**

[Type] String

[Description] Whether to enable or disable the 180° inversion function is specified.

[Key] Optional

[Value]

value	180° inversion function
"default"	Factory settings
"disabled"	Disabled
"enabled"	Enabled

**configurations[<num>].printer\_control.print\_startup\_control**

[Type] String

[Description] Print startup control is specified.

[Key] Optional

[Value]

value	Print startup control
"default"	Factory settings
"page"	Page units
"line"	Line units

### configurations[<num>].printer\_control.print\_speed

[Type] String

[Description] The print speed is specified.

[Key] Optional

[Value]

value	Print speed
"default"	Factory settings
"high"	High speed
"medium"	Medium speed
"low"	Low speed

[Note] Only the print speed supported by the printer can be set. Refer to the product specifications manual for the supported print speed.

### configurations[<num>].printer\_control.print\_density

[Type] String

[Description] The print density is specified.

The larger the number, the darker the density, and the smaller the number, the lighter the density.

[Key] Optional

[Value]

value	Print density
"default"	Factory settings
"standard"	Print density (Standard)
"0"	Print density (Standard)
"+1"	Print density +1
"+2"	Print density +2
"+3"	Print density +3
"+4"	Print density +4
"-1"	Print density -1
"-2"	Print density -2
"-3"	Print density -3

[Note] Only the print density supported by the printer can be set. Refer to the product specifications manual for the supported print density.

### configurations[<num>].printer\_control.line\_feed\_amount

[Type] String

[Description] The line feed amount is specified.

[Key] Optional

[Value]

value	Amount of line feed
"default"	Factory settings
"4mm"	4mm
"3mm"	3mm

### configurations[<num>].printer\_control.processing\_after\_error\_recovery

[Type] String

[Description] Print data processing after recovery from an error is specified.  
This setting is only enabled in page mode.

[Key] Optional

[Value]

value	Print data processing after recovery from an error
"default"	Factory settings
"discard"	Print data is discarded.
"reprint"	Reprinted. After recovering to online, printing is resumed from the top of the page.

### configurations[<num>].printer\_control.cutter\_operation

[Type] String

[Description] Whether to enable or disable cutter operation is specified.  
Only when disabled, the top search operation can also be specified.

[Key] Optional

[Value]

value	Cutter operation
"default"	Factory settings
"enabled"	Enabled
"no_cut_with_feed_to_cutter"	Disabled

[Note] The specific printer operation for each value is shown in the table below.

Command	Printer operation	
	When "enabled" was specified	When "no_cut_with_feed_to_cutter" was specified
Cut	Cut	Do nothing
Top search	Top search	Top search
Tear bar feed	Tear bar feed	Tear bar feed

### configurations[<num>].printer\_control.cut\_type

[Type] String

[Description] The cutting method is specified.

[Key] Optional

[Value]

value	Cutting method
"default"	Factory setting
"follow_command"	Follows the command specification.
"partial_cut"	Partial cut regardless of command specification
"full_cut"	Full cut regardless of command specification

### configurations[<num>].printer\_control.top\_margin

[Type] String

[Description] The top margin is specified.

[Key] Optional

[Value]

value	Top margin
"default"	Factory settings
"<number>mm"	The amount of top margin supported by the device is specified in mm.

[Note] Only the top margin supported by the printer can be set. Refer to the product specifications manual for the supported top margin.

### configurations[<num>].printer\_control.spooler

[Type] String

[Description] Whether to enable or disable the spooler function is specified.

[Key] Optional

[Value]

value	Spooler function
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

#### **1-3-3-4) Printer status related items**

##### **configurations[<num>].printer\_status.asb.ethernet**

[Type]	String								
[Description]	Whether to enable or disable the ASB function of the Ethernet interface is specified.								
[Key]	Optional								
[Value]	<table border="1"><thead><tr><th>value</th><th>ASB function</th></tr></thead><tbody><tr><td>"default"</td><td>Factory settings</td></tr><tr><td>"disabled"</td><td>Disabled</td></tr><tr><td>"enabled"</td><td>Enabled</td></tr></tbody></table>	value	ASB function	"default"	Factory settings	"disabled"	Disabled	"enabled"	Enabled
value	ASB function								
"default"	Factory settings								
"disabled"	Disabled								
"enabled"	Enabled								

[Note] Setting is possible only when the printer is equipped with an Ethernet interface.

##### **configurations[<num>].printer\_status.asb.bluetooth**

[Type]	String								
[Description]	Whether to enable or disable the ASB function of the Bluetooth interface is specified.								
[Key]	Optional								
[Value]	<table border="1"><thead><tr><th>value</th><th>ASB function</th></tr></thead><tbody><tr><td>"default"</td><td>Factory settings</td></tr><tr><td>"disabled"</td><td>Disabled</td></tr><tr><td>"enabled"</td><td>Enabled</td></tr></tbody></table>	value	ASB function	"default"	Factory settings	"disabled"	Disabled	"enabled"	Enabled
value	ASB function								
"default"	Factory settings								
"disabled"	Disabled								
"enabled"	Enabled								

[Note] Setting is possible only when the printer is equipped with a Bluetooth interface.

##### **configurations[<num>].printer\_status.asb.usb\_a**

[Type]	String								
[Description]	Whether to enable or disable the ASB function of the USB-A interface is specified.								
[Key]	Optional								
[Value]	<table border="1"><thead><tr><th>value</th><th>ASB function</th></tr></thead><tbody><tr><td>"default"</td><td>Factory settings</td></tr><tr><td>"disabled"</td><td>Disabled</td></tr><tr><td>"enabled"</td><td>Enabled</td></tr></tbody></table>	value	ASB function	"default"	Factory settings	"disabled"	Disabled	"enabled"	Enabled
value	ASB function								
"default"	Factory settings								
"disabled"	Disabled								
"enabled"	Enabled								

[Note] Setting is possible only when the printer is equipped with a USB-A interface.

**configurations[<num>].printer\_status.asb.usb\_b\_c**

[Type] String

[Description] Whether to enable or disable the ASB function of the USB-B or USB-C interface is specified.

