

AP-2000 AE ISSUE

Introduction

This Field Notice addresses a problem with some versions of the AP-2000 AE (Active Ethernet) hardware, when used in some combinations of the 11b, 11a and 11g radios/upgrade kits. This document gives details about the problem, describes a work around and describes the actions an end user can take to resolve it.

Note that the AP-2000, powered by the power supply, is working perfectly fine in all situations. Also, all AP-2000 AE units, when used with only one radio, are working perfectly fine in all situations as well.

Also note that, since the AP-2500 AE has similar hardware as the AP-2000 AE, the problem potentially applies to the AP-2500 AE as well.

Description of the problem

After August 2002, the AP-2000 AE has the Active Ethernet circuitry included in the LPM (Loaded Processor Module). Before that time a separate AE 'splitter' was included in the box. This embedded AE circuitry contains a polyswitch (fuse) that is activated when the AP uses too much power. With some versions of the AP-2000 AE, when used with some dual radio combinations of 11b, 11a and/or 11g radios, the polyswitch can be activated, which causes the AP to constantly reboot.

The table below shows the different dual radio configuration combinations and indicates which configurations provide a potential problem. Note that all one-radio configurations do NOT provide any problem and are all working fine.

Configuration	Situation AP-2000 AE	Situation AP-2500 AE
11b radio – 11b radio	No problem	No problem
11b radio – 11g radio	Problem	Not supported by the current software
11b radio – 11a radio	Problem ¹	Problem ²
11g radio – 11g radio	Problem	Not supported by the current software
11g radio – 11a radio	Problem	Not supported by the current software

¹ Problem occurs above 35°C ambient, while the specified temperature range of the AP-2000 AE is 0 - 40°C (ambient).

² Problem occurs above 35°C ambient, while the specified temperature range of the AP-2500 AE is 0 - 40°C (ambient).

The AE units that include the problem are shipped from the factory between August 2002 and May 2003. The table below shows the Rev levels of the impacted units. The Rev level is printed on the label of the metal LPM and allows you to recognize the impacted units.

ORiNOCO AP-2000 AE	ORiNOCO AP-2500 AE
P/N: (PX-)022018	P/N: 62996
Rev H and lower	Rev A

See table in Appendix for more details.

Resolution of the problem

When the impacted AP-2000 AE or AP-2500 AE is intended to be used in a configuration that is indicated above as a problem, this can be resolved by using a separate AE 'splitter' (part number 848 613 857).

Note that, while the embedded AE functionality of the AP-2000 AE and AP-2500 AE is 802.3af compliant and can work both with the ORiNOCO AE Injectors as well as any .3af compliant injector, the separate AE 'splitter' does only support the ORiNOCO AE Injectors.

Communications

Besides the communications via this Field Notice, a flyer will be included in all AP-2000 11a Kits and AP-2000 11g Kits. This flyer contains the above stated information as well as the path for the customer to get access to AE splitters in case he needs them.

How to get the AE splitters

The AE splitters for the customers that:

- Have AP-2000 AE or AP-2500 AE devices of the above mentioned Rev level, **and**
- Want to use the AP-2000 AE or AP-2500 AE in one of the above mentioned dual radio configurations

are supplied via Customer Services (CSC).

All Customers (End users/ VARs and Distributors) who feel they have a need for a splitter or have a customer with a need, should follow this process:

1. Contact Support (Level 2) to request splitter(s)
 - a. International + 661-367-2230
 - b. Domestic + 866-674-6626
2. Provide Required information
 - a. Company name, contact information and shipping instructions
 - b. Part number
 - c. Serial number

- d. Product revision
 - e. Description of the problem
 - f. Advise total quantity of APs deployed
 - g. Advise total quantity purchased, from, who and when?
3. Proxim CSC will then arrange shipment of splitter(s) to customer location

Appendix

On the black metal processor module (LPM) of the AP-2000 or AP-2500 there is a label that contains the part number and the revision level of that part number. It is stated as:

“P/N = <part number>/<rev level>”

Note that the part number can occur with or without the prefix “PX-“. Both would apply.

P/N of product with affected AE module		
Part number as printed on processor module	Rev level	Description
PX-022018	H and lower	ORINOCO AP-2000 AE
62996	A	ORINOCO AP-2500 AE
PX-022063	H and lower	Avaya Wireless AP-3 AE
PX-022819	B and lower	Ericsson AD08 WLAN Access Point AE
PX-024028	C and lower	Siemens/Fujitsu CONNECT2AIR WLAN RDS AE
PX-024111	C and lower	Fujitsu AP-2000 AE
PX-023931	All rev	White AP-2000 AE