

# **Function and role of European organisations in conformity assessment**

**Jan Coenraads**

**International MRA Workshop**

**December 14/15, 2006**

**Tokyo Japan**

**[jan.coenraads@brynyago.com](mailto:jan.coenraads@brynyago.com)**

# 適合性評価における欧州組織 の機能と役割

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Directorates-General  
and Services

**DG INFOSOC (RSC)**  
**DG ENTERPRISE (TCAM)**  
**TRIS and NANDO**

**R&TTECA**  
**ETSI**  
**CEPT/ERO/ECC/EFIS**

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and Services

**DG INFOSOC (RSC)**  
**DG ENTERPRISE (TCAM)**  
**TRIS及びUNANDO**

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**CEPT/ERO/ECC/EFIS**

# DG INFOSOC



Information Society and Media Directorate-General

## Most important organisation is the **Radio Spectrum Committee**

- ◆ Gives insight in spectrum developments
- ◆ All publicly available documents relating to RSC meetings may be found at:

<http://forum.europa.eu.int/Public/irc/infso/radiospectrum/home>

**Go to Library and select documents per meeting**

# DG INFOSOC



Information Society and Media Directorate-General

## 最も重要な組織は「無線スペクトラム委員会 (Radio Spectrum Committee:RSC)」

- ◆ スペクトラム開発に洞察をもたらす
- ◆ RSC会合に関するすべての公的に入手できる文書を以下のサイトに掲載:

<http://forum.europa.eu.int/Public/irc/infosoc/radiospectrum/home>

ライブラリへアクセスして、会合ごとの文書を選択してください。

# **Radio Spectrum Committee**

**Examples of  
Major items  
discussed**

# 無線スペクトラム委員会 (Radio Spectrum Committee: R S C)

議論された

主要項目の例

# Radio Spectrum Committee

## Examples of items under discussion

### UHF Radio Frequency Identification Devices (RFID):

The RSC gave a positive regulatory opinion on a draft Commission Decision on the harmonisation of radio spectrum for use by RFIDs in the UHF band. This opens the way to the adoption of the Decision by the Commission, expected by end 2006.

### Multimedia services:

A draft EC Mandate to CEPT was given a positive advisory opinion by the Committee. Its aim is to harmonise the band 1452-1479.5 MHz to allow flexible use by mobile multimedia technologies.

### Mobile communications on board aircraft:

RSC gave a draft EC Mandate to CEPT a positive advisory opinion. The definition of harmonised technical parameters ensuring the compatibility between on-board mobile networks and other spectrum users is required to provide a supportive regulatory environment for the introduction of commercial mobile phone services in airplanes.

### Ultra-Wideband (UWB):

The final CEPT report on UWB specific applications was presented. The main elements for a Commission Decision on the harmonisation of radio spectrum use for UWB above 6 GHz were discussed, but were not ready to go for regulatory opinion by RSC. The matter will be revisited in December 2006.

# 無線スペクトラム委員会 (RSC)

## 検討中の項目の例

### UHF RFID:

RSCは、UHF帯でRFIDを使用するため無線周波スペクトラムの整合に関する委員会決定案に対し建設的な規制意見を提出。これは委員会が決定を採択する道を開いており、2006年末までに採択予定。

### マルチメディアサービス:

RSCがEC委任(Mandate)案に対し建設的な提言をCEPTへ提出。その狙いは、1452-1479.5MHz帯を整合させて、モバイルマルチメディア技術に柔軟に使用できるようにすることである。

### 航空移動通信:

RSCは、EC委任案に対し建設的な提言をCEPTへ提出。機内で商業携帯電話サービスを導入する有利な規制環境を提供するには、機内モバイルネットワークと他の周波数ユーザーとの間で互換性を確保するため、整合のとれた技術的パラメータを定義する必要がある。

### UWB:

UWBアプリケーションに関する最終CEPTレポートが発表された。6GHz超のUWBに対する電波利用の整合化に関するRSC決定の主要要素を議論したが、RSCが規制意見のとりまとめへ進む状況にない。この問題は、2006年12月に再び検討予定。

# RSC Items under discussion

## **Mobile Satellite Systems (MSS):**

The final CEPT report under the EC Mandate on 2 GHz MSS. Agreement was reached on the main elements for a draft EC Decision on harmonised 2 GHz spectrum allocation for MSS. A draft Decision is planned to be submitted to RSC for its regulatory opinion.

## **Radio Local Area Networks (RLANs) at 5 GHz:**

The need to amend the Decision 2005/513/EC on 5 GHz RLANs was agreed, with the aim to avoid discrepancies on technical provisions with the corresponding ETSI Standard, thus removing uncertainties from the market. A draft Decision will be submitted to RSC.

## **Spectrum information:**

A final CEPT report on the EC Mandate on spectrum information was presented. Administrations supported the enhancement of the current EFIS information system set up by the ERO Office to cover the complete set of relevant information elements. The aim is to establish an EU single portal providing information on spectrum usage.

## **Short Range Devices (SRDs):**

A final report on the second EC Mandate on SRDs was presented. Follow-up actions on "collective use of spectrum" will be discussed.

# RSC Items under discussion

## モバイル衛星システム (MSS) :

2GHzのMSSに関するEC委任 (Mandate) に基づく最終CEPT報告。MSSに対する整合2GHz周波数配分に関するEC決定 (Decision) 案の主要要素に対し合意に達成。決定案が、規制意見をまとめるためRSCへ提出される予定。

## 5GHzの無線ローカルエリアネットワーク (RLANs) :

対応するETSI規格との技術規程の相違をなくし、市場から不確実性を取り除くため、5GHz RLANsの決定 2005/513/ECを改正する必要があることに合意。決定 (Decision) 案をRSCへ提出予定。

## 周波数情報:

周波数情報に関するEC委任 (Mandate) の最終CEPTレポートが提出された。政府は、関連する全情報を収集するためEROが設立した現在のEFIS情報システムの高度化を支持した。この狙いは、電波の使用に関する情報を提供するEUで単一のポータルを設立することである。

## SRD (ショートレンジデバイス) :

SRDに対する第2回EC委任に関する最終報告が提出された。「周波数の総合的な使用」に関する継続的措置を議論する予定。

# DG ENTERPRISE



*DG for Enterprise and Industry*

DG ENTR covers 482  
Directives under which  
EMCD LVD and R&TTED.



**Heinz Zourek,  
Director General**

**Responsible for daily  
operation of the R&TTED  
Committee for this is:  
TCAM**

# 企業総局 (DG ENTERPRISE)



*DG for Enterprise and Industry*

DG ENTRはEMC指令、低電圧指令、R&TTE指令など、482指令を担当。



Heinz Zourek,  
Director General

## R&TTE指令の日常的な運用を担当

# その委員会が: TCAM

# TCAM

## Telecommunications Conformity Assessment and Market Surveillance Committee

**TCAM assists the EU Commission:**

- ◆ **composed of representatives of the MS,**
- ◆ **chaired by an Commission representative.**

**TCAM was set-up to facilitate the exchange of documents between Member States and the Commission.**

# TCAM

## 電気通信適合性評価・市場監視委員会 (Telecommunications Conformity Assessment and Market Surveillance Committee)

TCAMは EU委員会を支援:

- ◆ 加盟国代表者で構成
- ◆ EU委員会代表が委員長

TCAMは、加盟国と委員会との文書の交換を促進するため設立された。

# R&TTE Directive:

**TCAM (formal committee) = Member States**  
*General Policy Issues and advice to the Commission*

**CENELEC / ETSI**

**ERC TG2, WG RR  
ERC FM SRD MG**

**Equipment classification subgroup**

**Radio interface subgroup**

**ADMINISTRATIVE COOPERATION  
(ADCO) Market surveillance**

**R&TTE Compliance  
Association  
Notified Bodies**

# R&TTE指令:

TCAM (正式な委員会) = 加盟国  
一般政策課題及び委員会への提言

CENELEC / ETSI

ERC TG2, WG RR  
ERC FM SRD MG

機器分類サブグループ

無線インタフェースサブグループ

ADMINISTRATIVE COOPERATION  
(ADCO) 市場監視

R&TTE Compliance  
Association  
Notified Bodies

# **Example of TCAM Groups**

## **TCAM RIG *Radio Interface Group***

**The group deals with Classification of products and notification issues.**

## **TCAM CAPD *Communications Access for People with Disabilities***

**This group has been established to ensure that Telecom Products are accessible to people with special needs.**

# TCAMグループの例

## TCAM RIG無線インタフェースグループ

このグループは、製品の分類と通知 (notification)問題を担当

## TCAM CAPD (身体障害者のための通信アクセス: *Communications Access for People with Disabilities*)

このグループは、特別なニーズを持つ人たちが通信機器へアクセスできるようにするために設立。

# **Example of TCAM Group**

**ADCO**

**ADministrative Co-Operation Group**

**Will be dealt with separately in the presentation.**

# TCAMグループの例

**ADCO**

**ADministrative Co-Operation Group**

プレゼンテーションで別に説明

# Examples of some recent TCAM activities

- ◆ **introduction of Article 3.3f essential requirements to ensure e-Accessibility;**
- ◆ **new directive affecting radios for use on inland waterways;**
- ◆ **RFID tags;**
- ◆ **classification of graphics tablets as being outside R&TTED;**
- ◆ **FM relay devices (currently Class 2 and now usable in Estonia, Finland, Germany, Iceland, Liechtenstein, Spain & Switzerland);**
- ◆ **Acoustic safety.**

