Eastsun *E-Tag* Management System Manual

---E-Paper Electronic Shelf Label Solution



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Acknowledgements!

Thank you for your interest in Eastsun Electronic Shelf Label system! This manual applies Eastsun Technology E-Tag ESL Management System. It helps you to quickly learn the E-Tag ESL Management System's operating environment, scope of application and methods of operation.





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1. Summary

1.1 Software Description

E-Tag ESL Management System is base on Windows OS to Manage the Electronic Shelf Label. Can updated and management the goods' information on ESL tag; Can management the tag and station. Include Data Management, Station Management, Template Management, User Management, Product Item Management. The software has friendly interface, simple operation, complete functions, can be very easy to help to manage commodity information and data refresh.

3.2 Feature

- * Label refresh (can be single or batch update tags)
- * Multi-user management (setting different roles management authority)
- * Product Information Database (Product Information Data Management queries)
- * Display template design (design according to the different needs of different display templates)
- * Scheduled Tasks function (regularly updated label)
- * Log report query (transaction log records, export records report)



1.3 Using Environment configuration

Operation System: Windows XP/WIN7/Windows server 2003 or higher

Program & Controls: Microsoft Office Excel 2003 or higher version,

Microsoft Office Access 2003 or higher version,

NetFramework4.0

4 Operation

2.1 Registration

Before using this software need to get registration code from your service, follow these steps:

A. Open E-Tag Management System.exe file, a dialog box

Regedit ID 7cfa5e5c6559a281ceb2ee899278e722 Regedit Code	RegEdit			
Kegedit Code	Regedit ID	7cfa5e5c6559a281ceb2ee899278e722		
Regedit	Regedit Code Regedi	t	Cancel	

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B. Copy "Registration ID" sent to your service provider, access to a registration code

C. Fill in the Regedit Code, Regedit it to log in.

RegEdit	
Regedit ID 7cfa5e5c6559a281ceb2ee8992	78e722
	- 4/2-9/2-D1- 4/2-9/D-D/2-9/2-7/2-0/2-7/2-
Regedit Code 08-88-00-11-09-40-13-05-13	-AC-36-D1-A1-8F-DC-89-1B-26-CT
Regedit	Cancel

2.2 Login

A. Enter the password

B .The default account for Admin, the password is "eastsun" (It can be modified after login)

C. Click on login

Login	
User Name	Admin
Password	
Login	Cancel



2.3 Function Introduction

5 main functional modules: Data Management, Station Management, Template Management, User

Management, Product Item Management after login.

ESL I	anegement Sy	sten													
Data	Manage Statio	n Manage	Template B	Manage User	Manage P:	roduct Item									
	ProductID	Name	Origin	Standard	Unit	articleNumber	Price	Barcode	DollarSign	Promotion	VIPPrice	TagID	StationID	Template	
*															
										Tog ID					
	Add		Modify		Dele	te]	mport Dat:	a	Query	Tag ID	Exi	t			



ZhuHai Eastsun Technology Co., Ltd 2.4 Data Management

The function of Data Management is importing all the goods information into the software and displays it. You can see the product information that needs to display on the E-Tag, the corresponding label, corresponding station, and can be a single add, modify, delete, batch import, query and other operations.

A.Add

Can add individual commodities, the main function is to facilitate to add few product, more convenient operation. Fill in the data and choose the corresponding E-Tag ID, Station ID, and the display template (click the blank of each item will prompt input type) and select OK

🛃 Add Item							
TagID	000001	StationID	01	Template	Sales 💌	ProductID 01	
Name	ESL management system	Origin	DataTypt:Text	Standard		Unit	
articleNumb		Price		Barcode		DollarSign	
Promotion		VIPPrice					
	ок					Cancel	



B.Modify

Modify the currently selected commodity information.

C. Delete

Delete the currently selected commodity information.

D. Import Data

Import bulk commodity information. Fill up all the product information in an Excel Form, select the batch import into the software.

