



## **SMART CELL RELEASE NOTE**

### **1. Deliverables**

#### 1.1 Software

Teletronics Smart Cell CPE Binary File

#### 1.2 Software Features

ESSID Broadcast Invisible, Intra BSD Security, Routing Information Protocol v1, 1:1 IP Mapping and NAT, DHCP Client and Server, Firewall and Port Forwarding, MAC Address Filtering, Bandwidth Management (CBQ), SNMP agent, Web Redirect and RADIUS client, SYSLOG service, and PPPoE client.

### **2. Release Updates**

#### 2.1 New Features

Release 3.8.4 build 2150 2006/01/25

- SNMP Feature enhanced for wireless PRISM card interface. Use following sample Linux command to obtain SNMP information or import the MIB file for this version posted on our "Utility & Firmware" webpage:

```
"snmpwalk -c snmpswd -v 2c _IP_ADDRESS_ .1.3.6.1.4.1.9999"
```

#### 2.2 Installation Notes

Follow the firmware upgrade procedures under:  
[http://www.teletronics.com/tii/support/user\\_manual.html](http://www.teletronics.com/tii/support/user_manual.html)

### SMART CELL Release Detailed Notes

<b>16MB or 64MB COMPACT FLASH FIRMWARE</b>			<b>PCMCIA CARD FIRMWARE</b>																							
<b>Version</b>	<b>Build</b>	<b>Description</b>	<b>30mW</b>	<b>100/200mW</b>																						
3.08.4	2150	January 25th, 2006 SNMP Feature enhanced for wireless PRISM card interface. Use following sample Linux command to obtain SNMP information or import the MIB file for this version posted on our "Utility & Firmware" webpage:  "snmpwalk -c snmpswd -v 2c _IP_ADDRESS_ .1.3.6.1.4.1.9999"	Secondary: v1.8.x or higher	Primary: v1.1.1 or higher  Secondary: v1.8.x or higher																						
3.08.2	2143	May 23 <sup>rd</sup> , 2005 Bug fixed for webredirect in route_only mode(without NAT).	Secondary: v1.8.x or higher	Primary: v1.1.1 or higher  Secondary: v1.8.x or higher																						
3.08.0	2141	May 13 <sup>th</sup> , 2005 1. Alignment buzzer for PRISM card in infrastructure/ad-hoc wireless mode on Versa 3.2 PCB board  This feature is very good for iVERSA outdoor alignment. CPE needs to be rebooted after configuring this feature. Buzzer will beep according to the signal strength once associated. Here is the mapping table between ASL(Signal Level) and Buzzer beep frequency  <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>ASL</td> <td>154</td> <td>146</td> <td>138</td> <td>130</td> <td>122</td> <td>114</td> <td>106</td> <td>98</td> <td>94</td> <td>90</td> </tr> <tr> <td>Beep(HZ)</td> <td>Always ON</td> <td>13</td> <td>11</td> <td>9</td> <td>7</td> <td>5</td> <td>3</td> <td>1</td> <td>0.5</td> <td>OFF</td> </tr> </table> 2. Admin Password reset bug fix 3. Show current Ethernet duplex status in the duplex configuration.	ASL	154	146	138	130	122	114	106	98	94	90	Beep(HZ)	Always ON	13	11	9	7	5	3	1	0.5	OFF	Secondary: v1.8.x or higher	Primary: v1.1.1 or higher  Secondary: v1.8.x or higher
ASL	154	146	138	130	122	114	106	98	94	90																
Beep(HZ)	Always ON	13	11	9	7	5	3	1	0.5	OFF																
3.06.9	2129	May 4 <sup>th</sup> , 2005 Enhance the bandwidth control for upload direction in web redirect mode.	Secondary: v1.7.1 or higher	Primary: v1.1.1  Secondary: v1.7.4 or higher																						
3.06.8	2122	May 2 <sup>nd</sup> , 2005	Secondary:	Primary:																						