[Key] Optional

[Value]

value	ASB function
"default"	Factory settings
"disabled"	Disabled
"enabled"	Enabled

[Note] Setting is possible only when the printer is equipped with a USB-B or USB-C interface.

**configurations[<num>].printer\_status.nsb.ethernet**

[Type] String

[Description] Whether to enable or disable the NSB function of the Ethernet interface is specified.

[Key] Optional

[Value]

value	NSB Function
"default"	Factory settings
"disabled"	Disabled
"enabled"	Enabled

[Note] Setting is possible only when the printer is equipped with an Ethernet interface.

**configurations[<num>].printer\_status.nsb.usb\_b\_c**

[Type] String

[Description] Whether to enable or disable the NSB function of the USB-B or USB-C interface is specified.

[Key] Optional

[Value]

value	NSB Function
"default"	Factory settings
"disabled"	Disabled
"enabled"	Enabled

[Note] Setting is possible only when the printer is equipped with a USB-B or USB-C interface.

### **1-3-3-5) Printer button related items**

#### **configurations[<num>].printer\_button.multi\_function\_button**

[Type] String  
[Description] The function executed by the multi-function button is specified.  
[Key] Optional  
[Value]

value	Multi-function button function
"default"	Factory setting
"none"	None (button disabled)
"feed_button"	Paper feed
"one_touch_label"	One Touch Label

#### **configurations[<num>].printer\_button.power\_button**

[Type] String  
[Description] Whether to enable or disable turning off the power with the power button is specified.  
[Key] Optional  
[Value]

value	Power off with the power button
"default"	Factory settings
"disabled"	Disabled
"enabled"	Enabled

#### **configurations[<num>].printer\_button.one\_touch\_label[<num>]**

[Type] array (object)  
[Description] The One Touch Label setting contains the *OneTouchLabel/Object* array.  
The One Touch Label to set is specified with "number".

#### **configurations[<num>].printer\_button.one\_touch\_label[<num>].number**

[Type] integer  
[Description] The One Touch Label to set is specified.  
[Key] Optional  
[Value]

value	One Touch Label to set
1	One Touch Label 1
2	One Touch Label 2
3	One Touch Label 3

**configurations[<num>].printer\_button.one\_touch\_label[<num>].logo\_keycode**

- [Type] String  
[Description] This specifies the logo that is printed when the One Touch Label specified with "number" is executed.  
[Key] Optional  
[Value] Logo key code (2 character string) or "none" or "default" (factory setting). Example: "01" for key code "01"

value	Logo key code
"default"	Factory setting
"none"	Not set
2 characters	Specified key code

**configurations[<num>].printer\_button.one\_touch\_label[<num>].cut\_type**

- [Type] String  
[Description] This specifies the operation after printing using the One Touch Label specified with "number" was executed.  
[Key] Optional  
[Value]
- |               |                                 |
|---------------|---------------------------------|
| value         | Paper feed with the feed button |
| "default"     | Factory setting                 |
| "none"        | None                            |
| "partial_cut" | Partial cut                     |
| "full_cut"    | Full cut                        |

**configurations[<num>].printer\_button.feed\_button**

- [Type] String  
[Description] Whether to enable or disable paper feed with the feed button is specified.  
[Key] Optional  
[Value]
- |            |                                 |
|------------|---------------------------------|
| value      | Paper feed with the feed button |
| "default"  | Factory settings                |
| "disabled" | Disabled                        |
| "enabled"  | Enabled                         |

### 1-3-3-6) Printer sensor related items

#### configurations[<num>].printer\_sensor.near\_end

[Type]	String								
[Description]	Whether to enable or disable the near end sensor is specified.								
[Key]	Optional								
[Value]	<table border="1"><tr><td>value</td><td>Near end sensor</td></tr><tr><td>"default"</td><td>Factory settings</td></tr><tr><td>"disabled"</td><td>Disabled</td></tr><tr><td>"enabled"</td><td>Enabled</td></tr></table>	value	Near end sensor	"default"	Factory settings	"disabled"	Disabled	"enabled"	Enabled
value	Near end sensor								
"default"	Factory settings								
"disabled"	Disabled								
"enabled"	Enabled								

[Note] Setting is possible only when the printer is equipped with a near end sensor. Refer to the product specifications manual for the installation status of the near end sensor.

#### configurations[<num>].printer\_sensor.top\_search.control

[Type]	String								
[Description]	Whether to enable or disable paper top detection is specified.								
[Key]	Optional								
[Value]	<table border="1"><tr><td>value</td><td>Paper top detection</td></tr><tr><td>"default"</td><td>Factory setting</td></tr><tr><td>"disabled"</td><td>Disabled</td></tr><tr><td>"enabled"</td><td>Enabled</td></tr></table>	value	Paper top detection	"default"	Factory setting	"disabled"	Disabled	"enabled"	Enabled
value	Paper top detection								
"default"	Factory setting								
"disabled"	Disabled								
"enabled"	Enabled								

#### configurations[<num>].printer\_sensor.top\_search.sensor

[Type]	String								
[Description]	The sensor that is used for paper top detection is specified.								
[Key]	Optional								
[Value]	<table border="1"><tr><td>value</td><td>Paper top detection sensor</td></tr><tr><td>"default"</td><td>Factory setting</td></tr><tr><td>"black_mark"</td><td>Black mark sensor</td></tr><tr><td>"gap"</td><td>Gap sensor</td></tr></table>	value	Paper top detection sensor	"default"	Factory setting	"black_mark"	Black mark sensor	"gap"	Gap sensor
value	Paper top detection sensor								
"default"	Factory setting								
"black_mark"	Black mark sensor								
"gap"	Gap sensor								

[Note] Setting is possible only when the printer is equipped with a near end sensor. Refer to the product specifications manual for the installation status of the near end sensor.

**configurations[<num>].printer\_sensor.top\_search.power\_on**

[Type] String

[Description] When paper top detection is enabled, this specifies the operation when the power is turned ON.