# 最近のTCAM活動の例

- ◆ Eアクセシビリティを確保するため、第3.3f項の必須要求事項を導入
- ◆ 内陸水路で無線の使用に影響する新しい指令
- ◆ RFIDタグ
- ◆ R&TTE指令以外の図表の分類
- ◆ FM中継機器 (現在、Class 2、エストニア、フィンランド、ドイツ、アイスランド、リヒテンシュタイン、スペイン、スイスで使用可能)
- ◆ 音響安全性

# **Information from TCAM**

**TCAM provides very important information for CAB's**

**How to get access to this information at an early stage?**

**Become member of R&TTECA!**

# TCAMからの情報

TCAMはC A Bにとって非常に重要な  
情報を提供

これらの情報に初期段階で  
どのように入手するか？

**R&TTECAに加盟ください！！**

**R&TTE CA**  
**(Compliance**  
**Association)**

**R&TTE適合協会：  
R&TTE CA  
(Compliance  
Association)**

# R&TTE CA (Compliance Association)

## ◆ AIM:

- Information exchange
- Framework for Co-ordination between CAB
- Problem solving

**ANYBODY CAN JOIN WHO IS INTERESTED**

## ◆ Interested?

- [www.rtteca.com](http://www.rtteca.com)
- [jan.coenraads@brynyago.com](mailto:jan.coenraads@brynyago.com)
- [barry.cartman@cartman](mailto:barry.cartman@cartman)

chairman  
secretary

# R&TTE CA (Compliance Association)

## ◆ 目標:

- 情報交換
- CAB間の調整枠組み
- 問題の解決

関心のある者なら誰でも加盟できる。

## ◆ 関心は?

- [www.rtteca.com](http://www.rtteca.com)
- [jan.coenraads@brynyago.com](mailto:jan.coenraads@brynyago.com)
- [barry.cartman@cartman](mailto:barry.cartman@cartman)

理事長  
事務長

# R&TTE CA (Compliance Association)

## ◆ Members:

- Notified Bodies + MRA CAB
- Manufacturers
- Consultants
- Test Laboratories
- Authorities
- Other interesting parties

## ◆ Observers, such as:

- European Commission
- ECACB
- TCB Council (USA) JVLATE (Japan)

# R&TTE CA (Compliance Association)

## ◆ メンバー構成:

- Notified Bodies + MRA CAB
- 製造業者
- コンサルタント
- 試験事業者
- 政府当局
- その他の関係者

## ◆ オブザーバー: 例

- 欧州委員会 (European Commission)
- ECACB
- TCB Council (米国)、JVLATE (日本)

# Example of R&TTE CA TGN

R&TTE Compliance Association

R&TTE CA  
TGN 10

## Guidance on the Minimum Content of a Notified Body Opinion Document

### Introduction

Annex IV of Directive 1999/5/EC provides for a notified body to give an opinion on a technical construction file but without guidance on the format and content of such an opinion. In practice, some opinions have been found to be misleading.

### Guidance

The table below sets out minimum criteria for a notified body opinion. In all other respects, a notified body is free to choose its own format and may include additional information such as the manufacturer's details, conformity assessment procedure, reference standards, intended purpose & other remarks/observations.

Title	"Directive 1999/5/EC – Notified Body Statement of Opinion" or similar text using the word "opinion" and avoiding use of words such as "certificate" and "declaration"
Notified body details	Name, address etc, logo, NB number
Opinion number	Unique number of opinion, Revision number and / or copy number if applicable
Date	Date of issue
Applicant details	Name, address etc of the party seeking the opinion
Scope of opinion	Whether the opinion is in respect of health & safety <sup>1</sup> (Article 3.1a), EMC (Article 3.1b), radio spectrum use (Article 3.2) and/or special features (Article 3.3a-f)
Identification of apparatus	The goal is to give the <u>minimum</u> information from the following list such that a third party would be able to uniquely identify the item in question. Description of apparatus including brand/trade name, model/type designation, software revision. Serial number if opinion was based on test/examination of a specific physical sample. Reference of any build status / design documentation taken into account. For TTE, network interface compatibility. For radio equipment (as appropriate): <ul style="list-style-type: none"><li>o Frequency band(s)/range</li><li>o Transmit power / power range</li><li>o Modulation type</li><li>o ...etc.</li></ul>
TCF Identification	Unique identification of the documentation etc. taken into consideration irrespective of the actual physical format of the TCF.
Opinion text	The text stating whether the apparatus complies or not. (See example.)
Authorised signatory	Signature block including printed name of the signatory.

### Example of opinion text

*Our opinion in accordance with Annex IV of Council Directive 1999/5/EC on radio equipment and telecommunications equipment and the mutual recognition of their conformity is that the apparatus identified above complies / does not comply with the requirements of that directive stated in the above scope.*

### Disclaimer

This guidance document does not replace the text of the R&TTE Directive and is for guidance only. In legal disputes the text of the Directive, or its implementation in National legislation, takes precedence.

<sup>1</sup> Note that "health & safety" includes EMF as well as electric shock and other hazards. The opinion should be clear about which hazards are included if Article 3.1a is referenced in its scope.

# R&TTE CA TGNの例

R&TTE Compliance Association  
R&TTE CA  
TGN 10

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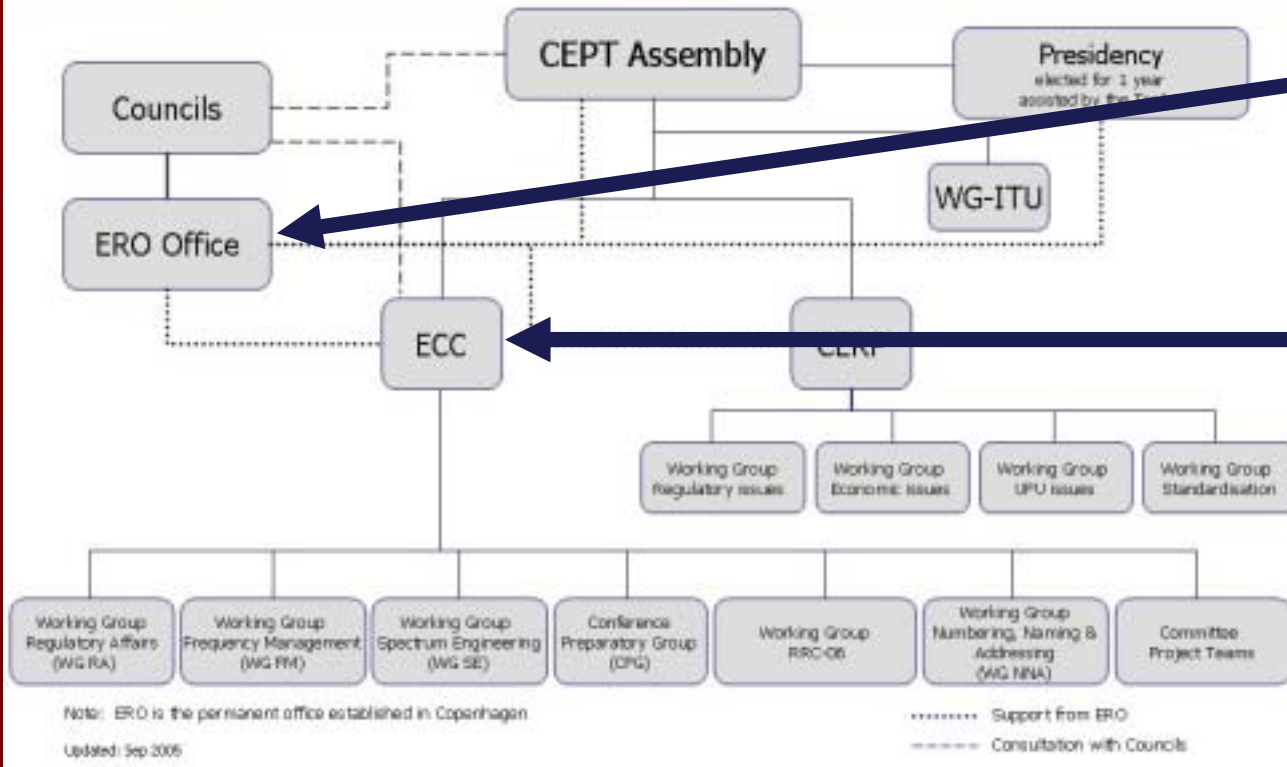
<sup>1</sup> Note that "health & safety" includes EMF as well as electric shock and other hazards. The opinion should be clear about which hazards are included if Article 3.1a is referenced in its scope.

