

Setup Manual for IFBD-HI01X/02X

Wireless LAN Printer
Star webPRNT
CloudPRNT

STAR MICRONICS CO.,LTD.



Rev2.2

IFBD-HI01X/02X with Star Printer – How to setup

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1. Introduction

IFBD-HI01X/02X is supporting the following printers.

Interface Board model	Printer model	Printer Firmware		Interface Firmware
		Boot Version	Main Version	
IFBD-HI01X	TSP650II	1.0 or later	1.0 or later	1.1 or later
	TSP700II	2.0 or later	3.0 or later	1.2 or later
	TSP800II	1.0 or later	1.2 or later	1.2 or later
	TSP650IISK	1.0 or later	1.0 or later	1.9 or later
IFBD-HI02X	SP700	2.0 or later	3.0 or later	1.2 or later

The printer with IFBD-HI01X/02X can be worked as USB Printer, LAN Printer, and Wireless Printer by using Wireless LAN dongle.

In addition, the printer with IFBD-HIX interface can be Star webPRNT Printer(HI01X) and CloudPRNT Printer(HI01X/02X).

[Notes]

When changes the printer setting (e.g. Memory Switch Settings, Register Logo Setting, Printer F/W · Font writing...), then please turn off and on the printer power to apply the changed settings on the IFBD-HIX I/F and Printer correctly.

After updating an HI01/02X firmware to latest version and printer is rebooted, if web config ui does not show/work correctly, please reboot a web browser and access the web config ui page again to show the web page correctly.

IFBD-HI01X/02X is supporting the following printer drivers.

Driver	StarPRNT Intelligence			CUPS Driver (Web Release)	JavaPOS Driver (Web Release)
Version	Printer Driver Ver. 2.0 or later	OPOS Ver1.13.2 or later	StarIO Ver1.2.2 or later	Linux: Ver3.1.1 Mac: Ver3.1.1 or later	Ver1.9.13 or later
Support	○*3 *5	○*1 *6	○ *5	○ *2 *4 *6	○ *6

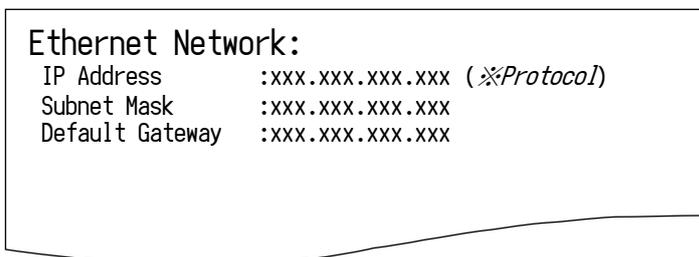
*1 : OPOS driver with USB is supported from HI01X/02X firmware version 1.2.

- *2 : To use CUPS driver, LPR must be set Enable from WebUI. (Default is Disable)
To use LPR, 9100 port also must be set Enable.
- *3 : When use PSA Logo Store tool with TSP650II,
please "Reload" Logo again if it is failed to "Reload" the registered Logo from the printer.
- *4 : To use CUPS driver with Star Micronics Cloud, the "Fixed Length" of "Page Type" can not use correctly. The printing result becomes same as "Variable Length" of "Page Type".
- *5 : TSP650IISK is supported PSA Ver 3.7 or later and StarIO Ver 5.14.0 or later.
- *6 : TSP650IISK does not support CUPS / JavaPOS / OPOS driver.

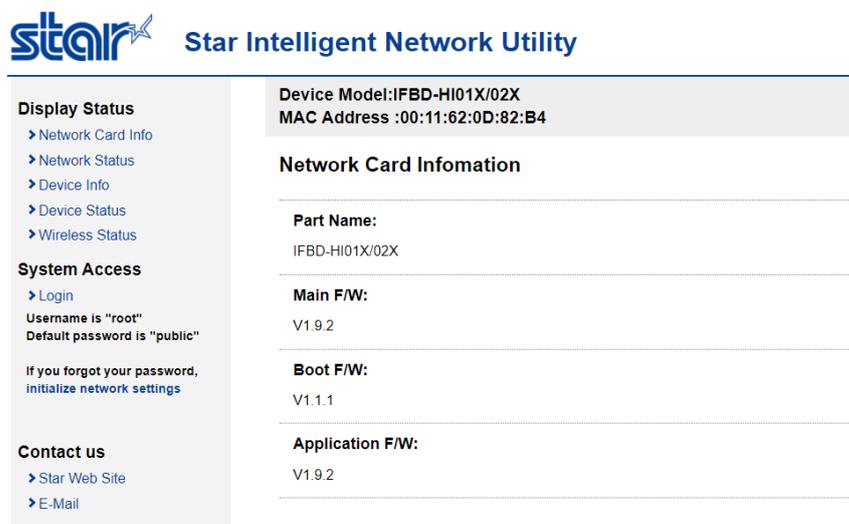
2. Web configuration utility

The web configuration utility is located in HI01X/02X. It is shown below how to access to the web configuration utility.

1. Check the IP address of the IFBD-HI01X/02X by self-print by following below procedure.
 - Connect Ethernet cable to the IFBD-HI01X/02X - Printer.
 - Turn on the IFBD-HI01X/02X - Printer with pushing the feed button for 5 seconds.
 - The IP address of the IFBD-HI01X/02X - Printer is shown in 2nd print paper.



2. Put IP address of IFBD-HI01X/02X into the web-browser. Then the web configuration utility is shown.



star Star Intelligent Network Utility

Display Status

- ▶ Network Card Info
- ▶ Network Status
- ▶ Device Info
- ▶ Device Status
- ▶ Wireless Status

System Access

- ▶ Login
- Username is "root"
- Default password is "public"
- If you forgot your password,
initialize network settings

Contact us

- ▶ Star Web Site
- ▶ E-Mail

Device Model:IFBD-HI01X/02X
MAC Address :00:11:62:0D:82:B4

Network Card Infomation

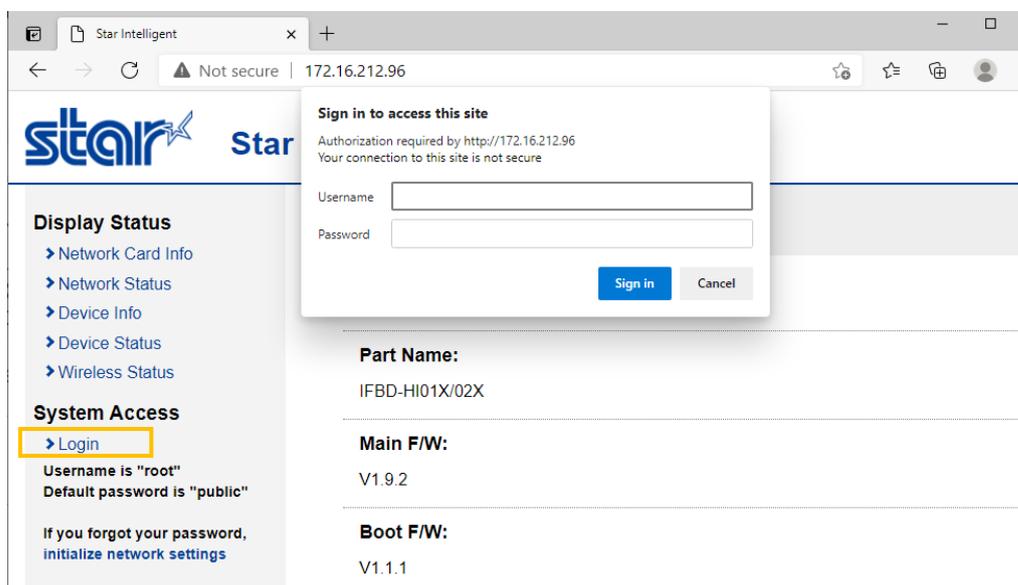
Part Name:
IFBD-HI01X/02X

Main F/W:
V1.9.2

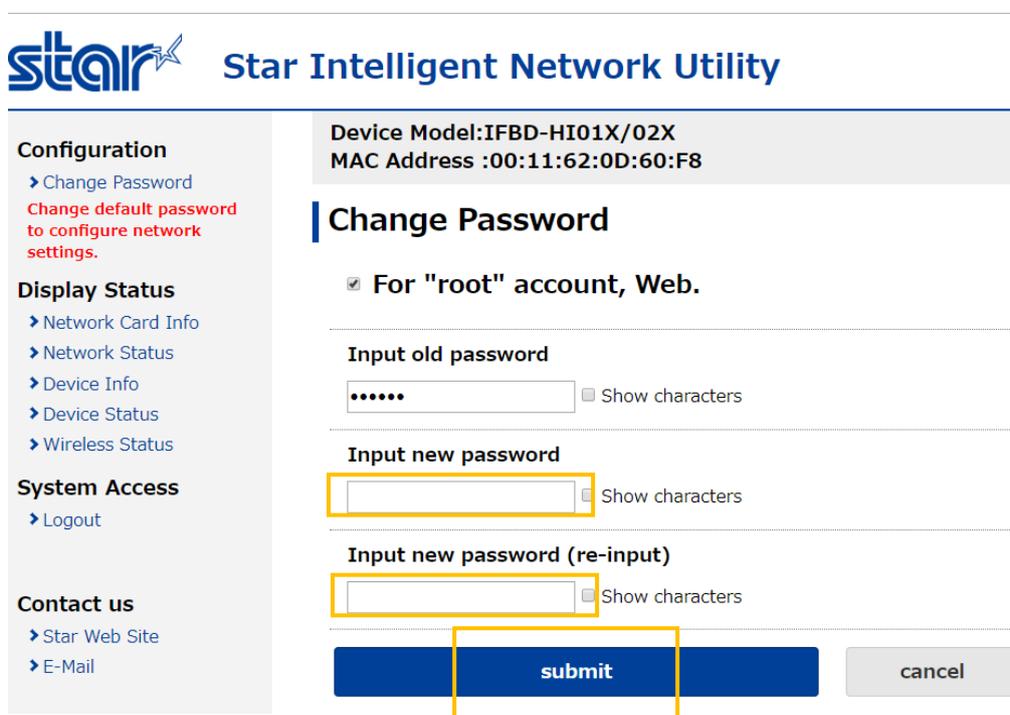
Boot F/W:
V1.1.1

Application F/W:
V1.9.2

3. To enter the setting of HI01X/02X page, click “Login” and put user name and password.
User name: “root”, Password: “public” as factory setting. (These has been indicated under “Login”)

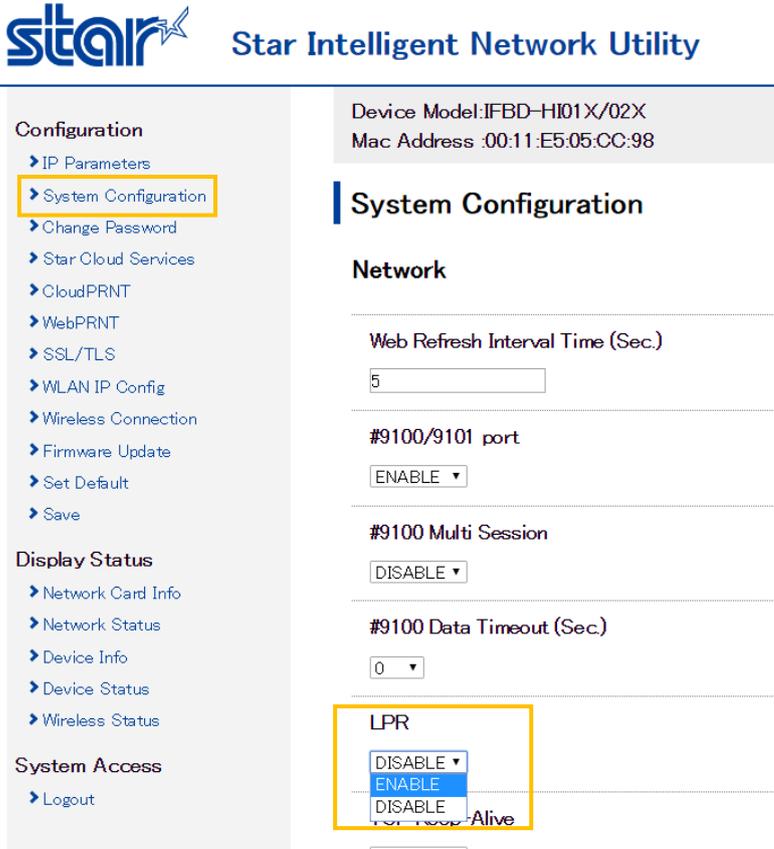


4. After Login, if login password for root is default, then “Change Password” contents show.
Please input new password and click submit.
If submit is succeeded, will show other items of “Configuration”. so please follow next “Example:” for setting other item or “4.” to save setting.



Example : changing LPR setting from Disable to Enable

In the screen below, select [System Configuration] from left menu, and select LPR: ENABLE.



Then, click Submit in the bottom of this screen.

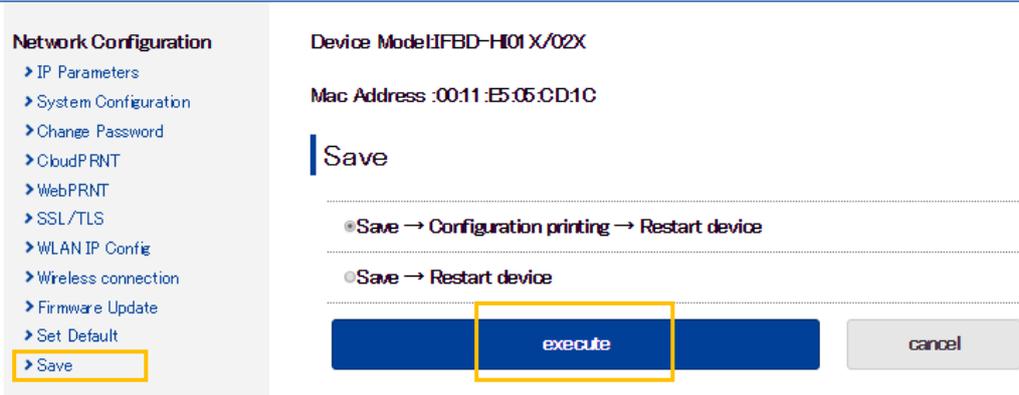


5. Click the menu [Save].

Select any of the following, then click Execute:

- Save → Configuration Printing → Restart device
- Save → Restart device

(After the set print is output, when you select, Configuration Printing) Wait for the printer to reset.

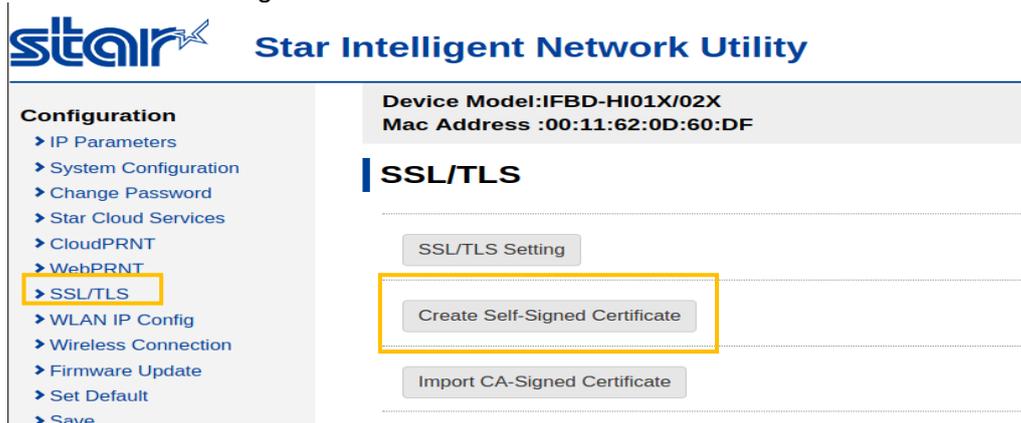


Fin

■ How to set SSL/TLS setting for web server of IFBD-HI01X/02X.

