

# Post- och telestyrelsen – Post and Telecom Agency

Speakers:

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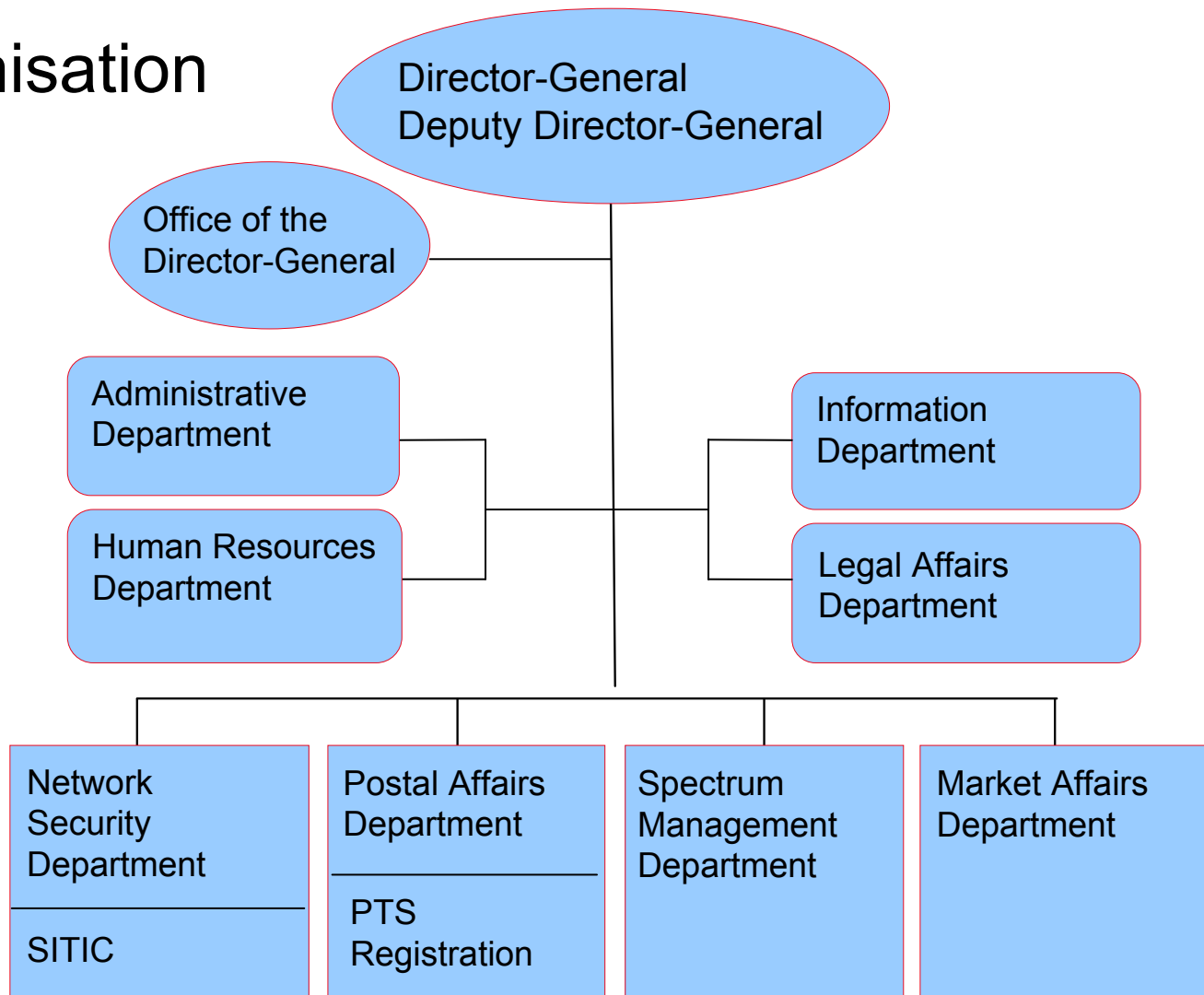
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# The organisation of PTS



# PTS in relation to the Swedish Parliament and Government

**Sweden's Riksdag (Parliament)**

**Government Offices (Ministries)**

**Ministry of Industry, Employment and Communications**

**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

- Radio- and teleterminal Directive (1999/5/EU)
- 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 Tele Communications 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](http://www.ero.dk)



# Available or planned frequency parameters for RFID

9 – 148,5 kHz

**EN 300 330-2 (inductive)**

**72 dB $\mu$ A/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 dB $\mu$ A/m at 10 m (60 dB $\mu$ A/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 (LBT)

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**

Compability 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?*

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