	C10 -												
	A	В	C	D	E	F	G	Н	I	J	K	L	M
1 📲	roduct ID	Name	Origin	Standard	unit	Article Number	Price	Barcode	DollarSign	Promotion	VIPPrice	TagiD	<u>StationID</u> - 1
2 C	-2030	Coca Cola	Original:Korea	500ML	Tin	ES00011	0.59	6690374862411	\$		0.57	431061	2 \$
3 C	-2031	Sprite	Original:Korea	500ML	Tin	ES00012	0.59	6690374862411	S		0.57	43103C	2 \$
4 C	-3132	Composite milk	Original:Korea	450ML	Box	ES00021	0.69	4044217845201	\$		0.68	43105B	2 \$
5 C	-3232	Orange Juice	Original:United Sta	1L	Can	ES00310	1.05	6688102938214	\$		1.045	431051	2 \$
6 C	-4432	Starbucks Coffe	Original:United Sta	450ML	Can	ES00033	1.5	6688431221190	\$		1.49	432108	2 \$
7 C	-2233	Pure Mile	Original:New Zeala	450ML	Box	ES00022	0.99	4044219081341	\$		0.98	431029	2 \$
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
14 4	▶ ⊨ Sheet	1 Sheet2 S	Sheet3 / 🕇 /						i	i			► []

Ensure that the product attribute order in Excel and software product attributes must match the order. Need to be modified before import the product.

EASTSU

ESL Manegement System

Data J	Manage	Station	Manage	Template	Manage Us	er Manage	Product Item									
\sim	Produc	tID	Name	Origin	Standard	l Unit	articleNumber	Price	Barcode	DollarSign	Promotion	VIPPrice	TagID	StationID	Template >	
▶*																

E.Query

Query merchandise. Enter the tag ID, check the corresponding merchandise.

F. Exit

Exit the E-Tag Management System.

t System.

2.5 Station Management



SL Manegement System		
ata Manage Station Manage 7	Cemplate Manage User Manage Product Item	
Station1(01)		
Station2(02)		
Station3(03)		
< · · · · · · · · · · · · · · · · · · ·		Verene
Station ID		
Station Name	Next Page Previous Page	ZUIJ-9-1 ZZ:09:02 Channel service starts successfully Station:02, Status:Online
Add	🗌 Send all station data	
Delete	Delayed Sending	
Send	2013-09-01 10:09:05	

Station Management is managing all station connected to the server for unified management. You can view, add, and

delete the station and management all the E-Tags state which under the station. In addition, the tag data updates.

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A.Add

Enter the base station ID (It can be modify in the login screen) and the station name, such as station ID: 03, Station Name:

Food

Click Add

Food (03)		infomation 区 Add station success 确定
<	<	III III
Station ID 02		Message
Station ID 03		2013-9-1 22:19:04 Channel service starts
Station Name Food	Next Page Previous Page	Station:02, Status:Online
Add	🗌 Send all station data	

After adding the station, the station which registered will be displayed in the Message. The station will

in green if the station had registered, other while will grey.



Select a station, It will show the E-Tag state, product info, E-tag transmission status, tag ID, templates, power, and updated results under the station.

FASTS



ESL Manegement System

Data Manage Station Manage Template Manage User Manage Product Item

			SendStatus	ProductID	TagID	Template	Power	Result	Name	Origin	Standard	Unit	articleNumber	Price
		۱.	V	D-2030	431061	Sales			Coca Cola	Original:Korea	500ML	Tin	ES00011	0.59
				D-2031	43103C	Sales			Sprite	Original:Korea	500 ML	Tin	ES00012	0.59
				D-3132	43105B	Sales			Composite milk	Original:Korea	450ML	Box	ES00021	0.69
Statio	n1 (01)		~	D-3232	431051	Sales			Orange Juice	Original:United States	1L	Can	ES00310	1.05
Diatio.			~	D-4432	432108	Sales			Starbucks Coffee	Original:United States	450ML	Can	ES00033	1.5
			~	D-2233	431029	Sales			Pure Mile	Original:New Zealand	450ML	Box	ES00022	0.99
Statio	n2(02)													
Food	(03)													
<		<												>
						Maggag								

B.Delete

Delete the selected current Station

C. Send

New commodity or commodities that have been modified to be sent by default state, you can see the "Send status" has been



selected, indicates that the Tag is already in the state to be sent.

Select a station, click Send, you can update all the tag which "Already to be sent" under this station.

Select send all station data and click Send, which is updated all the tag.

Select Delayed Sending and enter the time and date, you can enable regular updates, then updates all the E-Tag in the "Already

to be sent" state (all additions and modifications of E-tag is to be sent by default state, as long as you set the update time, no need to select the station and click to send).

Next Page Previous Page	
Send all station data	
✓ Delayed Sending	
2013-08-01 10:30:18	

The results will show in the Message. For example, choose to updated 6 E-tag which under the station 02, you can see the updated results and tag status.