		Bug fix, CPE now supports LEAP user/password up to 16 characters for CISCO cards.	v1.7.1 or higher	v1.1.1 Secondary: v1.7.4 or higher
3.06.6	2115	April 4th, 2005 1. Configurable authentication type (Opensystem / Sharedkey) for Prism cards.	Secondary: v1.7.1 or higher	Primary: v1.1.1 Secondary: v1.7.4 or higher
3.06.4	2110	March 31st, 2005 1. Update Webredirect with new radius dictionary to support dynamic bandwidth rates for hotspot clients.	Secondary: v1.7.1 or higher	Primary: v1.1.1 Secondary: v1.7.4 or higher
3.06.2	2109	February 23rd, 2005 1. Allow user to remote reboot the CPE through post command: <a href="https://192.168.1.1/?sign-on&amp;username=admin&amp;password=1234&amp;submit&amp;forcereboot">https://192.168.1.1/?sign-on&amp;username=admin&amp;password=1234&amp;submit&amp;forcereboot</a> <b>IMPORTANT:</b> If your password is not default "1234", then use your current password in the command line instead 1234.	Secondary: v1.7.1 or higher	Primary: v1.1.1 Secondary: v1.7.4 or higher
3.06.0	2108	December 20th, 2004 1. Which supports wireless reports without inactive clients through telnet as configured in Web GUI. 2. Ping Watchdog Utility option for automatically reboot remote client unit if base doesn't response to criteria.	Secondary: v1.7.1	Primary: v1.1.1 Secondary: v1.7.4
3.05.14	2090	November 29 <sup>th</sup> , 2004 1. Configure "Ethernet Speed & Duplex" through Web GUI option fixed. Reported by customer (Thanks David!).	Secondary: v1.7.1	Primary: v1.1.1 Secondary: v1.7.4
3.05.12	2085	October 8 <sup>th</sup> , 2004 1. Configure "Ethernet Speed & Duplex" through Web GUI 2. Show the disk size of Compact Flash on the first page. 3. Show firmware version for PRISM card on the top of radio information.	Secondary: v1.7.1	Primary: v1.1.1 Secondary: v1.7.4
3.05.11	2080	October 4 <sup>th</sup> , 2004 1. Web Redirect works in routing mode now as well as NAT mode.	Secondary: v1.7.1	Primary: v1.1.1



		2. Disabled SSH 3. Enhanced GPRS/CDMA support		Secondary: v1.7.4
3.05.10	2077	September 1 <sup>st</sup> , 2004 1. Fixes unlimited bandwidth problem of web redirect function. The problem occurred after multiple logs in and out. 2. Enhances web redirect watcher. 3. Optional standard http port 80 to configure the device without SSL authentication.  <b>Note:</b> This feature "# 3" is turned off in factory default. To turn it on, the following rule in the firewall scripts needs to be commented or removed: "deny tcp from ! \$admin_ip to any 80 in". However, for upgrade customer, the rule needs to be added in the firewall script if this feature is not desired."	Secondary: v1.7.1	Primary: v1.1.1  Secondary: v1.7.4
3.05.8	2073	August 18 <sup>th</sup> , 2004 1. Rescue console menu include two (2) more features: • Ethernet port Auto-negotiation mode configuration. • Enter to firmware upgrade mode.	Secondary: v1.7.1	Primary: v1.1.1  Secondary: v1.7.4
3.05.6	2071	August 17th, 2004 1. Webredirect now supports any port number for RADIUS server, including port 1645, 1646. In the webredirect configuration for radius parameters, type port number after Radius Server Name/IP address, separated with colon, such like, radius.teletronics.com:1645 If port numbers are not configured, the default would be the current standard 1812: Authentication / 1813: Accounting 2. Security fix for configuration export (Upgrade Recommended).	Secondary: v1.7.1	Primary: v1.1.1  Secondary: v1.7.4
3.05.3	2063	July 28, 2004 1. Fixing the MAC address control problem, MCL now can support up to 60 MAC address in the list. 2. Add "Force Homepage", refresh interval and login timeout option for Web Redirect Function. 3. Web Redirect Function could support two radius servers now. The second radius server name or IP address should be typed in by separating with first server with comma. Use the comma to separate the password respectively. 4. Enhanced watchdog for CPE board 5. Resolving the reboot problem when applying PCMCIA changes which introduced in 3.5.2 6. Recover the unit from Radio firmware failure (Radius Transmit Timeout) 7. Web Redirect bug fix. 8. Telnet 797 port to get Wireless Adaptor Information	Secondary: v1.7.1	Primary: v1.1.1  Secondary: v1.7.4

