

Regulations Versus Standards in Approving Telecom Equipment

Haim Mazar (Madjar)

1. International, Regional and National RF Regulations:

- a. International Telecommunications Union (ITU) and Sectors
- b. ITU-R Study Groups
- c. CEPT and ERO Regulations; ERC European Report 25; EU LAW Directive 90/387 on regulating the RF and privatisation of the Telecom operators;
- d. NTIA and FCC in America. USA, 47 Code of Federal Regulations;
- e. What is needed to be regulated:
 - 1. RF allocations to radio services;
 - 2. Notification to the Main International Frequency List (MIFR);
 - 3. Coordination with neighbour countries, No borders to the EM waves;
 - 4. Assignment of licence to Stations
 - 5. Type approval of equipment;
 - 6. Fee collection.

2. RF allocation

- a. The international approved ITU Radio Regulations;
- b. World Radio Conferences (WRC03) and Conference Preparatory Meetings (CPM02)
- c. Strategy and guidelines to allocate RF spectrum;
- d. Government and Non-Government use of the spectrum;
- e. Privatization of the allocation process.

3. Regulations versus standards in approving telecom equipment

- a. The aim of Spectrum Management is to reduce interference, without preventing the penetration of new technologies;
- b. Type Approving and Station Licensing;
- c. ITU-R, CEPT, NTIA and FCC Regulations are approved by Administrations and utilised by them;
- d. Organisations like IEEE and ETSI prepare standards by industry for industry;
- e. European interaction CEPT/ETSI is a good model;
- f. Most countries in the world (for sure Israel) should follow Regional Regulations and Standards and should not invent their own Regulations and Standards.

4. Situation in Israel

- a. Difficulties faced by MOC, compared to the FCC and CEPT
- b. Short Range Devices and 2.4GHz and 5.1-5.9GHz bands in Israel vs. the world:
 1. Bluetooth and 802.11 devices
 2. Comparison to ITU-R Recommendation ITU-R SM.1538 on Technical and operating parameters and spectrum requirements for SRD's; ERC T/R 7003 on Short Range Devices; CFR47 Part 15;

Haim Mazar (Madjar)



MOC, Deputy Director of Spectrum & Radio Frequency licensing. Elected by Seventy-eight country representatives, to serve at the ITU, as vice chairman of Study Group 9; Conducted spectrum management seminars in more than 26 countries; Consul to the ITU and to countries how to regulate the RF spectrum; Developed a computerised national spectrum management system, utilised by more than 10 countries; National award 1988, for developing a Computerized Frequency Management System. Hold the following academic degrees: BSc-1971, Technion Haifa, EE Engineering Faculty; MSc-1976, Univ. of Tel-Aviv, Eng. Faculty; MBA-1988, Bar-Ilan University. mazarh@moc.gov.il and mazar@ties.itu.int. The lecture reflects my own views, HM