SSL/TLS setting can be select self signed certificate made by I/F or custom ca-certificate. This SSL/TLS setting is stored in this product's non-volatile memory.

1. Click "Create Self-Signed Certificate".



2. Input each items to create self- signed certificate as followings and push "create".

Variable name	Max length of string	[Example]	Default value
Country Name (2 letter code)	2	JP	(Blank)
State or Province Name	128	Shizuoka city	(Blank)
Locally Name (eg, city)	128	Shimizu-ku, Nanatshushinya	(Blank)
Organization Name (eg, company)	128	Star Micronics Co., Ltd.	(Blank)
Organization Unit Name (eg, section)	128	Software Section	(Blank)
Domain (eg, IP Address)	128	192.168.1.175	(Blank)
Expiration Date (eg, YYYY/MM/DD)	2015.01.01 to 2049.12.31	2020/12/31	(Blank)

star Star Intelligent Network Utility

Device Model:IFBD-HI01X/02X
Mac Address :00:11:62:0D:60:DF

Self-Signed Certificate

Country Name (2 letter code)

State or Province Name

Locally Name (eg, city)

Organization Name (eg, company)

Organization Unit Name (eg, section)

Domain

Expiration Date (eg, YYYY/MM/DD)
 / /

3. Click "Save" link. At below page, select save way and click "execute".

star Star Intelligent Network Utility

Device Model:IFBD-HI01X/02X
Mac Address :00:11:E5:05:CD:1C

Save

Save -> Configuration printing -> Restart device

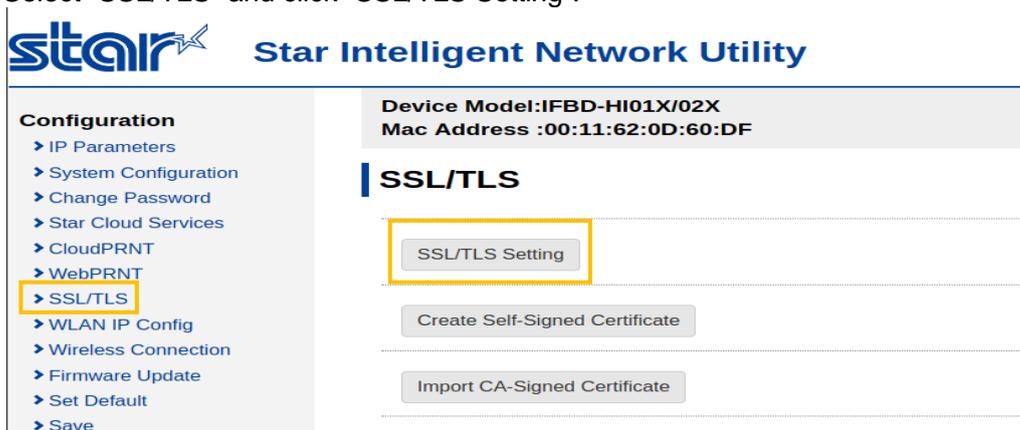
Save -> Restart device

4. After reboot printer, then select "SSL/TLS->Create Self Certificate" again and click "Download" to get created self-signed certificate for registering on web browser(*).

(*) Please register downloaded certification file by each browser way.

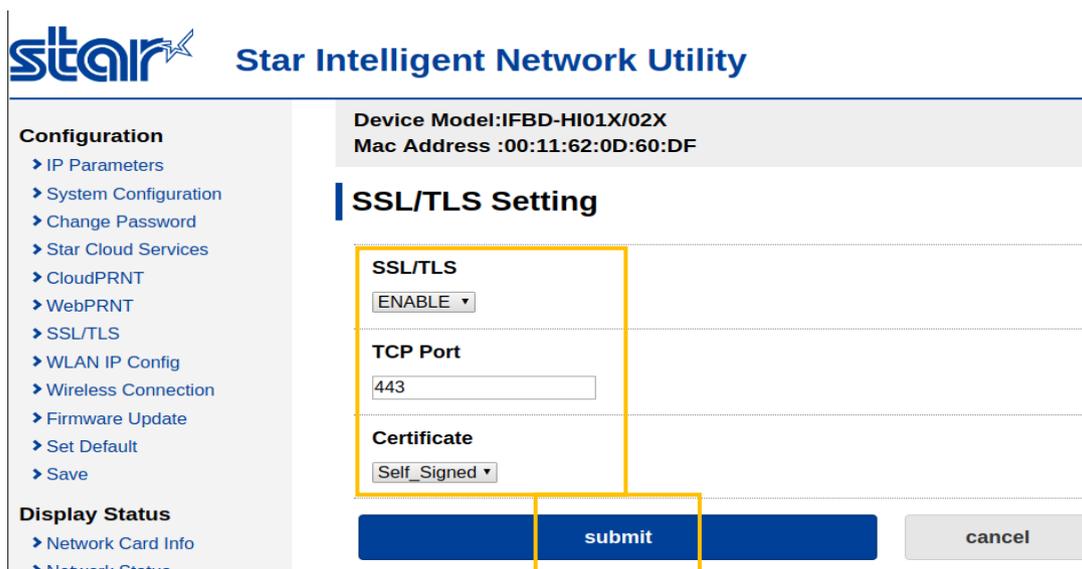
Expiration Date (eg, YYYY/MM/DD)
 / /

- Select "SSL/TLS" and click "SSL/TLS Setting".



- Input each items at "SSL/TLS Setting". And push "submit".(In this case, choose "Self_Signed")

Setting Items	Input Range (*)	Initial Value (Factory Default)
SSL/TLS	ENABLE / DISABLE	DISABLE
TCP Port	1 ~ 65535	443
Certificate	Self_Signed/CA-Signed	Self_Signed



- Click "Save" link. At below page, select save way and click "execute"(Same as "3."). It can access to [https://\[Printer IP Address\]](https://[Printer IP Address]) after reboot.

Fin.

[If use custom "CA-Signed Certificate"]
 Please select "SSL/TLS" and click "Import CA-Signed Certificate" on "1."
 And please upload custom CA-Signed Certificate and Private Key by "Browse" and "Upload".



Star Intelligent Network Utility

Configuration

- › IP Parameters
- › System Configuration
- › Change Password
- › Star Cloud Services
- › CloudPRNT
- › WebPRNT
- › SSL/TLS
- › WLAN IP Config
- › Wireless Connection
- › Firmware Update
- › Set Default
- › Save

Display Status

- › Network Card Info
- › Network Status

Device Model:IFBD-HI01X/02X
Mac Address :00:11:62:0D:60:DF

Import CA-Signed Certificate

No file selected.

Import CA-Signed Private Key

No file selected.

Fin.

How to reset the web configuration utility settings

The whole of web configuration utility settings can be reset by Set Default function on web configuration utility.

In this section, it describes how to delete a created self-signed certificate and a registered CA-signed certificate, as well as how to delete the web configuration utility settings.

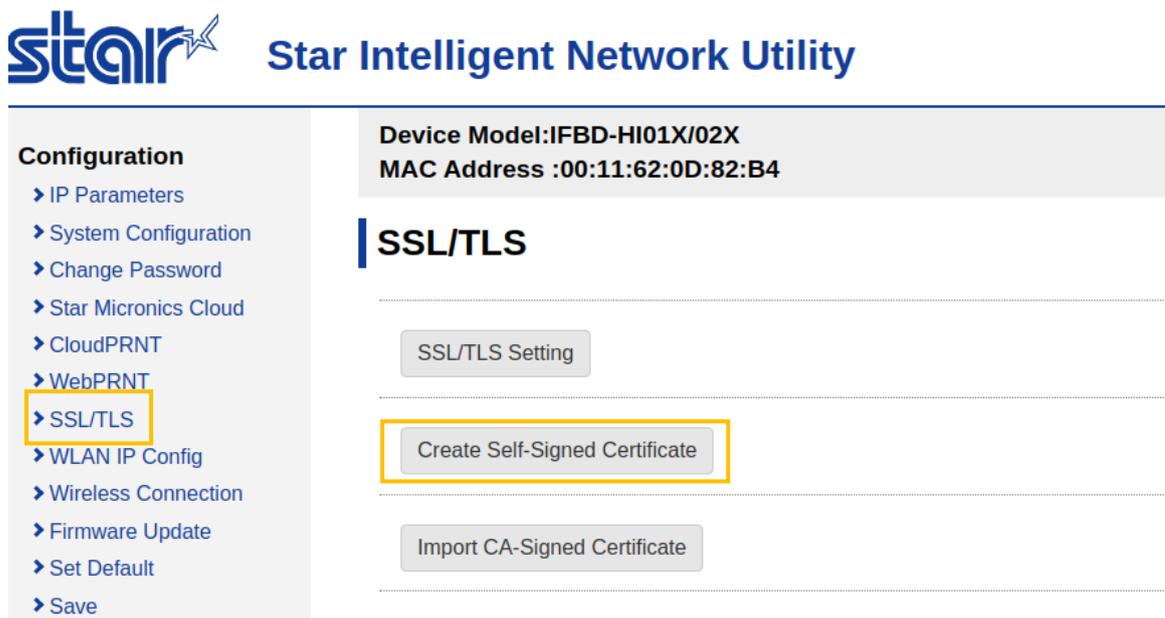
Notes regarding product disposal:

Please initialize the network communication settings of the product from the viewpoint of information protection. By performing this initialization, various information written to the IFBD-HI01X/02X will be erased and you can return to the state at the time of purchase.

If it has not set up SSL/TLS function(Create Self-Singed Certificate / Import CA-Signed Certificate), **please go to "7."**

[How to delete self-signed certificate] (This can be skipped if not set previously.)

1. Click "Create Self-Signed Certificate".



star Star Intelligent Network Utility

Device Model:IFBD-HI01X/02X
MAC Address :00:11:62:0D:82:B4

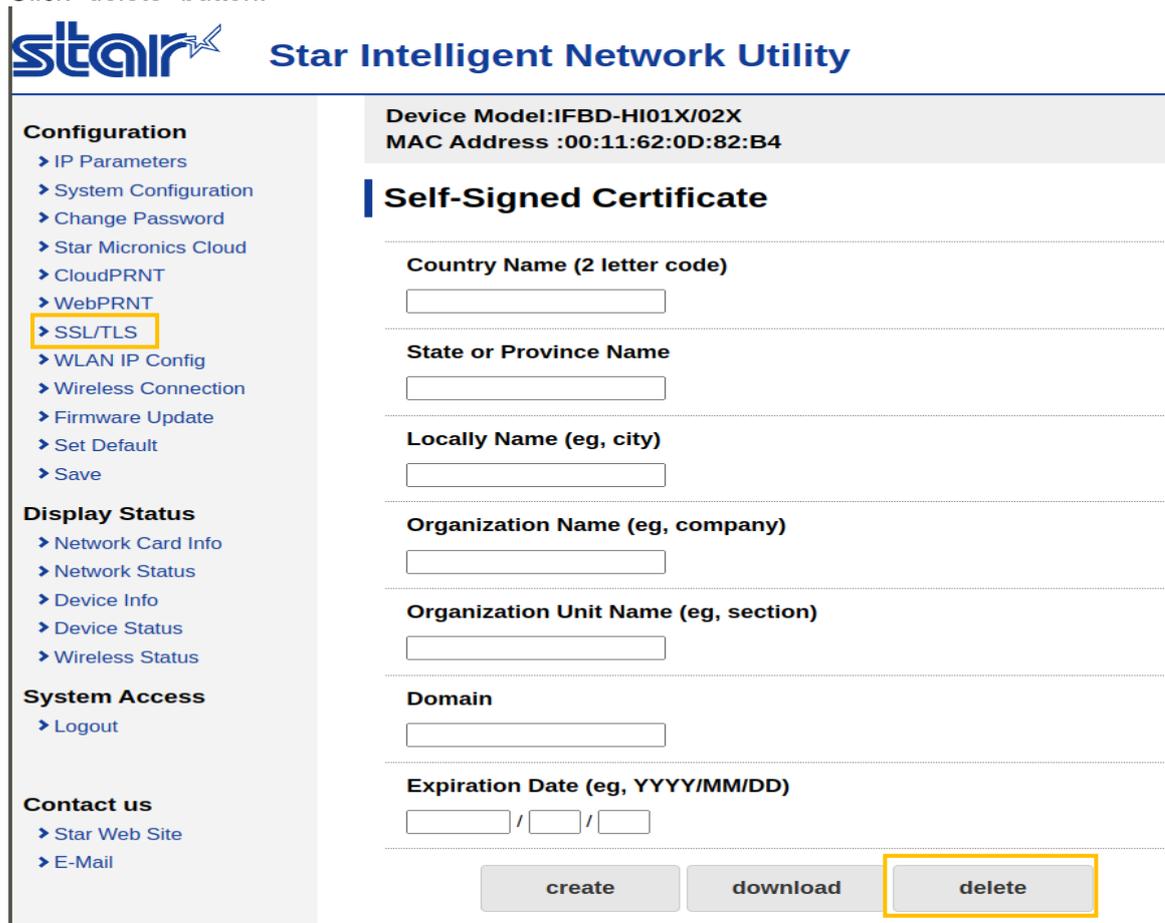
SSL/TLS

- SSL/TLS Setting
- Create Self-Signed Certificate**
- Import CA-Signed Certificate

Configuration

- › IP Parameters
- › System Configuration
- › Change Password
- › Star Micronics Cloud
- › CloudPRNT
- › WebPRNT
- › SSL/TLS**
- › WLAN IP Config
- › Wireless Connection
- › Firmware Update
- › Set Default
- › Save

2. Click "delete" button.



star Star Intelligent Network Utility

Device Model:IFBD-HI01X/02X
MAC Address :00:11:62:0D:82:B4

Self-Signed Certificate

Country Name (2 letter code)

State or Province Name

Locally Name (eg, city)

Organization Name (eg, company)

Organization Unit Name (eg, section)

Domain

Expiration Date (eg, YYYY/MM/DD)
 / /

create download **delete**

Configuration

- › IP Parameters
- › System Configuration
- › Change Password
- › Star Micronics Cloud
- › CloudPRNT
- › WebPRNT
- › SSL/TLS**
- › WLAN IP Config
- › Wireless Connection
- › Firmware Update
- › Set Default
- › Save

Display Status

- › Network Card Info
- › Network Status
- › Device Info
- › Device Status
- › Wireless Status

System Access

- › Logout

Contact us

- › Star Web Site
- › E-Mail

3. Confirm OK message.

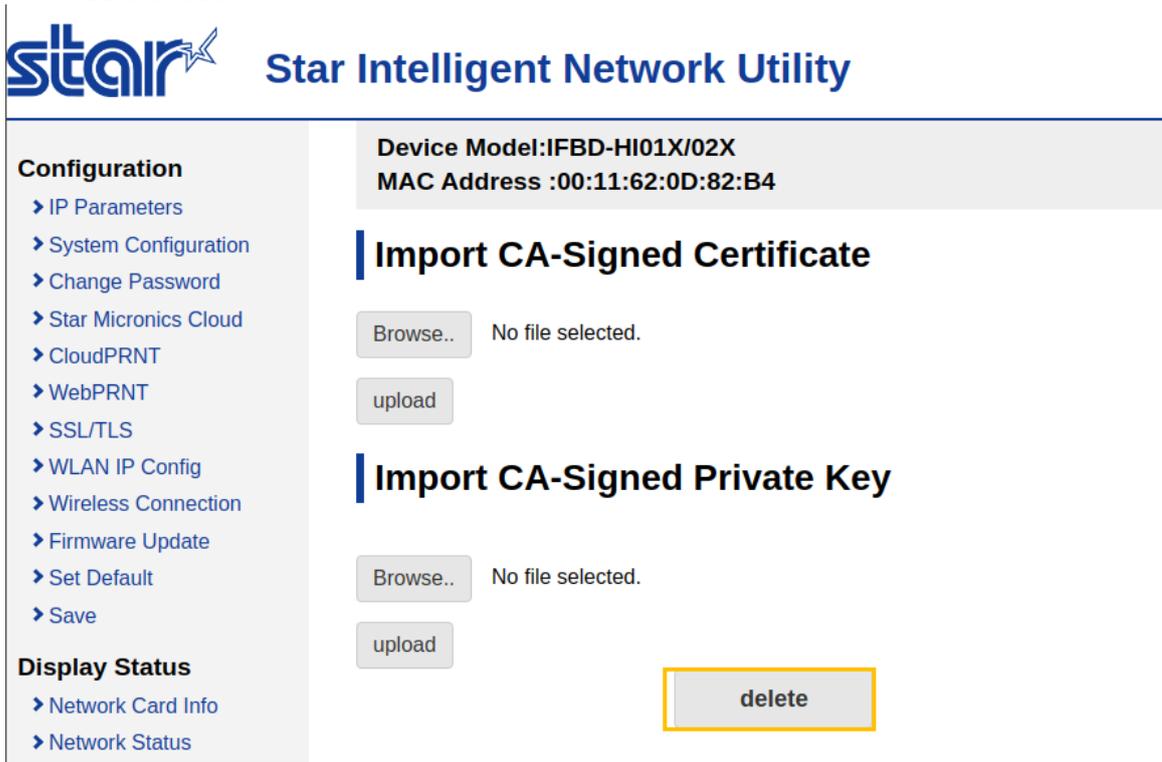
The screenshot shows the Star Intelligent Network Utility interface. On the left is a 'Configuration' menu with options like IP Parameters, System Configuration, Change Password, Star Micronics Cloud, CloudPRNT, WebPRNT, SSL/TLS, WLAN IP Config, Wireless Connection, and Firmware Update. The main area displays 'Device Model:IFBD-HI01X/02X' and 'MAC Address :00:11:62:0D:82:B4'. A yellow-bordered box contains the text 'Delete Self-Signed Certificate OK.'. Below it, a red-bordered box contains the text: 'Please execute "Save" menu if these settings are correct. Return to Previous page <Self-Signed Certificate> (Don't use "Back" button of browser to return.)'

