



Results and Lessons from WRC-03

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Results and Lessons from WRC-03

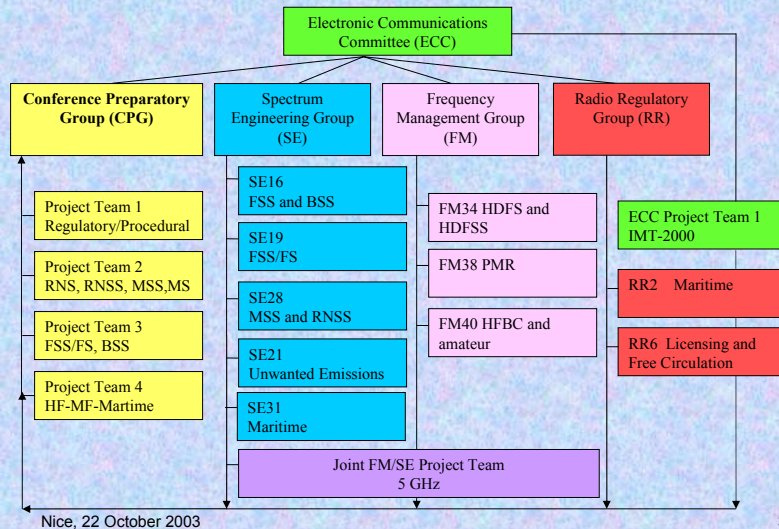
- CEPT preparation
- European Primary Objectives
- Challenges
- Results
- Lessons
- New challenges

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Structure of CEPT preparation for WRC-03



CEPT preparation for WRC-03

- 46 CEPT administrations
- Structure open to outside bodies
 - APT, CITEL, Arab group, African Group
 - EC, Eurocontrol, AEA, EBU, ETSI, CRAF, Eumetsat, UMTS forum, ERO, ETNO, ESA, EICTA
 - ICAO, ITU, NATO, IARU
- Two joint workshops EC/CPG with industry (Nov 2001, Feb 2003)
- Support from the European Commission

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CEPT preparation for WRC-03

- Prepares
 - European Common Proposals, ECPs, adopted if supported by more than 10 administrations, opposed by no more than 6
 - CEPT briefs
 - CEPT positions
- Coordinates European positions during the conference
 - CEPT coordinators on each WRC Agenda Item

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Participation to CPG and outputs

| | | | draft ECPs | draft ECPs | Draft Briefs | Draft Briefs | | | |
|---------|------------|-------------------|---------------|---------------|-----------------|-----------------|-----------|------|------------------|
| | | | # items | # pages | # items | # pages | # partpts | #adm | #other bodies |
| CPG03-1 | Paris | 13-15 Feb 2001 | 0 | 0 | 38 | 85 | 159 | 28 | 18 |
| CPG03-2 | Toulouse | 4-6 Sept 2001 | 0 | 0 | 39 | 128 | 173 | 28 | 16 |
| CPG03-3 | Oslo | 19-22 Feb 2002 | 16 | 106 | 39 | 183 | 142 | 28 | 15 |
| CPG03-4 | Jersey | 24-27 June 2002 | 26 | 173 | 40 | 226 | 131 | 26 | 16 |
| CPG03-5 | Perugia | 4-8 Nov 2002 | 36 | 272 | 41 | 248 | 146 | 28 | 14 |
| CPG03-6 | Gothenburg | 10-14 Feb 2003 | 35 | 298 | 41 | 246 | 163 | 26 | 13 |
| CPG03-7 | Funchal | 28 April-2 May 03 | 9 | 177 | 43 | 309 | 180 | 29 | 13 |

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ECPs adopted at CPG03-6 (Gothenburg, 10-14 February 2003)

- 26 administrations present
- ECPs adopted on 35/45 Agenda Items. On average, 23 Support, 0.2 Oppose.

| | | | | | | | | | | | |
|-------------|------|------|------|------|------|------|------|-------|-------|------|------|
| Agenda Item | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8.1 | 1.8.2 | 1.9 | 1.10 |
| OPPOSE | X | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| SUPPORT | X | 23 | 18 | 22 | 23 | 24 | 26 | 26 | 24 | 26 | 26 |
| Agenda Item | 1.11 | 1.12 | 1.13 | 1.14 | 1.15 | 1.16 | 1.17 | 1.18 | 1.19 | 1.20 | 1.21 |
| OPPOSE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | X |
| SUPPORT | 25 | 23 | 26 | 26 | 23 | 26 | 25 | 24 | 22 | 26 | X |
| Agenda Item | 1.22 | 1.23 | 1.24 | 1.25 | 1.26 | 1.27 | 1.28 | 1.29 | 1.30 | 1.31 | 1.32 |
| OPPOSE | 0 | 1 | X | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 |
| SUPPORT | 23 | 17 | X | 18 | 16 | 20 | 24 | 26 | 19 | 22 | 24 |
| Agenda Item | 1.33 | 1.34 | 1.35 | 1.36 | 1.37 | 1.38 | 1.39 | 7.1 | 7.2 | 2 | 4 |
| OPPOSE | 0 | 0 | X | 0 | 2 | 0 | 0 | X | X | X | X |
| SUPPORT | 22 | 22 | X | 23 | 13 | 23 | 25 | X | X | X | X |

