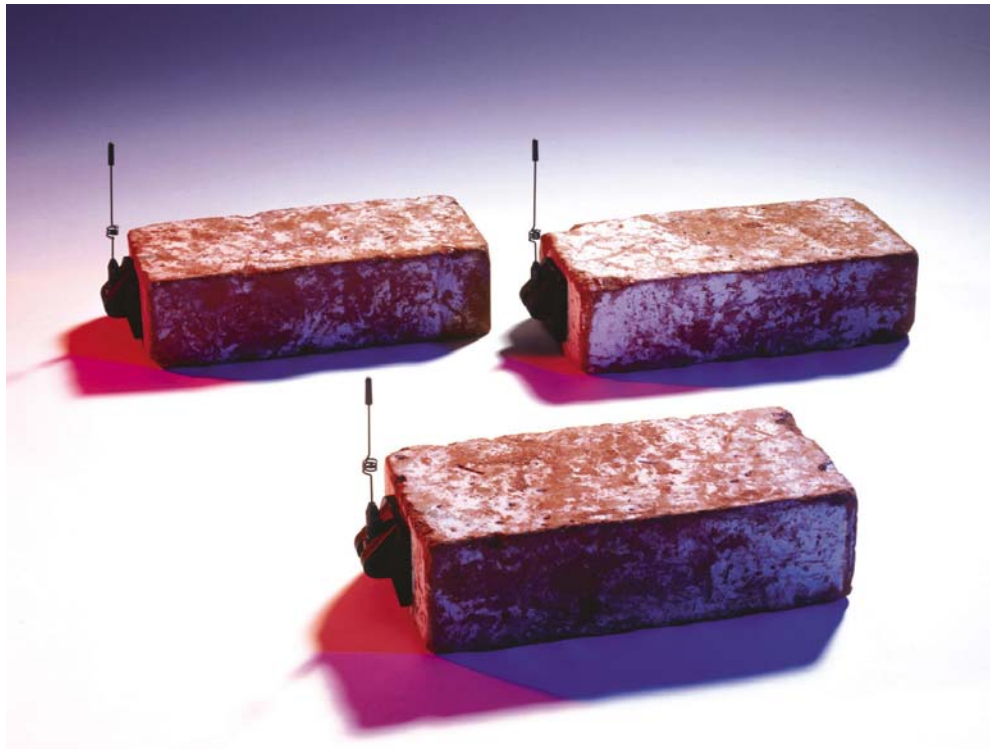

Stay-Linked™

Application Mobility. Host Reliability.



AML M7100/M7140

Client Guide

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1 Stay-Linked Client Overview

The Stay-Linked client software is a "thin" terminal emulation client for AML's M7100 and M7140 terminals. The screens shown in this document are based on a terminal configured with 20 columns and 20 rows.



For Configuration Steps and Tips, please see the supporting documents.

- a. Stay-Linked INSTALL.TXT

2 Stay-Linked Client Splash Screen

```
Stay-Linked  
  
AML A_7100_55  
v6.1.0(###)  
  
eBusiness  
Solution Pros  
  
Copyright 2004-05  
  
Loading
```

3 *Getting Started*

After startup, you will see the Stay-Linked main menu:

```
Stay-Linked v6.2.0
-----
1. Connect to Host
2. Configuration
3. Diagnostics

0. Exit Application

192.168.100.219
00-A0-F8-30-21-4D
```

From the main menu you can:

- Connect to the host to start a new session.
- Configure device settings
- Run device diagnostics

The sections that follow are in the order of the menu shown above. Most often you'll choose option "1. Connect to Host." However, if this is the first time running Stay-Linked on this device, please skip ahead to the following section to configure the terminal for first time use.

- Configuration

4 Security

CONFIG/EXIT PASSWORD: Some menu choices such as “2. Configuration”, and “0. Exit Application” require a password.

The default password is “**esp**”.

```
[ Security ]  
Password:  
-----  
  
Enter Password
```

You can specify a new password in STAYLINK.INI by setting the SYS_PASS parameter in the [DEFAULTS] section to the desired text. The following example sets the password to "bionic":

```
SYS_PASS=bionic
```

5 *Connect to Host*

Select option '1' to initiate a host connection. On the terminal display you will see status messages as shown below:

```
Stay-Linked v6.2.0
-----
Host=192.168.0.13
Port=3006
Connecting...
Register port...
Client connected!
```

Upon success you will see a Telnet Session sign-on screen. If not, these are the typical failure conditions:

"Host timeout!" indicates that the Stay-Linked server is not responding.

Troubleshooting tips:

- Verify that the device is in radio range.
- Verify that the Stay-Linked server software is running.
- Verify that the host IP address and port numbers are correct (see Configure Device)
- Increase the connect timeout period via the Stay-Linked Administrator.

"Can't reach host" indicates there is a problem with network connectivity.

Troubleshooting tips:

- Review the client network settings (AML User's Guide)
- Review the host IP and port settings (see Configure Device)
- Use the built-in ping test to verify that the device can reach the host IP address. (see Ping)

6 Configuration

Select option '2' to modify the configuration of the device.

```
[ Config Device ]

Server IP:
192.168.0.13 ____

1 of 5
```

SERVER IP: IP address the Stay-Linked server is running on.