Y	Message					
2013-9-1 22:30:17 Channel service starts successfully						
	Stat <u>ion:02, Status:</u> Online					
7	Start Station 02 data.					
`	Data Count:6					
	,					



Message		
Start Station 02 data		~
Data Count:6		
StationID:02 TagID:041010	Signal:-87 Power:Weak Tag Status:Faild	
StationID:02 TagID:041011	Signal:-89 Power:Weak Tag Status:Faild	
StationID:02 TagID:041012	Signal:-89 Power:Weak Tag Status:Faild	
StationID:02 TagID:041013	Signal:-88 Power:Weak Tag Status:Faild	
StationID:02 TagID:041014	Signal:-87 Power:Weak Tag Status:Faild	
StationID:02 TagID:043103	Signal:-54 Power:Full Tag Status:Success	
		×

The tag's power and results will be show in the E-tag list.

	C 3C + . +	Deve deve t TD	TTD	T1-+-			Provil	N	Onicia	Stor dowd	The data	l anti alla Norah an	L Devi e e
	SendStatus	Productip		Seles		Fower	Result	Mame	Origin	Standard	Unit	articleNumber	Price
-		D-2030	043103	Sales		FULL	Success	Coca Cola	Original:Korea	500ML	Tin	E500011	0.59
		D-2031	041010	Sales	\vdash	weak	Faild (Sprite	Original: Korea	SUUML .	-	E300012	0.09 6
		D-3132	041011	Sales		Weak	Faild	Composite milk	Original:Korea	450ML	Box	ES00021	0.69 (
		D-3232	041012	Sales		Weak	Faild	Orange Juice	Original:United States	1L	Can	ES00310	1.05 6
		D-4432	041013	Sales	\setminus	Weak	Faild /	Starbucks Coffee	Original:United States	450ML	Can	ES00033	1.5 6
		D-2233	041014	Sales		Weak	Faild	Pure Mile	Original:New Zealand	450ML	Box	ES00022	0.99 (
<				Mes	sage								>
Next Page Previous Page Send all station data Delayed Sending			Data Stat Stat Stat Stat Stat	a Con tion tion tion tion tion	mt:6 ID:02 TagI ID:02 TagI ID:02 TagI ID:02 TagI ID:02 TagI ID:02 TagI	D:041010 D:041011 D:041012 D:041013 D:041014 D:043103	Signal:-87 Power: Signal:-89 Power: Signal:-89 Power: Signal:-88 Power: Signal:-87 Power: Signal:-54 Power:	Weak Tag Status:Faild Weak Tag Status:Faild Weak Tag Status:Faild Weak Tag Status:Faild Weak Tag Status:Faild Full Tag Status:Success					
2013-08-01 10:30:18				Stat	10n	:01, Status	:Online						~



2.6 Template Management

Customer can design the template and show the info which do you need.

ESL I	laneger	lent System												
Data	Manage	Station Manage	Template Manage	User	Manage Produc	ct Item								
				r										
	ID	TemplateName	TemplateType		ID	TemplateName	X	Y	ItemType	ItemFontSize	ItemAnticolor	ItemName	TestText	
	13	Sales	2.8Inch	*										
▶*														
				Ite	n Name Name	🗸 Тур	e Te	ext 🔽 🔽						
				νD	ngition 1	v p	agition 1							
						I F	i Colon E							
				Fon	t Size f16px	x Y Ant	1 COLOR P							
				Tes	t Text E-Tag	g Management Sys	tem							
					édd D		dify	Test						
Ter	plate 1	Name						1651						
Ter	mlate '	Type 2.8Inch	~	St	ation ID 03		Tag ID							
101						1	(11)							
				Di 21	splay Kesc S Row 424	Column	(H) * 42	4(V).						
	Add	1	Delete	21	5 KOW 424	Column								



A.Add Template

Name the template that you need, choose the template type (2.8 inch or 4 inch).



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B.Create the display properties

Select the "Sales" template which just created, in the right side add the properties. Such as selecting "Name" select type "Text",

"X Position" is 1, "Y Position" is 1, "Font Size" as f16px, "Anti Color" for the False, "Test Text" enter the E-Tag Management

System, click add. You will see the display properties and the site of the information that you would display on the Tag400.

10	TemplateN	ame X	Y	ItemType	ItemFontSize	ItemAnticolor	ItemName	TestText
63	aaa	1	1	Text	f16px		Name	E-Tag Mana
*								
Item Name	Name 🔽	Type Text	🗹 💽	-Tag Manag	ement Sys	tem		
X Position	1	Y Position 1						
Fort Size	f16px 🗸	Anti Color False	· · · ·					
TOIL 5120	E-T N	. S						
lest lext	E lag management	. system						
Add	Delete	Modify	Test					
L								
Station ID	03	Tag ID						
Display	Resolution	28(H) * 232(V						
88 Row 2	232 Column	50(11) ** 202(1						

Noted: Name-Text_f16px, Price-Price-p38x, other item-text-f12px



Add other properties in the template by this method. Select a station, such as 03 and a tag ID043103 for

testing, click on "Test", wait about 40S can see information which you would like to display on the tag.