[How to delete CA-signed certificate/private key] (This can be skipped if not set previously.)

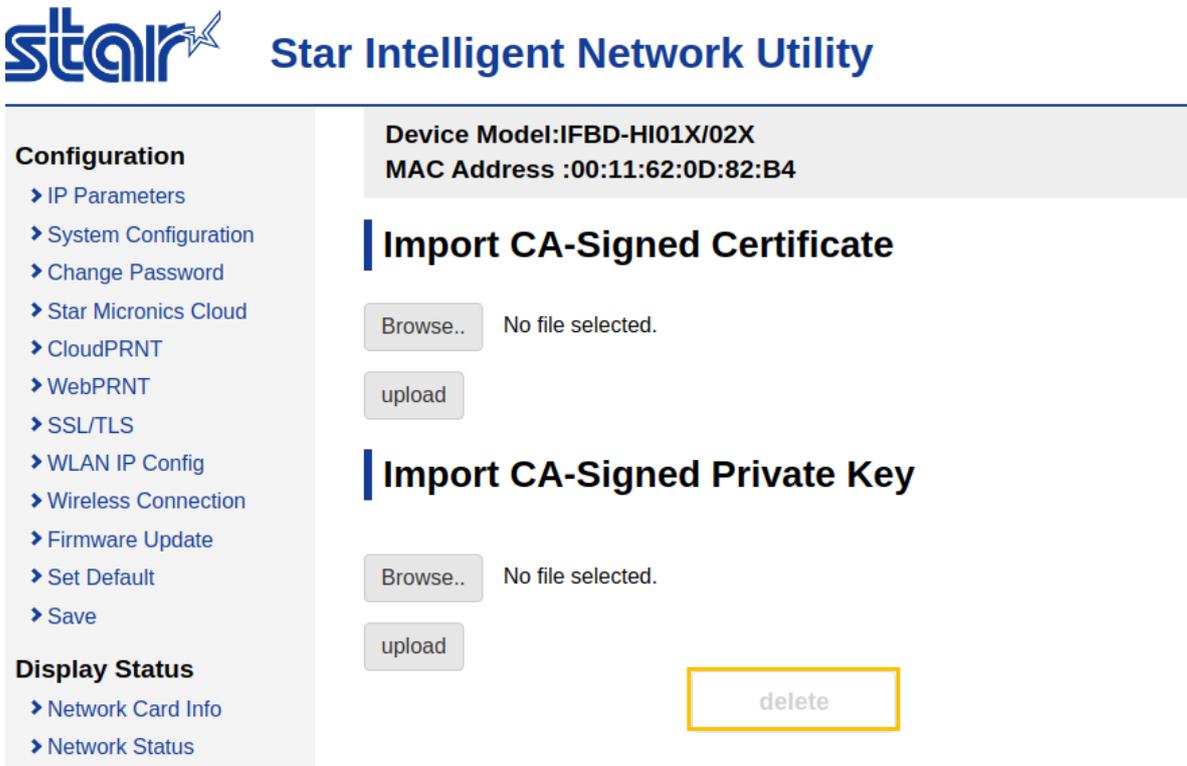
4. Click "Import CA-Signed Certificate".

The screenshot shows the Star Intelligent Network Utility interface. The left 'Configuration' menu has 'SSL/TLS' highlighted with a yellow box. The main area shows 'Device Model:IFBD-HI01X/02X' and 'MAC Address :00:11:62:0D:82:B4'. Below this is the 'SSL/TLS' section header. There are three buttons: 'SSL/TLS Setting', 'Create Self-Signed Certificate', and 'Import CA-Signed Certificate', with the last one highlighted by a yellow box.

5. Click “delete” button.

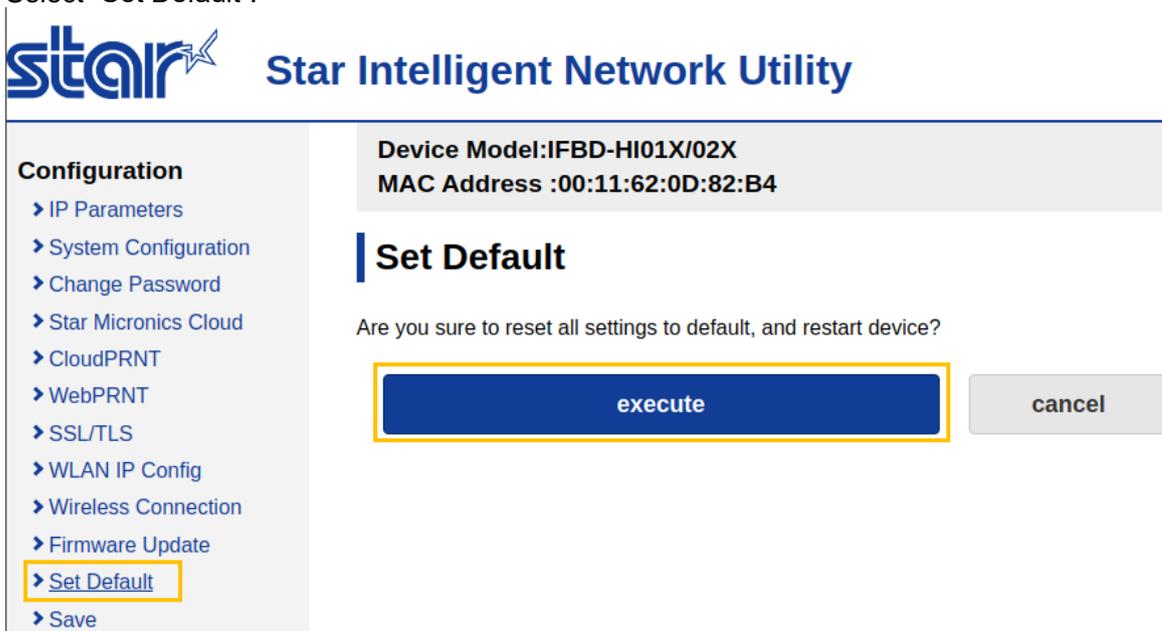


6. Confirm that “delete” button is gray out.

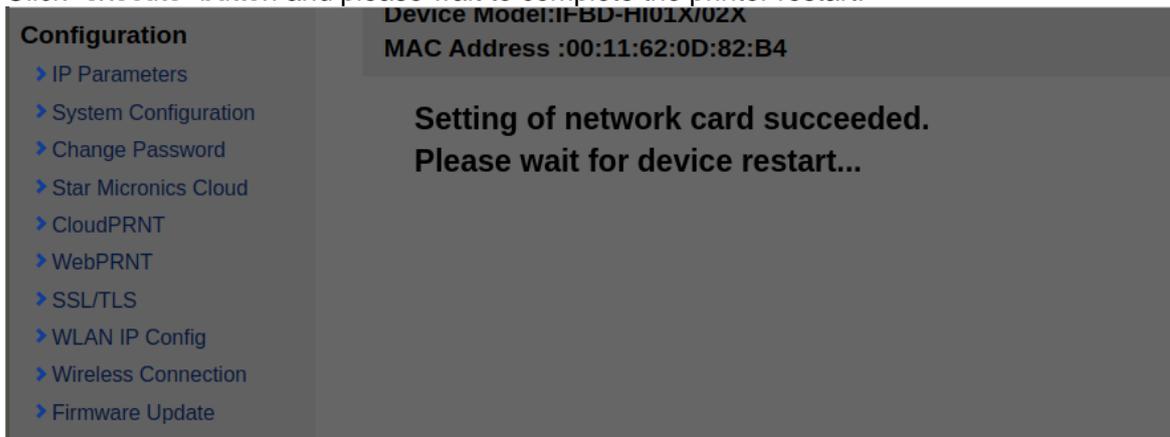


[How to reset web configuration utility settings]

7. Select "Set Default".

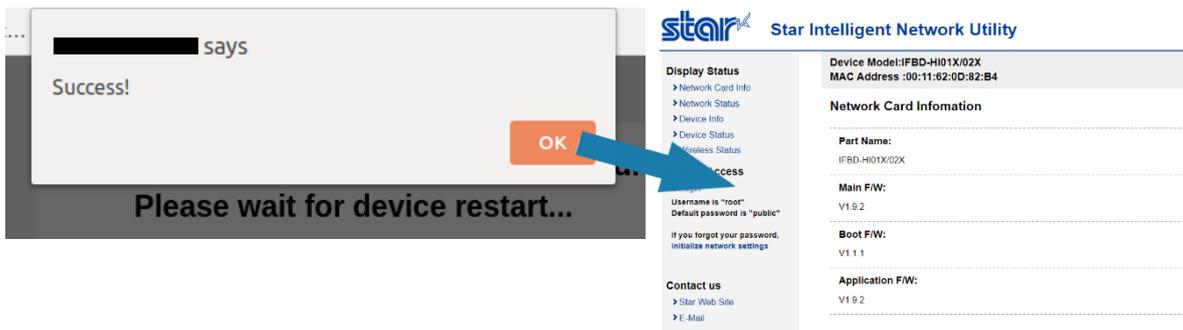


8. Click "execute" button and please wait to complete the printer restart.



9. Confirm that progress message and back to top page(or Success dialog) after printer reboot.

Notes: Depends on network environment, ip address is possible to be different from previous setting by this reset. In the case, enough to confirm that printer restart is started. And if it does not back to top page after printer restart, please reload the page.



3. Firmware Update

It is shown below how to update the firmware. This product allows uploading F/W from Web UI.

There are 2 ways for uploading. One is online updating from Star Micronics Cloud. The other is offline updating from a local file.

(From V1.5.0 (Sep, 2018)):

IFBD-HI01X/02X is supported to the firmware update function with USB Memory.

It can be useful for offline situation without ethernet cable and Wireless LAN dongle.

The current firmware version can be confirmed from [Network Card Info] menu of WebUI



star Star Intelligent Network Utility

Configuration

- ▶ IP Parameters
- ▶ System Configuration
- ▶ Change Password
- ▶ Star Cloud Services
- ▶ CloudPRNT
- ▶ WebPRNT
- ▶ SSL/TLS
- ▶ WLAN IP Config
- ▶ Wireless Connection
- ▶ **Firmware Update**
- ▶ Set Default

Device Model: IFBD-HI01X/02X
Mac Address :00:11:E5:05:CC:98

Network Card Information

Part Name:
IFBD-HI01X/02X

Main F/W:
V1.1.0

Boot F/W:

A. Updating from Star Micronics Cloud (Online)

This procedure can be valid in the case of the network connecting internet.

A-1. Click "Network Configuration" ->Firmware Update.

The screenshot shows the Star Intelligent Network Utility web interface. On the left, a sidebar menu lists various configuration options. The 'Firmware Update' option is highlighted with a yellow box. The main content area displays device information and network card details.

Configuration > IP Parameters > System Configuration > Change Password > Star Micronics Cloud > CloudPRNT > WebPRNT > SSL/TLS > WLAN IP Config > Wireless Connection > Firmware Update > Set Default > Save Display Status > Network Card Info	Device Model:IFBD-HI01X/02X MAC Address :00:11:62:0D:82:B4 Network Card Infomation <hr/> Part Name: IFBD-HI01X/02X <hr/> Main F/W: V1.9.2 <hr/> Boot F/W: V1.1.1 <hr/> Application F/W: V1.9.2
--	---

A-2. Click [Check for updates]

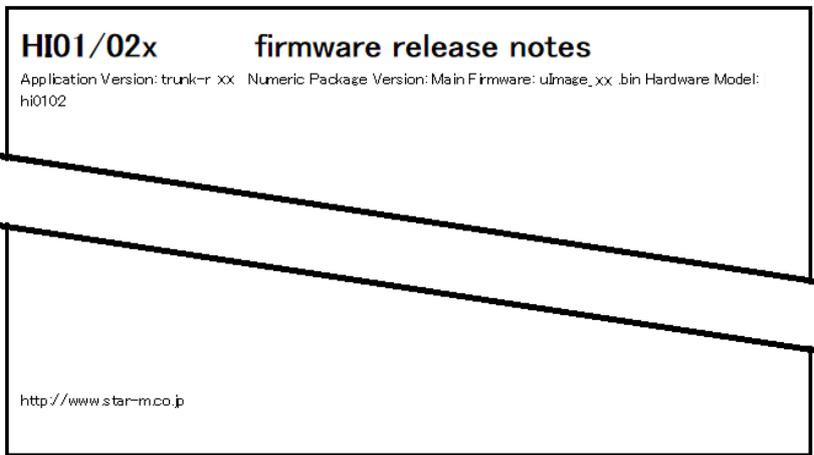
The screenshot shows the 'Update Firmware from Star Cloud Services' section of the Star Intelligent Network Utility web interface. A 'Check for updates' button is highlighted with a yellow box. The interface also displays device information and a note about updating from a local file.

Network Configuration > IP Parameters > System Configuration > Change Password > Star Cloud Services > CloudPRNT > WebPRNT > SSL/TLS > WLAN IP Config > Wireless Connection > Firmware Update > Set Default > Save	Device Model:IFBD-HI01X/02X Mac Address :00:11:E5:05:CD:1E If you have a suitable firmware file, provided by Star Micronics, then you may also update firmware from a local file. Update Firmware from Star Cloud Services <hr/> <div style="border: 1px solid yellow; padding: 5px; display: inline-block;">Check for updates</div>
---	---

A-3. If the latest firmware data is available, version number and release note are shown as below.

A firmware update is available

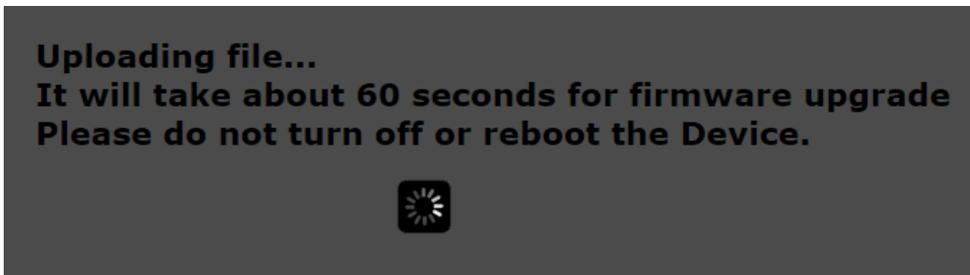
VersionX.XX is available for your hardware.



