Radio Spectrum Decision 1 2002/676/EC

- Adopted in 2002 with the Electronic communications regulatory framework
- "Policy platform": policy making for strategic planning and harmonisation of spectrum use
 - Holistic approach
 - Arbitrate among conflicting uses
 - Complemented by Radio Spectrum Policy Group advisory function
- "Operational": EU legal methodology to ensure harmonised conditions for availability and efficient use of spectrum - comitology (Radio Spectrum Committee) for proposing and enforcing "technical implementing measures"
- "Transparency and information": coordinated and timely information on spectrum use.
- "International dimension": codification of practice and ensuring full involvement of EU institutions to defend EU interests at international level.







Radio Spectrum Policy Group — Commission decision 2002/622/EC

Composition

- Members: high level representatives from MS and Commission
- Observers: EEA, accession countries, EP, CEPT, ETSI + ad hoc

Functioning: advisory

- Chairman elected for one year; 3 meetings a year
- No comitology; opinions adopted upon consensus
- Transparency: obligation to consult the public.
- **Function:** advises Commission on coordination of policy and harmonised conditions re. spectrum.

Adoption of advisory opinions on

- Digital switch-over
- Secondary spectrum trading
- Wireless Applications Policies for Electronic Communications services (WAPECS)
- Preparation of WRC-07

On-going activities http://rspg.groups.eu.int/

 opinion and consultations on scientific use of spectrum, introduction of multimedia services in broadcasting spectrum.



Radio Spectrum Decision 2

Aim (Art. 1):

 co-ordination of policy approaches and harmonisation of conditions related to radio spectrum in the context of relevant EU policies

Scope (Art. 1):

 covers basically all spectrum matters, even public order and security (incl. indirectly military)

Comitology (Art.3 & 4):

- adoption (regulatory procedure) of technical implementing measures in order to meet the aim of the Decision
- mandates to CEPT for allocation and information availability
- transitional periods in Commission Decisions possible, if duly justified
- consultation/general policy policy discussions (advisory procedure -- in complement with RSPG)



Radio Spectrum Decision 3

Technical Implementing Measures (Art.4)

- Harmonisation measures on conditions of use, binding on MS
- Complement to equipment regulation (R&TTE Directive)
- Objectives: internal market including electronic communications, innovation, specific policy objectives (eSafety, eInclusion, transport).

Examples of On-going issues

- Short range devices
- Ultra-wide bands
- Radio frequency recognition devices (RFID)
- TFTS
- Mobile satellite systems in 2 GHz
- IMT-2000
- GSM







Radio Spectrum Decision 4

Information availability (Art. 5):

- publication of: national allocation tables, rights, conditions, procedures, charges and fees
- development of appropriate data bases EFIS

International dimension (Art. 6):

- Member States and Commission monitor international developments relevant to the Decision
- Commission reports to EP and Council and may propose measures
- establishment of common policy objectives to ensure Community co-ordination

Reporting to EP and Council (Art. 9):

 on activities, measures adopted and actions envisaged (annual report)



Radio Spectrum Committee

- Advises Commission based on inter-institutional comitology agreement
 - Advisory procedure for Commission mandates to CEPT
 - Regulatory procedure for Commission decisions
- Comprises Member States, and observers (EEA, accession & candidate countries, ECC and ETSI + ad hoc)
- Chaired by Commission
- 4 meetings per year
- Adopts "technical implementing measures"
- Assists the Commission:
 - examination of radio spectrum usage (Art. 4.6)
 - verification of draft mandates (Art. 4.2)
 - adoption of measures based on mandates (Art. 4.3)
 - adoption of measures not based on mandates (Art. 4.5)

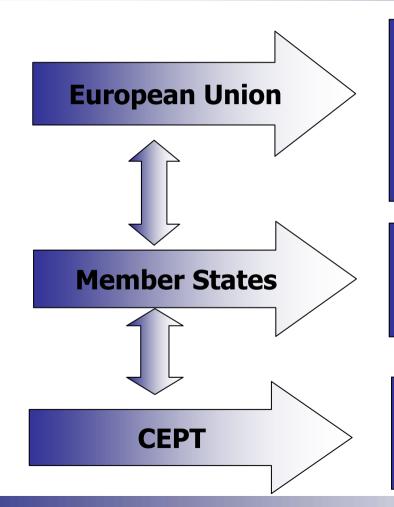


Radio Spectrum Decision in Practice

- Level 1: Radio spectrum policy issues are submitted for consideration to the RSPG, which gives advise on need for further Community measures.
- <u>Level 2</u>: Commission submits draft measure to RSC, for opinion (subsequent Commission Decision = acquis communautaire)
- Level 3: Commission can submit proposals for codecision (on own initiative, or where Committee or EP do not agree to the Commission's draft measure)
- ⇒ Commission is not bound to follow these steps in chronological order (can be seen as alternatives)