訳注)

TGN: Technical Guidance Note

# CEPT Organisation

## CEPT organisation

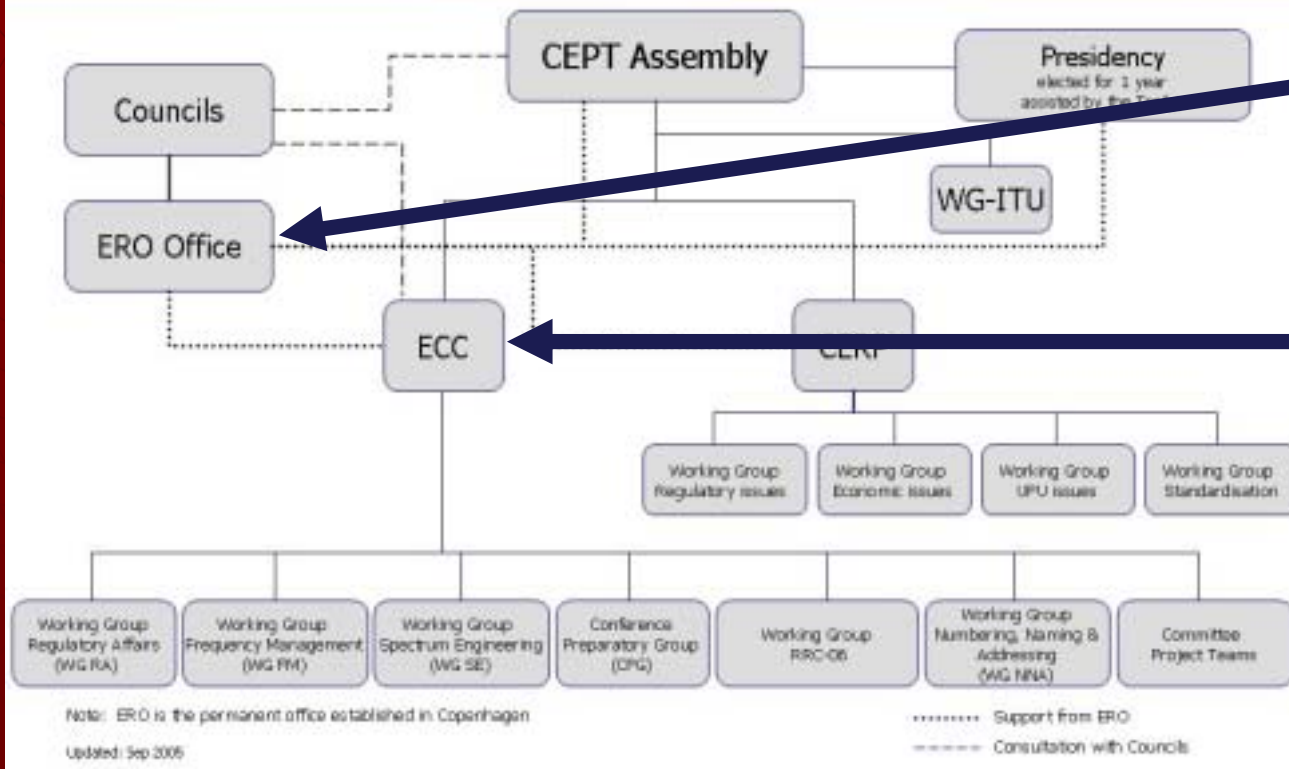


**Important**

**Electronic Communications Committee (ECC)**  
**European Radiocommunications Office (ERO)**

# CEPTの組織

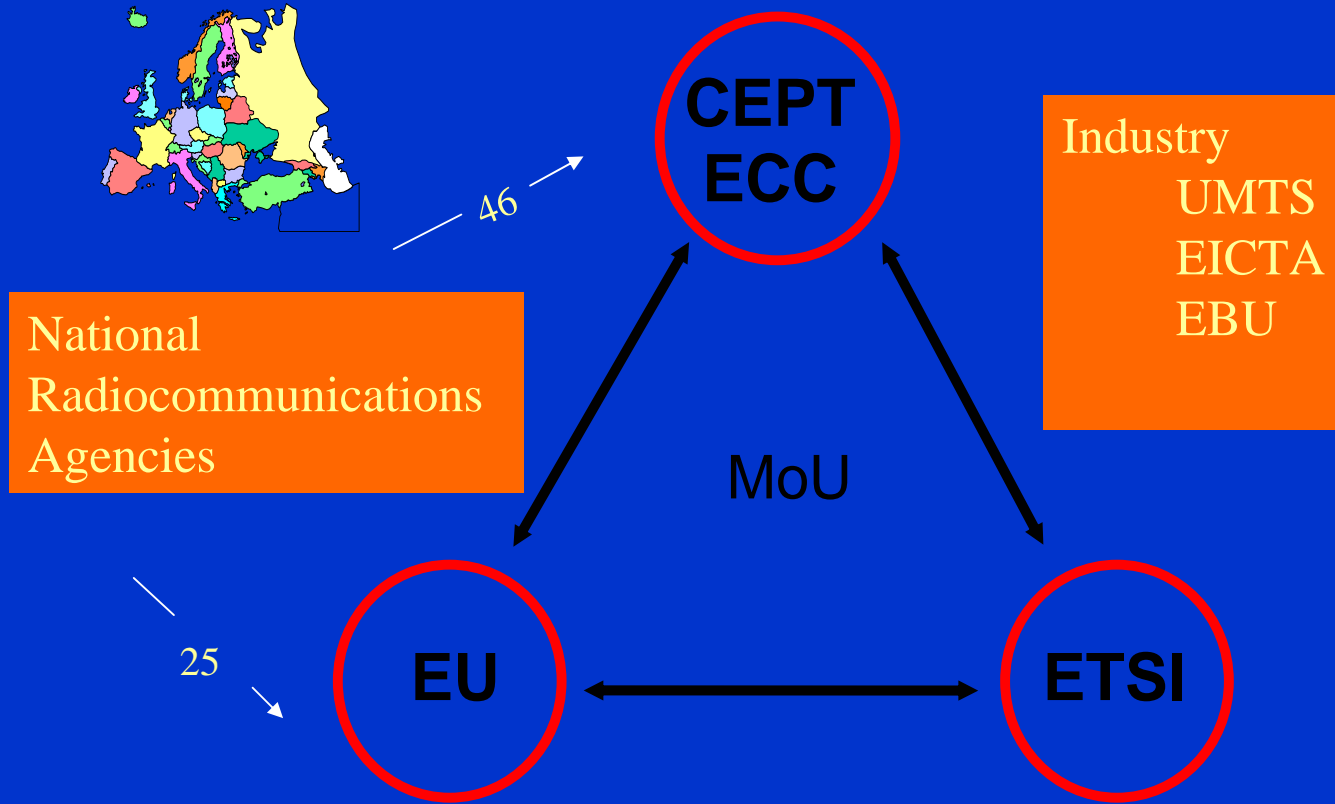
## CEPT organisation



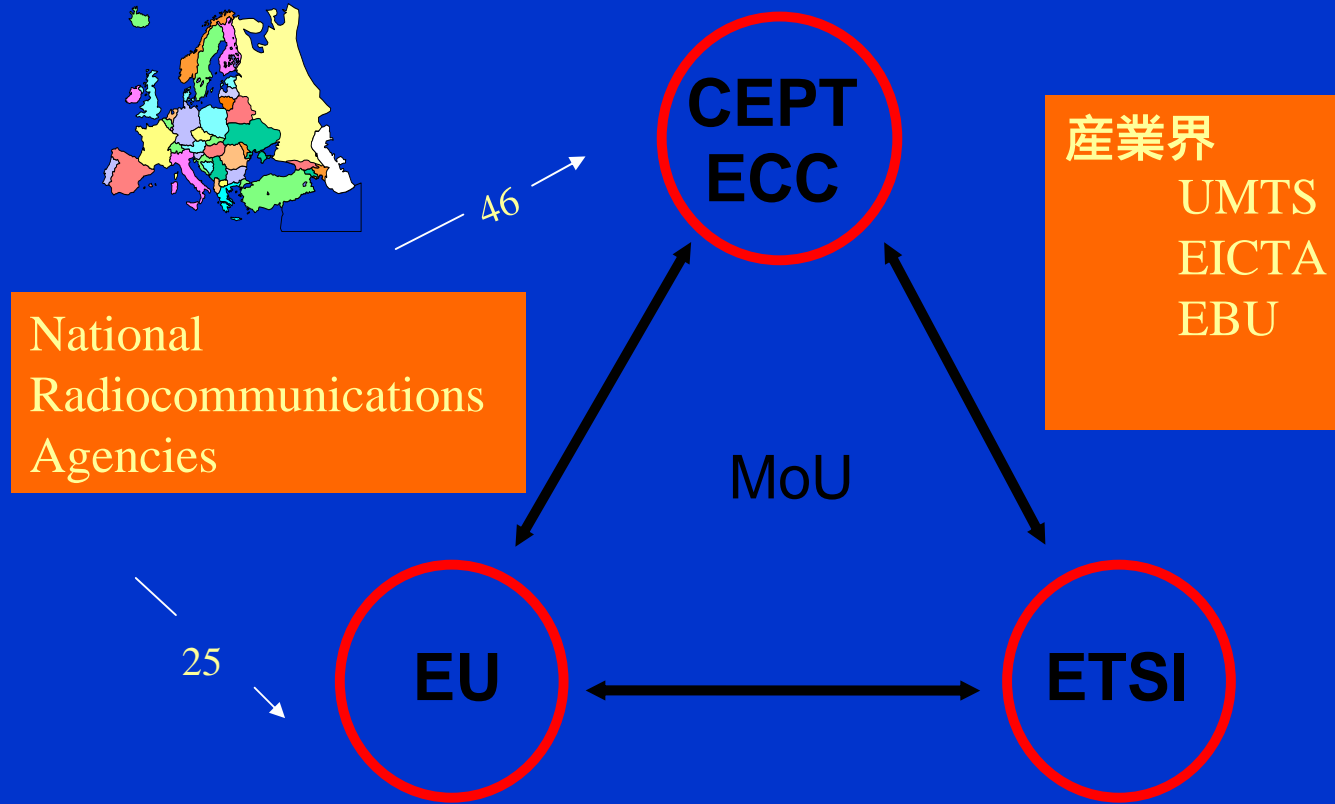
重要

**Electronic Communications Committee (ECC)**  
**European Radiocommunications Office (ERO)**

# Main Players in Europe



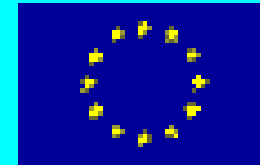
# 欧州における主なプレーヤ



# Use of Radio Spectrum in Europe

## Spectrum policy:

- ◆ Identifying spectrum need
- ◆ Initiating harmonisation
- ◆ Setting priorities
- ◆ Defining regulatory environment