Click 'Download' to download and update your device firmware now, note that this will require a hardware reset.



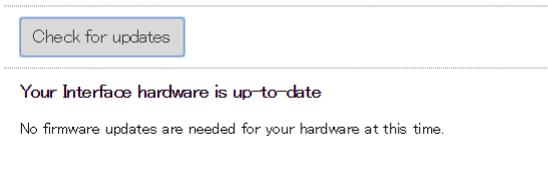
A-4. After clicking the download button, when all data has been confirmed to be correctly received, start writing to the Flash ROM with below screen.



After writing to the Flash ROM ends correctly, the printer will automatically be reset. Writing takes several minutes. Absolutely never turn off the power or apply a reset prior to final reset being applied. If terminated partway, the Flash ROM data will be damaged, and later it may not start up.

* If your current firmware version is latest, [Your Interface hardware is up-to-date] is expressed, and no need to update firmware.

Update Firmware from Star Cloud Services



B. Updating from a local file (Offline)

For this procedure user must obtain a F/W file from Star Micronics in advance.

B-1. Click "Network Configuration" ->Firmware Update.

star Star Intelligent Network Utility

Configuration > IP Parameters > System Configuration > Change Password > Star Micronics Cloud > CloudPRNT > WebPRNT > SSL/TLS > WLAN IP Config > Wireless Connection > Firmware Update > Set Default > Save Display Status > Network Card Info	Device Model:IFBD-HI01X/02X MAC Address :00:11:62:0D:82:B4
	Network Card Infomation <hr/> Part Name: IFBD-HI01X/02X <hr/> Main F/W: V1.9.2 <hr/> Boot F/W: V1.1.1 <hr/> Application F/W: V1.9.2

B-2. Click [from a local file]

star Star Intelligent Network Utility

Network Configuration > IP Parameters > System Configuration > Change Password > Star Cloud Services > CloudPRNT > WebPRNT > SSL/TLS > WLAN IP Config > Wireless Connection > Firmware Update > Set Default > Save	Device Model:IFBD-HI01X/02X Mac Address :00:11:E5:05:CD:1E
	If you have a suitable firmware file, provided by Star Micronics, then you may also update firmware from a local file. <hr/> Update Firmware from Star Cloud Services <hr/> <div style="border: 1px solid gray; padding: 5px; display: inline-block;">Check for updates</div>

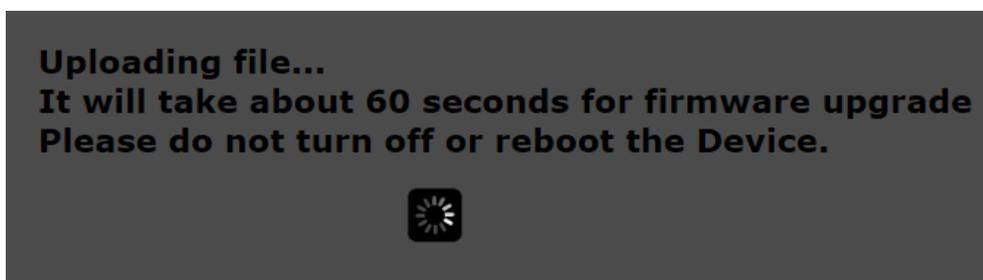
B-3 . Click [Browse] button, and select a firmware file.

Update from file

C:\fakepath\ifbd_hi0102_100.bin

B-4. Click "upload" button.

When all data has been confirmed to be correctly received, start writing to the Flash ROM with below screen.



If writing to the Flash ROM ends correctly, the printer will automatically be reset. Writing takes several minutes. Absolutely never turn off the power or apply a reset prior to final reset being applied. If terminated partway, the Flash ROM data will be damaged, and later it may not start up.

C. Updating from USB memory stick (Offline) - From V1.5.0 (Sep, 2018)

For this procedure user must obtain a F/W file from Star Micronics in advance.

This product allows updating a firmware by generic USB memory that stores a specified setting file.

C-1. An operator connects USB memory (FAT32 formatted) which has "star-hix.conf" file and "HIXUPDATE.bin" file to this product with printer power OFF status.

For the details of these file, see the bottom of this section.

C-2. Turn ON the printer with FEED button pushing. (Self printing is conducted.)

If USB memory is correctly mounted, and "star-hix.conf" file parameter and "HIXUPDATE.bin" file name is correct, then below printing is conducted.

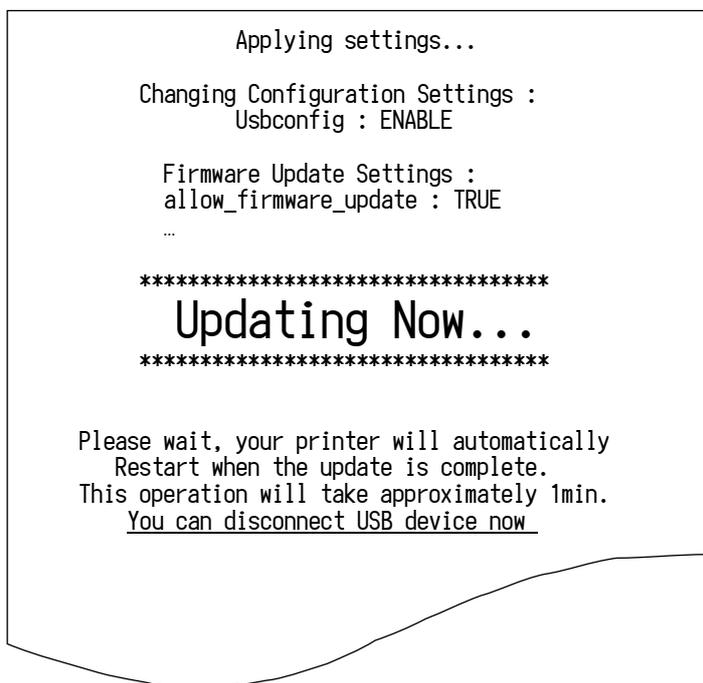
```
*****  
      USB CONFIGURATION  
      & FIRMWARE UPDATE  
*****  
      To start configuration,  
      please open printer cover for  
      more than 1 sec.  
      and then close within 1min.
```

If star-hix.conf file parameter or the firmware file name/content is incorrect, the error messages will be printed after performing printer cover open and close mentioned in C-3. Then the update mode will be canceled(*).

(*) if star-hix.conf file does not exist but HIXUPDATE.bin exists in USB memory, Firmware update process will proceed.

C-3. An operator executes printer cover open 1 second or more and close within one minute after 2. If printer cover open and close is not executed within one minute, printer prints "USB configuration mode cancelled", and setting mode is canceled.

C-4. Printer starts verifying the "HIXUPDATE.bin". When the verification is finished correctly, below printing is conducted.



USB memory can be taken out after this printing.

C-5. Printer reboots automatically. Then firmware is updated.

• Configuration file specification

File name : star-hix.conf (fixed)

File path : root directory of USB memory (fixed)

File format : text file, field name and value must be divided by semicolon.

• Firmware file specification

File name : HIXUPDATE.bin or HIXUPDATE_XXX...bin(XXX is md5 hash value) (fixed)

File path : root directory of USB memory (fixed)

File format : firmware file, user must obtain a F/W file from Star Micronics in advance.

Category	Field Name	Value and details
Firmware update	allow_firmware_update	Set to TRUE or FALSE to set whether firmware update will be allowed or not. If firmware package file is in USB stick, Firmware update process will be performed.
	firmware_checksum	Firmware package checksum value (md5). If supplied, checksum of the firmware package will be checked. If firmware package file name is with checksum value (HIXUPDATE_XXXXXX.bin(XXXXXX is md5 checksum value)), the checksum value in the file name will be used to compare with this value. If it does not match, firmware update will be denied.
	allow_main_firmware_update	Set to TRUE or FALSE to set whether Main firmware update will be allowed or not.
	allow_application_firmware_update	Set to TRUE or FALSE to set whether application firmware file update will be allowed or not.

"star-hix.conf" example :

```
#Firmware update settings
allow_firmware_update: TRUE
firmware_checksum: 650d59efd35023dbb2dca995f16c3682
allow_main_firmware_update: TRUE
allow_application_firmware_update: TRUE
```

(# columns are ignored)

[Notes]

This firmware update function can be use with USB configuration at same time as below.



"star-hix.conf" example for "configuration" and "firmware update" :

```
#Firmware update settings
allow_firmware_update: TRUE
firmware_checksum: 650d59efd35023dbb2dca995f16c3682
allow_main_firmware_update: TRUE
allow_application_firmware_update: TRUE

#WifiSettings
ssid: 000A79C03D79
security: WPA2-PSK
encryption: AES
key: 71428246
wif_ip: DHCP
```

About other "configuration" settings,
please refer to "4. WLAN dongle setting" -> "B Setting by USB memory".

Fin.

4. WLAN dongle setting

The following list shows the Wireless LAN dongle tested by Star.

WLAN chipset	Brand	Model	Vendor ID:Product ID	Supported Interface Version
RTL8188CUS	PLANEX	GW-USNANO2A	2019:ab2a	1.1 or later
	TRENDnet	TEW-648UBM V1.1R	20f4:648b	1.1 or later
	EDIMAX	EW-7811UN V1.0A	7392:7811	1.1 or later
	NETGEAR	WNA1000M	0846:9041	1.1 or later
	TRENDnet	TEW-648UBM V2.0R	20f4:648c	1.9.2 or later
RTL8812AU	PLANEX	GW-900D	2019:ab30	1.1 or later (*1)
	Buffalo	WI-U2-433DM	0411:0242	1.1 or later
	TRENDnet	TEW-805UB HW:V1.0R	20f4:805b	1.1 or later (*1)
	TP-LINK	Archer T4U Ver.1	2357:0101	1.1 or later (*1)
	TP-LINK	Archer T4U Ver.2	2357:010d	1.3 or later (*1)
	D-Link	DWA-182 H/W:C1, F/W:3.06	2001:3315	1.1 or later (*1)
	LINKSYS	WUSB6300	13b1:003f	1.1 or later (*1)
RTL8192DU	Aus Linx	AL-9904R3	0bda:8194	1.1 or later
RTL8822BU	EDIMAX	EW-7822ULC V1.0A	7392:b822	1.6 or later
	TP-LINK	Archer T4U Ver.3	2357:0115	1.6 or later (*1)
	ASUS	USB-AC53 Nano	0b05:184c	1.9.2 or later
	D-Link	DWA-182 H/W:D1	2001:331c	1.9.2 or later (*1)
RTL8188EU	EDIMAX	EW-7811UN V2	7392:b811	1.9.2 or later

*1 In case of SP700, the dongle cannot mount directly to USB-A port due to the dongle size.

In this case please use other dongle or use a general USB extension cable.

■How to set WLAN IP configuration by using WLAN dongle.

For the setting to connect to access point, there are 2 methods. One is from WebUI, and the other is by using USB memory.

A. Setting from WebUI

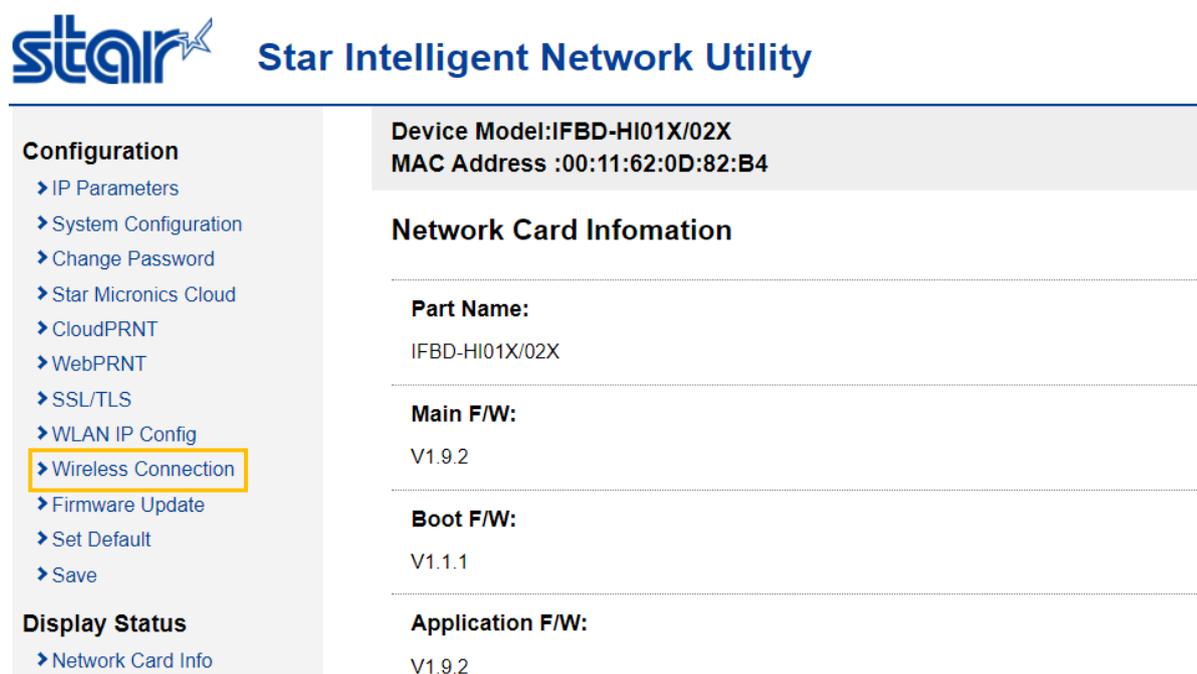
Access the WebUI by wired LAN connection with WLAN dongle inserted.

A-1. Access the homepage for administrator (<http://IP Address/home.html>).

(Example: For IP address = 192.168.10.1, access <http://192.168.10.1/home.html>)

A-2. Login with User Name and Password (UN: "root" and PW:"public" as factory setting)

A-3. Click "Network Configuration" ->Wireless Connection.



star Star Intelligent Network Utility

Configuration

- ▶ IP Parameters
- ▶ System Configuration
- ▶ Change Password
- ▶ Star Micronics Cloud
- ▶ CloudPRNT
- ▶ WebPRNT
- ▶ SSL/TLS
- ▶ WLAN IP Config
- ▶ **Wireless Connection**
- ▶ Firmware Update
- ▶ Set Default
- ▶ Save

Display Status

- ▶ Network Card Info

Device Model:IFBD-HI01X/02X
MAC Address :00:11:62:0D:82:B4

Network Card Information

Part Name:
IFBD-HI01X/02X

Main F/W:
V1.9.2

Boot F/W:
V1.1.1

Application F/W:
V1.9.2

[Method by automatic access point searching]

A-4. Click [Enter] of Site Survey.

Wireless Connection



Site Survey

Enter

Manual Connect

Enter

A-5. Then found access point are listed. Click [Select] of access point to connect.