If the property was incorrect, you can re-select the property, fill in the correct values and modify it.

Users need to test several times to adjust and find the best X position and Y position to display the info.

2.8" label display area is the X-0-88 (vertical), Y-0-232 (horizontal)

4.0" label display area is the X-0-216 (longitudinal direction), Y-0-424 Horizontal)

C. Delete

Delete the selected current Station



2.7 User Management

User Management can add and delete users, change user passwords and check the system log.

A) Adding Users

Click Add User to add a user, enter the name and password, and click Add that will create the new user. (The system default

Admin for the system administrator, have all the privileges, the newly added user only can modify and send, can't do add and delete operations)

Add User	
User Name	Eastsun
Password	*****
Add	Cancel

B) Delete User

Delete selected current user (Admin for the system administrator can't be deleted)

C) Change Password

Enter the old password and the new password, change it..



Change Password	
Old Password	I
First New Password	
Second New Password	
ОК	Cancel

D. System Log

Record all the operations, change, and time.

-Log l	Log List							
	Log Type	Log Time	Log Content					
Login		2013-09-01 19:53:01Z	Login Success					
	System status	2013-09-01 19:53:02Z	Channel service starts successfully					
	Login Out	2013-09-01 19:53:28Z	Exit the System					
	Login	2013-09-01 20:04:46Z	Login Success					
	System status	2013-09-01 20:04:46Z	Channel service starts successfully					
	Login Out	2013-09-01 20:45:03Z	Exit the System					
	Login	2013-09-01 21:36:45Z	Login Success					
	System status	2013-09-01 21:36:48Z	Channel service starts successfully					
	Login Out	2013-09-01 22:06:04Z	Exit the System					
	Login	2013-09-01 22:09:02Z	Login Success					
	System status	2013-09-01 22:09:02Z	Channel service starts successfully					
	Station status	2013-09-01 22:09:33Z	02:Online					
	Login Out	2013-09-01 22:13:56Z	Exit the System					
	Login	2013-09-01 22:19:03Z	Login Success					
	System status	2013-09-01 22:19:04Z	Channel service starts successfully					
	Station status	2013-09-01 22:19:07Z	02:Online					
	Add Station	2013-09-01 22:19:45Z	Station ID:04 Station Name:Food					
	Delete Station	2013-09-01 22:19:55Z	Station ID:04 Station Name:Food					
	Add Station	2013-09-01 22:19:58Z	Station ID:04 Station Name:Food					
	Delete Station	2013-09-01 22:20:07Z	Station ID:03 Station Name:Station3					
	Delete Station	2013-09-01 22:20:10Z	Station ID:04 Station Name:Food					
•	Add Station	2013-09-01 22:20:12Z	Station ID:03 Station Name:Food					
	Login Out	2013-09-01 22:29:53Z	Exit the System					
	Login	2013-09-01 22:30:17Z	Login Success					
	System status	2013-09-01 22:30:17Z	Channel service starts successfully					
	Station status	2013-09-01 22:30:19Z	02:Online					
	Import Data	2013-09-01 22:30:23Z	Import File:C:\Documents and Settings\Administrator\桌面\Product list.xls					

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2.8 Product Item

For manage the product property and the time which you need to display.

Prod	roduct Item List							
	ID	Product Item						
•	1	Name						
	2	Origin						
	3	Standard						
	4	Unit						
	5	articleNumber						
	6	Price						
	7	Barcode						
	8	DollarSign						
	9	Promotion						
	10	VIPPrice						
*								



A.Add product item

Enter the display property; click the Add (up to 15 items). It will show on the "Data Management"—"Add" and "Template

Management"-"Add property".