		9. IntraBSS Security feature for AP mode with Teletronics PCMCIA card.		
3.05.0	2007	<p>Dec 1, 2003</p> <ol style="list-style-type: none"> <li>1. In server status page, CPE in infrastructure mode will show Average Signal Level (ASL) as well as Link Quality. The format will look like "70%[97%]" which indicates LQ is 70 and ASL is 97. The Signal Level in dBm will be (ASL*100/255)-100.</li> <li>2. In server status page, CPE in Access Point mode will show Active Clients Count as well Total Clients Count. The format will look like "3/10 clients" which 3 out of 10 clients are active</li> <li>3. Support DNS name in the configuration includes syslog server, webredirect settings etc.</li> <li>4. Support for Fixed Data Rate in AP mode and BSSID-infrastructure mode, which enables user to establish slow but stable connection under low link quality and high interference environment.             <ol style="list-style-type: none"> <li>a. In AP mode, selection from "1 2 5.5 11 MBPS" will force its clients to associate with designated data rate</li> <li>b. In infrastructure mode, the setting of BSSID with AP's mac address is also required to enable this function.</li> </ol> </li> <li>5. Web-redirect login page now has New Ezhotspot Logo and is capable to be changed through configuration import/export</li> <li>6. Radius configuration combined into web-redirect in a easier way</li> </ol>	Secondary: v1.7.1	Primary: v1.1.1  Secondary: v1.7.4
3.04.8	1987	<p>Aug 19, 2003</p> <ol style="list-style-type: none"> <li>1. Web-redirect Enhancement</li> </ol>	Secondary: v1.7.1	Primary: v1.1.1 Secondary: v1.7.4
3.04.4	1961	<p>July 8, 2003</p> <ol style="list-style-type: none"> <li>1. EZHotSpot Web redirect Watchdog</li> <li>2. Web redirect refresh window set to 25 seconds, Ideal value for idle time out setting in radius is between 1 and 2 minutes.</li> <li>3. Easy use card default session time is 24hrs</li> <li>4. New Intersil AP firmware (v2.0.4) for prism2.5/3 cards</li> <li>5. New prism driver (v.0.2.1)</li> <li>6. Radius client support with web redirect only</li> <li>7. Discontinue Bridge support for prism cards</li> <li>8. Upgrade function updates</li> </ol> <p>Known issue: Small Fragmentation threshold will cause incompatibility between AP and some 2M cards. 2M cards will not be able to send packet larger than: Packet Size = (Fragmentation Threshold) – (63)</p>	Secondary: v1.7.1	Primary: v1.1.1  Secondary: v1.7.4
3.04.2	1942	<p>June 5, 2003</p> <ol style="list-style-type: none"> <li>1. EZ HOTSPOT Web redirect support (license key required to enable the service)</li> </ol>	Secondary: v1.7.1	Primary: v1.1.1