Site Survey

SSID	Select	Encryption
AirPortN	Select	WPA/WPA2-TKIP/AES
TSP100III-B93271	Select	OPEN
WARPSTAR-782F6D	Select	WPA/WPA2-AES
aterm-06c15f-g	Select	WPA/WPA2-AES
WARPSTAR-782F6D-W	Select	WEP
StarDemoAP	Select	WPA2-AES
BAT_Aterm	Select	WPA/WPA2-AES
Roming	Select	WPA/WPA2-TKIP/AES
000A79C03D79	Select	WPA/WPA2-TKIP/AES
Buffalo-G-D468	Select	WPA2-AES

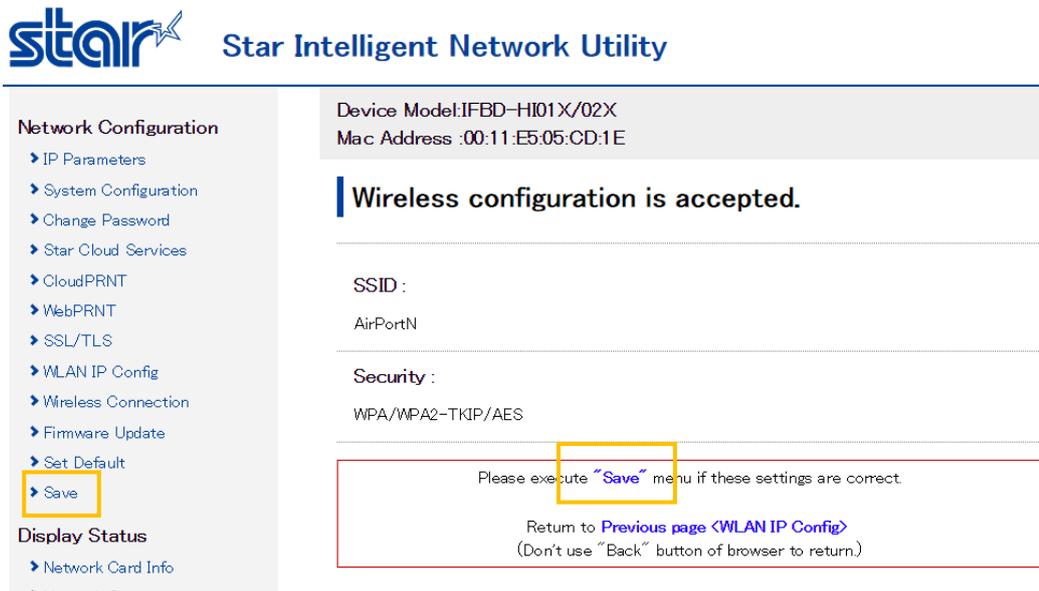
A-6. Input the Key, and click [connect].

Connect Settings

SSID
AirPortN

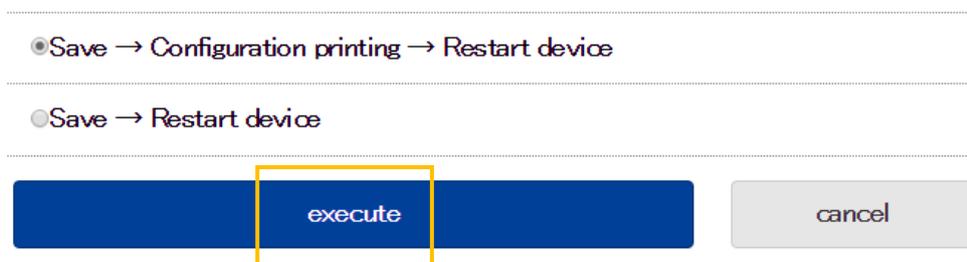
Key

A-7. Click [save] menu or “save” link to save the setting. In this case, do not click back button of the browser, otherwise setting is disappeared.



A-8. Select [Save -> Configuration printing -> Restart device] for rebooting with setting print, or [Save -> Restart device] for rebooting without setting print, and click [execute]. Then printer executes reboot and setting is finished.

Save



Method by inputting the setting manually

A' -4 Click [Enter] of Manual Connect.

Wireless Connection

Site Survey

Enter

Manual Connect

Enter

A' -5 Input the setting of access point manually and click [Connect].

Manual Connect

SSID

AirPortN

Security

WPA2-PSK

KeyFormat

Passphrase (8-63 chars)

Encryption

AES

Key

connect cancel

A' -6 Click [save] menu or "save" link to move to save menu. In this case, do not click back button of the browser, otherwise setting is disappeared.

The screenshot shows the 'Star Intelligent Network Utility' web interface. On the left is a navigation menu with 'Network Configuration' and 'Display Status' sections. The 'Save' option under 'Network Configuration' is highlighted with a yellow box. The main content area shows device information (Device Model: IFBD-HI01X/02X, Mac Address: 00:11:E5:05:CD:1C) and a confirmation message: 'Wireless configuration is accepted.' Below this, configuration details for SSID (AirPortN), Security (WPA2-PSK), and Encryption (AES) are listed. A red-bordered box contains a warning: 'Please execute "Save" menu if these settings are correct. Return to Previous page <WLAN IP Config> (Don't use "Back" button of browser to return.)' The word 'Save' in the warning is highlighted with a yellow box.

A' -7 Select [Save -> Configuration printing -> Restart device] for rebooting with setting print, or [Save -> Restart device] for rebooting without setting print, and click [execute]. Then printer executes reboot and setting is finished.

The screenshot shows the 'Save' configuration options. There are two radio button options: 'Save -> Configuration printing -> Restart device' (which is selected) and 'Save -> Restart device'. Below these options are two buttons: a blue 'execute' button and a grey 'cancel' button. The 'execute' button is highlighted with a yellow box.

Wireless connection status can be confirmed from [Wireless Status] menu of WebUI.

The screenshot displays the WebUI interface. On the left, a sidebar menu is visible with two main sections: 'Network Configuration' and 'Display Status'. Under 'Network Configuration', there are 13 items, with 'Wireless Connection' highlighted. Under 'Display Status', there are 5 items, with 'Wireless Status' highlighted and enclosed in a yellow box. On the right side of the page, a grey box shows 'Device Model:IFBD-HI01X/02X' and 'Mac Address :00:11:E5:05:CD:1E'. Below this, the 'Wireless Status' section is displayed, showing 'Status: Connected', 'SSID: AirPortN', and 'Current IP: 192.168.0.7 (DHCP)'. Each status item is separated by a horizontal dotted line.

B Setting by USB memory

This product allows changing the network setting by generic USB memory that stores a specified setting file.

•Procedure of WLAN setting by USB memory

B-1. An operator connects USB memory (FAT32 formatted) which has "star-hix.conf" file to this product with printer power OFF status. For the details of this file, see the bottom of this section.

B-2. Turn ON the printer with FEED button pushing. (Self printing is conducted.)

If USB memory is correctly mounted, and "star-hix.conf" file parameter is correct, then below printing is conducted.

```
*****  
USB CONFIGURATION  
*****  
To start configuration,  
please open printer cover for  
more than 1 sec.  
and then close within 1min.
```

If there is no "star-hix.conf" file in USB memory, printer prints "USB configuration mode cancelled", or if "star-hix.conf" file parameter is incorrect, printer prints "Authentication Error", and setting mode is canceled.

B-3. An operator executes printer cover open 1 second or more and close within one minute after 2. If printer cover open and close is not executed within one minute, printer prints "USB configuration mode cancelled", and setting mode is canceled.

B-4. Printer starts reading a setting of "star-hix.conf". When reading is finished correctly, below printing is conducted.



USB memory can be taken out after this printing.

B-5. Printer reboots automatically. Then setting are changed.

• Configuration file specification

File name : star-hix.conf (fixed)

File path : root directory of USB memory (fixed)

File format : text file, field name and value must be divided by semicolon.

	Field Name	Value and details
Root password (with SHA256)	auth	An SHA256 hash of the root password. If supplied then this must match the printer internally stored hash. If they do not match, then settings will not be installed. If not provided, then the password is not checked, so the user confirmation must be relied on alone to approve the configuration change. Some settings will not be applied if no auth field is provided. (*)

WLAN setting	ssid	SSID of the Wireless network to connect to.
	security	Set to OPEN, WEP-OPEN, WEP-KEY, WPA-PSK or WPA2-PSK to specify the security type.
	defwepkey	In a WEP-KEY (WEP with key) network, this specifies a value from 1 to 4 to indicate the default key to use.
	encryption	In a WPA or WPA2 network, specify the encryption method to use, either TKIP, or AES
	key	Specify the pre-shared key for this network. The key format will be determined by the length.
	wifi_ip	Specify "DHCP" to use DHCP assigned address, or set to a valid IP address to use static IP
	wifi_subnet	Specify the subnet address, if a fixed IP was specified for the ip field. If ip is set to DHCP, then this field is ignored.
	wifi_gateway	Specify the gateway address, if a fixed IP was specified for the ip field. If ip is set to DHCP, then this field is ignored.
	eth_ip	Specify "DHCP" to use DHCP assigned address for Ethernet, or set to a valid IP address to use static IP
	eth_subnet	Specify the Ethernet subnet address, if a fixed IP was specified for the eth-ip field. If eth-ip is set to DHCP, then this field is ignored.
eth_gateway	Specify the Ethernet gateway address, if a fixed IP was specified for the eth-ip field. If eth-ip is set to DHCP, then this field is ignored.	
Password setting(*)	rootpassword	Set a new 'root' user password for accessing the configuration UI. This setting will only be applied if the auth field was also supplied. (*)
	userpassword	Set a new 'user' user password for accessing port 22222 functions. This setting will only be applied if the auth field was also supplied. (*)
USB memory setting function valid/invalid	usbconfig	Set to ENABLE or DISABLE to control the USB configuration function. If set to DISABLE, then USB configuration will be blocked after settings are applied. To re-enable, a user will have to log-in to the WEB configuration UI and manually enable the "USB Configuration" option.
CloudPRNT setting (Supported from I/F version 1.3)	cloudprnt_enable	Set to ENABLE or DISABLE to control the CloudPRNT service
	cloudprnt_url	Set to URL of CloudPRNT service.
	cloudprnt_interval	Set CloudPRNT Polling time in sec (Range: 1 to 7200, Default value is 5)
	cloudprnt_user	Set user name registered on CloudPRNT server. (Optional)
	cloudprnt_pass	Set password registered on CloudPRNT server. (Optional)
	cloudprnt_certlevel	Set CloudPRNT certification level. (0 as default) 0: Use Bundle of CA Root Certificates

		<p>FW Ver 1.7 or earlier: Mozilla as of: Thu Jun 18 14:06:27 2015</p> <p>FW Ver 1.8 or later: Mozilla as of: Wed Jan 1 04:12:10 2020</p> <p>1: Use custom CA certificate. (Registered by Web UI on CloudPRNT setting)</p> <p>2: Accept all (Warning – not secure)</p>
<p>Disconnect Message</p> <p>(Supported from I/F version 1.3)</p>	eth_disconnectmessage	Set to ENABLE or DISABLE or AUTO to control Disconnect Message function for Wired network.
	eth_line1	Set first line of message
	eth_line2	Set second line of message
	eth_line3	Set third line of message
	eth_line4	Set fourth line of message
	wifi_disconnectmessage	Set to ENABLE or DISABLE or AUTO to control Disconnect Message function for Wireless network.
	wifi_line1	Set first line of message
	wifi_line2	Set second line of message
	wifi_line3	Set third line of message
wifi_line4	Set fourth line of message	

(*) It is possible to change under the condition that auth parameter setting is valid.

"star-hix.conf" example :

```
# Configuration file for star-hix
# Configured by USB stick.
#

#auth: efa1f375d76194fa51a3556a97e641e61685f914d446979da50a551a4333ffd7
#WifiSettings
ssid: 000A79C03D79
security: WPA2-PSK
encryption: AES
key: 71428246
wifi_ip: DHCP
```

(# columns are ignored)

[Reference] How to convert Root password with SHA256

e.g. case of root password = "public"

1. Visit free SHA256 HASH generating web site like below.

<http://www.xorbin.com/tools/sha256-hash-calculator>

<http://hash.online-convert.com/sha256-generator>

<http://www.timestampgenerator.com/tools/sha256-generator/>

2. Input the text "public" to text box of the converting site.

3. Below result is calculated. Then copy the text and paste to auth field of "star-hix.conf".

(converted result) : efa1f375d76194fa51a3556a97e641e61685f914d446979da50a551a4333ffd7

5. Star webPRNT

■ How to enable Star webPRNT in HI01X

*The default setting of Star webPRNT is “Enable”

Visit the web configuration utility to enable Star webPRNT.

1. Select “Web Print” after “Login”
2. Select “ENABLE” in Star webPRNT Service section
3. Click “Submit” button.



Star Intelligent Network Utility

Network Configuration

- ▶ IP Parameters
- ▶ System Configuration
- ▶ Change Password
- ▶ Star Cloud Services
- ▶ CloudPRNT
- ▶ **WebPRNT ①**
- ▶ SSL/TLS
- ▶ WLAN IP Config
- ▶ Wireless Connection
- ▶ Firmware Update
- ▶ Set Default
- ▶ Save

Device Model:IFBD-HI01X/02X
Mac Address :00:11:E5:05:CD:1C

WebPRNT

WebPRNT Service

ENABLE ②

TCP Port Number

80

③

submit

cancel

4. The following message is shown. Select “Save”.

Web Print is accepted.

TCP Port Number :

80

WebPRNT Service :

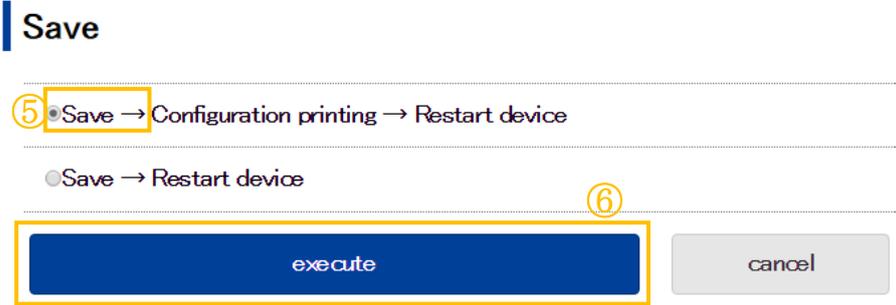
ENABLE

④

Please execute “Save” menu if these settings are correct.

Return to [Previous page <WebPRNT>](#)
(Don't use “Back” button of browser to return.)

- 5 Select "Save-> Configuration printing -> Restart device"
- 6 Click "execute" button. Then printer executes reboot and setting is finished.



Fin

■How to set BCR for Star webPRNT (example: mPOP-BCR)

From I/F firmware ver. 1.2, you don't need to change to HID class setting for mPOP-BCR

[Star SCD222U]

Please connect to USB A port on HI01X interface and power on a printer, HI01X firmware will detect automatically if there is a supported device. (Firmware Version 1.4 or later)

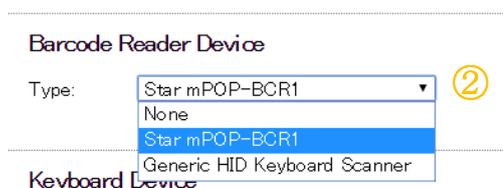
[mPOP-BCR1 / Zebra DS9208]

Visit the web configuration utility.

1. Select [System Configuration] menu



2. Select mPOP-BCR in [Barcode Reader Device]. (Firmware Version 1.2 or later)



* For other HID BCR, select [Generic HID Keyboard Scanner] and put VID and PID of Barcode Reader Device. In this case, "a" to "f" must be input as lower case.

