Compliance Information for Dual-Band (2.4- and 5-GHz) Wireless Products Relevant for the EU and Other Countries Following the EU Directive 1999/5/EC (R&TTE Directive)

August, 2006

This document contains compliance information for Cisco Aironet dual-band (2.4- and 5-GHz) 802.11a/b/g wireless LAN products that is relevant to the European Union and other countries that are following the EU Directive 1999/5/EC.

Contents

CISCO SYSTEMS

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Scope

The information in this document is applicable to the Cisco Aironet AIR-PI21AG-E-K9, AIR-CB21AG-E-K9, and other Cisco Aironet 802.11a/b/g products as they come to market.

The equipment can operate in the bands (or portions of) 2400 to 2483.5 MHz, 5150 to 5350 MHz, and 5470 to 5725 MHz. National regulations may require that operations be limited to a portion of the frequency ranges identified above. See the "National Restrictions" section on page 4 for full details.

Declaration of Conformity with Regard to the EU Directive 1999/5/EC (R&TTE Directive)

Česky [Czech]:	Toto zařízeni je v souladu se základními požadavky a ostatními odpovídajícími ustanoveními Směrnice 1999/5/EC.
Dansk [Danish]:	Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.
Deutsch [German]:	Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EU.
Eesti [Estonian]:	See seade vastab direktiivi 1999/5/EÜ olulistele nõuetele ja teistele asjakohastele sätetele.
English:	This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español [Spanish]:	Este equipo cumple con los requisitos esenciales asi como con otras disposiciones de la Directiva 1999/5/CE.
Ελληνική [Greek]:	Αυτός ο εξοπλισμός είναι σε συμμόρφωση με τις ουσιώδεις απαιτήσεις και άλλες σχετικές διατάξεις της Οδηγίας 1999/5/EC.
Français [French]:	Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC.
Íslenska [Icelandic]:	Þetta tæki er samkvæmt grunnkröfum og öðrum viðeigandi ákvæðum Tilskipunar 1999/5/EC.
Italiano [Italian]:	Questo apparato é conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/CE.
Latviešu [Latvian]:	Šī iekārta atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

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Lietuvių [Lithuanian]:	Šis įrenginys tenkina 1999/5/EB Direktyvos esminius reikalavimus ir kitas šios direktyvos nuostatas.
Nederlands [Dutch]:	Dit apparaat voldoet aan de essentiele eisen en andere van toepassing zijnde bepalingen van de Richtlijn 1999/5/EC.
Malti [Maltese]:	Dan l-apparat huwa konformi mal-ħtiġiet essenzjali u l-provedimenti l-oħra rilevanti tad-Direttiva 1999/5/EC.
Magyar [Hungarian]:	Ez a készülék teljesíti az alapvető követelményeket és más 1999/5/EK irányelvben meghatározott vonatkozó rendelkezéseket.
Norsk [Norwegian]:	Dette utstyret er i samsvar med de grunnleggende krav og andre relevanter bestemmelser i EU-direktiv 1999/5/EF.
Polski [Polish]:	Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE: 1999/5/EC.
Português [Portuguese]:	Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.
Română [Romanian]	Acest echipament este in conformitate cu cerintele esentiale si cu alte prevederi relevante ale Directivei 1999/5/EC.
Slovensko [Slovenian]:	Ta naprava je skladna z bistvenimi zahtevami in ostalimi relevantnimi pogoji Direktive 1999/5/EC.
Slovensky [Slovak]:	Toto zariadenie je v zhode so základnými požiadavkami a inými príslušnými nariadeniami direktív: 1999/5/EC.
Suomi [Finnish]:	Tämä laite täyttää direktiivin 1999/5/EY olennaiset vaatimukset ja on siinä asetettujen muiden laitetta koskevien määräysten mukainen.
Svenska [Swedish]:	Denna utrustning är i överensstämmelse med de väsentliga kraven och andra relevanta bestämmelser i Direktiv 1999/5/EC.

Note The full declaration of conformity for this product can be found in the Declarations of Conformity and Regulatory Information section of the appropriate product hardware installation guide, which is available on Cisco.com. See the "Obtaining Documents from Cisco.com" section on page 6 for instructions for downloading these documents.

The following standards were applied during the assessment of the product against the requirements of the Directive 1999/5/EC:

- Radio: EN 301 893 and EN 300 328
- EMC: EN 301 489-1 and EN 301 489-17
- Safety: EN 60950 and EN 50371

Note The 5-GHz equipment meets the Dynamic Frequency Selection (DFS) requirements applicable to client cards (slaves) as defined in ETSI EN 301 893.