[Key] Optional

[Value]

value	Operation when power is turned ON
"default"	Factory setting
"keep"	Do nothing
"feed"	Top search
"feed_cut"	Top search and cut

**configurations[<num>].printer\_sensor.cover\_close**

[Type] String

[Description] When paper top detection is enabled, this specifies the operation when the cover is closed.

[Key] Optional

[Value]

value	Operation when cover is closed
"default"	Factory setting
"feed"	Top search
"feed_cut"	Top search and cut

**configurations[<num>].printer\_sensor.black\_mark.mark\_length\_adjust**

[Type] String

[Description] When paper top detection using the black mark sensor is enabled, this specifies the amount of black mark length adjustment.

[Key] Optional

[Value]

value	Black mark length adjustment
"default"	Factory setting
"0mm"	No adjustment
"1mm" to "15mm"	Specified length is added to the standard amount.

### configurations[<num>].printer\_sensor.black\_mark.stop\_position\_adjust

[Type]	String										
[Description]	When paper top detection using the black mark sensor is enabled, this specifies the cut position adjustment distance.										
[Key]	Optional										
[Value]	<table border="1"><thead><tr><th>value</th><th>Cut position adjustment</th></tr></thead><tbody><tr><td>"default"</td><td>Factory setting</td></tr><tr><td>"0mm"</td><td>No adjustment</td></tr><tr><td>"-10.0mm" to "-0.5mm" (Units: 0.5 mm)</td><td>Moves in front of the mark by the specified distance.</td></tr><tr><td>"0.5mm" to "1023.5mm" (Units: 0.5 mm)</td><td>Moves beyond the mark by the specified distance.</td></tr></tbody></table>	value	Cut position adjustment	"default"	Factory setting	"0mm"	No adjustment	"-10.0mm" to "-0.5mm" (Units: 0.5 mm)	Moves in front of the mark by the specified distance.	"0.5mm" to "1023.5mm" (Units: 0.5 mm)	Moves beyond the mark by the specified distance.
value	Cut position adjustment										
"default"	Factory setting										
"0mm"	No adjustment										
"-10.0mm" to "-0.5mm" (Units: 0.5 mm)	Moves in front of the mark by the specified distance.										
"0.5mm" to "1023.5mm" (Units: 0.5 mm)	Moves beyond the mark by the specified distance.										

### configurations[<num>].printer\_sensor.paper\_taken.control

[Type]	String								
[Description]	Whether to enable or disable hold print is specified. When set to enabled, the next printing is put on hold inside the printer until the ejected paper is removed.								
[Key]	Optional								
[Value]	<table border="1"><thead><tr><th>value</th><th>Hold print</th></tr></thead><tbody><tr><td>"default"</td><td>Factory setting</td></tr><tr><td>"disabled"</td><td>Disabled</td></tr><tr><td>"enabled"</td><td>Enabled</td></tr></tbody></table>	value	Hold print	"default"	Factory setting	"disabled"	Disabled	"enabled"	Enabled
value	Hold print								
"default"	Factory setting								
"disabled"	Disabled								
"enabled"	Enabled								

### configurations[<num>].printer\_sensor.paper\_taken.timeout

[Type]	String												
[Description]	When hold print is enabled, this specifies the hold print timeout time.												
[Key]	Optional												
[Value]	<table border="1"><thead><tr><th>value</th><th>Hold print timeout time</th></tr></thead><tbody><tr><td>"default"</td><td>Factory setting</td></tr><tr><td>"none"</td><td>No timeout</td></tr><tr><td>"5min"</td><td>5 minutes</td></tr><tr><td>"10min"</td><td>10 minutes</td></tr><tr><td>"30min"</td><td>30 minutes</td></tr></tbody></table>	value	Hold print timeout time	"default"	Factory setting	"none"	No timeout	"5min"	5 minutes	"10min"	10 minutes	"30min"	30 minutes
value	Hold print timeout time												
"default"	Factory setting												
"none"	No timeout												
"5min"	5 minutes												
"10min"	10 minutes												
"30min"	30 minutes												

**configurations[<num>].printer\_sensor.paper\_taken.alarm**

[Type] String  
[Description] When hold print is enabled, this specifies whether to enable or disable buzzer sounding during hold print.  
[Key] Optional  
[Value]

value	Buzzer sound during hold print
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

**configurations[<num>].printer\_sensor.paper\_taken.status**

[Type] String  
[Description] Whether to enable or disable application of the hold print sensor state to "status" is specified.  
When this is enabled, processing such as stopping the following print commands can be performed in the application according to the status of the hold print sensor.  
[Key] Optional  
[Value]

value	The hold print sensor state of continually applied status
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

**configurations[<num>].printer\_sensor.paper\_taken.led**

[Type] String  
[Description] Whether to enable or disable LED indication of printing backlog resulting from hold print control is specified.  
[Key] Optional  
[Value]

value	LED indication of printing backlog caused by hold print control
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

### **1-3-3-7) Reduced printing and paper saving related items**

#### **configurations[<num>].reduced\_printing.horizontal\_reduced\_printing**

[Type] String  
[Description] Whether to enable or disable horizontal reduced printing is specified.  
[Key] Optional  
[Value]

value	Horizontal Reduced Printing
"default"	Factory settings
"disabled"	Disabled
"67%"	Enabled (67%)

#### **configurations[<num>].reduced\_printing.vertical\_reduced\_printing**

[Type] String  
[Description] Whether to enable or disable vertical reduced printing is specified.  
[Key] Optional  
[Value]

value	Vertical reduced printing
"default"	Factory settings
"disabled"	Disabled
"50%"	Enabled (50%)
"75%"	Enabled (75%)

[Note] Only the reduction ratio supported by the printer can be set. Refer to the product specifications manual for the supported reduction ratio.

#### **configurations[<num>].reduced\_printing.barcode\_reduced\_printing**

[Type] String  
[Description] Whether to apply reduced printing to barcodes when reduced printing is enabled is specified.  
[Key] Optional  
[Value]

value	Barcode reduced printing
"default"	Factory settings
"disabled"	Reduced printing is not applied.
"enabled"	Reduced printing is applied.