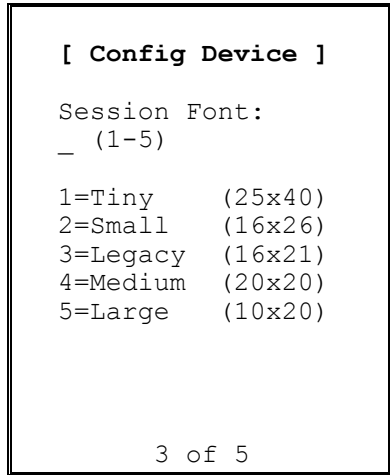
```
[ Config Device ]

Server Port:
3006_

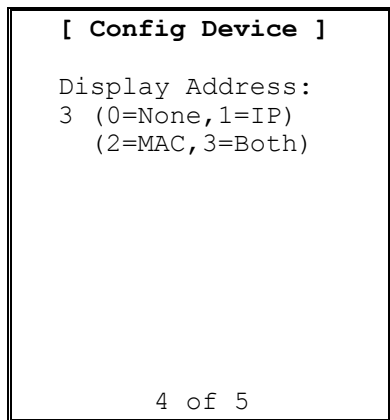
2 of 5
```

SERVER PORT: Port number server is listening on.

The following panel is only displayed if the AML system firmware on the device supports multiple fonts. This panel will be replaced with a “Not Supported” or “Requires Firmware Upgrade” if the device does not support multiple fonts.



SESSION FONT: Font to use when connected to the Stay-Linked Server. The dimensions shown here are for a M7100 and are expressed as Rows and Columns. The M7140 will also display the possible screen dimensions expressed as Rows and Columns.



DISPLAY ADDRESS: This setting controls how the IP and MAC address are displayed on the main Stay-Linked menu. You may choose to display the IP Address, MAC Address, None or Both of these values at the bottom of the main menu.

```
[ Config Device ]

Auto Connect:
0 (0-2)

0=Never
1=Start
2=Always

5 of 5
```

AUTO CONNECT: Enter '0' to cause the Stay-Linked Main Menu to be displayed on startup. Enter '1' to cause the device to automatically connect to the Stay-Linked Server on startup. Enter '2' to cause the device to always re-connect. Requires a special keystroke to exit Terminal Emulation. By default this is the ESC key.

Confirm (y/n/q): Type 'Y' to save the configuration changes, 'N' to start over or 'Q' to quit.

7 *Diagnostics*

Select option '3' to perform various diagnostics on the device. For example, from this menu you can select the Ping Test, view Radio Stats, Test the Scanner, Test the Keyboard and view Version information.

```
[ Diagnostics ]

1. Ping Test
2. Radio Stats
3. Scan Test
4. Keyboard Test

0. Show Version

Press ESC to End
```

7.1 Ping Test

Use the PING test to determine whether the host is available and how well the network is performing.

```
[ Ping ]

Host Address:
192.168.0.13 ____

1 of 1
```

Enter the HOST ADDRESS that you wish to PING.

Confirm (y/n/q): Type 'Y' to run the Ping Test, 'N' to start over or 'Q' to quit.

```
[ Ping ]

Performing Ping
192.168.0.13

Pkts Sent:      22
Pkts Lost:      0
RTT (ms):      4

Min      Max      Avg
-----
  3      90      5

Press any key
```

The Packets Sent/Lost is a counter showing how many pings have been attempted and how many have been lost. The 'RTT' value is the time it took for the current PING packet to make a round trip from the device to the host

The Minimum, Maximum and Average values show the overall performance of the network displaying the smallest, largest and average time(s) in milliseconds for RTT values.

7.2 Radio Stats

The Radio Stats screen provides basic radio and protocol statistics. This diagnostic can also be accessed while in session by using the configured Radio Stats key. By default this value is SHIFT+CTL+S.

```
[ Radio Stats ]

Sent: 2364
Recv: 1829
OSQ: 0
RTX: 0

Connected - AP
00:A0:F8:FE:05:CA

Signal : 100%
Average: 100%
Noise  : 100%

11 Mbps

Press any key
```

Radio Statistics:

Sent : The number of Stay-Linked Packets Sent for the last or current session

Recv : The number of Stay-Linked Packets Received for the last or current session.

OSQ : Out of Sequence Packets for the last or current session. Indicates a Linking State.

RTX : Packets Re-transmitted for the last or current session.

AP Status Line indicates if the device is Connected, Out-Of-Range, Searching, etc.

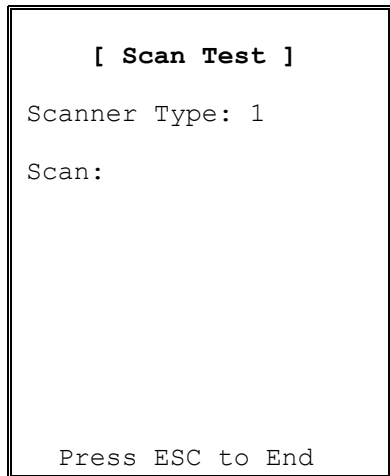
MAC Address of the currently associated Access Point.

