Post- och telestyrelsen – Post and Telecom Agency

Speakers:

Jan Hedlund, Mobile Radio, Spectrum Department

Kjell Pettersson, Enforcement and Market Surveillance, Spectrum Department

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The organisation of PTS

Director-General
  Deputy Director-General

Office of the Director-General

Administrative Department

Human Resources Department

Information Department

Legal Affairs Department

Network Security Department
  SITIC

Postal Affairs Department
  PTS Registration

Spectrum Management Department

Market Affairs Department
PTS in relation to the Swedish Parliament and Government

Sweden’s Riksdag (Parliament)

\[\rightarrow\]

Government Offices (Ministries)

\[\rightarrow\]

Ministry of Industry, Employment and Communications

\[\rightarrow\]

National Post and Telecom Agency
The National Post and Telecom Agency in Sweden

Vision

"Everyone in Sweden shall have access to efficient, affordable and secure communications services."
Objectives

PTS has four overall objectives:

- Consumer interests in focus
- Efficient competition
- Efficient utilisation of resources
- Secure communications
Focus on consumer interests

- Everyone shall have access to a broad range of communications services
- The services shall be easy to use, affordable and of good quality
- The consumer shall have access to clear information about rights and obligations
Statues and ordinances

- Electronic Communications Act
  - Electronic Communications Ordinance
- Radio and Telecommunications Terminal Equipment Act
  - Radio and Telecommunications Terminal Equipment Ordinance
- Qualified Electronic Signature’s Act
  - Qualified Electronic Signature’s Act
- Postal Services Act
- Basic Counter Services Act
Electronic Communications Act

- Telecommunications Licence eliminated; licences for radio frequencies and numbers instead
- Licence obligation extended and also encompasses certain Internet operators and operators with broadcasting networks
- Auctions are possible in connection with allocation of licences for radio transmitters and numbers
- 3G operators may be obliged to share masts, antennae and other infrastructure
Radio and Telecommunications Terminal Equipment Act

- Manufacturers declaration and CE-marking, no type approvals
- Member States perform market surveillance nationally and in co-operation during campaigns
- Presumption of conformity through harmonised standards
National regulations and advice

Spectrum Matters
- PTSFS 2004:8 - Regulations on Exemptions from the Licence Obligation for Certain Radio Transmitters
- PTSFS 2002:10 - General Advice on the Swedish Frequency Plan

Equipment Matters
- Obligations associated with the placing on the market of radio equipment and telecommunications terminal equipment (Guidance document on the R&TTE directive)
National regulatory work

- A revised National Frequency Table will be published in April, 2005

- The national regulations for licence exempt are normally revised each year – preparations for a new revision have started
International co-operation on spectrum harmonisation

- **Global level**
  International Telecommunications Union, ITU-R

- **European level**
  CEPT/ ECC Working Group FM (WGFM)
  - Short Range Device Maintenance Group (SRD/MG)
  The European Commission
  - The Radio Spectrum Decision
  - The Radio Spectrum Policy Group, RSPG
  - The Radio Spectrum Committee, RSC
Actual Regulatory Frequency Matters within CEPT

- **CEPT WGFM**
  - UWB for communications purposes still under consideration

- **CEPT SRD/MG**
  - A generic magnetic field strength level < 30 MHz
Important CEPT deliverables on RFID

ERC/REC 70-03 Relating to the use of Short Range Devices (SRD)

- recommends frequencies and technical parameters
- includes national implementations and restrictions
- gives reference to harmonised standards
  - RFIDs in Annex 11
  - Inductive applications in Annex 9

Available at www.ero.dk
Available or planned frequency parameters for RFID

9 – 148.5 kHz
EN 300 330-2 (inductive)
72 dBμA/m at 10 m descending 3 dB/oct at 30 kHz

13.553 - 13.567 MHz (13.56 MHz)
EN 300 330-2 (inductive)
42 dBμA/m at 10 m (60 dBμA/m at 10 m for RFID t.b.d.)

433.050 - 434.790 MHz (433 MHz)
En 300 220-3
25 mW e.i.r.p (10 mW e.r.p.)
Available or planned frequency parameters for RFID cont.

[865 - 868 MHz t.b.d.]

EN 302 208
[100 mW, 500 mW, 2 W e.r.p. t.b.d.] 200 kHz channel spacing - listen before talk (LTB)

5795 – 5805 MHz road toll system
EN 300 674
2 W e.i.r.p. 5 MHz channel spacing
Frequencies not available for RFID on a licence exempt basis

902 – 928 MHz  GSM cellular mobile phones in Europe

2446 – 2454 MHz  max. 25 mW  due to military use in Sweden
Current work within the ITU

- **Working Party 1B**
  Draft Recommendation ITU-R SM.1538-1
  Technical and operating parameters and spectrum requirements for short range radio communication devices

- **Task Group 1/8 of Radiocommunication Study Group 1**
  Compatibility between Ultra Wideband devices (UWB) and radio communication services
PTS’s EU work

Supporting the Government’s EU work, in accordance with PTS’s Terms of Reference

- expert opinions, information, information for negotiations, etc
- participation in working groups and implementation committees

Implementation of European Community legislation
Thanks for your attention!
Any questions?

www.pts.se