[Related item] configurations[<num>].reduced\_printing.horizontal\_reduced\_printing,  
configurations[<num>].reduced\_printing.vertical\_reduced\_printing

**configurations[<num>].reduced\_printing.horizontal\_paper\_saving**

[Type] String

[Description] Whether to enable or disable horizontal paper saving is specified.

[Key] Optional

[Value]

value	Horizontal paper saving
"default"	Factory settings
"disabled"	Disabled
"enabled"	Enabled

**configurations[<num>].reduced\_printing.vertical\_paper\_saving**

[Type] String

[Description] Whether to enable or disable vertical paper saving is specified.

[Key] Optional

[Value]

value	Vertical paper saving
"default"	Factory settings
"disabled"	Disabled
"enabled"	Enabled

### **1-3-3-8) Interface related items**

#### **configurations[<num>].interface.general.interface\_lock\_timeout**

[Type] String  
[Description] The interface switching wait time is specified.  
[Key] Optional  
[Value]

value	Switching wait time
"default"	Factory settings
"<number>"	The switching wait time supported by the device is specified in seconds.

[Note] Refer to the product specifications manual for the switching wait time supported by the printer.

#### **configurations[<num>].interface.general.communication\_detection**

[Type] String  
[Description] Whether to enable or disable the communication connection status detection is specified.  
If this function is enabled, the communication connection status of the interface is monitored.  
If a disconnection is detected when a command is being received, the command analysis will be terminated.  
If data cancel mode is enabled when a disconnection is detected, data cancellation will be performed until the document end command.  
[Key] Optional  
[Value]

value	Detect communication connection status
"default"	Factory settings
"disabled"	Disabled
"enabled"	Enabled

#### **configurations[<num>].interface.bluetooth.device\_name**

[Type] String  
[Description] The Bluetooth device name is specified.  
The maximum number of characters is 16 single-byte characters.  
[Key] Optional  
[Value] Bluetooth device name or "default" (factory setting)

#### **configurations[<num>].interface.bluetooth.ios\_port\_name**

[Type] String  
[Description] The Bluetooth port name in iOS is specified.  
The maximum number of characters is 16 single-byte characters.  
[Key] Optional  
[Value] Bluetooth port name in iOS or "default" (factory setting)

### configurations[<num>].interface.bluetooth.new\_pairing

[Type] String  
[Description] Whether or not to permit new Bluetooth pairing is specified.  
[Key] Optional  
[Value]

value	New pairing
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

### configurations[<num>].interface.bluetooth.auto\_connection

[Type] String  
[Description] Whether to enable or disable the Bluetooth auto connection function in iOS is specified.  
This assumes that this is always used in a one-to-one basis with an iOS terminal.  
[Key] Optional  
[Value]

value	Auto connection function
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

### configurations[<num>].interface.network.target\_device

[Type] String  
[Description] The target network is specified.  
[Key] Optional  
[Value]

value	Target network
"eth0"	Wired LAN 0

**configurations[<num>].interface.network.dynamic.dhcp**

[Type] String

[Description] Whether to enable or disable automatic IP address automatic acquisition is specified.

[Key] Optional

[Value]

value	DHCP
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

[Note] Do not specify at the same time as interface.network.static.

**configurations[<num>].interface.network.dynamic.dhcp\_timeout**

[Type] String

[Description] Whether to enable or disable DHCP timeout is specified.

[Key] Optional

[Value]

value	DHCP
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

**configurations[<num>].interface.network.static.ip\_address****[Type]** String**[Description]** The network IP address is specified.**[Key]** Optional**[Value]**

value	IP Address
"default"	Factory setting
"0.0.0.0" to "255.255.255.255"	Specified address

**configurations[<num>].interface.network.static.subnet\_mask****[Type]** String**[Description]** The network Subnet Mask is specified.**[Key]** Optional**[Value]**

value	Subnet Mask
"default"	Factory setting
"0.0.0.0" to "255.255.255.255"	Specified mask

**configurations[<num>].interface.network.static.default\_gateway****[Type]** String**[Description]** The network Default Gateway is specified.**[Key]** Optional**[Value]**

value	Default Gateway
"default"	Factory setting
"0.0.0.0" to "255.255.255.255"	Specified address

**configurations[<num>].interface.network.system\_configurations.port9100****[Type]** String**[Description]** Whether to enable or disable the function which prints at TCP/IP port 9100 is specified.**[Key]** Optional**[Value]**

value	Printing at port 9100
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

**configurations[<num>].interface.network.system\_configurations.port9100\_multi\_session**

[Type] String  
[Description] Whether to enable or disable multi-session for the function which prints at TCP/IP port 9100 is specified.  
[Key] Optional  
[Value]

value	Port 9100 multi-session
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

**configurations[<num>].interface.network.system\_configurations.port9100\_data\_timeout**

[Type] String  
[Description] Specifies the timeout time for the function which prints at TCP/IP port 9100.  
[Key] Optional  
[Value]

value	Port 9100 Timeout time
"default"	Factory setting
"0"	No timeout
"30"	30 seconds
"40"	40 seconds
"60"	60 seconds
"120"	120 seconds
"180"	180 seconds
"300"	300 seconds

**configurations[<num>].interface.network.system\_configurations.port9101**

[Type] String  
[Description] Whether to enable or disable TCP/IP port 9101 is specified.  
[Key] Optional  
[Value]

value	TCP/IP port 9101
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

### configurations[<num>].interface.network.system\_configurations.udp2222

[Type] String  
[Description] Whether to enable or disable UDP port 22222 is specified.  
[Key] Optional  
[Value]

value	UDP port 22222
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

### configurations[<num>].interface.usb.usb\_c\_function

[Type] String  
[Description] The USB-C function is specified.  
[Key] Optional  
[Value]

value	USB-C function
"default"	Factory settings
"power_communication"	Power supply + communication
"power"	Power supply only
"communication"	Communication only

[Note] Only the USB-C function supported by the printer can be set. Refer to the product specifications manual for the supported function.