European Setting for Spectrum Policy



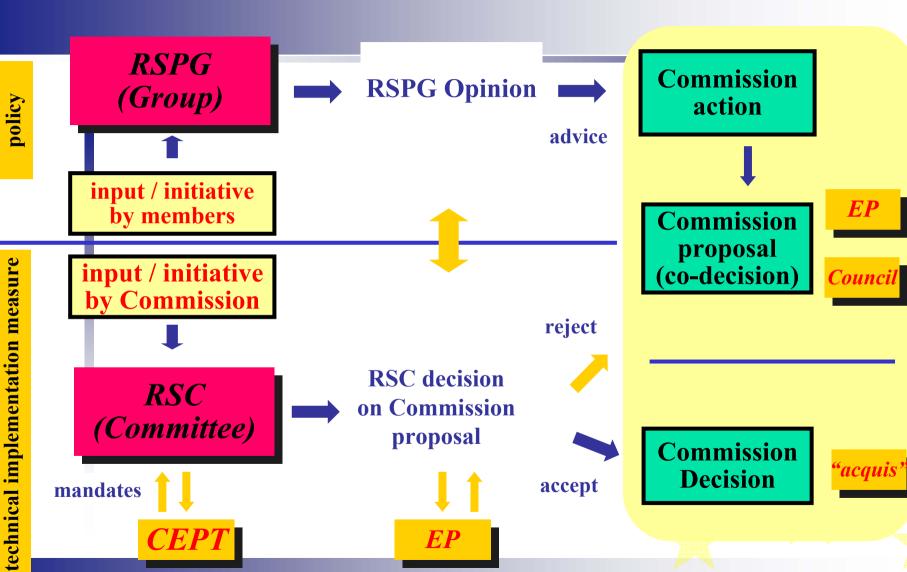
- EU regulatory framework for the e-communications sector
- Policy input from EU perspective, coordination
- Harmonisation measures on spectrum usage (binding EU law)

- Regulatory authority over spectrum
- Bound by EU law and ITU RR

- Voluntary coordination on technical spectrum issues
- •ITU



EU Spectrum Policy Set Up





European Commission

12 June 2006

International Context

- Political and economic weight of the EU
- **Coordination of negotiation strategies: Procedure** described in Recital 19 of Radio Spectrum Decision
 - Inform EP and Council and endorsement by Council of Community policy objectives to be achieved and positions to take.
 - MS and Commission to develop common action and closely cooperate during whole negotiations
- RRC-06 ("digital dividend") Commission Communication COM(2005)461 EU spectrum policy priorities for the digital switch-over in the context of the ITU RRC-06.
- WRC-07 (spectrum "beyond 3G")
- Bilateral exchanges with EU trading partners



Frequency bands harmonised at EU level

- 4 Commission Decisions "technical implementing measures" - adopted on the basis of the Radio Spectrum Decision
 - With the assistance of the Radio Spectrum Committee
 - Content based on technical work done by the CEPT
 - Other Decisions under preparation
- 2 'old' Directives still in in force







Short range radars in the 79 GHz band

- Commission decision 2004/545/EC of 26 July 2004 on the harmonisation of radio spectrum in the 79 GHz range for the use of automotive short-range radar equipment in the Community
- Radar installed on the vehicle for collision mitigation and traffic safety applications
- Equipment not yet on the market







Short range radars in the 24 GHz band

- Commission decision 2005/50/EC of 17 January 2005 on the harmonisation of the 24 GHz range radio spectrum band for the <u>time-limited use</u> by automative short-range radar equipment in the Community
- Band to be designated and made available by 1 July 2005 and until 30 June 2013
- Use of the band to be monitored and Decision to be reviewed
- Protection of national radio astronomy stations operating in the band 22.21 to 24 GHz



