Eastsun *E-Tag* Management System Manual

---E-Paper Electronic Shelf Label Solution
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
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](image)

### 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](image)
2.3 Function Introduction

5 main functional modules: Data Management, Station Management, Template Management, User Management, Product Item Management after login.

<table>
<thead>
<tr>
<th>ProductID</th>
<th>Name</th>
<th>Origin</th>
<th>Standard</th>
<th>Unit</th>
<th>articleNumber</th>
<th>Price</th>
<th>Barcode</th>
<th>DollarSign</th>
<th>Promotion</th>
<th>VIPPrice</th>
<th>TagID</th>
<th>StationID</th>
<th>Template</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Add  | Modify | Delete | Import Data | Query | Tag ID | Exit |
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.
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.

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

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

F. Exit

Exit the E-Tag Management System.

2.5 Station Management
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.
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
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.
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).

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.
The tag’s power and results will be show in the E-tag list.
2.6 Template Management

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

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

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)

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.
D. System Log

Record all the operations, change, and time.
2.8 Product Item

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

<table>
<thead>
<tr>
<th>ID</th>
<th>Product Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Name</td>
</tr>
<tr>
<td>2</td>
<td>Origin</td>
</tr>
<tr>
<td>3</td>
<td>Standard</td>
</tr>
<tr>
<td>4</td>
<td>Unit</td>
</tr>
<tr>
<td>5</td>
<td>articleNumber</td>
</tr>
<tr>
<td>6</td>
<td>Price</td>
</tr>
<tr>
<td>7</td>
<td>Barcode</td>
</tr>
<tr>
<td>8</td>
<td>DollarSign</td>
</tr>
<tr>
<td>9</td>
<td>Promotion</td>
</tr>
<tr>
<td>10</td>
<td>VIPPrice</td>
</tr>
</tbody>
</table>

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”.
B. Delete Product Properties

Delete selected current properties
5 Connect the Station

3.1 Connect E-station

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;
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:
Station default login IP is 192.168.1.200, if you already have devices use the IP, then you can set the other IP for the new station. Operations are as follows

<table>
<thead>
<tr>
<th>ETH0</th>
<th>Enabled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mac</td>
<td>20:13:08:06:09:26</td>
</tr>
<tr>
<td>Ip</td>
<td>192.168.1.201</td>
</tr>
<tr>
<td>Mask</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td>Gateway</td>
<td>192.168.1.1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WLAN0</th>
<th>Enabled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mac</td>
<td>null</td>
</tr>
<tr>
<td>Ip</td>
<td>192.168.1.200</td>
</tr>
<tr>
<td>Mask</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td>Gateway</td>
<td>192.168.1.1</td>
</tr>
</tbody>
</table>

SSID: TP-LINK_F8F19E, PSK: 07568970366, delete, create

submit
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

Click server configuration---Fill in the IP address in the Server IP(This IP address should same as the Server’s IP address---Which controller all the station)

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.
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 after 10mins.

3.3 Setting the Server IP

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

Change Password

Username [ ] max 16 char
Password [ ] max 16 char

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.