## Spectrum management:

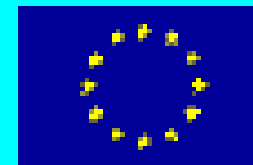
- ◆ Planning allocation
- ◆ Technical conditions of usage
- ◆ Assignment



# 欧州における電波の利用

## 電波政策:

- ◆ 電波ニーズの把握
- ◆ 整合に着手
- ◆ 優先順位を設定
- ◆ 規制環境を明確化



## 周波数管理:

- ◆ 周波数配分計画
- ◆ 技術的利用条件
- ◆ 周波数割当



# EU R&TTE Directive/Spectrum Decision

## R&TTE Directive:

- Deals with **placing on the market and use** of radio equipment
- Imposes legal obligations (EMC, non interference etc.)
- Refers to **harmonised standards** mandated to ETSI
- Requires publication of **radio interfaces**
- **Replaces** national regimes

## Spectrum Decision:

- Harmonisation of **spectrum usage**, based on mandates to CEPT
- Framework for defining **spectrum policy**
- Framework for deciding on **technical implementation measures**
- Availability of **information on spectrum usage**

# EUのR&TTE指令/周波数決定

## R&TTE指令:

- 無線設備の市場出荷及び利用を規定
- 法的義務を課す (EMC, 電波干渉の排除など.)
- ETSIに義務付けた整合規格を掲載
- 無線インタフェースの公表を義務付ける
- 国の制度に取って代わる

## 周波数決定

(Spectrum Decision):

- CEPTへの委任に基づき電波利用の整合
- 電波政策を決める枠組み
- 技術実施措置を決定する枠組み
- 電波利用情報の提供

# CEPT

- **46 European countries**
- **Regional Telecommunications Organisation with no legislative powers**
- **Decisions/Recommendations**
- **Aims:**
  - **To strengthen relations between members**
  - **To promote co-operation**
  - **To contribute to dynamic & competitive market**

# CEPT

- 欧州46カ国
- 法的権限を持たない地域電気通信団体
- 決定/勧告
- 目標:
  - メンバー間の関係強化
  - 協力の促進
  - ダイナミックで競争的な市場へ貢献

# Mandates to CEPT

- ◆ **EU Radio Spectrum Committee advises EU Commission on mandates to CEPT**
- ◆ **Mandates issued to CEPT for technical implementation measures (tasks/timetable):**
  - **Harmonisation of radio frequency allocations**
  - **Information availability**
- ◆ **Commission decides on application of mandates results through Decisions (legally binding)**
- ◆ **If work progress / mandate results not satisfactory, Commission may adopt measures to achieve objectives of the mandate**

# CEPTへの委任

- ◆ EUのRSC(無線スペクトラム委員会)が、CEPT委任に関して EU委員会へ提言
- ◆ 技術的実施措置(作業/タイムテーブル)について CEPTへ出された委任(Mandates)：
  - 無線周波数配分の整合化
  - 情報の提供
- ◆ 委員会は決定(Decisions)を通じて委任結果の適用について決定する(法的拘束力)。
- ◆ 作業の進捗/委任の結果が不満足であれば、委員会は委任の目標を達成する措置を採択できる。

# Some CEPT Deliverables

- ◆ **ECC Decisions are “primary method of ensuring the provision of the necessary frequencies for new Europe-wide radio services”**
- ◆ **Over 50 ECC Decisions on spectrum harmonisation**
- ◆ **European Table of Frequency Allocations and Utilisations (ECA)**
- ◆ **Comparison of radio fees and charges in CEPT countries (Satellite, PMR etc.)**

## CEPTの出版物

- ◆ ECC決定(Decisions)が、「新しい汎欧州無線サービスに必要な周波数の提供を確保する主な方法」
- ◆ 周波数整合化に関する50以上のECC決定
- ◆ 欧州周波数配分・利用表(ECA)
- ◆ CEPT諸国における無線料金の比較(衛星通信, 公衆移動通信など.)

## Some CEPT Deliverables (2)

- ◆ ~ 15 ECC Decisions on free circulation & use
- ◆ ~ 30 ECC Decisions on licence exemption
- ◆ Traditionally based on specific types of terminals operating within particular frequency band
- ◆ Current move towards generic Decisions that apply in general way to terminals and associated services which operate in specified harmonised frequency bands

## CEPTの出版物(2)

- ◆ 自由なサーキュレーション及び利用に関するECC 決定 ~15件
- ◆ 免許の免除に関するECC決定 ~ 30件
- ◆ 特定の周波数帯で利用する端末機器が旧来から中心
- ◆ 特定の整合周波数帯で利用する端末機器及び関連サービスに一般的に適用する一般的決定へ最近移行

# Transparency and Information

- ◆ **Harmonise information and make it accessible in user-friendly way**
- ◆ **Obligation for Member States to publish and keep up to date:**
  - **National Tables of Radio Frequency Allocation**
  - **Information on rights, conditions, procedures, charges and fees related to spectrum use**

# 透明性と情報

- ◆ 情報の整合化を図り、利用しやすい方法でアクセスできるようにする。
- ◆ 以下を公表・更新する加盟国の義務：
  - 国の周波数配分表
  - 周波数の利用に関する権利、条件、手続き、料金に関する情報

# EFIS principles

European Frequency Information System

- **To illustrate extent of frequency harmonisation within Europe**
- **To allow users to quickly search and compare spectrum information for a number of CEPT administrations**
- **To meet requirements of R&TTE Directive and Spectrum Decision**

# EFISの原則

EFIS: European Frequency Information System (欧州周波数情報システム:)

- 欧州内の周波数整合化の程度を示す。
- ユーザーがCEPT主官庁の周波数情報を迅速に検索・比較できるようにする。
- R&TTE指令及びスペクトラム決定の要求事項を満たす。

# EFIS principles based on:

## ◆ CEPT:

- **Decision ERC/DEC(97)01**
  - ◆ *publication of national frequency tables*
- **Decision ECC/DEC(01)03**
  - ◆ *EFIS*

## ◆ EU:

- **Decision 676/2002/EC**
  - ◆ *(radio spectrum decision, article 5)*
- **DIRECTIVE 1999/5/EC**
  - ◆ *(R&TTE Directive, article 4.1)*
- **DIRECTIVE 2002/20/EC**
  - ◆ *(authorisation Directive, article 15)*

# 以下に基づいたEFISの方針：

## ◆ CEPT:

- **Decision ERC/DEC(97)01**
  - ◆ *publication of national frequency tables*
- **Decision ECC/DEC(01)03**
  - ◆ *EFIS*

## ◆ EU:

- **Decision 676/2002/EC**
  - ◆ *(radio spectrum decision, article 5)*
- **DIRECTIVE 1999/5/EC**
  - ◆ *(R&TTE Directive, article 4.1)*
- **DIRECTIVE 2002/20/EC**
  - ◆ *(authorisation Directive, article 15)*

# EFIS today

- ◆ **Frequency oriented**
- ◆ **Available:**
  - **Allocations (searchable)**
  - **Applications (searchable)**
  - **Radio interfaces (just started; searchable)**
  - **Related documents and NTFA's**
- ◆ **Links to national NTFA's**

# 現在のEFIS

- ◆ 周波数志向
- ◆ 以下を提供：
  - 配分（検索可能）
  - アプリケーション（検索可能）
  - 無線インタフェース（開始したばかり、検索可能）
  - 関連文書及びNTFA(国別周波数配分表)
- ◆ 各国のNTFAへのリンク

訳注)NTFA: National Table for Frequency Allocation

# EFIS tomorrow

- ◆ New software incl. user interface
- ◆ Right of use information added
- ◆ Active maintenance
- ◆ Tools for administrations available including support

