



INFORTAP-R13A

USER MANUAL

Version 1.3

2019

ESL Introduction

Electronic Shelf Label System (ESL) provides product information by replacing series of task which is printing attaching price, and merchandise information in paper to electronic display.

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1. InforTab-Ready Preparation

In order to set and monitor InforTab-Ready, Personal computer with network is required.

1-1 InforTab-Ready Composition

Compositions of InforTab-Ready are,

- 13.3 Inch InforTab(R13A) 1EA
- Gateway 1EA, Antenna 4EA
- 5V Power cable 1EA, LAN cable 1EA
- Remote Controll 1EA, UnlockTool 1EA



1-2 Network, UI setting

■ PC Network setting

For connecting Gateway and User.

Gateway IP is set by 192.168.220.236 in advance.

Setting a PC network fixed IP is required. For instance, 192.168.220.45 can be set as PC network IP.

To change PC network IP,

Control Panel > Network Internet > Network settings > Ethernet Properties > Internet Protocol version 4(TCP/Pv4) > Use following IP > Confirm

인터넷 프로토콜 버전 4(TCP/IPv4) 속성

일반

네트워크가 IP 자동 설정 기능을 지원하면 IP 설정이 자동으로 할당되도록 할 수 있습니다. 지원하지 않으면, 네트워크 관리자에게 적절한 IP 설정값을 문의해야 합니다.

☐ 자동으로 IP 주소 받기(O)

☒ 다음 IP 주소 사용(S):

IP 주소(I): 192 . 168 . 220 . 45

서브넷 마스크(U): 255 . 255 . 255 . 0

기본 게이트웨이(D): 192 . 168 . 220 . 1

☐ 자동으로 DNS 서버 주소 받기(B)

☒ 다음 DNS 서버 주소 사용(E):

기본 설정 DNS 서버(P): 8 . 8 . 4 . 4

보조 DNS 서버(A): . . .

☐ 끝날 때 설정 유효성 검사(L)

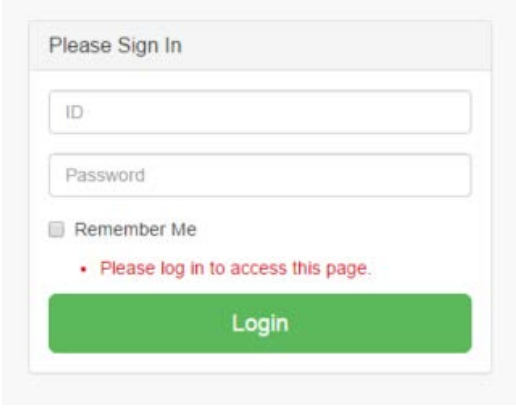
고급(M)...

확인 취소

■ Connect InforTap UI

- 1 Plug in Gateway with power cable, and connect to PC by LAN cable. If all of these connected properly, Red, Green, and Blue lights will go on.

- 2 Run internet browser in PC, and write Gateway fixed IP (192.168.220.236) on address bar.
- 3 If connected properly, InforTab UI screen will appear.
- 4 Change Password in Menu 'Account Setting'. Initial ID is 'admin' and password is '1234'.

A screenshot of the InforTab login interface. It features a light gray background with a white login box. The box has a title bar that says "Please Sign In". Inside the box, there are two input fields: "ID" and "Password". Below these fields is a checkbox labeled "Remember Me". A red error message, "• Please log in to access this page.", is displayed below the checkbox. At the bottom of the box is a large green button with the text "Login" in white.

1-3 InforTab Assign

InforTab and specific product work together showing the product information. This system is operated by 'Assign' process.

■ Assign confirmatory

InforTab-Ready's 4 InforTabs are already assigned.

Assigned InforTab in Gateway can be verified by

'Status > Tag' in UI.

	Tag MAC	Store Code	Gateway IP	Operation	Result	Battery	Temperature	RSSI
1	78E980FFFE004DD2	store-1	localhost:8080	UPDATE	ok	32	26	-40
2	78E980FFFE004DD9	store-1	localhost:8080	UPDATE	ok	30	25	-46
3	78E980FFFE004DE4	store-1	localhost:8080	UPDATE	ok	32	25	-37
4	78E980FFFE004DE5	store-1	localhost:8080	UPDATE	ok	30	26	-45
5	78E980FFFE004DE7	store-1	localhost:8080	UPDATE	ok	32	25	-37
6	78E980FFFE004DE9	store-1	localhost:8080	UPDATE	ok	30	25	-40

*Assign: Connect
InforTab and
Product in Gateway.*

*Update: To change
product information
with Assigned
InforTab*

*De-Assign:
Disconnect
InforTab and
Product in Gateway.*

■ InforTap Mac Address check

InforTab Mac address is displayed as barcode when you press '>' or '<' buttons of remote controller in front of tag.

