Global Circulation
of IMT-2000 Terminals:
Evolving Technology
and Emerging Solution

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**The views expressed are those of the author or the IMT-2000 Task Force
and may not necessarily reflect the opinions of the ITU or its Members.*

Global Circulation

- Right of users to carry IMT-2000 terminals anywhere in the world or use them when transmission is authorized:
  - Without causing harmful interference
  - Health and safety requirements?

- 3 principles identified by ITU-R WP8F:
  - No individual license
  - No additional terminal certification or type approval
  - Customs arrangements
  - For more information see ITU News, Issue No. 3: www.itu.int\itunews

Evolving Technology: Avoiding Harmful Interference

&Proposed Draft New Recommendation (PDNR) [IMT.RCIRC] recommends that IMT-2000 terminals should:

- Conform to IMT-2000 standards (ITU-R M.1457)
- Comply with unwanted emission limits of:
  - PDNR [IMT.UNWANT] for terrestrial radio interfaces
  - ITU R M.1343 (global non-geostationary mobile-satellite service systems) and ITU-R M.1480 (GSO MSS systems) for satellite interfaces

ITU Consultation Process

- ITU-R WP8F Invitation to ITU Secretary-General (SG) to consult Administrations of Member States
- SG issued Circular Letter No. 97: Request for Comments on the 3 principles
- Regional Consultations:
  - Region 3: 1st Meeting of APT IMT-2000 Forum (8-9 June 2001, Bangkok)
  - Region 2: XVIII Meeting of the Permanent Consultative Committee III: Radiocommunications (June 11-15, 2001, Ottawa, Canada
  - Region 1: European Union (6 Feb. 2001); African Telecommunication Union (ATU)? Arab States?
- SG submitted a report (Doc. 8F/373) to WP8F (26 June 2001, Stockholm)

The 1ˢᵗ Meeting of the APT IMT-2000 Forum:

- Adopted Opinion [APTIF1/1]:
  - ✓ Internationally recognized framework is necessary
  - ✓ Technical basis (e.g. "receive-before-transmit") based on ITU Recommendations
  - ✓ Automatic shut-off mechanism (e.g. "electronic mark")
  - ✓ Recognized role of network operators
- Appointed a liaison rapporteur: Chairperson of Regulatory Working Group (*ex officio*)

The XVIII Meeting of Permanent Consultative Committee III: Radiocommunications decided to:

- Appoint a liaison rapporteur to coordinate and cooperate with ITU (Resolution 121)

- Schedule a meeting on global circulation of IMT-2000 terminals at the XIX Meeting of PCC III (5-9 November 2001, Guatemala) (Resolution 118)

Global Circulation Trends

Thirty-seven (37) Administrations submitted comments:

- **Principle 1**: Twenty-seven (27) would apply it to visiting terminals
  - Issue: Mutual provisions (Regional or ITU)
- **Principle 2**: Twenty-nine (29) would apply it to visiting terminals
  - Issue: Regional or global arrangements and mutual recognition. Availability of a registry of conformity assessment information and ITU-Recommendations
- **Principle 3**: Thirty-two (32) endorsed it for visiting terminals
  - Issue: Few signatories to Istanbul Convention and Customs Convention on Professional Equipment

CEE, CIS & Baltic Region Circulation Trends

- 6 out 30 Members submitted comments:
  - Principle 1:
    - 5 out of 6 Administrations would apply it to visiting terminals
    - Issue: Mutual provisions (ETSI, ITU)
  - Principle 2:
    - 5 out of 6 would apply it
    - Issue: Regional or global arrangements and mutual recognition. One supports availability of a registry of conformity assessment information and ITU-Rec.
  - Principle 3:
    - All support it and for 1 (principle not necessary)
    - Issue: 15 signatories to Istanbul Convention, 12 signatories to Professional Equipment Convention

Emerging Solution

Frameworks

regulatory
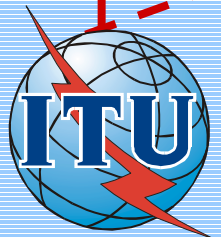- licensing
- type approval
- customs

technical
- IMT.RCIRC
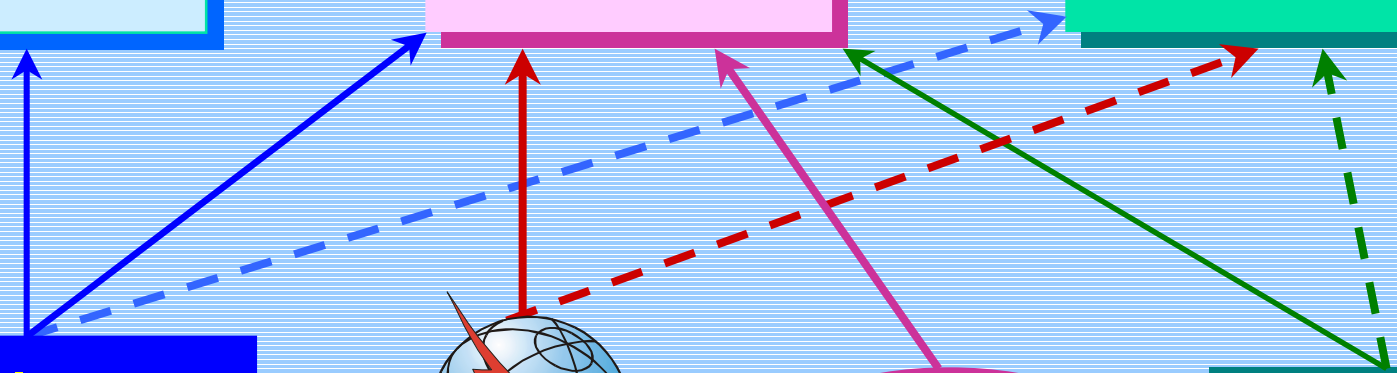- IMT.UNWANT
- SAT. RECS

mechanism
- Electronic Mark

Participants

regulators

ITU

SDO

industry

IMEI (International Mobile Equipment Identity) and ESN (Electronic Serial Number)

The technical requirements:

- **Uniqueness**: One identity to only one terminal
  - Issue: Identity for dual-mode terminals
- **Harmonization**: Nice to have but not necessary
  - Issue: Radio access technologies and core networks
- **Ability to trace terminals**: Required
  - Issue: What technology?
- **Access to electronic equipment identity information**
  - Issue: Access by Administrations and operators. Private management of multiple databases. Single point of entry?

ITU vision of global wireless access in the 21st century