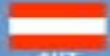





































# 将来のEFIS

- ◆ ユーザーインターフェースを含む  
新しいソフトウェア
- ◆ 情報利用権の追加
- ◆ 積極的に維持
- ◆ 支援を含む主官庁が利用できるツール

# EFIS Search applications

ERO Frequency Information System - Microsoft Internet Explorer

Address: <http://www.efis.dk/compare/applications>

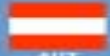






































Frequency	Radio Interface	recommended ECA	 AUT	 EST	 ISL	 HUN
862.0 - 864.0 MHz	Land mobile 	Cordless telephones, Defence systems 				Land mobile 
864.0 - 864.1 MHz	Radio Microphones 	Cordless telephones, Defence systems, Radio Microphones, Wireless Audio Applications 	Radio Microphones, Wireless Audio Applications 	Radio Microphones, Wireless Audio Applications 	Consumer radio microphones, Wireless Audio Applications, CT2 	Radio Microphones, Wireless Audio Applications 
	Wireless Audio Applications 	Radio Microphones 		Wireless Audio Applications 		Radio Microphones 
	Wireless Audio Applications 	Wireless Audio Applications 		Wireless Audio Applications 		Wireless Audio Applications 
864.1 - 865.0 MHz	Radio Microphones 	Cordless telephones, Defence systems, Radio Microphones, Wireless Audio Applications 	Radio Microphones, Wireless Audio Applications 	Radio Microphones, Wireless Audio Applications 	Consumer radio microphones, Wireless Audio Applications, CT2 	Radio Microphones, Wireless Audio Applications, Cordless telephones 
	Wireless Audio Applications 	Radio Microphones, Wireless Audio Applications 		Wireless Audio Applications 		Radio Microphones 
	CT2 	Radio Microphones 		Radio Microphones 		Wireless Audio Applications, CT2 
	Cordless telephones 	Wireless Audio Applications 		Wireless Audio Applications 		Wireless Audio Applications, CT2 

start | Wireless Tel... | C:\Documents... | ERO Frequ... | Channel 7... | ACCO 2002... | Microsoft Po... | DA | 39:38

# EFISの検索アプリケーション

ERO Frequency Information System - Microsoft Internet Explorer

Address: <http://www.efis.dk/compare/applications>

Frequency	Radio Interface	recommended ECA	 AUT	 EST	 ISL	 HUN
862.0 - 864.0 MHz	Land mobile 	Cordless telephones, Defence systems 				Land mobile 
864.0 - 864.1 MHz	Radio Microphones 	Cordless telephones, Defence systems, Radio Microphones, Wireless Audio Applications 	Radio Microphones, Wireless Audio Applications 	Radio Microphones, Wireless Audio Applications 	Consumer radio microphones, Wireless Audio Applications, CT2 	Radio Microphones, Wireless Audio Applications 
	Wireless Audio Applications 	Radio Microphones 		Wireless Audio Applications 		Radio Microphones 
	Wireless Audio Applications 	Wireless Audio Applications 		Wireless Audio Applications 		Wireless Audio Applications 
864.1 - 865.0 MHz	Radio Microphones 	Cordless telephones, Defence systems, Radio Microphones, Wireless Audio Applications 	Radio Microphones, Wireless Audio Applications 	Radio Microphones, Wireless Audio Applications 	Consumer radio microphones, Wireless Audio Applications, CT2 	Radio Microphones, Wireless Audio Applications, Cordless telephones 
	Wireless Audio Applications 	Radio Microphones 		Wireless Audio Applications 		Radio Microphones 
	CT2 	Radio Microphones 		Radio Microphones 		Wireless Audio Applications, CT2 
	Cordless telephones 	Wireless Audio Applications 		Wireless Audio Applications 		Wireless Audio Applications 

start | Wireless Tel... | C:\Documents... | ERO Frequ... | Channel 7... | ACCO 2003... | Microsoft Po... | DA | 39:38

# Find radio interfaces

ERO Frequency Information System - Microsoft Internet Explorer

Address: [http://www.ero.eu/search/interfaces/6a6benkSearch=1&compare=1&searchTable=%20Europe%20\(ECA\)%20\\_Austria,Estonia,Iceland,Netherlands&searchFrequencyUn](http://www.ero.eu/search/interfaces/6a6benkSearch=1&compare=1&searchTable=%20Europe%20(ECA)%20_Austria,Estonia,Iceland,Netherlands&searchFrequencyUn)

msn



ERO Frequency Information System

SEARCH COMPARE HELP

General Allocations Applications Documents Interfaces Allocations Applications

Search Radio Interfaces

Frequency Range: 868.0 to 868.8 MHz Frequency Table: - Europe (ECA) - Search

Table	Frequency Band	Application	Allocation	Channeling	Transmit Power/Limit	Channel Occupation	Duplex Direction	Licensing Regime	Art. 3.3 requirements	Frequency Planning	Reference	*
recommended	868-868	Non-specific SRDs		No spacing	25 mW e.r.p.	up to 1.0%		No		ERC/DEC/(01)04	EN 300 220	SRD, Recorr, ERC/
	868-869	Non-specific SRDs		No spacing	25 mW e.r.p.	up to 0.1%		No		ERC/DEC/(01)04	EN 300 220	SRD, Recorr, ERC/
	868-868	Non-specific SRDs		No spacing	25 mW e.r.p.	1.0%		No		ERC/DEC/(01)04	EN 300 220	SRD, Recorr, ERC/
	868-868	Non-specific SRDs		All K	25 mW e.r.p.	lower than 1.0%		No				

ERO cannot be held responsible for any wrong information in the EFIS system.

Internet

# 無線インタフェース

ERO Frequency Information System - Microsoft Internet Explorer

Address: [http://www.ero-fis.de/search/interfaces/6a6benkSearch=1&compare=1&searchTable=%20Europe%20\(ECA\)%20\\_Austria,Estonia,Iceland,Netherlands&searchFrequencyUn](http://www.ero-fis.de/search/interfaces/6a6benkSearch=1&compare=1&searchTable=%20Europe%20(ECA)%20_Austria,Estonia,Iceland,Netherlands&searchFrequencyUn)



ERO Frequency Information System

SEARCH COMPARE HELP

General Allocations Applications Documents Interfaces Allocations Applications

Search Radio Interfaces

Frequency Range: 868.0 to 868.8 MHz Frequency Table: - Europe (ECA) - Search

Table	Frequency Band	Application	Allocation	Channeling	Transmit Power/Limit	Channel Occupation	Duplex Direction	Licensing Regime	Art. 3.3 requirements	Frequency Planning	Reference	*
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	868-869	Non-specific SRDs		No spacing	25 mW e.r.p.	up to 0.1%		No		ERC/DEC/ (01)04	EN 300 220	SRD, Recorr, ERC/
	868-868	Non-specific SRDs		No spacing	25 mW e.r.p.	1.0%		No		ERC/DEC/ (01)04	EN 300 220	SRD, Recorr, ERC/
	868-868	Non-specific SRDs		All K	25 mW e.r.p.	lower than 1.0%		No				

ERO cannot be held responsible for any wrong information in the EFIS system.

Internet

# Information EFIS/ERO

## Find requirements for use of radio:

- [www.efis.dk](http://www.efis.dk)
- Search tables for applications
- Compare applications between countries
- [www.ero.dk](http://www.ero.dk) ,deliverables, check ECC Recommendations & Decisions
- Check appendices for implementation

# EFIS/ERO情報

## 無線の利用に関する要求事項:

- [www.efis.dk](http://www.efis.dk)
- アプリケーションの検索表
- 国間のアプリケーションの比較
- [www.ero.dk](http://www.ero.dk) , 出版物, ECC勧告及び決定
- 実施用の付録資料をチェックしてください。



**ETSI**

# ETSI

欧洲电气通信标准化协会

# **ETSI's Mission**

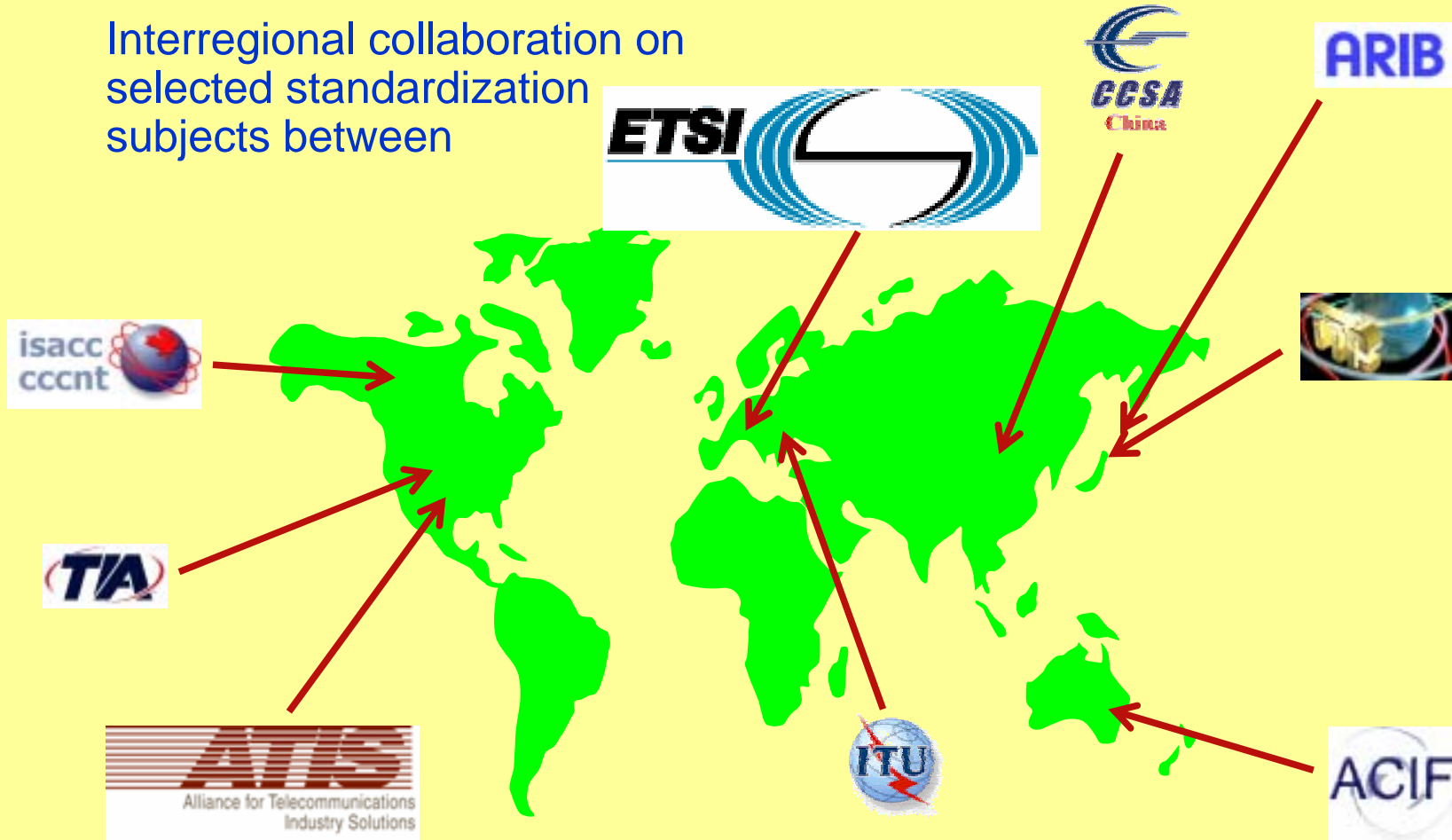
**To develop globally applicable deliverables meeting the needs of the ICT community, whilst supporting EU and EFTA regulation and initiatives.**