### configurations[<num>].interface.usb.serial\_number

[Type] String  
[Description] Whether to enable or disable the USB serial number function is specified.  
[Key] Optional  
[Value]

value	USB serial number function
"default"	Factory settings
"disabled"	Disabled
"enabled"	Enabled

### configurations[<num>].interface.usb.serial\_number\_data

[Type] String  
[Description] Specifies the serial number when the USB serial number function is enabled.  
8 or 16 one-byte uppercase alphanumeric characters can be specified.  
When 0 characters ("") are entered, the USB serial number is cleared.  
  
[Key] Optional  
[Value] USB serial number character string, "" (USB serial number clear), or "default" (factory setting)

### **1-3-3-9) Printing character related items**

#### **configurations[<num>].character.character\_code**

[Type] String

[Description] The character code is specified.

[Key] Optional

[Value]

value	Character Code
"default"	Factory settings
"none"	Single-byte characters
"gb2312"	Simplified Chinese (GB2312)
"gb18030"	Simplified Chinese (GB18030)
"big5"	Traditional Chinese (BIG5)
"shift_jis"	Japanese characters (SHIFT_JIS Kanji Character Mode)

[Note] Only the character code supported by the printer can be set. Refer to the product specifications manual for the support status.

#### **configurations[<num>].character.special\_region**

[Type] String

[Description] The special location of use is specified.

When specialized specifications such as character types and a baseline are required, the location of use is specified.

[Key] Optional

[Value]

value	Location of use
"default"	Factory settings
"standard"	Standard
"thai"	Thailand

### configurations[<num>].character.international\_character

[Type] String

[Description] International characters are specified.

[Key] Optional

[Value]

value	International characters
"default"	Factory settings
"usa"	USA
"france"	France
"germany"	Germany
"uk"	UK
"denmark_1"	Denmark 1
"sweden"	Sweden
"italy"	Italy
"spain_1"	Spain 1
"japan"	Japan
"norway"	Norway
"denmark_2"	Denmark 2
"spain_2"	Spain 2
"latin_america"	Latin America
"korea"	Korea
"ireland"	Ireland
"legal"	Legal

### configurations[<num>].character.large\_font

[Type] String

[Description] Whether to enable or disable large font usage is specified.

[Key] Optional

[Value]

value	Large Fonts
"default"	Factory settings
"disabled"	Disabled
"enabled"	Enabled

**configurations[<num>].character.code\_page**

[Type] String  
[Description] Code page is specified.  
[Key] Optional  
[Value]

value	Code page
"default"	Factory settings
"normal"	Normal
"katakana"	Katakana
"code_page_437"	Code Page 437 (USA,Std. Europe)
"code_page_858"	Code Page 858 (Multilingual)
"code_page_852"	Code Page 852 (Latin-2)
"code_page_860"	Code Page 860 (Portuguese)
"code_page_861"	Code Page 861 (Icelandic)
"code_page_863"	Code Page 863 (Canadian French)
"code_page_865"	Code Page 865 (Nordic)
"code_page_866"	Code Page 866 (Cyrillic Russian)
"code_page_855"	Code Page 855 (Cyrillic Bulgarian)
"code_page_857"	Code Page 857 (Turkey)
"code_page_862"	Code Page 862 (Israel (Hebrew))
"code_page_864"	Code Page 864 (Arabic)
"code_page_737"	Code Page 737 (Greek)
"code_page_851"	Code Page 851 (Greek)
"code_page_869"	Code Page 869 (Greek)
"code_page_928"	Code Page 928 (Greek)
"code_page_772"	Code Page 772 (Lithuanian)
"code_page_774"	Code Page 774 (Lithuanian)
"code_page_874"	Code Page 874 (Thai)
"code_page_1252"	Code Page 1252 (Windows Latin-1)
"code_page_1250"	Code Page 1250 (Windows Latin-2)
"code_page_1251"	Code Page 1251 (Windows Cyrillic)
"code_page_3840"	Code Page 3840 (IBM-Russian)
"code_page_3841"	Code Page 3841 (Gost)
"code_page_3843"	Code Page 3843 (Polish)
"code_page_3844"	Code Page 3844 (CS2)
"code_page_3845"	Code Page 3845 (Hungarian)
"code_page_3846"	Code Page 3846 (Turkish)
"code_page_3847"	Code Page 3847 (Brazil-ABNT)
"code_page_3848"	Codepage 3848 (Brazil-ABICOMP)
"code_page_1001"	Code Page 1001 (Arabic)
"code_page_2001"	Code Page 2001 (Lithuanian-KBL)
"code_page_3001"	Code Page 3001 (Estonian-1)
"code_page_3002"	Code Page 3002 (Estonian-2)
"code_page_3011"	Code Page 3011 (Latvian-1)
"code_page_3012"	Code Page 3012 (Latvian-2)
"code_page_3021"	Code Page 3021 (Bulgarian)
"code_page_3041"	Code Page 3041 (Maltese)
"thai_character_code_42"	Thai Character Code 42 (Thai)
"thai_character_code_11"	Thai Character Code 11 (Thai)
"thai_character_code_13"	Thai Character Code 13 (Thai)
"thai_character_code_18"	Thai Character Code 18 (Thai)
"utf-8"	UTF-8
"user_setting"	Blank Code Page

**configurations[<num>].character.zero\_style**

[Type] String

[Description] The zero character format is specified.

[Key] Optional

[Value]

value	Zero character format
"default"	Factory settings
"normal"	Normal (not slashed)
"slashed"	Slashed zero

**configurations[<num>].character.kanji\_character\_pitch**

[Type] String

[Description] Character spacing of double-byte characters is specified.

[Key] Optional

[Value]

value	Character spacing
"default"	Factory settings
"standard"	Standard
"wide"	Wide

**configurations[<num>].character.ank\_character\_pitch**

[Type] String

[Description] Character spacing of single-byte characters is specified.