Radio Local Area Networks (RLANs) at 5 GHz

- Commission decision 2005/513/EC of 11 July 2005 on the harmonised use if radio spectrum in the 5 GHz frequency band for implementation of Wireless Access Systems including Radio Loca Area Networks (WAS/RLANs)
 - Frequency band 5150-5350 MHz restricted to indoor use
 - Mitigation techniques required to protect other services
- Commission recommendation 2003/203/EC of 20
 March 2003 on the harmonisation of the provision of
 public R-LAN access to public electronic
 communications networks and services in the
 Community (based on Art 19 of Framework Directive)
 - Provision of public RLAN access in the 2.4 GHz and 5 GHz bands subject only to general authorisation
 - Use of the bands not subject to the grant of any individual right



Reuse of the former 'ERMES' band

- Commission decision 2005/928/EC of 20 December 2005 on the harmonisation of the 169,4-169,8125 MHz frequency band in the Community (frequency band originally designated for the ERMES paging system)
- Parallel repeal of 'ERMES' Directive (Council Directive 90/544/EEC of 9 October 1990 on pan-European radio paging)
- Decision applicable from 27 December 2005
- Band harmonised for various applications: hearing aids, social alarms, meter reading systems...



GSM in the 900 MHz band (1)

- Council directive 87/372/EEC of 25 June 1987 on the frequency bands to be reserved for the coordinated introduction of public pan-european cellular digital land-based mobile communications in the Community
- Council Recommendation 87/371/EEC of 25 June 1987 on the coordinated introduction of public pan-European cellular digital land-based mobile communications in the Community
- Council Resolution of 14 December 1990 on the final stage of the coordinated introduction of pan-European land-based public digital mobile cellular communications in the Community (GSM)



GSM in the 900 MHz band (2)

- Directive complemented by Recommendation and Resolution reserved the 900 MHz for GSM
- Current debate on the use of this band for 3G services
- In the future, Directive may be modified or repealed and replaced to allow more flexibility in this band







Directive on DECT 91/287/EEC

- Complemented by Council recommendation 91/288/EEC
- Directive adopted under old regime
- Coordinated introduction of digital European cordless telecommunications in EC
- Obligation to designate the 1880-1900 MHz for DECT
- Technology conforming to the European Telecommunications standard for digital telecommunications
- In line with CEPT Recommendation T/R 22-02
- DECT has priority over other services and is protected
- Advantage : harmonised band at EU level.







Legacy of UMTS Decision 128/99/EC

Purpose:

- Harmonise spectrum for introduction of UMTS/IMT-2000 services (3G)
- Ensure interoperability and pan-European roaming
- Ensure compatible UMTS networks and services in all Member States
- No exclusion of other IMT-2000 technologies
- At least one UMTS system per Member State.

Decision expired but obligation remains regarding spectrum harmonisation

- 3 mandates issued to CEPT on introduction of IMT-2000 in EU
- 1 mandate for European Common Proposal for WRC-02.
- CEPT adopted ERC decisions in line with Commission mandates:
 - ERC Decision ERC/DEC/(99)25 of 29.11.1999
 - ERC Decision ERC/DEC/(00)01 of 28.3.2000
 - ECC Decision ECC/DEC/(02)06 of 15.11.2002 designating 2500-2690 MHz for IMT 2000/UMTS

« The Licensing Committee invited EU MS to commit to the implementation of such ECC Decision in due time. »



Spectrum Reform 1

- Commission Communication COM(2005)411 A forward looking radio spectrum policy for the EU.
- Building on exchange of experience with MS
- Facilitate access to spectrum lower hurdles
- more flexibility in spectrum usage to overcome 'scarcity' and be innovation-friendly
- Allow spectrum user to decide upon usage as much as possible
- Current discussions
 - Balancing spectrum management models: market based/'unlicensed'/administrative decisions
 - Information on spectrum usage
 - Flexible spectrum management for wireless electronic communications ("WAPECS").



Spectrum Reform 2

- Commission Communication COM(2005)461 on market based approach:
 - Establishing <u>spectrum markets</u> by 2010
 - > suitable bands
 - > spectrum rights
 - > transition
- Flexibility of spectrum usage: technology and service neutrality (WAPECS)
- **Technology and service neutrality**
- Investigating usage of <u>unlicensed model</u> at EU level

Screening Radio Spectrum Policy - INFSO B4