# ETSIのミッション

ICT業界のニーズを満たすグローバルに適用できる標準を作成するとともに、EU 及びEFTAの規制及び諸計画を支援する。

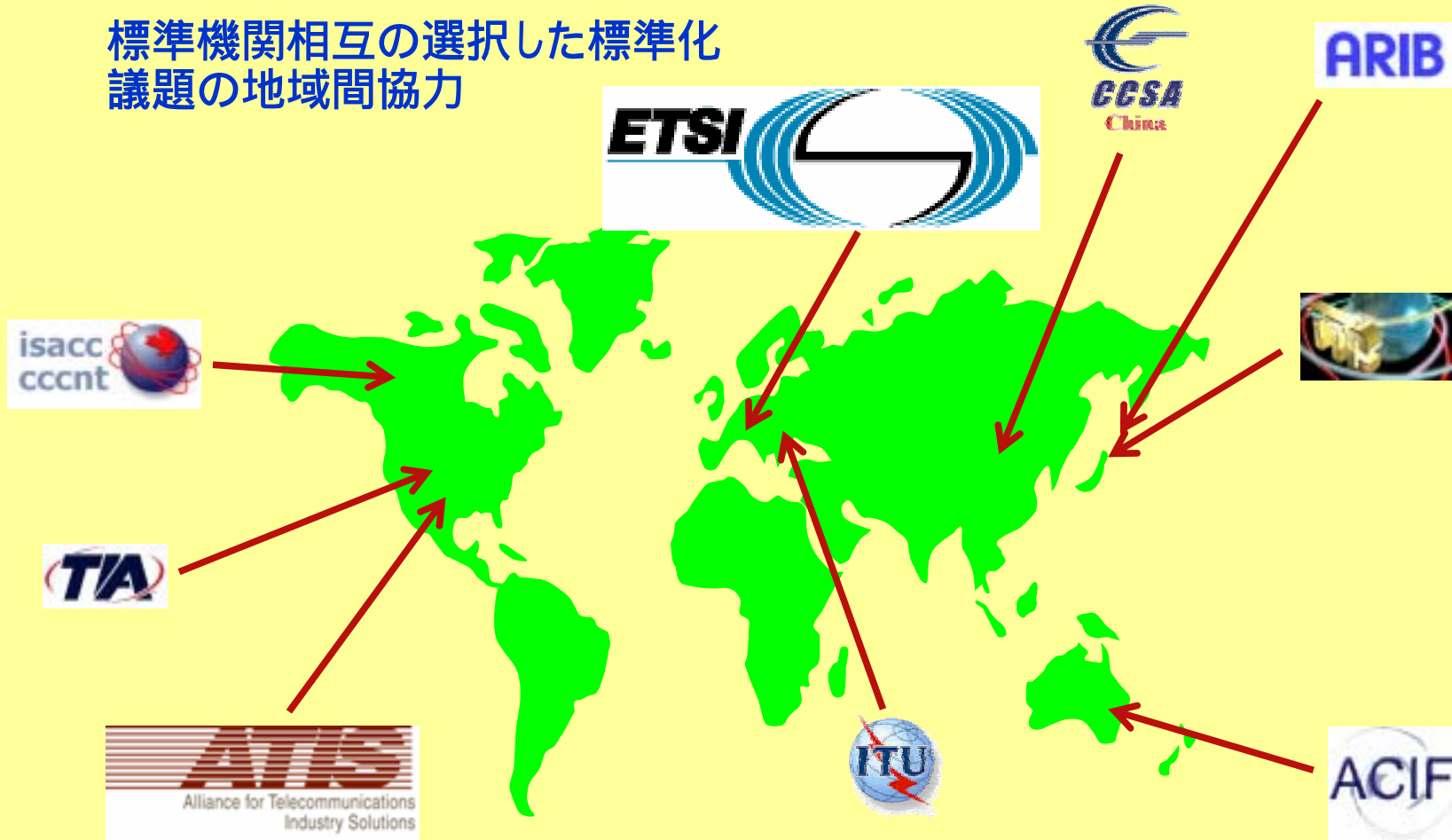
# Global Standards Collaboration

Interregional collaboration on selected standardization subjects between

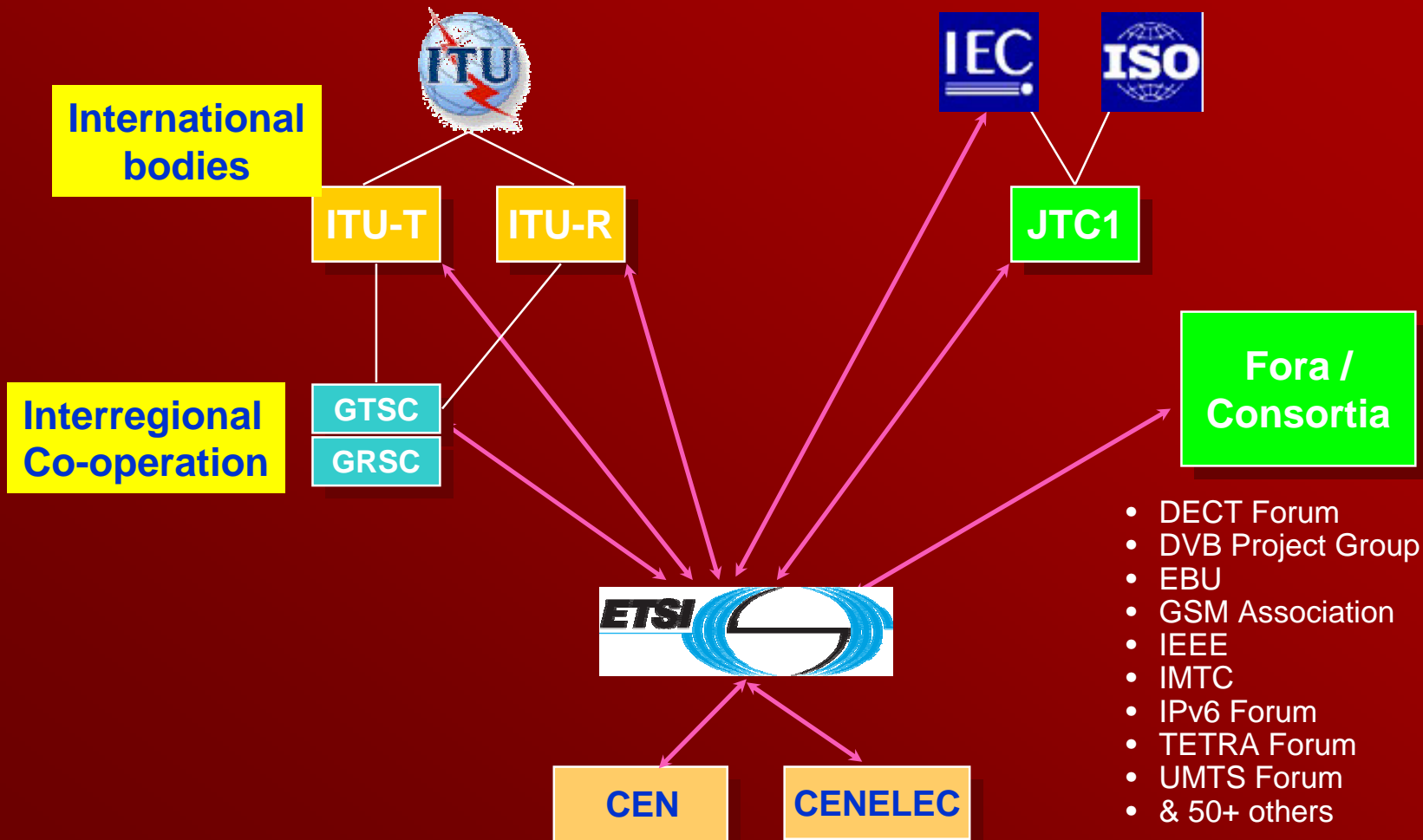


# 標準に関するグローバルな協力

標準機関相互の選択した標準化  
議題の地域間協力



# ETSI's relations with ITU, IEC & ISO and Standards Bodies



# ETSIとITU, IEC及びISOとの関係 と標準化団体

国際団体



ITU-T

ITU-R



JTC1

地域間協力

GTSC  
GRSC

Fora /  
Consortia



CEN

CENELEC

- DECT Forum
- DVB Project Group
- EBU
- GSM Association
- IEEE
- IMTC
- IPv6 Forum
- TETRA Forum
- UMTS Forum
- & 50+ others