Signal Strength, Average Signal Strength and Noise can be used as a simple site survey tool to determine the overall quality of the RF network.

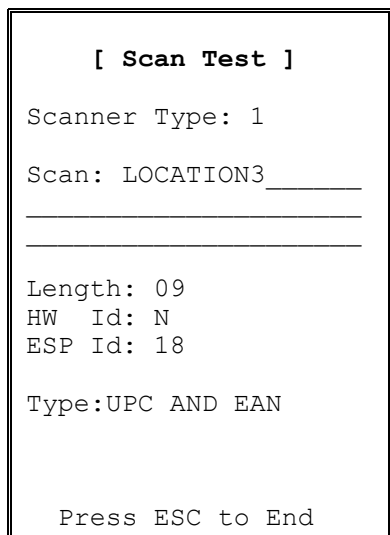
Speed of 802.11 Transmission.

7.3 Scan Test

The Scan Test option provides a simple tool for testing the device's barcode scanner. Using this tool, you can see if the scanner can read the barcode, determine the configured scanner type, barcode data, length and barcode type.



Scan a barcode to view the results of the test.



Continue scanning to test other barcodes, or press ESC to end the scan test.

7.4 Keyboard Test

The Keyboard Test option provides a simple tool for testing the device's keyboard definitions. Using this tool, you can see the keyboard scan code, ascii code and keyboard modifiers.

```
[ Keyboard Test ]

Scan Code:
Char Code:
Character:

Shift Key:
Alt Key  :
Ctrl Key :
Func Key :

Key Code :

Press ESC Twice-End
```

Press a Key to view the results of the test.

```
[ Keyboard Test ]

Scan Code: 049
Char Code: 065
Character: A

Shift Key: ON
Alt Key  : OFF
Ctrl Key : OFF
Func Key : OFF

Key Code : 314101

Press ESC Twice-End
```

Continue pressing keys to test other key codes, or press ESC twice to end the test.

8 Out of Range / Linking

The device will detect two types of disruptions in session communication. They are as follows:

- "Out-of-Range"
- "Linking"

In both cases, the device will attempt to automatically recover from these conditions. The following sections describe detection and recovery from both scenarios.

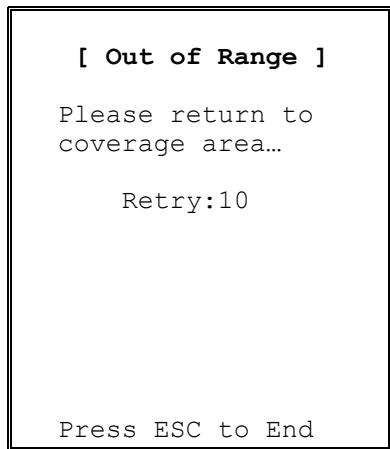
8.1 Out of Range

The most common communication fault is an "out-of-range" condition. Common causes of "out-of-range" conditions are:

- The device is physically moved outside the radio coverage area supported by the radio hardware.
- The communication path to access point is obstructed.
- The antenna on the device is bad.

When an "out-of-range" state is detected the device will display an "!" character in the top right corner of the screen. The "!" will alternate between normal and inverse video for a short period as the device monitors the out-of-range state. When the device detects that it is back in radio coverage, it will return to the session screen.

If the condition persists, the device will switch to the out-of-range screen shown below.



As the device continues to monitor the radio state, the retry attempts will increment on the screen. From here you have the option to abort the session by pressing the ESC key.

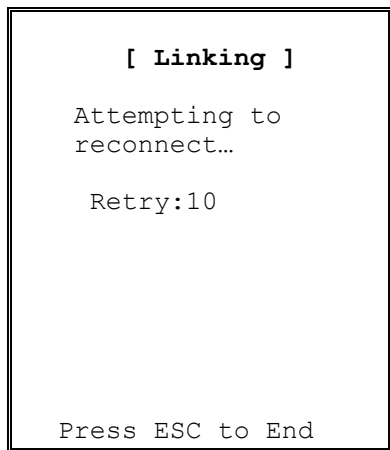
8.2 Linking

A "Linking" condition occurs when the server is no longer responding to the device session. Possible causes of a "Linking" condition are:

- Session terminated by administrator while device is powered off
- Network congestion is delaying transactions
- Unable to reach server (i.e. network failure)
- Server software shutdown

When a "Linking" state is detected the device will display an "*" character in the top right corner of the screen. The "*" will alternate between normal and inverse video for a short period as the device monitors the link state. If the device detects that the link is restored, it will return to the session screen.

If the condition persists, the device will switch to the "Linking" screen shown below.



As the device attempts to contact the server, the retry attempts will increment on the screen. From here you have the option to abort the session by pressing the ESC key.

9 Contact Information

For further information or technical assistance, please contact your Stay-Linked Certified Partner or you may contact us directly...



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