You can check the BCR of VID and PID by Windows "Device manager"

(Windows button > Computer > Manage (right click))

Barcode Reader Device

Type:

vid:

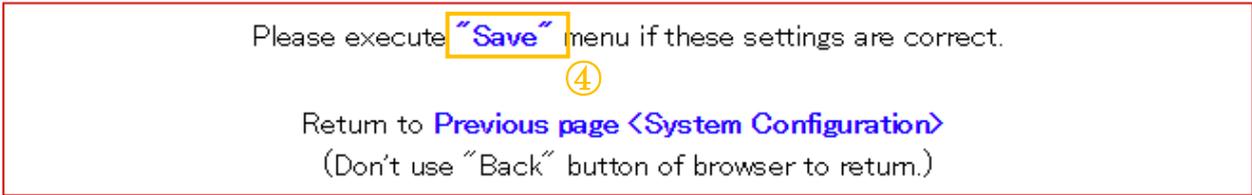
pid:

*Available with WebPRINT

3. Click "Submit" button on the bottom of web page..



4. The following message is shown. Select "Save".



5. Select "Save-> Configuration printing -> Restart device"

6. Click "execute" button. Then printer executes reboot and setting is finished.

Save

Save → Configuration printing → Restart device

Save → Restart device

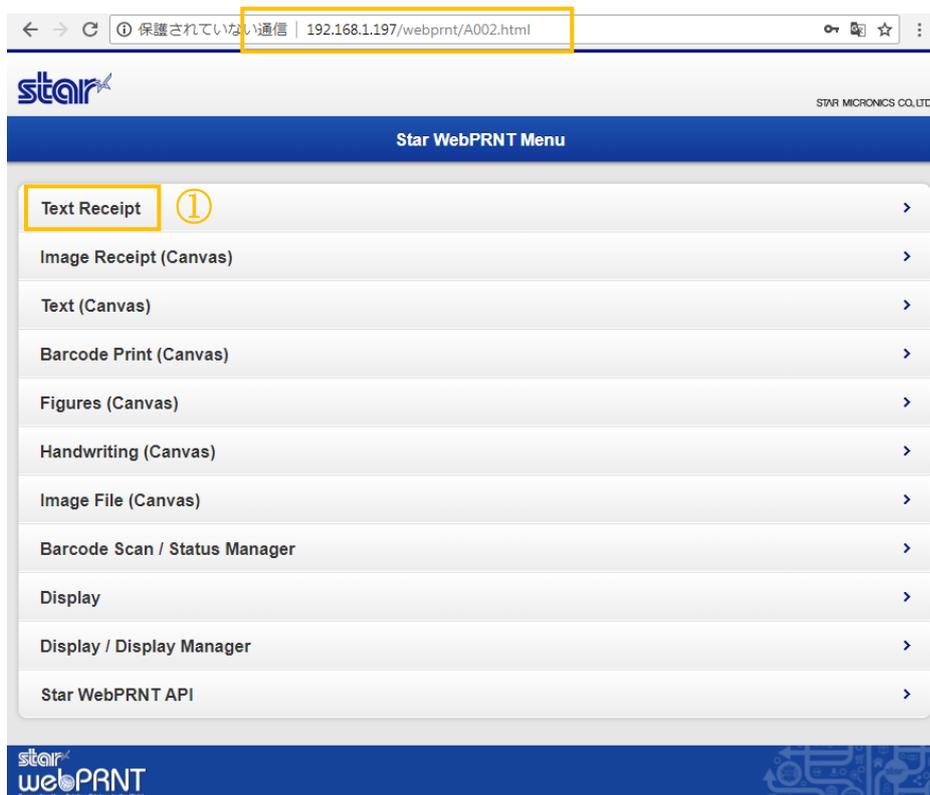
Fin

■Star webPRNT demo

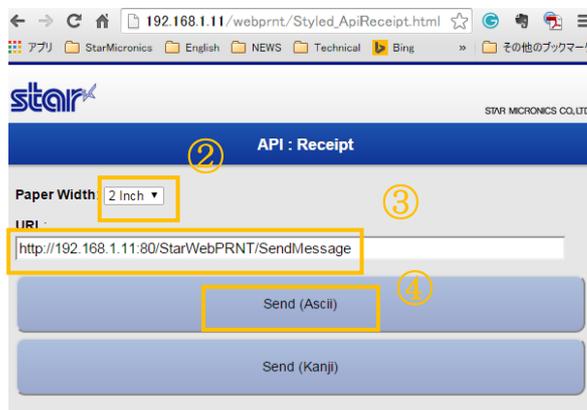
Open the web browser (Safari, Chrome) and put “<http://IPAddress/webprnt/A002.html>” into web-browser to visit Star webPRNT demo site. Star webPRNT demo site which is located in IFBD-HI01X is shown as below.

<Print demo>

1. Select “Text Receipts” to make print demo



2. Select “3 inch” at Paper Width.
3. Put “<http://IPAddress/StarWebPRNT/SendMessage>” into the URL of web app sample.
4. Click “Send” button. Then the printer prints a receipt.



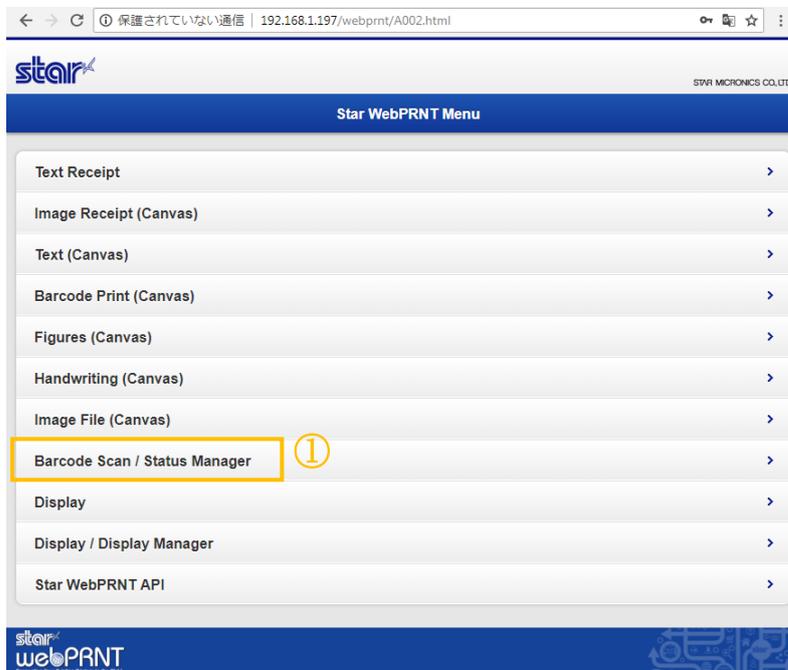
Fin

<Barcode reader demo>

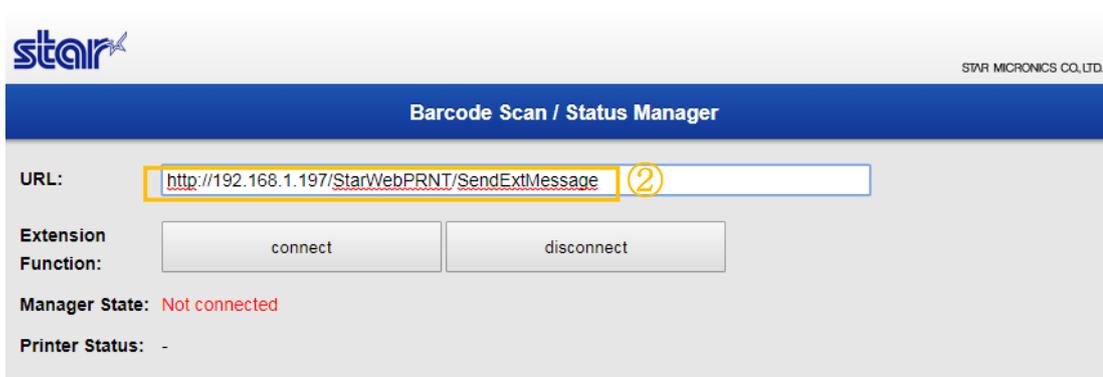
Note: Before making BCR demo you have to set BCR information (VID, PID).

Please see previous section for the detail.

1. Select "Barcode Scan / Status Manager".

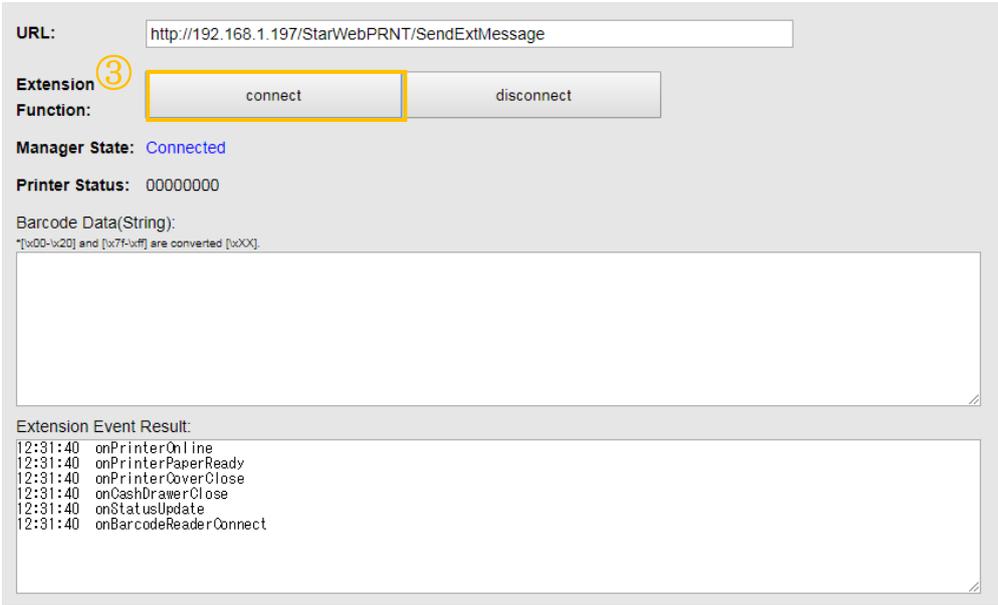


2. Put "<http://IPaddress/StarWebPRNT/SendMessage>" into the URL of web app sample.



3. Click “connect” button, then the following messages are shown in “Extension Event Result”

e.g. -----
12:31:40 onPrinterOnline
12:31:40 onPrinterPaperReady
12:31:40 onPrinterCoverClose
12:31:40 onCashDrawerClose
12:31:40 onStatusUpdate
12:31:40 onBarcodeReaderConnect



4. When scan the barcode data, the scanned data is shown in “Barcode data” and event is shown in “Extension Event Result”

e.g.
<Barcode Data> -----
4901777317680

<Response> -----
onBarcodeDataReceive

5. Finish barcode control, click “disconnect”

star STAR MICRONICS CO.,LTD.

Barcode Scan / Status Manager

URL:

Extension Function:

Manager State: **Connected**

Printer Status: 00000000

Barcode Data(String):
*[v00-v20] and [v7f-vff] are converted [vXX].
4901777317680 [v0d] [v0a]

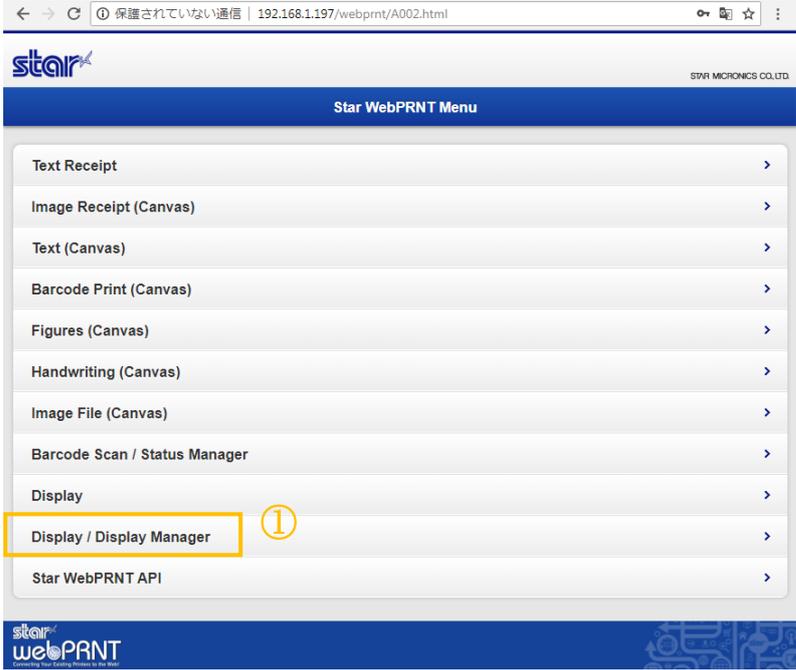
Extension Event Result:
12:31:40 onPrinterOnline
12:31:40 onPrinterPaperReady
12:31:40 onPrinterCoverClose
12:31:40 onCashDrawerClose
12:31:40 onStatusUpdate
12:31:40 onBarcodeReaderConnect
12:32:29 onBarcodeDataReceive

Clear

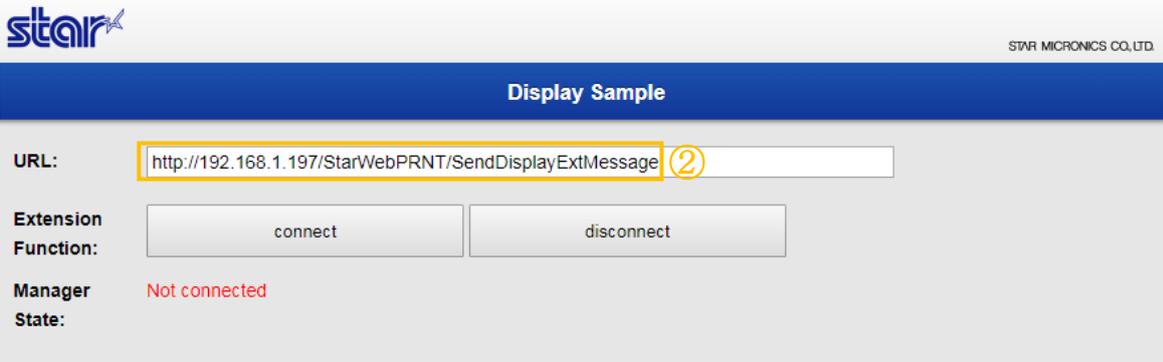
Fin

<Customer Display demo>

- 1. Select "Display / Display Manager".

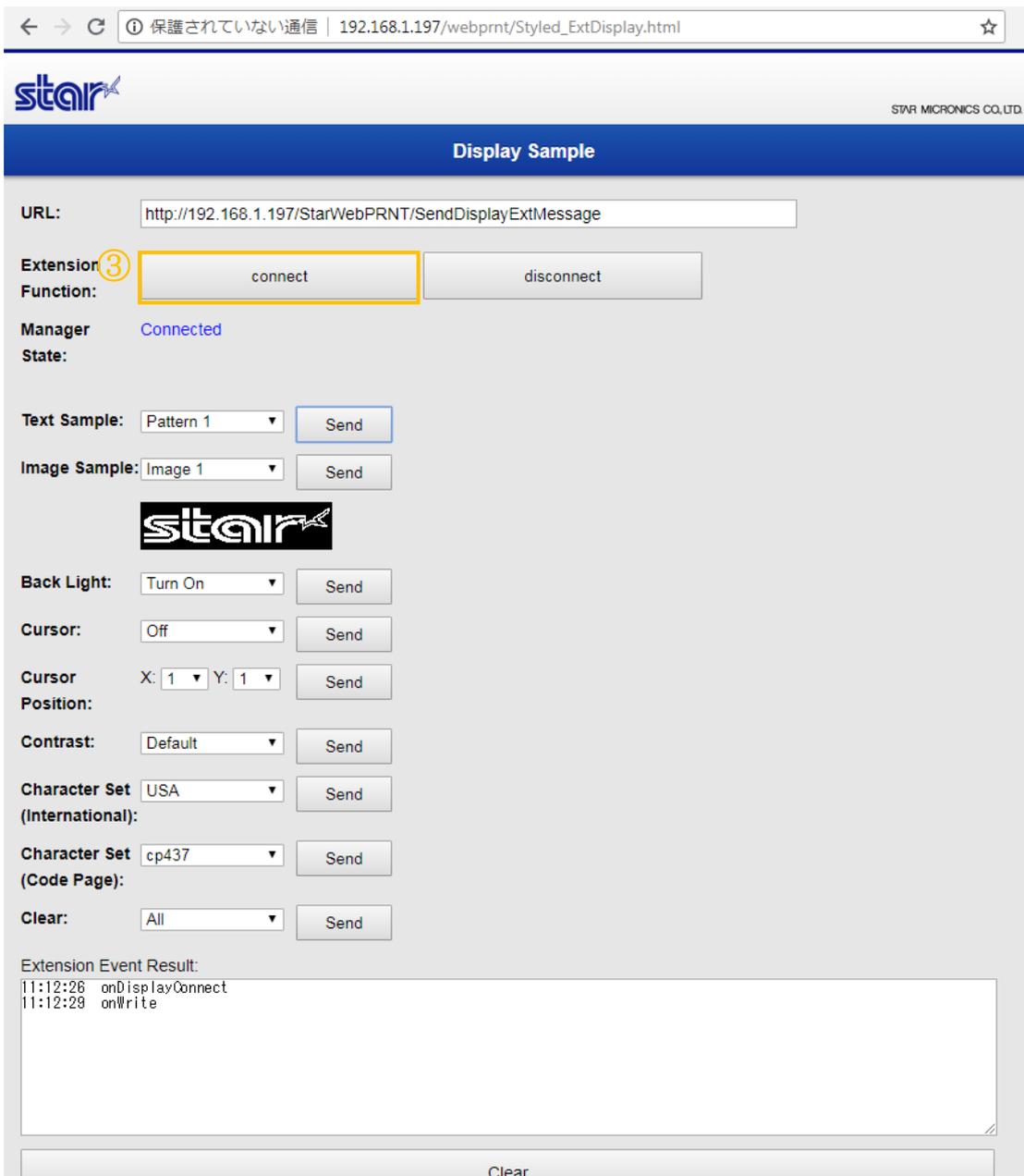


- 2. Put "<http://IPaddress> /StarWebPRNT/SendMessage" into the URL of web app sample.