# ETSI IS

- ❑ A not-for-profit association created in 1988
- ❑ Independent
- ❑ Secretariat located at Sophia Antipolis, France
- ❑ Global standards  
14000+ publications – freely available
- ❑ Market driven (users, administrations, manufacturers, operators, service providers, others)
- ❑ 26 Technical bodies (125+ working groups) active in ICT



# ETSIは

- 1988年に設立された非営利団体
- 独立
- 事務局はフランスのソフィアアンティポリスに所在
- グローバル標準  
14000以上の出版物 –  
無料で入手可能
- 市場志向 (ユーザー、主官庁、製造業者、通信事業者、サービスプロバイダー等)
- 26の技術機関 (125以上のワーキンググループ)が  
ICT分野で活躍



# Four types of Member

## □ Full member [498]

- Established in geographical area of Europe (as defined by CEPT)
- Committed to ETSI Statutes and Rules of Procedure

## □ Associate member [102]

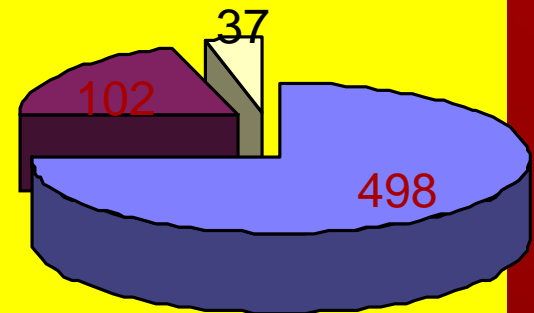
- Committed to ETSI's work, but without a presence in the CEPT geographical area of Europe

## □ Observer [37]

- Entitled to be full member, but not wishing to participate in ETSI's technical work

## □ Counsellor [2]

- Representative of European Commission or EFTA Secretariat



## 4種類のメンバー

### □ フルメンバー [498]

- 欧州地域に所在 (CEPTの定義による)する団体
- ETSI約款及び手続きルールに積極的に取り組んでいる

### □ アソシエートメンバー [102]

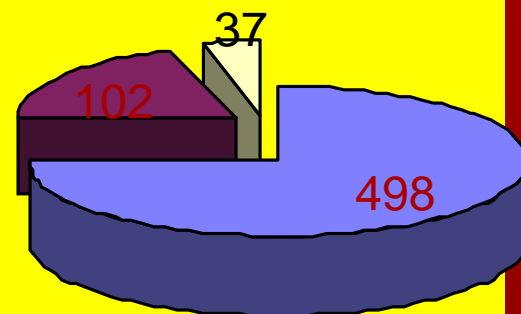
- ETSIの作業に積極的に取り組んでいるが、CEPTの欧州地域外の団体

### □ オブザーバー [37]

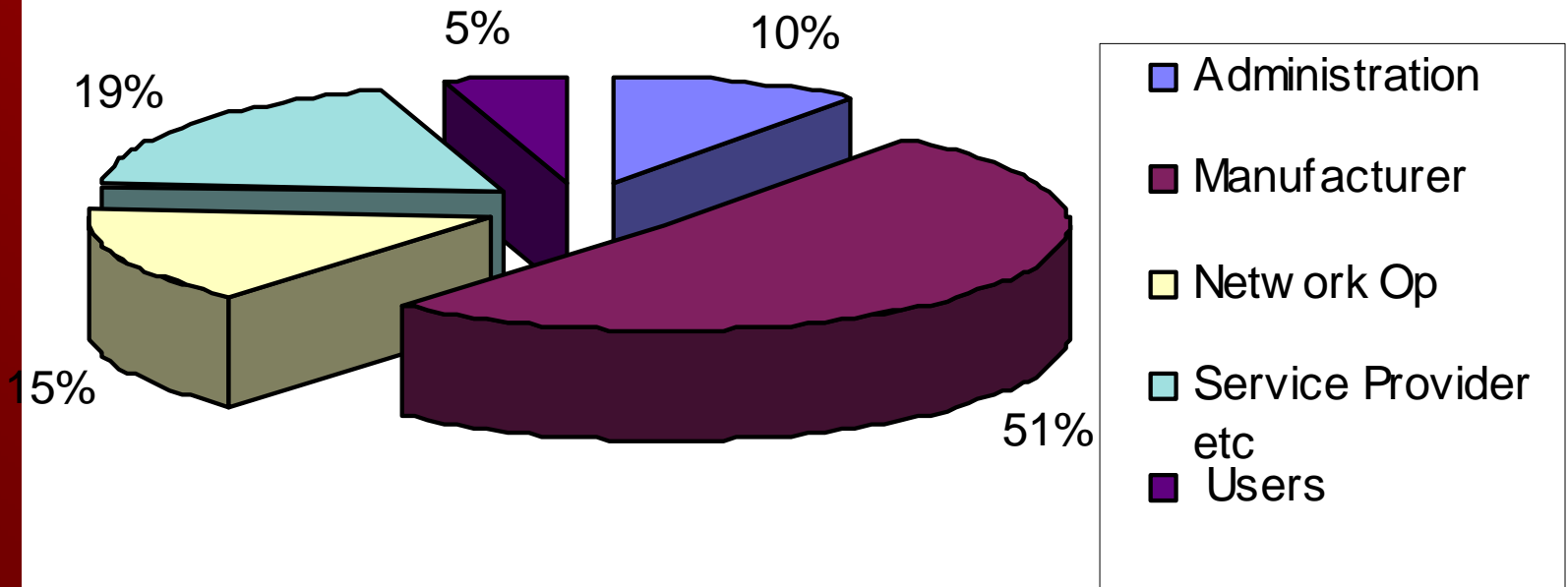
- フルメンバーになる資格があるが、ETSIの技術作業に参加したくない団体

### □ カウンセラー [2]

- 欧州委員会及びEFTA事務局の代表



# ETSI's Community

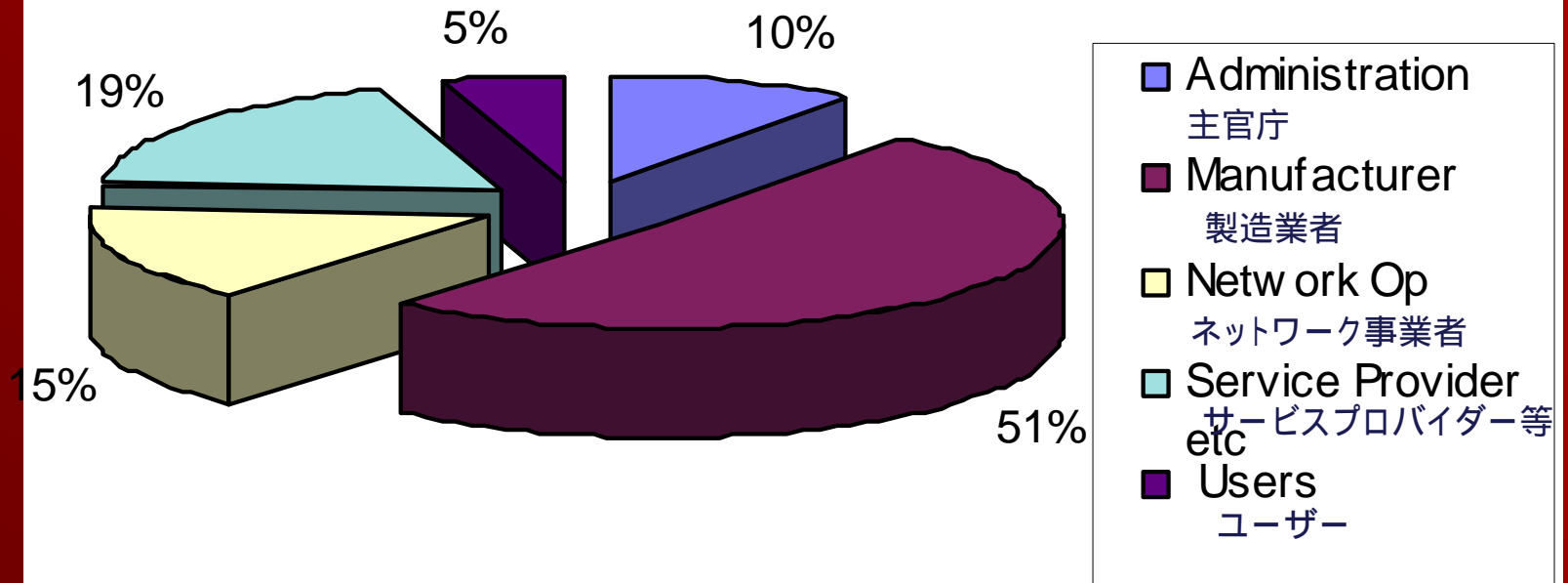


**637 Total from 56 countries**

*(April 2005)*



# ETSIのメンバー構成



合計56カ国、637メンバー

(April 2005)