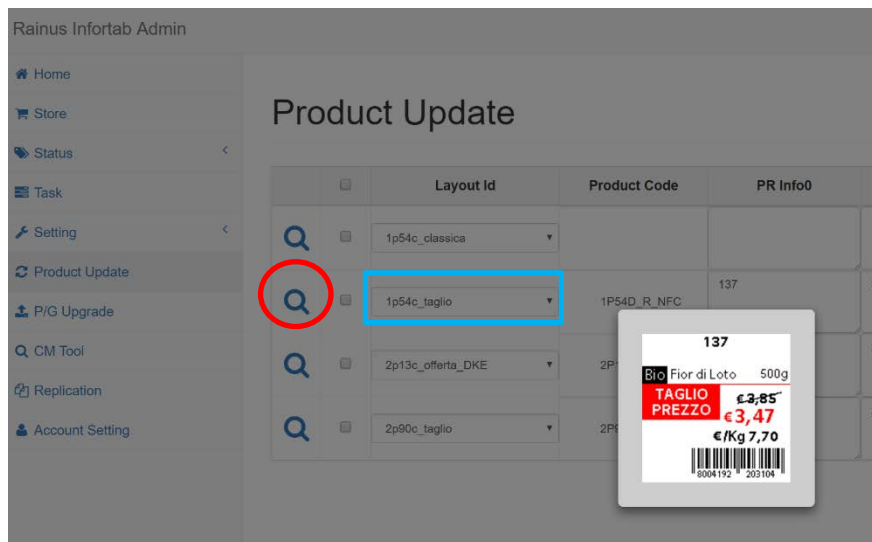
Delete 2 digits and leave 4 digits from the back in order to search Mac address in UI.

For further more explanation, if Mac address is '78E980FFFE004C4B', can be searched by '004C'.

2.InfoTab Update

2-1 Confirm InfoTab Layout

InforTab Layout can be found at 'Product Update' menu.



 Layout choice

 Layout look preview

Layout is location of information and design which shows in tag display. It can be adjusted in 'Layout Designer'.

We provide 'Layout Designer Manual' in addition which guides how to use 'Layout Designer'.

2-2 Product information Update

Product Update window is as below picture.

Rainus InforTab Admin

Product Update

Layout Id	Product Code	PR Info0	PR Info1	PR Info2	PR Info3	PR Info4
1p54c_classica	1P54D_R_NFC	137	3,65	500g	kg 7.70	8004182203104
1p54c_baglio	1P54D_R_NFC	137	3,65	500g	kg 7.70	8004182203104
2p13c_offerta_DNE	2P13D_R_NFC	137	3,65	500g	kg 7.70	8004182203104
2p13c_baglio	2P13D_R_NFC	137	3,65	500g	kg 7.70	8004182203104

Update Remove

- 1 Choose proper Layout and put appropriate InforTab information.
- 2 Check the square box in the right side and click 'Update' in the bottom side of page.

Confirm

Would you like to check the task in progress?

OKAY CANCEL

Update

- 3 Press 'Okay' to confirm the procedure.

2-3 Confirm InfoTab Update Result

After the update, the page automatically moves to 'Task' menu in UI and it is available to check update status in real time.

2015-09-18 00:00 2015-09-18 23:59 Search						
Task ID	Store Code	Operation	Progress(%)	Start Time	End Time	Detail
1442551953	'Store-1'	UPDATE		2015-09-18 16:39:13	In progress	
	None	LAYOUT	100%	2015-09-18 16:36:30	2015-09-18 16:39:13	
	None	LAYOUT	100%	2015-09-18 16:35:41	2015-09-18 16:36:30	
	None	LAYOUT	100%	2015-09-18 16:10:10	2015-09-18 16:10:46	
	None	LAYOUT	100%	2015-09-18 16:09:35	2015-09-18 16:09:45	
1442558472	None	LAYOUT	100%	2015-09-18 16:08:39	2015-09-18 16:08:57	
	'Store-1'	UPDATE	100%	2015-09-18 15:41:12	2015-09-18 15:41:37	
	'Store-1'	ASSIGN	100%	2015-09-18 15:41:12	2015-09-18 15:41:12	

InforTab update generally completes in 5 minutes, but time it can be delayed by network circumstance.