3. Click “connect” button, then the following messages are shown in “Extension Event Result”

e.g. -----
 11:12:26 onDisplayConnect

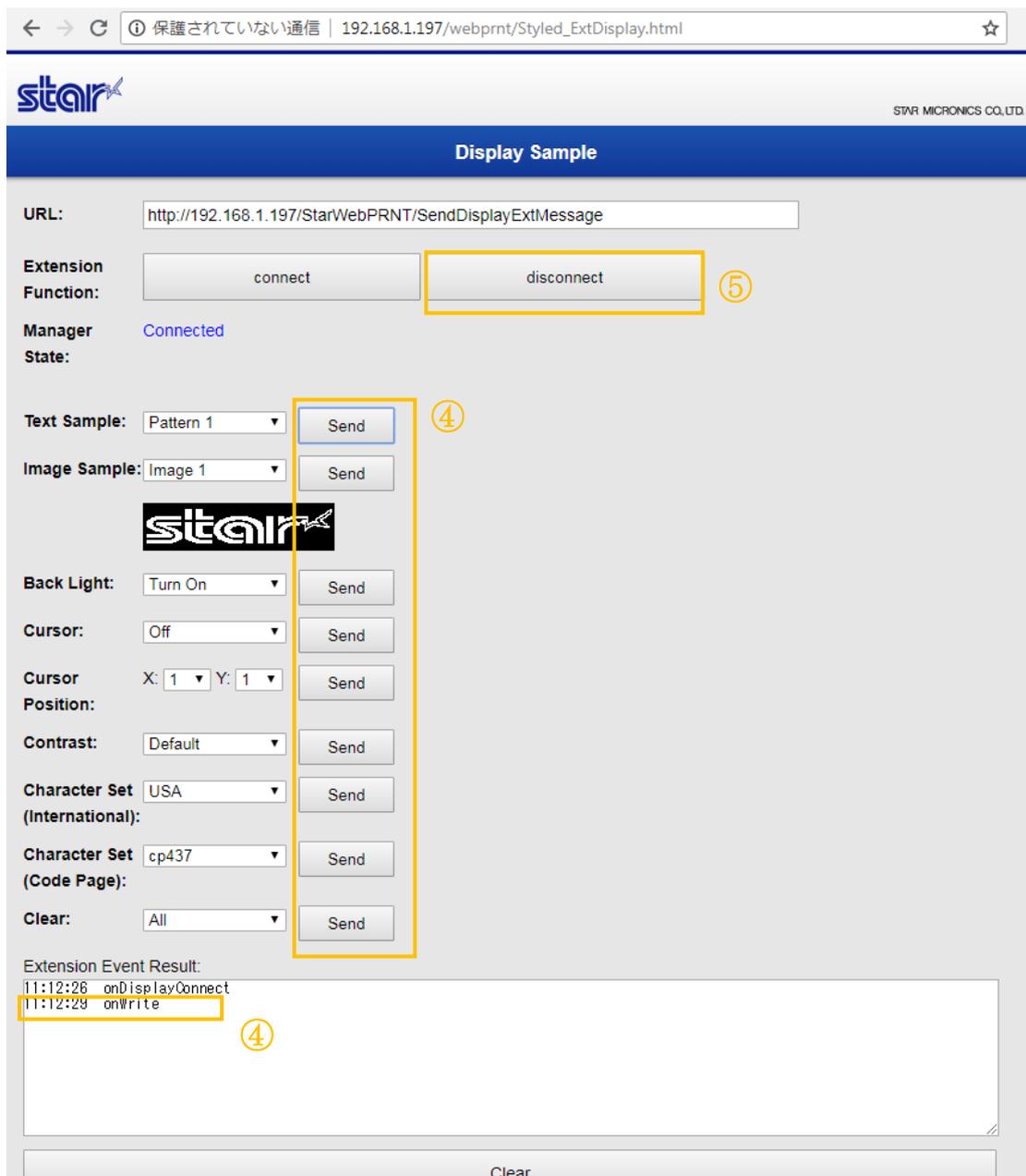


- When it writes the customer display data(Please push any “Send” button), event is shown in “Extension Event Result”

e.g.

```
-----
11:12:29 onWrite
-----
```

- Click “disconnect” button, then the following messages are shown in “Extension Event Result”



Fin

6. CloudPRNT

■ How to set CloudPRNT in HI01X/02X

1. Select [CloudPRNT] menu of WebUI.
2. Select "ENABLE". (Factory setting is ENABLE)
3. Put server URL (Factory setting is <https://cloudprnt.starmicronicscloud.com/cpdevice>)
(This setting is just pre-setting, so please change to the available server url)
4. Set polling time e.g. [5] seconds (Factory setting : [120] seconds)
5. Set User Name and Password if the server request. (If required)
6. Click "Submit" button.

Device Model:IFBD-HI01X/02X
MAC Address :00:11:62:0D:82:98

CloudPRNT

CloudPRNT Service

ENABLE ▾

Server URL

Polling time (Sec.)

User Name

Password

submit **cancel**

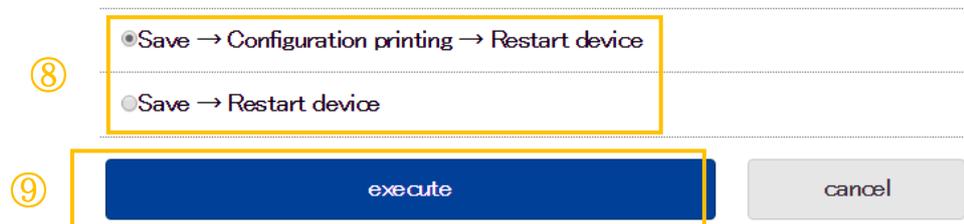
7. Select "Save"

Please execute **"Save"** menu if these settings are correct.

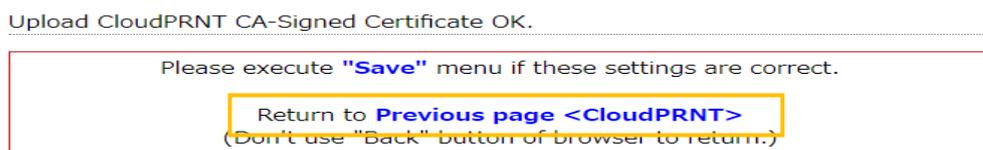
Return to [Previous page <System Configuration>](#)
(Don't use "Back" button of browser to return.)

8. Select "Save -> Configuration printing -> Restart device" or "Save -> Restart device"
9. Click "execute" button. Then printer executes reboot and setting is finished.

Save

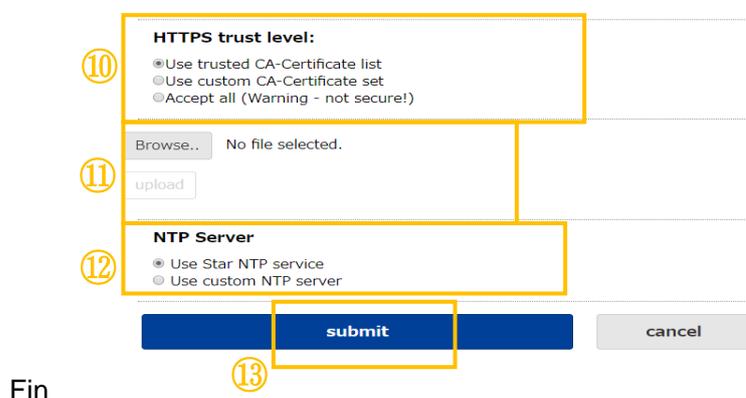


10. To use secure HTTPS communication to server, please set CA-certification to follow server specification.
 - 0: Use Bundle of CA Root Certificates
 - FW Ver 1.7 or earlier - Mozilla as of: Thu Jun 18 14:06:27 2015
 - FW Ver 1.8 or later - Mozilla as of: Wed Jan 1 04:12:10 2020
 - 1: Use custom CA certificate. (Registered by Web UI on CloudPRNT setting)
 - 2: Accept all (Warning - not secure)
11. (If select "1: Use custom CA certificate set" at "10.") Click "Browse.." button and select custom CA certificate file. And click "upload" button. Also Select "Previous page <CloudPRNT>" link and select "1: Use custom CA certificate" again.



12. Select NTP server to obtain the calendar and precious time information.
Default setting is using Star NTP server. If you prefer to use other NTP server, select "Use custom NTP server" and input your NTP server URL.
13. Click "Submit" button, and execute "save" by following 7. 8. 9.

HTTPS Client Settings



Fin

* For server side preparation, Star Micronics provides a server developing document. Please contact your nearest Star Micronics.

How to set Peripheral Device for CloudPRNT in HI01X/02X

From I/F firmware ver. 1.4, you can control to peripheral device via CloudPRNT

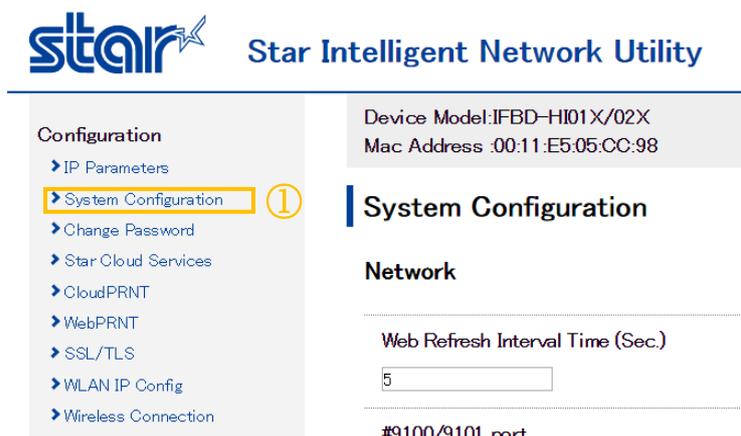
[Star SCD222U]

Please connect to USB A port on HI01X02X interface and power on a printer, HI01X02X firmware will detect automatically if there is a supported device. (Firmware Version 1.4 or later)

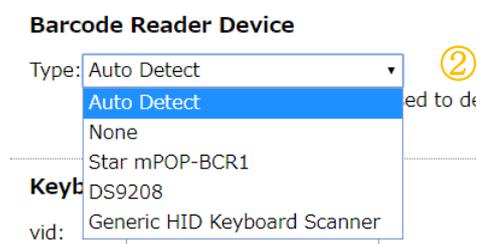
[mPOP-BCR1 / Zebra DS9208]

Visit the web configuration utility.

1. Select [System Configuration] menu



4. Select "Auto Detect" in [Barcode Reader Device]. (Firmware Version 1.4 or later)



* For other HID BCR, "Auto Detect" can't be used to detect Generic HID Keyboard Scanner. So please select [Generic HID Keyboard Scanner] and put VID and PID of Barcode Reader Device. In this case, "a" to "f" must be input as lower case.

You can check the BCR of VID and PID by Windows "Device manager"

(Windows button > Computer > Manage (right click))

Barcode Reader Device

Type:

vid:

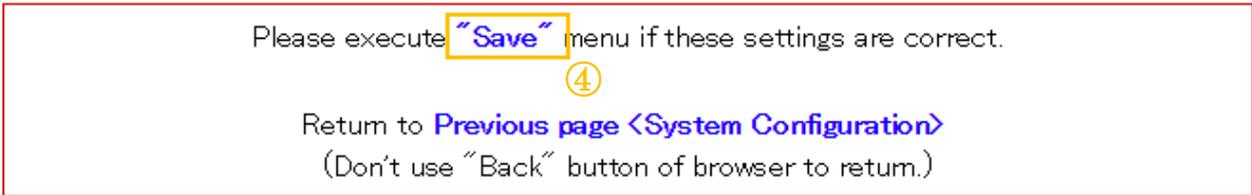
pid:

Note: "Auto Detect" can not be used to detect Generic HID Keyboard type barcode readers.

5. Click "Submit" button on the bottom of web page..



6. The following message is shown. Select "Save".



7 Select "Save-> Configuration printing -> Restart device"

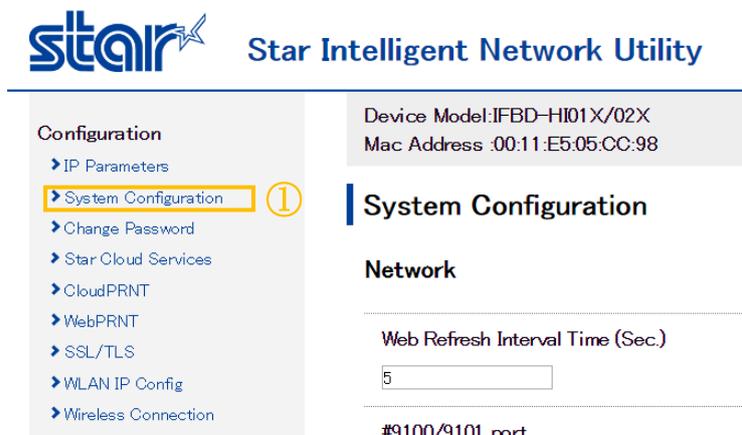
8 Click "execute" button. Then printer executes reboot and setting is finished.



[HID Keyboard Device]

Visit the web configuration utility.

1. Select [System Configuration] menu



2. Select "vid:" and "pid:" in [Keyboard Device] and put VID and PID of HID Keyboard Device. In this case, "a" to "f" must be input as lower case. (Firmware Version 1.4 or later)

Keyboard Device ②

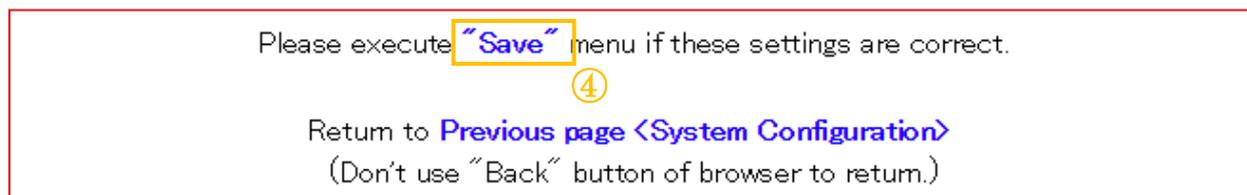
vid:

pid:

3. Click "Submit" button on the bottom of web page.



4. The following message is shown. Select "Save".



- 9 Select "Save-> Configuration printing -> Restart device"
- 10 Click "execute" button. Then printer executes reboot and setting is finished.

Save

⑧ Save → Configuration printing → Restart device

Save → Restart device

⑥

7. Star Micronics Cloud

HI01X/02X supports AllReceipts and do not need to install the driver supporting SCS.

It can be set by using Web Configuration Utility of HI01X/02X instead.

Raster data, Text data and Micro Receipt are supported from IFBD-HI01X V1.3.0 (Sep, 2017)

[Note]

Please do not use the driver supporting SCS together with HI01X/02X SCS function at the same time. If do this, multiple QR code will be added to the receipts.