[Key] Optional

[Value]

value	Character spacing
"default"	Factory settings
"standard"	Standard
"wide"	Wide

### 1-3-3-10) Printer server related items

#### configurations[<num>].printer\_server\_tls.certificate

[Type]	String								
[Description]	The type of certificate used by the printer server functions is specified.								
[Key]	Optional								
[Value]	<table border="1"><thead><tr><th>value</th><th>Certificate type</th></tr></thead><tbody><tr><td>"default"</td><td>Factory setting</td></tr><tr><td>"self_signed"</td><td>Self signed certificate</td></tr><tr><td>"ca_signed"</td><td>CA signed certificate</td></tr></tbody></table>	value	Certificate type	"default"	Factory setting	"self_signed"	Self signed certificate	"ca_signed"	CA signed certificate
value	Certificate type								
"default"	Factory setting								
"self_signed"	Self signed certificate								
"ca_signed"	CA signed certificate								

#### configurations[<num>].printer\_server\_tls.import\_ca\_signed\_cert.certificate.path\_type

[Type]	String						
[Description]	The method for acquisition of the CA signed certificate file is specified.						
[Key]	Optional						
[Value]	<table border="1"><thead><tr><th>value</th><th>Acquisition method</th></tr></thead><tbody><tr><td>"url"</td><td>Download from the specified URL or acquire the data listed in the data URI scheme.</td></tr><tr><td>"path"</td><td>Acquire from specified path.</td></tr></tbody></table>	value	Acquisition method	"url"	Download from the specified URL or acquire the data listed in the data URI scheme.	"path"	Acquire from specified path.
value	Acquisition method						
"url"	Download from the specified URL or acquire the data listed in the data URI scheme.						
"path"	Acquire from specified path.						

#### configurations[<num>].printer\_server\_tls.import\_ca\_signed\_cert.certificate.path

path_type	path value
"url"	Specify the download URL that starts with "http://" or "https://". Example: "https://www.hoge.com/ca_files/ca_signed.crt"  * Reserved characters such as '#' (number sign) cannot be used in the URL. To use them, percent-encoding is required.
"path"	The relative path from the folder where the Star Configuration Format file is located is specified. Both '/' and '¥' are allowed as folder delimiters. Example: "/ca_files¥¥ca_signed.crt"

**configurations[<num>].printer\_server\_tls.import\_ca\_signed\_cert.private\_key.path\_type**

[Type] String  
[Description] The method for acquisition of the private key file is specified.  
[Key] Optional  
[Value]

value	Acquisition method
"url"	Download from the specified URL or acquire the data listed in the data URI scheme.
"path"	Acquire from specified path.

**configurations[<num>].printer\_server\_tls.import\_ca\_signed\_cert.private\_key.path**

[Type] String  
[Description] Options for the method used to specify "path\_type" are specified.  
When entering "¥" in the value, use "¥¥".  
[Key] Optional  
[Value]

path_type	path value
"url"	Specify the download URL that starts with "http://" or "https://." Example: "https://www.hoge.com/certs/private_key.pem"  * Reserved characters such as '#' (number sign) cannot be used in the URL. To use them, percent-encoding is required.
"path"	The relative path from the folder where the Star Configuration Format file is located is specified. Both '/' and '¥' are allowed as folder delimiters. Example: "/ca_files¥¥private_key.pem"

### **1-3-3-11) Sound related items**

#### **configurations[<num>].sound.error\_sound\_playback\_function**

[Type] String

[Description] Whether to enable or disable the error sound playback from the melody speaker is specified.

[Key] Optional

[Value]

value	Error sound playback function
"default"	Factory settings
"disabled"	Disabled
"enabled"	Enabled

### 1-3-3-12) SteadyLAN related items

#### configurations[<num>].steadylan.control

[Type] String

[Description] Whether to enable or disable the SteadyLAN function is specified.

[Key] Optional

[Value]

value	SteadyLAN function
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

### 1-3-3-13) TetherLAN related items

#### configurations[<num>].tetherlan.control

[Type] String

[Description] Whether to enable or disable TetherLAN is specified.

Do not set any of the keys under SteadyLanObject and this key to enabled at the same time.

If they are set to enabled at the same time, the SteadyLAN setting will take priority.

[Key] Optional

[Value]

value	TetherLAN
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

### 1-3-3-14) Maintenance related items

#### configurations[<num>].maintenance.cleaning\_notification\_led

[Type]	String								
[Description]	Whether to enable or disable the parts cleaning LED notification function is specified.								
[Key]	Optional								
[Value]	<table border="1"><thead><tr><th>value</th><th>Parts cleaning LED notification</th></tr></thead><tbody><tr><td>"default"</td><td>Factory setting</td></tr><tr><td>"disabled"</td><td>Disabled</td></tr><tr><td>"enabled"</td><td>Enabled</td></tr></tbody></table>	value	Parts cleaning LED notification	"default"	Factory setting	"disabled"	Disabled	"enabled"	Enabled
value	Parts cleaning LED notification								
"default"	Factory setting								
"disabled"	Disabled								
"enabled"	Enabled								

#### configurations[<num>].maintenance.cleaning\_notification\_print

[Type]	String								
[Description]	Whether to enable or disable the parts cleaning print notification function is specified.								
[Key]	Optional								
[Value]	<table border="1"><thead><tr><th>value</th><th>Parts cleaning print notification</th></tr></thead><tbody><tr><td>"default"</td><td>Factory setting</td></tr><tr><td>"disabled"</td><td>Disabled</td></tr><tr><td>"enabled"</td><td>Enabled</td></tr></tbody></table>	value	Parts cleaning print notification	"default"	Factory setting	"disabled"	Disabled	"enabled"	Enabled
value	Parts cleaning print notification								
"default"	Factory setting								
"disabled"	Disabled								
"enabled"	Enabled								

#### configurations[<num>].maintenance.cleaning\_notification\_status

[Type]	String								
[Description]	Whether to enable or disable the function which applies the parts cleaning notification to the status is specified.								
[Key]	Optional								
[Value]	<table border="1"><thead><tr><th>value</th><th>Application of parts cleaning notification to status</th></tr></thead><tbody><tr><td>"default"</td><td>Factory setting</td></tr><tr><td>"disabled"</td><td>Disabled</td></tr><tr><td>"enabled"</td><td>Enabled</td></tr></tbody></table>	value	Application of parts cleaning notification to status	"default"	Factory setting	"disabled"	Disabled	"enabled"	Enabled
value	Application of parts cleaning notification to status								
"default"	Factory setting								
"disabled"	Disabled								
"enabled"	Enabled								