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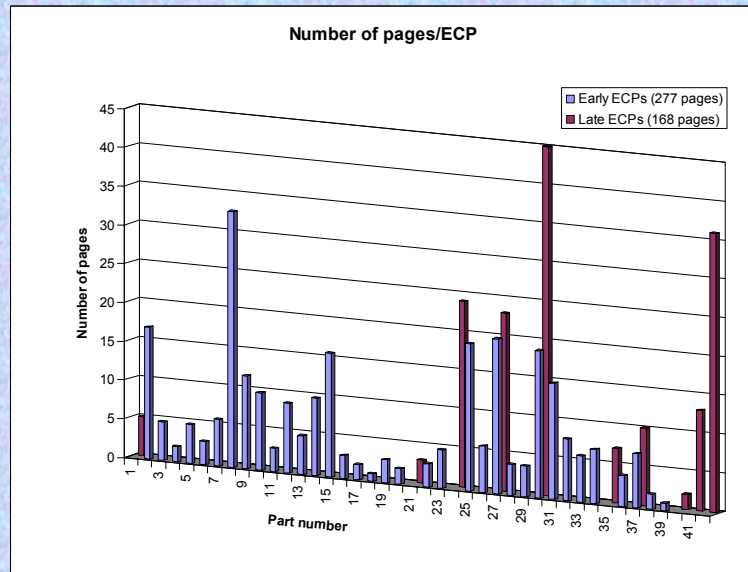
ECPs adopted at CPG03-7 (Funchal, 28 April – 2 May 2003)

- 29 administrations present
- ECPs adopted on 10 Agenda Items. On average, 15 Support, 0.1 Oppose.

| | | | | | | | |
|-------------|------|------|--------|--------|-----------|------|------|
| Agenda Item | 1.21 | 1.24 | 1.27 | 1.27 | 1.30 | 1.30 | 1.35 |
| PART | 21 | 24 | 27B, D | 27C | 30J, K, L | 30M | 35 |
| OPPOSE | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| SUPPORT | 18 | 11 | 17 | 10 | 16 | 16 | 14 |
| Agenda Item | 1.37 | 1.37 | 2 | 7.1 | 7.1 | 7.1 | 7.2 |
| PART | 37B | 37C | 40 | 41A, B | 41C | 41D | 42 |
| OPPOSE | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| SUPPORT | 12 | 12 | 19 | 18 | 12 | 12 | 22 |

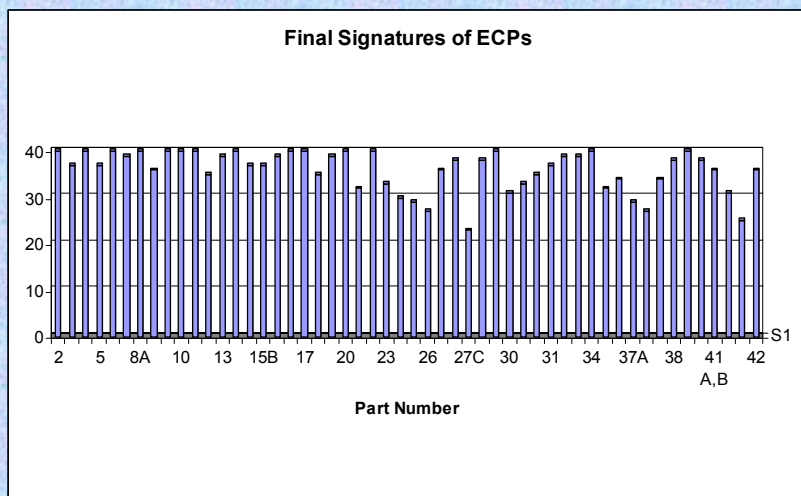
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European Primary Objectives for WRC-03