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Note   In order to meet the Transmit Power Control (TPC) requirement, the equipment has different user-selectable power levels from which the maximum power level is 3 dB below the applicable limit. See the "Changing Output Power" section on page 6 for instructions on how to change the output power settings.

CE Marking

For the dual-band (2.4- and 5-GHz) 802.11a/b/g wireless products such as the Cisco Aironet AIR-PI21AG series and AIR-CB21AG series, the following CE mark and class-2 identifier are added to the equipment:

$$C \in \textcircled{!}$$

National Restrictions

In the majority of the EU and other European countries, the 2.4- and 5-GHz bands have been made available for the use of wireless LANs. Table 1 provides and overview of the regulatory requirements in general that are applicable for the 2.4- and 5-GHz bands.

Later in this section you will find an overview of countries in which additional restrictions or requirements or both are applicable.

The requirements for any country may evolve. Cisco recommends that you check with local authorities for the latest status of their national regulations for both 2.4- and 5-GHz wireless LANs.

Table 1   Overview of Regulatory Requirements for Wireless LANs

Frequency Band (MHz)	Max Power Level (EIRP) (mW)	Indoor ONLY	Indoor and Outdoor
2400–2483.5	100		X
5150–5350[1]	200	X	
5470–5725[1]	1000		X

1. Dynamic Frequency Selection and Transmit Power Control is required in the 5250 to 5350-MHz and 5470 to 5725-MHz frequency range.

The following sections identify countries having additional requirements or restrictions than those listed in Table 1.

Denmark

In Denmark, the band 5150 - 5350 MHz is also allowed for outdoor usage.

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France

For 2.4 GHz, the output power is restricted to 10 mW EIRP when the product is used outdoors in the band 2454 - 2483.5 MHz. There are no restrictions when used in other parts of the 2,4 GHz band. Check http://www.arcep.fr/ for more details.

Italy

This product meets the National Radio Interface and the requirements in the National Frequency Allocation Table for Italy. Operating wireless equipment requires a "general authorization" unless it is operated within the boundaries of the owner's property. Please check with *http://www.comunicazioni.it/it/* for more details.

Questo prodotto è conforme alla specifiche di Interfaccia Radio Nazionali e rispetta il Piano Nazionale di ripartizione delle frequenze in Italia. Se non viene installato all'interno del proprio fondo, l'utilizzo di prodotti Wireless LAN richiede una "Autorizzazione Generale". Consultare http://www.comunicazioni.it/it/ per maggiori dettagli.

Latvia

The outdoor usage of the 2.4-GHz band requires an authorization from the Electronic Communications Office. Please check http://www.esd.lv for more details.

Antennas

The dual-band (2.4- and 5-GHz) wireless LAN products described in this document have integrated antennas which cannot be removed or which are not user accessible.

Operating Frequency

The operating frequency is determined by the access point to which the client card is associated. Manual setting of the operating frequency of the AIR-PI21AG and AIR-CB21AG client cards is not possible. It is important that the network (access point) is correctly configured to meet the local regulations.

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Changing Output Power

Follow these steps to change the output power of the AIR-PI21AG and AIR-CB21AG client cards to meet the local regulations:

Step 1 Open the Aironet Desktop Utility.

Step 2 Highlight the profile for the device you are using.

Step 3 Click **Modify**.

Step 4 Click **Advanced**.

Step 5 In the Transmit Power Level section, select the drop down arrow for the device you want to change.

Table 2 lists the output power levels available for each device.

Table 2   Available Output Power Levels

802.11b/g Mode (2.4-GHz)	802.11a Mode (5-GHz)
100 mW 63 mW 50 mW 30 mW 20 mW 10 mW	40 mW 25 mW 13 mW 10 mW

Step 6 Select the 802.11 mode and highlight a power level.

Step 7 Click **OK**.

Step 8 Close the ADU if desired.

Obtaining Documents from Cisco.com

Follow these steps to obtain any of the online documents mentioned in this document.

Step 1 Browse to *http://www.cisco.com*.

Step 2 In the Useful Links section, click **Technical Documentation**. The Cisco Documentation page appears.

Step 3 Click **Wireless**. The Fixed and Mobile Wireless Solution page appears.

Step 4 Click **Aironet 802.11a/b/g Wireless LAN Client Adapters (CB21AG and PI21AG)**. The Aironet 802.11a/b/g Wireless LAN Client Adapters (CB21AG and PI21AG) page appears.

Step 5 Select a document to download. The document page appears.

Step 6 Select a document to download. The document appears in a separate window.

Step 7 Save the document to any folder on your PC.

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Note If you still have questions regarding the compliance of these products or you cannot find the information you are looking for, please send an email request to Cisco at complianceinfo@cisco.com

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