

## **2006 – Stage 1. Study of the requirements of Directive 1999/5/EC and of European norms specific to ISM band radio communications equipment.**

**Activity 1.1:** Drawing up of a synthesis for the requirements of Directive 1999/5/EC and HG 88/2003 (Government Decision).

Directive 1999/ 5/ EC is a UE harmonised directive meaning that its requirements are applicable in all community states. Its content deals with the requirements imposed to the radio and telecommunication equipment to place it on the market, have a free circulation and be put into operation inclusively the essential requirements, conformity evaluation procedures and marking requirements.

The Government Decision (HG) No. 88 transposes directive 1999/5/EC in the Romanian legislation beginning with 2003. The previous regulations referring to radio and telecommunications terminal equipment were abrogated. In 2004, HG 88/2003 was amended and completed by HG No. 236 of 20 February 2004, published in the Official Monitor Part I, No. 191/14.III.2004.

### *Results:*

- Documentation study on Directive 1999/ 5/ EC (R & TTE) and HG 88/ 2003.

**Activity 1.2:** Study of the European norms specified in Directive 1999/ 5/ EC.

The harmonised standards covered by directive 1999/5/EC refer to Industrial, Scientific and Medical (ISM) radio communications equipment used in the frequency 2.4 GHz.

In Europe, the standards for low power radio equipment are elaborated by European Telecommunications Standards Institute – ETSI. In order to become harmonised standards they shall be transposed in national regulations by all UE member states.

ETSI has a standard for wide band data communication equipment that operates in 2.4 GHz ISM band. The last version of this standard is ETSI EN 300 328 v.1.6.1 (2004 11): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive".

In Romania, it is applied the harmonised standard SR EN 300 328 v.1.6.1 (2005-12) which is identical with ETSI EN 300 328 v.1.6.1 (2004-11).

Standard SR EN 300 328 v.1.6.1 is applied to check ISM equipment conformity with the provisions of Directive R&TTE clause 3.2.

The HF laboratory that will be set up will perform tests to check the characteristics of the radio communication for ISM equipment according to standard SR ETSI EN 300328, provided by R&TTE in harmonised standards list.

Equipment conformity check shall be performed with standardized procedures and traceable test equipment.

### *Results:*

- There were studied the standards included in the harmonised standards list of R&TTE making reference to ISM radio equipment.

**Activity 1.3:** Drawing up the design for UHF laboratory operational model.

Within the frame of this activity there were established the technical and constructive characteristics that must be met by the laboratory.

### *Results:*

- It was drawn up the technical specification of the test laboratory (technical characteristics, necessary equipment, test area, necessary utilities and personnel).

In order to achieve the objectives of the first project stage according to the contract achievement plan the project coordinator draw up:

- Technical Report;
- Research Report;
- Documents specific to reporting the stage.