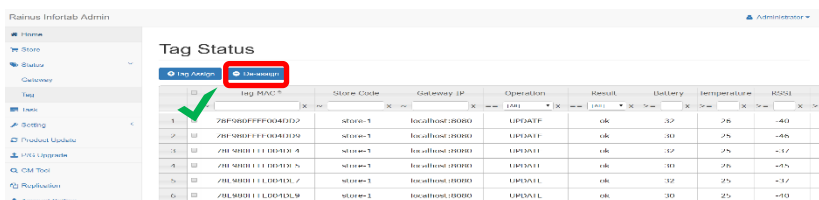
To make InforTab update on purpose, Remote Controller.

After flicker light, update process will be operated when press the 'R' button of remote controller.

3. InforTab De-Assign, Re-Assign

3-1 InforTab De-Assign

‘De-Assign’ is process that to de-assign InforTab and product from Gateway. De-assigned InforTab cannot be updated unless re-assign it back.



Tag	Tag ID	Store Code	Gateway ID	Operation	Result	Delivery	Temperature	Battery
1	28F080FFFF00000000	store-1	localhost:8080	UPGRADE	ok	32	78	~40
2	/HL/SH031110000000	store-1	localhost:8080	UPGRADE	ok	30	75	~45
3	/HL/SH031110000000	store-1	localhost:8080	UPGRADE	ok	32	75	~47
4	/HL/SH031110000000	store-1	localhost:8080	UPGRADE	ok	30	75	~45
5	/HL/SH031110000000	store-1	localhost:8080	UPGRADE	ok	32	75	~47
6	/HL/SH031110000000	store-1	localhost:8080	UPGRADE	ok	30	75	~45

For de-assign, select ‘Status > Tag’ menu in UI and press ‘De-assign’.

3-2 InforTab Re-Assign

If need to update back, ‘Re-Assign’ work is required. Choose ‘Status > Tag’ Menu in UI and click ‘Assign’.

Tag Assign

File Import

Default Product Code

Tag Assign

Tag MAC

Tag MAC

Product Code

Product C

Submit

Reset

After click ‘Assign’ button, write down the InforTab Mac address and product code. Then press the ‘Save’ to make procedure complete.

Appendix

Wireless Network Circumstance

InforTab system uses two channels of wireless 2.4GHz, so that it can effect updating speed of InforTab according to wireless network environment.

■ Wireless Channel

According to wireless circumstance, InforTab system may not

Rainus Infortab Admin

Administrator

Home

Store

Status

Task

Setting

Server Config

Store Config

Gateway Config

Embedded Font Config

Product Update

Gateway Config

Store Code														Gateway MAC				Q Search	
Gateway MAC	Store Code	GW Index	Gateway IP	Netmask	Default GW	DNS IP	ESL Server IP	ESL Server Port	Data Channel	Event Channel	Radio Power	OP Mode	Note	Channel Mask	Radio Baud	GMP Version	GRM Version	Updated	
70:2C:1F:03:1A:21	store-1	0	localhost:8080	255.255.255.0	192.168.220.1	203.248.252.2	localhost	80	13	14	100	norm	Note something	12	250	2.1.0	4	2016-11-08 02:38:28	



be operated properly by influence with other wireless instruments. In this case, changing channel is required.

In order to change channel, click 'Gateway Config' menu in UI and press 'Setting' Icon in right side of the page.

Gateway Config

Gateway Config Update

Gateway MAC: 70:2C:1F:03:1A:21

Store Code: store-1

GW Index: 0 must be a unique value in a store

IP Address: localhost.8080 Gateway IPv4 address

Netmask: 255.255.255.0

Default GW: 192.168.220.1 Default GW IPv4 address

DNS IP: 203.248.252.2

ESL Server IP: localhost ESL Server IPv4 address

ESL Server Port: 80

Data Channel: 13 IEEE 802.15.4 channel(11~26)

Event Channel: 14 channel(11~26), should use one value for all gateways in a store

Radio Power: 100 Radio power in percentage(1~100)

OP Mode: norm Use "Normal Operation"

Channel Mask: 12 Calculated by system on data channel change

Radio Baud: 250 Gateway Ethernet MAC

GMP Version: 2.1.0 Gateway Main Processor Version

GRM Version: 4 Gateway Radio Module F/W Version

Note: Note something

Submit Reset

Date channel, Event channel are composited with 11~26 channels..

Begin with 11 channel and go up until finding a proper one.

Press 'Save' button to confirm the channel.

■ Using NFC

By activating and tagging the mobile phone NFC function, you can access the information of goods stored inside the NFC IC mounted inside the R13A.

The NFC IC inside the R13A can only store information about the product and then help the user access the information through the mobile phone.

FCC Warning statement

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference,

and

(2) This device must accept any interference

received, including interference that may cause

undesired operation.

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF Radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Any changes or modifications (including the antennas) to this device that are not expressly approved

by the manufacturer may void the user's authority to operate the equipment.