Aadd Product Item							
Product Item Name							
Add	Cancel						

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🛃 Add Item						
TagID	StationID	~	Template		ProductID	
Name	Origin		Standard		Unit	
articleNumbe	Price		Barcode		DollarSign	
Promotion	VIPPrice					
OK				[Cancel	

Data Manage Station Manage Template Manage User Manage Product Item ID TemplateName TemplateType ID TemplateName | X Y ItemType ItemFontSize | ItemAnticolor | ItemName TestText E-Tag Mana Sales Text f16px Name 43 15 f12px Sales 1 Text Origin Eastsun 44 f12px Sales 28 1 Text Standard System 45 Sales 42 1 Text f12px Unit ABCDE 46 Sales 100 999.99 20 Price р38рх Price 47 120 EAN13 1234567890123 Sales 63 Barcode Barcode 48 Sales 35 90 Text f12px DollarSign \$ 49 Sales 55 1 f12px articleNumber ES123456789 Text 51 VIPPrice Sales 66 1 Text f12px VIP:111.11 62 Sales Text f16px E-Tag Mana... 1 Name 1 Type Text ~ E-Tag Management System Item Name v Eastsun X Position Y Position Origin Standard , 999.99 Anti Color False Y System Font Size Unit articleNumb ABCDE Test Text nt System Price Barcode ES123456789 DollarSign Add Modify Test 1234567890123 VIP:111.11 Sales Template Name Station ID 03 Tag ID ¥ Template Type 2.8Inch Display Resolution 88(H) * 232(V). 88 Row 232 Column Add Delete

B. Delete Product Properties

Delete selected current properties

Connect the Station

3.1 Connect E-station

5

E-Station using encrypt proprietary two-way data communication protocol,433MHz ,can cover radius 20m ,One station can

manage 10,000 – 20,000 pcs tags(depends on the actual environmental conditions).



Interface A, B, C show in the left picture is:

- A: cable interface-(station and PC connection)
- B: 5V/2A DC power interface-(Station power supply)
- C1: Station antenna interface
- C2: Station antenna interface

Connect the relevant interface as above:

- 1) connect computer with station by cable;
- 2) Switch on the station power;

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3) Wait for about 30s. You can see the date send success.

3.2 Setting Station

Access station configuration by login 192.168.1.200, input the default user name and password

(Both are admin), and you can change the password after login, shown as below:

EAST5UT

🖉 home - Vindows Internet Explorer	
🕞 💿 💌 😰 http://192.168.1.200/cgi-bin/home.cgi 🔽 🐓 🗙 🌌 Bing	
🚖 收藏夹 🌈 home	
System Configuration Station configuration Server configuration Start idiStation2 program Stop idiStation2 program Restart idiStation2 program Restart idiStation2 program	Station Configuration
<u>Change password</u> Logout	ETH0 Enabled Mac: 20:13:08:06:09:26 Ip 192.168.1.201 Mask 255.255.255.0 Gateway 192.168.1.1
Search and a searc	WLAN0 Enabled Mac: null
Station default login IP is 192.168.1.200, if you already have	Ip 192.168.1.200 Mask 255.255.255.0 Gateway 192.168.1.1
evices use the IP, then you can set the other IP for the new	SSID TP-LINK_F8F19E PSK 07568970366
tation. Operations are as follows	SSID PSK

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submit

delete

create



A. Click Station Configuration

In ETH0 you can see the Station's IP address, you only need to modify it, and the new IP address is the next login IP.

B. Modify Station Server IP	Server Configuration
Click server configurationFill in the IP address in the Server IP(This IP	Server ip 192.168.1.121
address should same as the Server's IP addressWhich controller all the	434M port 1235
station)	Station id 01
	ok

Click the second item [server configuration], below figure will show, then input your obtained IP, 192.168.1.121, click OK and you can see the success information.



6 server configuration - Vindows Internet Explorer	
Server Configuration	A Derrer config - Tinder Internet Explorer Image: Config: Con
Server ip 192.188.1.103 433M port 1234 434M port 1225 Station id 103	server config success return to home
<u>Return to home</u>	4
Effi	• Rat Gaternat G. • 4,1005 •

Click return to home back to the homepage after IP inputting and select the 5th section [Restart idiStation2 program] to

restart the program, you can find the blue light twinkle once which indicates restart completely.

Note: 1. Only one station IP configuration needs to be done on the same PC. If you change

computer, it needs configuration again.

2.If you need to change the computer, login by the original computer to set and set and logout to quit ,then the new computer can register IP again, otherwise new computer cannot login within 10mins.If logged in but without logout, the system will logout automatically affer 10mins.

3.3 Setting the Server IP

Network place—check network connection—right click the local connection—status--



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Support—check the IP address. The figure for example is 192.168.1.121

(This IP address should same as the Server's IP address---Which controller all the station)

3.4 Change Station Password

Chan	ge Password
Username	max 16 char
Password	📼 max 16 char
ok	
Return to	home

Note:

1.If you forget your username or password, you can Press the reset button 5S to restore factory settings.

2.If you have more than one station, please separately to each station login IP and station ID in order, noted it and modify them, to facilitate future maintenance and query. Each station is required to modify serve IP same as the server (computer)'s IP address.