- 1.15 - RNSS – Equitable access conditions to spectrum for Galileo and satisfactory protection of radars/DMEs
- 1.22/1.34 – Protect IMT-2000 development
- 1.5 – Global extension and harmonisation for RLANs
- 1.3 – PPDR – harmonise 380-470 MHz as tuning range
- 1.11/1.25/1.26/1.32/1.37 – Protect terrestrial services and GSO satellite systems from HEO satellite system
- 1.27/1.35 – Relax sharing criteria to facilitate development of BSS in spite of replanning at 12 GHz.
- 1.24 – Relax the sharing criteria at 13.75-14 GHz while enabling coexistence of radars and fixed-satellite service

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Challenges at WRC-03

- Large number of Agenda Items (45)
- Covering most parts of the spectrum, all fields of expertise
- Large attendance (2278 delegates from 138 administrations)
- Preparations inconclusive on many issues (RNSS, HEOs, BSS sound,...)

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Results of WRC-03

- Success for all Regions - Consensus reached on all points
- Most complex issues solved without postponement to WRC-07
- WRC-07 agenda relatively shorter (21/39 main points)
- Success for CEPT – All primary objectives reached nearly as proposed

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PROTECT IMT-2000 DEVELOPMENT

- 2.5-2.69 GHz is prime band for IMT-2000 extensions in the post 2010 timeframe in Europe
- Issue was interference from non-GSO BSS (sound) transmit space stations into IMT-2000
- WRC-03 decisions clarify the regulatory protection given to IMT-2000 in the band 2605-2655 MHz by:
 - Tightened pfd limits on non-GSO and GSO BSS sound
 - Limits cannot be exceeded except very close to the the service area

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RNSS

- Equitable access conditions to spectrum for Galileo and satisfactory protection of radars/DMEs
- Aggregate pfd limits to be met through consultations of RNSS administrations at 1164-1215 MHz. Recommended per satellite pfd and coordination after 1/1/2005
- Identical treatment for RNSS across 1215-1300 MHz

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RLANs GLOBAL EXTENSION AND HARMONISATION AT 5 GHz

- Allocations to the mobile service (except aeronautical) at:
 - 5150-5350 MHz
 - 5470-5725 MHz
- Power limitations (eirp density, TPC and DFS) consistent with 1999 ERC decision
- Provides worldwide regulatory certainty for European harmonised approach

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PPDR

New Resolution (646) identifies:

- 380-470MHz as harmonized frequency range
- 380-385/390-395 MHz as core harmonized band for countries having given their agreement (essentially CEPT)
- Parts of 746-869 MHz and 4940-4990 MHz for Regions 2 and 3
- Consistent with European proposal.

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PROTECTION OF THE FIXED SERVICE (1.11/1.25/1.26/1.32/1.37)

- 1.11 – Secondary allocation to the aeronautical mobile-satellite satellite service (Earth-to-space) at 14,0-14,5 GHz
- 1.26 – Earth stations on-board vessels at 6/4 and 14/11GHz
- 1.32 – pfd limits to space stations at 37,5-43,5 GHz
- 1.37 – Pfd limits for HEO space stations at 4 GHz, 11 GHz, 18 GHz
- 1.25 – Identification of frequency bands for high density fixed-satellite service

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BROADCASTING-SATELLITE (1.27/1.35)

- Finalization of sharing criteria and associated procedures
- Choice 60cm/45 cm antenna size with consequences on efficient use and equitable access
- Procedure in case of disagreement, grouping.

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SHARING AT 13,75-14 GHz

- Allocated to the fixed-satellite service by WARC-92, with minimum imposed earth station antenna diameter of 4,5 m. Push to liberalized VSAT access.
- Radiolocalisation (ship and airborne radars). Affected by multiplication of earth stations.
- Compromise found (CEPT) : 1,2m minimum antenna diameter, with pfd limits at the coast/border to protect radiolocation..

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LESSONS FROM WRC-03

- WRC preparations have reached maturity
- CPM/WRC process works well
- Number and diversity of Agenda Items managed
- New risks

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LESSONS FROM WRC-03

- Detailed preparations continue to pay off
- European preparation, with consensus building through multiple discussions, is most appropriate to meet the challenges of WRCs
- Other Regional groups have adopted similar preparations
- Success of a common proposal is proportional to the time spent in developing it (choice between having the nightmare before or during the conference)
- Extensive inter-regional preparations have greatly facilitated the process

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New Challenges

- In spite of telecommunications crisis, it is important to continue regular updating of the RR and adjusting it to emerging needs:
 - Radiocommunications are still most active in telecom world and key to development
 - Require worldwide harmonisation, permanently adjusted
- Regional preparations more efficient, but pave the way for hasty or non-harmonized decisions.