Engineering Notice

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Reason for Notice ☐ Product Release ☐ Authorization to Purchase Long Lead Parts ☒ Informational

From: David Petree **Date** 9/17/03

Subject LXE 6730 RELEASE (Cisco AP1200)

I. Overview

This Engineering Notice contains special instructions for the use, setup, and Facility Analysis for the Cisco AP1200 (6730). This LXE release does not include the Cisco recently announced IOS version of the AP1200.

II. Facility Analysis

FA Limits

There is no change to the cutoff limits using the AP1200 versus the AP350.

Approved Antennas

The following is the list of antennas LXE has approved with the AP1200

LXE Antenna Part Number	LXE Model Number	Antenna Gain	Antenna Description
153325-0001	6400A277ANTLOCAL	0 dBi	Cushcraft Omni Antenna
153180-0001		0 dbi	Cushcraft RTN2400SXR
155846-0001	6000A279ANT3SPIREL 6000A280ANT3SPIRER 6000A283ANT3INDSPR	3 dBi	Spire™ Omni Antenna
480429-0406	6000A289ANT5OMNI	5 dBi	Cisco AIR-ANT2506
155845-0001	6000A277ANT6SPIREL 6000A278ANTSPIRER 6000A282ANT6INDSPR	6 dBi	Spire™ Omni Antenna
480429-3502	6000A288ANT6PATCH	6 dBi	Cisco AIR-ANT2012
480429-3508	6000A287ANT7PATCH	8 dBi	Cushcraft Patch Antenna
480424-0411	6000A281ANT9OMNI	9 dBi	Mobile Mark Omni Antenna
480429-2703	6000A285ANT12PATCH	12 dBi	Cushcraft 90° Directional Antenna
480429-0411	6000A284ANT12OMNI	12 dBi	Mobile Mark Omni Antenna
460602-3020	6430A278ANT15REMOT	15 dBi	Cushcraft YAGI Antenna
480429-2712	N/A	15 dbi	Hypergain 2415P

See document 158595 for antenna vs AP1200 Output Power limits.

What if the AP1200 is not procured from LXE?

If the AP1200 is not procured from LXE, then the antennas used with the AP must either be on Cisco's approval list or on LXE's approved antenna list. **An AP1200 using LXE antennas shall be marked with LXE's FCC ID.** The following label kit will soon be available to add LXE's FCC ID to an AP1200:

6730A500LABELREGID Label kit with instruction sheet

III. Released Software

C802SAP201A AP1200 Software Image V12.01T
CTLSSAP201A AP1200 Software Update Tool
158255-0001 AP1200 Software Reference Drawing

IV. Special Cables and Connectors

6700A051CONSCABLE Console Cable

This is an optional cable which can be used when configuring an AP1200. It allows direct connection from the AP1200 to a PC. Note: the AP1200 also has a browser interface and a Telnet interface which can be used for configuration.

RF RTNC Cables

The AP1200 has a special type of RTNC connector which may not work with non-LXE procurred RTNC cables. (The AP1200 RTNC connector has an extra internal shroud which prevents some brands of RTNC connectors from connecting to it.)

V. Power Inserter Warning

The AP1200 draws more current than an AP350. Thus, use the following power inserter with the AP1200:

6700A301PWRINSTR

VI. Hot Standby

The purpose of Hot Standby is to allow a user to have a backup AP in the same area as the primary. The backup will come online if it detects a network failure with the primary AP. Once the backup comes online for the primary, it will remain online until it is placed back into Hot Standby. This means that you will have two AP's on the same channel in the same coverage area.

Hot Standby Setup Procedure

The procedure below describes how to enable Hot Standby on the AP 1200. The two AP's must be configured the same except for the changes noted below.

1. On the "**Summary Status**" page, click "**Setup**".
2. On the "**Setup**" page, click **"Identification"** in the **AP Radio** row.
3. Select "**No**" for the **Adopt Primary Port Identity** option.
4. Enter the default IP address that you would like for the radio. Please note that this IP address must be different from the Ethernet address. Click on "**Apply**" to save and reboot the access point.
5. Once the AP has booted, click on the "**Cisco Services**" option.
6. Click on the "**Hot Standby Management**" option and fill in the settings below:

    - **SSID** - The SSID is a unique identifier that client devices use to associate with the access point or a VLAN supported by the access point. The SSID helps client devices distinguish between multiple wireless networks and VLANs in the same vicinity and provides access to VLANs by wireless client devices. Several access points on a network or sub-network can share an SSID. You can configure up to 16 SSIDs on each radio of an access point. An SSID can be any alphanumeric, case-sensitive entry from 2 to 32 characters long.
    - **MAC Address for the Monitored AP** - Enter the monitored device's MAC address.
    - **Polling Frequency** - Enter the number of seconds between each query the standby device sends to the monitored access point or bridge.
    - **Polling Tolerance Duration** - Enter the number of seconds the standby device should wait for a response from the monitored access point or bridge before it assumes the monitored device has malfunctioned.

7. Click on **"Apply"** to save all settings.

8. Click on "**Start Hot Standby Mode"** once all settings have been made. Verify that the status of the Hot Standby unit is the same as listed below:

   - Current State: Hot Standby is monitoring and protecting.
   - Current Status: Hot Standby unit is OK.

9. If the AP fails to go into Hot Standby, verify that the AP's are configured the same and that all network connections are ok.