# ETSI Deliverables

**ETSI Technical Specifications (TSs)**

**ETSI Technical Reports (TRs)**

**ETSI Standards (ESs)**

**ETSI Guides (EGs)**

**European Standards (Ens),**

- **Approved by National Delegations, through the National Standards Organizations (NSOs)**
- **Web-based voting tool**

**Fast to publish**

**Fast + approved by all members**

**Wide, formal acceptance**

# ETSI出版物

ETSI 技術仕様 (TSs)

ETSI 技術レポート (TRs)

ETSI 規格 (ESs)

ETSI ガイド (EGs)

欧州標準 (European

Standards: Ens), 各国の標準団体を通じて各国代表が承認。ウェブベースで投票。

Fast to  
publish

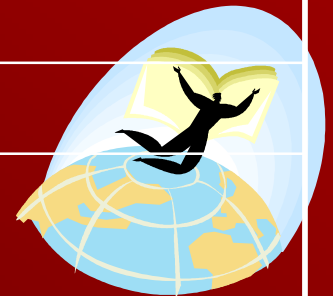
Fast +  
approved by  
all members

Wide, formal  
acceptance

# All ETSI deliverables

## Publications from ETSI start - March 2005

<b>Document type</b>	<b>14986 Published</b>	<b>320 Adopted awaiting publication</b>	<b>82 In process of adoption (after TB approval)</b>
EN*	3982		50
ES	334		28
EG	155		4
TS	8916	302	
TR	1560	18	
SR	39		



# ETSIの全出版物

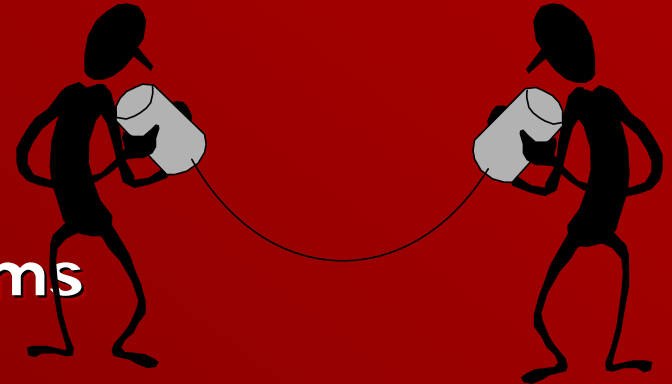
## 2005年3月以来のETSI出版物

文書の種類	14986件 出版物	320件 採択済み、 出版待ち	82 採択手続き中 (TB承認済み)
EN*	3982		50
ES	334		28
EG	155		4
TS	8916	302	
TR	1560	18	
SR	39		



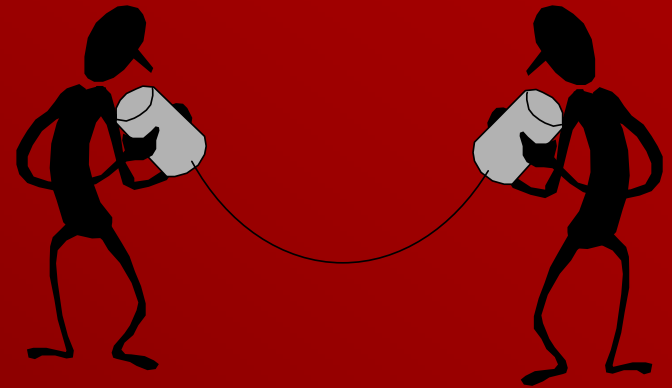
# ETSI's fixed network work includes...

- ◆ Plain Old Telephone Service (POTS)
- ◆ Fax, modems, etc
- ◆ Telecoms networks
- ◆ ADSL etc
- ◆ Cable distribution systems
- ◆ Exchange equipment
- ◆ Protocols
- ◆ Power line telecommunications
- ◆ Safety
- ◆ Speech recognition
- ◆ Testing
- ◆ SMS for fixed networks



# ETSIの固定網の作業

- ◆ 旧来の電話サービス (POTS)
- ◆ ファクス、モデム等
- ◆ 電気通信ネットワーク
- ◆ ADSL等
- ◆ ケーブル配信システム
- ◆ 交換設備
- ◆ プロトコル
- ◆ 電力搬送通信
- ◆ 安全性
- ◆ 音声認識
- ◆ 試験
- ◆ 固定網SMS



# ETSI's wireless work includes...

- ◆ **Mobile**
  - GSM, UMTS, Railway communications...
  - private/professional land mobile radio systems
- ◆ **Cordless (DECT)**
  - In the past, analogue cordless & paging
- ◆ **Spectrum matters & electromagnetic compatibility**
- ◆ **Wireless Local Area Networks**
- ◆ **TETRA & other public safety systems**
- ◆ **Broadcast**
- ◆ **Satellite communications**
- ◆ **Short range devices**
- ◆ **Aeronautical and marine radio**
- ◆ **Wireless medical devices**
- ◆ **Ultra wideband (UWB)**



# ETSIの無線作業

- ◆ モバイル
  - GSM, UMTS, 鉄道通信...
  - 個人/プロフェッショナル向け陸上移動無線システム
- ◆ コードレスホン(DECT)
  - 昔は、アナログコードレスホン及びページング
- ◆ 周波数問題及びEMC
- ◆ 無線LAN
- ◆ TETRA等の公衆安全システム
- ◆ 放送
- ◆ 衛星通信
- ◆ ショートレンジデバイス(SRD)
- ◆ 航空及び海上無線
- ◆ ワイヤレス医療機器
- ◆ UWB



# information...

ETSI web site: <http://www.etsi.org/>

- general public information concerning ETSI
- free standards download
- promotional aspects

ETSI portal: <portal.etsi.org>

- designed primarily for "standards practitioners"
- easy access to data for each technical body
- customized information retrieval for each technical body
- access to;
  - ◆ Working documents
  - ◆ ETSI applications and databases

ETSI Helpdesk: [helpdesk@etsi.org](mailto:helpdesk@etsi.org)

- For general enquiries about ETSI activities, deliverables & IT questions



# 情報...

ETSIウェブサイト: <http://www.etsi.org/>

- ETSIに関する一般公衆向け情報
- 無料の規格ダウンロード
- 広報資料

ETSIポータル: <portal.etsi.org>

- 主として「規格実務家」向け
- 各技術団体のデータへ容易にアクセス
- 各技術団体のカスタマイズした情報検索
- 以下の入手;
  - ◆ 作業文書
  - ◆ ETSIのアプリケーション及びデータベース

ETSIヘルプデスク: [helpdesk@etsi.org](mailto:helpdesk@etsi.org)

- ETSIの活動、出版物に関する一般的な問合せ及びIT関連の質問



# TRIS National Regulations Information System



- ◆ Directive 98/34/EC sets up a procedure which requires Member States to:
  - notify to the Commission & to MS all the draft technical regulations concerning products before they are adopted in national law.
- ◆ Procedure aims at
  - providing transparency and control;
  - Diminish risk of unjustified barriers between MS;

Draft regulation are published and can be evaluated.

**Further information: See documentation package**

# TRIS(国の技術規則情報システム)

## National Regulations Information System



- ◆ 指令98/34/ECは、  
加盟国に対し以下の手続きを制定：
    - ・ 技術規則が国の法律として採択される前に、製品に関するすべての技術規則案を欧州委員会及び加盟国へ通知すること
  - ◆ 手続きの狙い
    - ・ 透明性とコントロールの提供
    - ・ 加盟国間の不当な障壁リスクの削減
- 規則案が公表され、評価できる。

詳しくは:文書パッケージを参照

# NANDO



- ◆ **All Notified Body (CAB) data for All Directives and all Member states can be found on NANDO**

## **Nando (New Approach Notified and Designated Organisations) Information System**

**This site will enable you to find the European NB as well as third country bodies designated under formal agreements (MRAs), Protocols to the Europe Agreements on Conformity Assessment and Acceptance of Industrial Products (PECAs) and European Economic Area (EEA)] responsible for carrying out the conformity assessment procedures referred to in the applicable New Approach directives.**

# NANDO



- ◆ すべての指令及び加盟国のNotified Body (CAB)のデータは、NANDOで入手可能

**Nandoとは、 New Approach Notified and Designated Organisations Information System**

このサイトは、該当するニューアプローチ指令に定める適合性評価手続きを実施する責任のある欧州のNB、並びに正式な協定（MRA）、PECAs（Protocols to the Europe Agreements on Conformity Assessment and Acceptance of Industrial Products）と EEA（欧州経済地域）に基づき指定された第三国の機関を探ることができる。

# End of Presentation

Thank you for your attention



**Any QUESTIONS ??**

# プレゼンの終わり

ご静聴を感謝



ご質問は??