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# Technical Specification

## TS021

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### 5 GHz High Performance RLAN and Ancillary Equipment

Version 0.2  
6 October 2006

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## 1. Scope

This specification lists the technical requirements applicable to the following types of radio equipment:

5 GHz high performance RLAN and ancillary equipment

## 2. Definitions

Unless the context requires otherwise, the expressions and wordings appearing in Federal Law by Decree No. (3) of 2003 Regarding the Organisation of the Telecommunications Sector shall have the same meaning ascribed thereto in the above-mentioned Federal Law by Decree, and the following expression and wording shall have the following meanings assigned thereto:

<b>ANSI</b>	American National Standards Institute <sup>1</sup>
<b>CENELEC</b>	European Committee for Electro-technical Standardisation <sup>2</sup>
<b>CISPR</b>	International Special Committee for Radio Interference <sup>3</sup>
<b>IEC</b>	International Electro-technical Commission <sup>4</sup>
<b>ITU</b>	International Telecommunications Union <sup>5</sup>
<b>ETSI</b>	European Telecommunications Standards Institute <sup>6</sup>

## 3. Document History

<b>Version</b>	<b>Date</b>	<b>Comment</b>
Draft, 0.1	16 June 2006	First draft issued to TRA for comment
Draft, 0.2	6 October 2006	Updated following comments from TRA

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<sup>1</sup> ANSI standards can be obtained from, <http://webstore.ansi.org>

<sup>2</sup> CENELEC standards can be obtained from, [www.cenelec.org](http://www.cenelec.org)

<sup>3</sup> CISPR standards can be obtained from, [www.cenelec.org](http://www.cenelec.org)

<sup>4</sup> IEC standards can be obtained from, [www.iec.ch](http://www.iec.ch)

<sup>5</sup> ITU standards can be obtained from, [www.itu.int](http://www.itu.int)

<sup>6</sup> ETSI standards can be obtained from, [www.etsi.org](http://www.etsi.org)

#### 4. Spectrum Allocations

The following frequency bands are allocated for use by radio equipment falling within the scope of this specification:

5150 – 5350 MHz

5470 – 5725 MHz

5725 – 5875 MHz

**Note:** Frequency allocations can change and this information should be checked with TRA Spectrum Affairs department

#### 5. Technical Requirements

##### General

All equipment shall comply with TRA specification TS001 concerning safety and EMC performance.

##### Specific

Unless stated otherwise below, the latest published versions of the following standards shall apply:

ETSI EN 301 489-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
ETSI EN 301 489-17	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment
ETSI EN 301 893	Broadband Radio Access Networks (BRAN); 5 GHz High Performance RLAN; Harmonised EN covering essential requirements of article 3.2 of the R&TTE directive