#### configurations[<num>].maintenance.replacement\_notification\_led

[Type]	String								
[Description]	Whether to enable or disable the parts replacement LED notification function is specified.								
[Key]	Optional								
[Value]	<table border="1"><thead><tr><th>value</th><th>Parts replacement LED notification</th></tr></thead><tbody><tr><td>"default"</td><td>Factory setting</td></tr><tr><td>"disabled"</td><td>Disabled</td></tr><tr><td>"enabled"</td><td>Enabled</td></tr></tbody></table>	value	Parts replacement LED notification	"default"	Factory setting	"disabled"	Disabled	"enabled"	Enabled
value	Parts replacement LED notification								
"default"	Factory setting								
"disabled"	Disabled								
"enabled"	Enabled								

**configurations[<num>].maintenance.replacement\_notification\_print**

[Type] String

[Description] Whether to enable or disable the parts replacement print notification function is specified.

[Key] Optional

[Value]

value	Parts replacement print notification
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

**configurations[<num>].maintenance.replacement\_notification\_status**

[Type] String

[Description] Whether to enable or disable the function which applies the parts replacement notification to the status is specified.

[Key] Optional

[Value]

value	Application of parts replacement notification to status
"default"	Factory setting
"disabled"	Disabled
"enabled"	Enabled

## 1-4) JSON sample

### 1-4-1) mC-Print2, 3 samples

Firmware update and setting change can be applied to multiple models with one file.

- If the device is mC-Print2, the firmware is downloaded from the specified URL, and the MSW settings are self-printed after update.
- If the device is mC-Print3, a font is downloaded from the specified URL and updated. After that, CloudPRNT setting, top margin setting, USB serial number function setting, and character code setting are changed, and then all items are self-printed.

```
{  
    "title": "star_configuration",  
    "version": "1.3.0",  
    "notification": "all",  
    "print_when_completed_type": "ascii",  
    "print_when_completed": "Completed",  
    "firmwares": [  
        {  
            "action": "force",  
            "device_name": "mC-Print2",  
            "path_type": "url",  
            "path": "https:// ### FIRMWARE DOWNLOAD URL ###",  
            "file_type": "firmware",  
            "print_type": "ascii",  
            "print_before_writing": "Start Firmware Update",  
            "selftest_after_writing": "msw"  
        },  
        {  
            "action": "force",  
            "device_name": "mC-Print3",  
            "path_type": "url",  
            "path": "https:// ### FONT DOWNLOAD URL ###",  
            "file_type": "font",  
            "print_type": "ascii",  
            "print_before_writing": "Start Font Update"  
        }  
    ],  
    "configurations": [  
        {  
            "device_name": "mC-Print3",  
            "print_type": "ascii",  
            "print_before_writing": "Start Configurations Update",  
            "selftest_after_writing": "all",  
            "password_protected_settings": {  
                "current_password": "public",  
                "new_password": "newpassword",  
                "cloudprnt": {  
                    "service": "enabled",  
                    "server_url": "https:// ### CLOUDPRNT SERVER URL ###",  
                    "polling_time": 10  
                }  
            },  
            "printer_control": {  
                "top_margin": "2mm"  
            },  
            "interface": {  
                "usb": {  
                    "serial_number": "enabled"  
                }  
            },  
            "character": {  
                "character_code": "shift_jis"  
            }  
        }  
    ]  
}
```

### 1-4-2) mC-Label3 sample

If the device is mC-Label3, a FW is downloaded from the specified URL and updated. Then after the CloudPRNT settings and One Touch Label settings were changed, self-printing of the Star Configuration information is performed.

```
{  
    "title": "star_configuration",  
    "version": "1.4.0",  
    "print_when_completed_type": "ascii",  
    "print_when_completed": "Completed",  
    "firmwares": [  
        {  
            "action": "force",  
            "device_name": "mC-Label3",  
            "path_type": "url",  
            "path": "https://### FIRMWARE DOWNLOAD URL ###",  
            "print_type": "ascii",  
            "print_before_writing": "Start Firmware Update",  
            "selftest_after_writing": "version"  
        }  
    ],  
    "configurations": [  
        {  
            "device_name": "mC-Label3",  
            "print_type": "ascii",  
            "print_before_writing": "Start Configurations Update",  
            "selftest_after_writing": "all",  
            "password_protected_settings": {  
                "current_password": "public",  
                "new_password": "newpassword",  
                "cloudprnt": {  
                    "service": "enabled",  
                    "server_url": "https://### CLOUDPRNT SERVER URL ###",  
                    "polling_time": 10  
                }  
            },  
            "printer_button": {  
                "one_touch_label": [  
                    {  
                        "number": 1,  
                        "logo_keycode": "01",  
                        "cut_type": "partial_cut"  
                    },  
                    {  
                        "number": 2,  
                        "logo_keycode": "2",  
                        "cut_type": "partial_cut"  
                    },  
                    {  
                        "number": 3,  
                        "logo_keycode": "none"  
                    }  
                ]  
            }  
        }  
    ]  
}
```

## 2. Support status table by model

Each key is supported beginning from the firmware version listed below.

The letters under the function names indicate the interface.