		<ol style="list-style-type: none"> <li>2. GRE port forwarding (for PPTP firewall) support</li> <li>3. Group port forwarding support</li> <li>4. PPPoE Client Support</li> </ol>		Secondary: v1.7.4
3.03.5	1843	<p>May 1, 2003</p> <ol style="list-style-type: none"> <li>1. Fragmentation Threshold Support</li> <li>2. Station nicks name support</li> <li>3. Associate to AP with BSSID support in infrastructure mode, (note: Channel settings need to match)</li> <li>4. Configuration import/export support</li> <li>5. Infrastructure Bridge problem introduced in 3.02.9 fixed</li> <li>6. DHCP client for Cisco card support</li> <li>7. RADIUS Client supported for MAC address authentication only.</li> </ol>	Secondary: v1.7.1	Primary: v1.1.1  Secondary: v1.7.4
3.02.9	1815	<p>Feb 7, 2003</p> <ol style="list-style-type: none"> <li>1. New AVS 0.1.16 driver – Fix 2M card compatible issue</li> <li>2. The ESSID could be broadcast or hide in AP mode.</li> <li>3. Fix RTS problem of LUCENT</li> </ol>	Secondary: v1.7.1	Primary: v1.1.1 Secondary: v1.7.4
3.02.7	1791	<p>Dec 16, 2002</p> <ol style="list-style-type: none"> <li>1. Update Cisco/lucent driver, support WEP encryption</li> <li>2. Update radiusd which not working since 2.21.x</li> <li>3. Support Cisco/lucent DHCP server on WLAN</li> </ol>	Secondary: v1.7.1 v0.8.3	Primary: v1.1.1 v1.0.7 Secondary: v1.7.4 v1.3.6
3.02.6	1785	<p>Dec 4, 2002</p> <ol style="list-style-type: none"> <li>1. Re-Include support for Winbond Realtek Ethernet card</li> </ol>		
3.02.5	1784	<p>Dec 4, 2002</p> <ol style="list-style-type: none"> <li>1. Fix the prism2 card shutoff problem in Infrastructure mode with huge interference by resetting the LAN card after association lost for 2 minutes.</li> <li>2. Bandwidth control with NAT/MASQ problem is fixed, and accurate now</li> <li>3. DHCP client for Cisco/Lucent card is available</li> <li>4. Get rid of invalid lease time in DHCP server report</li> <li>5. Show wireless link status for Teletronics card on Jumper LED for iCPE</li> </ol>		
3.02.4	1778	<p>Nov 15, 2002</p> <ol style="list-style-type: none"> <li>1. Mac Address Filtering is available for 11M TT cards</li> <li>2. Configuration will not lose if upgrade from this and later version</li> </ol>		
3.02.2	1762	<p>Oct 28, 2002</p> <ol style="list-style-type: none"> <li>1. First release for 16MB Compact flash</li> </ol>		

<b>8MB COMPACT FLASH FIRMWARE (Discontinued)</b>			<b>PCMCIA CARD FIRMWARE</b>	
<b>Version</b>	<b>Build</b>	<b>Description</b>	<b>30 mW</b>	<b>100/200 mW</b>
2.63.5	1799	May 16, 2003 1. Fragmentation Threshold Support 2. Station nick name support 3. Associate to AP with BSSID support in infrastructure mode, (note: Channel settings need to match) 4. Configuration import/export support 5. Infrastructure Bridge problem introduced in 3.02.9 fixed 6. DHCP client for Cisco card support	Secondary: v1.7.1	Primary: v1.1.1  Secondary: v1.7.4
2.60.9	1795	Feb 7, 2003 1. New AVS 0.1.16 driver – Fix 2M card compatible issue 2. The ESSID could be broadcast or hide in AP mode. 3. Fix RTS problem of LUCENT		
2.60.3	1784	Dec 16, 2002 1. Update Cisco/lucent driver, support WEP encryption 2. Update radiusd which not working since 2.21.x 3. Support Cisco/lucent DHCP server on WLAN	Secondary: v1.7.1 v0.8.3	Primary: v1.1.1 v1.0.7 Secondary: v1.7.4 v1.3.6
2.60.2	1768	Dec 4, 2002 1. Re-Include support for Winbond Realtek Ethernet card		
2.60.1	1765	Dec 4, 2002 1. Fix the prism2 card shutoff problem in Infrastructure mode with huge interference by resetting the LAN card after association lost for 2 minutes. 2. Bandwidth control with NAT/MASQ problem is fixed, and accurate now 3. DHCP client for Cisco/Lucent card is available 4. Get rid of invalid lease time in DHCP server report 5. Show wireless link status for Teletronics card on Jumper LED for iCPE 6. Support Lucent/Cisco/TT cards		