IFBD-HI01X/02X is supporting the following printing solution for All Receipts.

- Star Line Thermal Printer are supported
- Star Dot Matrix Printer does not be supported.

I/F Board Model	Printer Model	Interface Firmware Version	Supported Printer Driver / SDK
IFBD-HI01X	TSP650II TSP700II TSP800II TSP650IISK	1.2 1.9 or later(*1)	<ul style="list-style-type: none"> • Android StarIO SDK V3.X (Raster data) • iOS StarIO SDK V3.X (Raster data) • StarPRNT Intelligence Printer Driver (Raster data) • Linux / Mac OS X CUPS Driver • CloudPRNT (Raster data)
		1.3 or later 1.9 or later(*1)	<ul style="list-style-type: none"> • Android StarIO SDK V3.X • iOS StarIO SDK V3.X • StarPRNT Android SDK V5.X • StarPRNT iOS SDK V5.X • StarPRNT WindowsStoreApps SDK V5.X • StarPRNT Intelligence Printer Driver • Linux / Mac OS X CUPS Driver • OPOS Driver • JavaPOS Driver • CloudPRNT • Star webPRNT
IFBD-HI02X	SP700	No Support	No Support

(As of June 2020)

(*1) TSP650IISK is supported from FW Ver 1.9 or later

■How to set Star Micronics Cloud in HI01X

1. Select [Star Micronics Cloud] menu of WebUI.
If it has already registered device to SCS on HI01X, then please go to “3.”.
2. Input “User Name” and “Password” for SCS account(*) at [Login], and push “Register Device” to register the HI01X to SCS server. If it just uses default setting, then can be going to “7.”
(*) If do not have an account, then please push “website” link at [Learn about Star Micronics Cloud]
to create SCS account.

star Star Intelligent Network Utility

Device Model:IFBD-HI01X/02X
MAC Address :00:11:62:0D:60:F8

Star Micronics Cloud

Learn about Star Micronics Cloud
Please visit the [website](#) to learn about how Star Micronics Cloud can benefit your business and to sign-up for an account

Login

User Name (email):

Password:

Register Device

submit cancel

3. It can check registered information after registering device at [Registration Information].
4. On “Services”, it can set following items.((*Default)

Item	Value	Description
Upload Data	ENABLE(*) / DISABLE	To enable All Receipts function on HI01X
QR Code Print Size	SMALL / MEDIUM(*) / LARGE	To select printing QR code size.

<p>Micro Receipt</p>	<p>DISABLE: Full Receipt(*) / Information + QR code / Only QR code</p>	<p>To set enable/disable and select printing receipt style with All Receipts function as "Print Content + CTA Logo + QR code" or "CTA Logo + QR code", "QR code".</p>
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- On "Configuration", it can set local time zone by selecting area manually or push "Determine from browser location"(*).
- (*)It has to set "SSL/TLS" (Reference: "2. Web configuration utility") on IFBD-HI01X and access the UI by https because web browser requires the secure access to get a location information.
- Click "submit" button.

Configuration

- ▶ IP Parameters
- ▶ System Configuration
- ▶ Change Password
- ▶ Star Micronics Cloud
- ▶ CloudPRNT
- ▶ WebPRNT
- ▶ SSL/TLS
- ▶ WLAN IP Config
- ▶ Wireless Connection
- ▶ Firmware Update
- ▶ Set Default
- ▶ Save

Display Status

- ▶ Network Card Info
- ▶ Network Status
- ▶ Device Info
- ▶ Device Status
- ▶ Wireless Status

System Access

- ▶ Logout

Contact us

- ▶ Star Web Site
- ▶ E-Mail

Device Model:IFBD-HI01X/02X
MAC Address :00:11:62:0D:60:F8

Star Micronics Cloud

Learn about Star Micronics Cloud

Please visit the [website](#) to learn about how Star Micronics Cloud can benefit your business and to sign-up for an account

Registration

Retailer:
 Device Name:
 DeviceID:
[Refresh Information](#)
[Re-register This Device](#)

[Connect To Dashboard](#)

Services

Upload Data: ENABLE ▾
 QR Code Print Size: MEDIUM ▾
 Micro Receipt: DISABLE: Full Receipt ▾

Micro Receipt setting can be changed in real-time using the [Micro Receipt Control](#) page.

Configuration

Time Zone: Europe/London ▾
[Determine from browser location](#)

submit

cancel

7. Select "Save".

Please execute "Save" menu if these settings are correct.

Return to [Previous page <System Configuration>](#)
(Don't use "Back" button of browser to return.)

8. Select "Save -> Configuration printing -> Restart device" or "Save -> Restart device".
Click "execute" button. Then printer executes reboot and setting is finished.(Fin.)

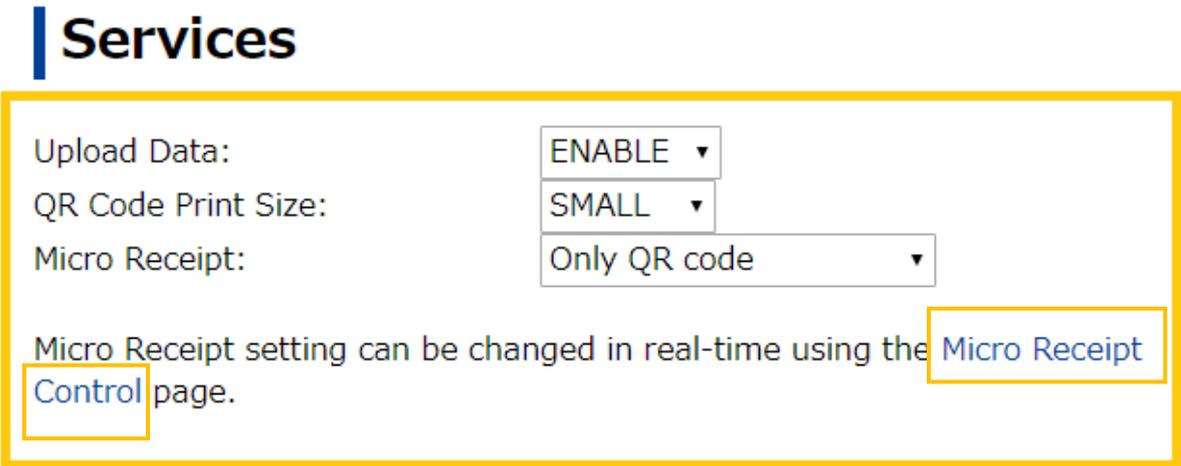
Save

- Save → Configuration printing → Restart device
- Save → Restart device

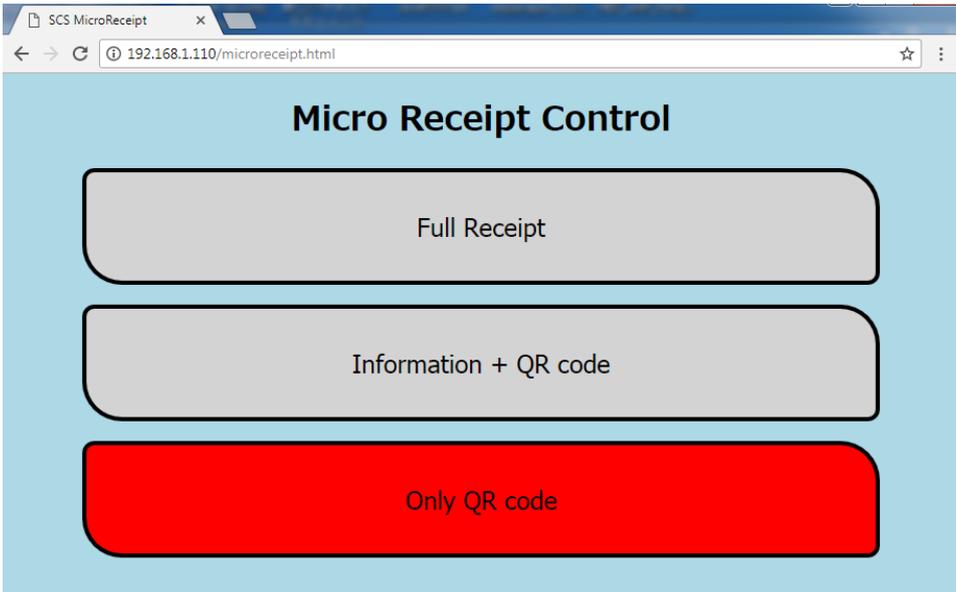
■How to use “On demand” function for Micro Receipt

“On demand” fuction can change the style of Micro Receipt in real time by web browser. Therefore an operator easily can use different Micro Receipt setting on each printed receipt.

1. Click a link on the “Star Micronics Cloud -> Services-> Micro Receipt” of Web Config UI. Or please input the URL which is <http://<Printer IP Address>/microreceipt.html> on web browser.



2. Select style of Micro Receipt. The red color button is showed a current selected style. (Fin) These item description are same as step “4.” in “How to set Star Micronics Cloud in HI01X”.

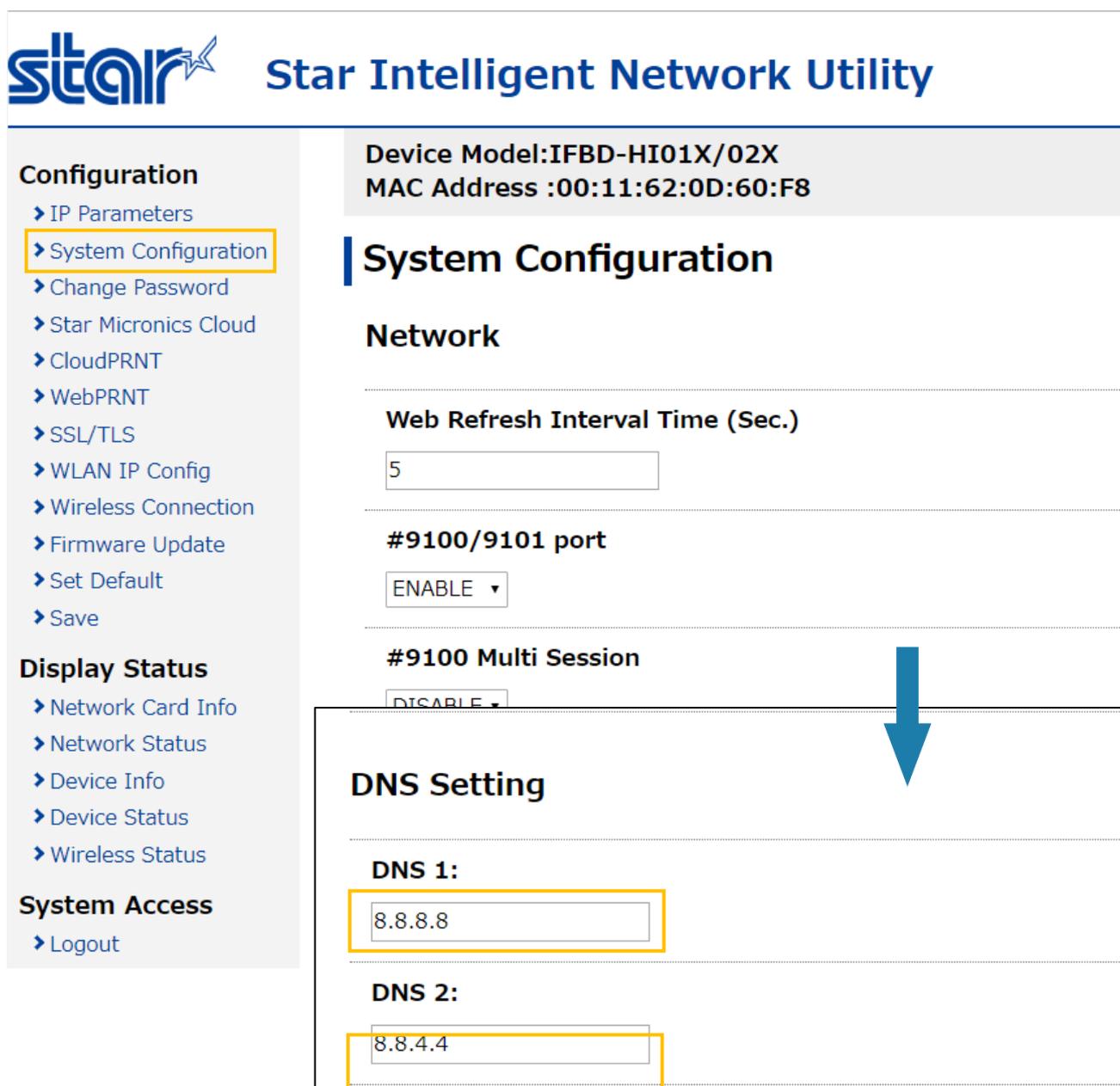


8. DNS Setting

HI01X/02X supports specifying DNS server as optional from IFBD-HI01X V1.5.0 (Sep, 2018).
It can be set by using Web Configuration Utility of HI01X/02X.

■How to set specified DNS Setting in HI01X/02X

1. Select [System Configuration] menu of WebUI.
2. Scroll down on the bar of right hand side and input specified DNS Server's IP address.
(Please input the IP at "DNS 1" or "DNS 2")



star Star Intelligent Network Utility

Device Model:IFBD-HI01X/02X
MAC Address :00:11:62:0D:60:F8

Configuration

- ▶ IP Parameters
- ▶ System Configuration
- ▶ Change Password
- ▶ Star Micronics Cloud
- ▶ CloudPRNT
- ▶ WebPRNT
- ▶ SSL/TLS
- ▶ WLAN IP Config
- ▶ Wireless Connection
- ▶ Firmware Update
- ▶ Set Default
- ▶ Save

Display Status

- ▶ Network Card Info
- ▶ Network Status
- ▶ Device Info
- ▶ Device Status
- ▶ Wireless Status

System Access

- ▶ Logout

System Configuration

Network

Web Refresh Interval Time (Sec.)
5

#9100/9101 port
ENABLE

#9100 Multi Session
DISABLE

DNS Setting

DNS 1:
8.8.8.8

DNS 2:
8.8.4.4

3. Click "Submit" button in the bottom of this screen.



4. Click the menu [Save].

Select any of the following, the click Execute:

- Save → Configuration Printing → Restart device
- Save → Restart device

(After the set print is output, when you select, Configuration Printing) Wait for the printer to reset.



Fin

Appendix A. Term and Condition

Please refer to <https://www.starmicronicscloud.com/legal/retailers/terms-and-conditions/>.

Appendix B. Privacy Policy

Please refer to <https://www.starmicronicscloud.com/legal/retailers/privacy-policy/>.

History

Rev 1.0	29th September 2016	Official Release
Rev 1.1	13th January 2017	Applicable printer models added BCR setting Changed
Rev 1.2	27th September 2017	Added 3 supported Wi-Fi dongles Added Notes about changing setting of printer at “Instruction” Added SSL/TLS setting description at “Web configuration utility” Added CloudPRNT setting and Disconnect Message at “Setting by USB memory” Added the description of All Receipts and Micro receipt settings
Rev 1.3	9th March 2018	Added Peripheral Device setting for CloudPRNT function
Rev 1.4	12th September 2018	Added USB Memory Firmware Update feature Added Customer Display Device support for webPRNT function Added specified DNS server setting feature Renamed from Star Cloud Services to Star Micronics Cloud Added factory setting for CloudPRNT settings Added Appendix A and Appendix B Revised the address of company
Rev 1.5	8th February 2018	Revised written errors Revised the address of company
Rev 1.6	24th June 2019	Revised written errors Added 2 supported WiFi dongles
Rev 1.7	9th September 2019	Added Change Password description at “Web configuration utility”
Rev 1.8	7th November 2019	Added WiFi dongle description
Rev 1.9	28th February 2020	Added Notes at introduction Revised image/description for web configuration of CloudPRNT.
Rev 2.0	17th June 2020	Added applicable printer model
Rev 2.1	26th February 2021	Added Set Default description at “Web configuration utility”
Rev 2.2	25th June 2021	Added 4 supported Wi-Fi dongles. Changed the top page of Web configuration utility image.



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