U: USB Drive

CP: CloudPRNT

S: SMCS

CM: Command

key	Model															
	mPOP		TSP10 0IIIU		mC-Print2			mC-Print3			TSP100IV			mC-Label3		
	U	U	U	CP	S	U	CP	S	U	CP	S	U	CP	S	CM	
title	V3.0	V1.9	V3.0	V3.5	V3.5	V3.0	V3.5	V3.5	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	
version	V3.0	V1.9	V3.0	V3.5	V3.5	V3.0	V3.5	V3.5	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	
notification	V3.0	V1.9	V3.1	V3.5	V3.5	V3.1	V3.5	V3.5	V1.0	V1.0	V1.0	N/A	N/A	N/A	N/A	
print_when_completed_type	V3.0	V1.9	V3.0	V3.5	V3.5	V3.0	V3.5	V3.5	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	
print_when_completed	V3.0	V1.9	V3.0	V3.5	V3.5	V3.0	V3.5	V3.5	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	
Firmwares																
action	V3.0	V1.9	V3.0	V3.5	V3.5	V3.0	V3.5	V3.5	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	
device_name	V3.0	V1.9	V3.0	V3.5	V3.5	V3.0	V3.5	V3.5	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	
path_type("url")	N/A	N/A	N/A	V3.5	V3.5	N/A	V3.5	V3.5	N/A	V1.0	V1.0	N/A	V1.0	V1.0	N/A	
path_type("path")	V3.0	V1.9	V3.0	N/A	N/A	V3.0	N/A	N/A	V1.0	N/A	N/A	V1.0	N/A	N/A	N/A	
path_type("cloud")	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	N/A	N/A	V1.0	N/A	
path	V3.0	V1.9	V3.0	V3.5	V3.5	V3.0	V3.5	V3.5	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	
file_type	V3.0	V1.9	V3.1	V3.5	V3.5	V3.1	V3.5	V3.5	V1.0	V1.0	V1.0	N/A	N/A	N/A	N/A	
print_type	V3.0	V1.9	V3.0	V3.5	V3.5	V3.0	V3.5	V3.5	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	
print_before_writing	V3.0	V1.9	V3.0	V3.5	V3.5	V3.0	V3.5	V3.5	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	
selftest_after_writing	V3.0	V1.9	V3.0	V3.5	V3.5	V3.0	V3.5	V3.5	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	V1.0	
configurations																
device_name	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
print_type	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
print_before_writing	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
reset_settings_to_default	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	

key	Model													
	mPOP	TSP10 0IIIU	mC-Print2			mC-Print3			TSP100IV			mC-Label3		
	U	U	U	CP	S	U	CP	S	U	CP	S	U	CP	S
selftest_after_writing	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
password_protected_settings														
current_password	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
new_password	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
cloudprnt														
service	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
server_url	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
polling_time	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
user_name	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
password	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
https_trust_level	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
https_trust_level_path_type("url")	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	N/A	V1.0	N/A
https_trust_level_path_type("path")	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	N/A	N/A	N/A
https_trust_level_path	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
ntp_server	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
ntp_server_option	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
cipher_suites_encryption_level	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
use_tls_13	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
http_response_timeout	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V5.0	N/A	N/A	N/A	N/A	N/A	N/A
interface														
network	network													
	target_device	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
		dns												
	dns1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
		dns2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
printer_control														
media_type	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
print_width	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
reverse_printing	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
print_startup_control	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0
print_speed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0

key	Model															
	mPOP		TSP10 0IIIU		mC-Print2			mC-Print3			TSP100IV			mC-Label3		
	U	U	U	CP	S	U	CP	S	U	CP	S	U	CP	S	CM	
print_density	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
line_feed_amount	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
processing_after_error_recovery	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
cutter_operation	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
cut_type	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	
top_margin	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
spooler	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	
printer_status																
asb																
ethernet	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
bluetooth	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
usb_a	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
usb_b_c	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
nsb																
ethernet	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
usb_b_c	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
printer_button																
multi_function_button	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
feed_button	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
one_touch_label																
number	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
logo_keycode	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
cut_type	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
power_button	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
printer_sensor																
near_end	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
top_search																
control	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
sensor	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
power_on	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	
cover_close	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0	

key	Model														
	mPOP	TSP10 0IIIU	mC-Print2			mC-Print3			TSP100IV			mC-Label3			
	U	U	U	CP	S	U	CP	S	U	CP	S	U	CP	S	CM
<b>black_mark</b>															
	mark_length_adjust	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
	stop_position_adjust	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
<b>paper_taken</b>															
	control	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
	timeout	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
	alarm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
	status	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
	led	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
<b>reduced_printing</b>															
	horizontal_reduced_printing	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
	vertical_reduced_printing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	N/A	N/A	N/A	N/A
	barcode_reduced_printing	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
	horizontal_paper_saving	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
	vertical_paper_saving	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
<b>interface</b>															
<b>general</b>															
	interface_lock_timeout	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
	communication_detection	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
<b>bluetooth</b>															
	device_name	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
	ios_port_name	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
	new_pairing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
	auto_connection	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
<b>network</b>															
	target_device	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
	dynamic														
	dhcp	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
	dhcp_timeout	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
	static														
	ip_address	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0

key	Model														
	mPOP	TSP10 0IIIU	mC-Print2			mC-Print3			TSP100IV			mC-Label3			
	U	U	U	CP	S	U	CP	S	U	CP	S	U	CP	S	CM
subnet_mask	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
default_gateway	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
system_configurations															
port9100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
port9100_multi_session	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
port9100_data_timeout	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
port9101	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
udp22222	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
usb															
usb_c_function	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
serial_number	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
serial_number_data	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
character															
character_code	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
special_region	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
international_character	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
large_font	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
code_page	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
zero_style	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
kanji_character_pitch	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
ank_character_pitch	N/A	N/A	N/A	N/A	V3.5	N/A	N/A	V3.5	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
printer_server_tls															
certificate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
import_ca_signed_cert															
certificate															
path_type	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
path	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
private_key															
path_type	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
path	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0	V1.0
Sound															

key	Model														
	mPOP	TSP10 0IIIU	mC-Print2			mC-Print3			TSP100IV			mC-Label3			
	U	U	U	CP	S	U	CP	S	U	CP	S	U	CP	S	CM
error_sound_playback_function	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V3.5	N/A	V1.0	N/A	N/A	N/A	N/A	
Steadylan															
control	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
tetherlan															
control	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
maintenance															
cleaning_notification_led	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
cleaning_notification_print	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
cleaning_notification_status	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
replacement_notification_led	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
replacement_notification_print	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0
replacement_notification_status	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	V1.0	V1.0	V1.0	V1.0



URL: <https://www.starmicronics.com/support/>