



Inter-sectoral collaboration, Standardization, and Membership

Brazilia, Brazil

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ITU-T Study Group 3 - Economic & Policy Issues -

A 3D illustration of several white, stylized human figures working together to assemble large puzzle pieces. The puzzle pieces are arranged in a grid, with some pieces being held by the figures. The background is a light blue gradient. A semi-transparent blue rectangular box is overlaid on the puzzle, containing text.

| *About ITU*

A few words about ITU and its
sectors of activity

The United Nations (UN) Agency for Information and Communication Technologies (ICTs)



**A unique global public/private partnership in a unique
consensus-based environment.**



193 Governments

Member State Administrations,
National Regulatory Authorities

700 Private Sector Members

Business associations
International organizations
NGOs

120 Academic Members

Universities
Research Institutes

ITU's 3 Sectors are committed to connecting the world

Radiocommunication

ITU-R

Allocate global radio spectrum and satellite orbits



“Committed to Connecting the World”

Development

ITU-D

Bridge the digital divide

Standardization

ITU-T

Establish international standards

You are here!



A 3D illustration of several grey humanoid figures working together to assemble a large puzzle. The puzzle pieces are blue and grey. A semi-transparent blue rectangular box is overlaid on the scene, containing text. The background is a light grey gradient.

| *About ITU-T*

Focus: Standardization
(ITU-T)



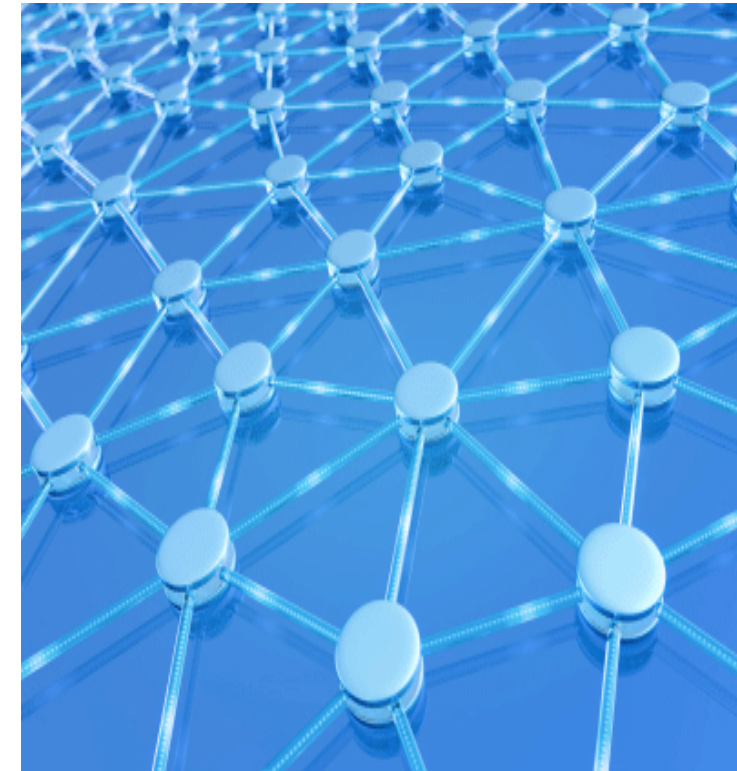
Crucial role in defining operation and interoperability of technologies that underpin global communications network

200 - 300 new global standards approved every year, with over 4,000 in use today

Standards enable global communications by ensuring ICT networks and devices speak the same language globally.

Study Groups and Standardization at ITU-T

- The standardization work of the ITU is organized by **Study Groups (SGs)**, which act as “building blocks” of the standardization process
- Each study group (or SG) has its own area of responsibility, leadership, and authority to initiate, develop and propose ITU-T Recommendations and other deliverables.
- Members of the ITU-T Study Groups develop **Recommendations** (i.e. standards) for the various fields of international telecommunications, in a spirit of consensus.





- **SG2 Operational aspects**
- **SG3 Economic and policy issues**
- **SG5 Environment and climate change**
- **SG9 Broadband cable and TV**
- **SG11 Protocols and test specifications**
- **SG12 Performance, QoS and QoE**
- **SG13 Future networks (incl. cloud)**
- **SG15 Transport and access**
- **SG16 Multimedia**
- **SG17 Security**
- **SG20 IoT & Smart Cities**

ITU-T's regional groups are vital to global decision-making



ITU-T SG regional groups:

- ✓ 5 in Africa
- ✓ 3 in the Americas
- ✓ 3 in Arab states
- ✓ 2 in Asia-Pacific

Subjects being studied in the regions include:

- ✓ mobile roaming
- ✓ future networks
- ✓ e-waste management
- ✓ quality of service
- ✓ best practices in standardization

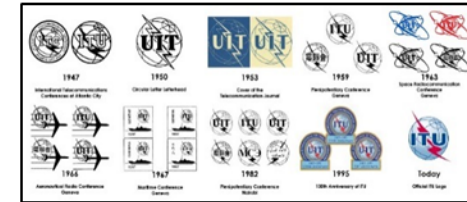


| *ITU-T SG3*

What is ITU-T SG3?

ITU's long history and solid mandate in this area

- ITU's work on tariffs and interconnection dates back to the origins of the ITU and as such, it can be said that it is part of the very DNA of the organization.
- On tariff issues, **ITU-T Study Group 3** is the successor of *Committees of Rapporteurs* (later renamed study groups) dating back to **1928** , and has a long-standing mandate on economic and policy issues.



Assembly	Study Group	Name of Study Group
1926	6e Commission de Rapporteurs 7e Commission de Rapporteurs	Exploitation Trafic et exploitation
1927	6e Commission de Rapporteurs	Trafic et exploitation
1928- 1954	7e Commission de Rapporteurs	Tarification / Tarification téléphonique

Today's SG3 has 3 Working Parties

Working Party 1:

Chairman: Leslie Martinkovics (Verizon Communications, USA)

Question 1/3: Development of charging and accounting/settlement mechanisms for international telecomms services using the Next Generation Networks (NGNs), future networks and any possible future development, including adaptation of existing D-series Recommendations to the evolving user needs.

Question 6/3: International internet connectivity, incl. relevant aspects of IP peering, regional traffic exchange points, cost of provision of services and impact of transition from IPv4 to IPv6

Working Party 2:

Chairman: Alexander Yakovenko (Rostelecom, Russian Federation)

Question 2/3: Development of charging and accounting/settlement mechanisms for international telecomms services, other than those studied in Q1/3, including adaptation of existing D-series Recommendations to the evolving user needs.

Question 7/3: International Mobile Roaming issues (including charging, accounting and settlement mechanisms and roaming at border areas)

Working Parties of SG3 (cont'd)

Working Party 3:

Chairman: Raynold Mfungahema (Tanzania)

Question 3/3: Study of economic and policy factors relevant to the efficient provision of international telecommunication services.

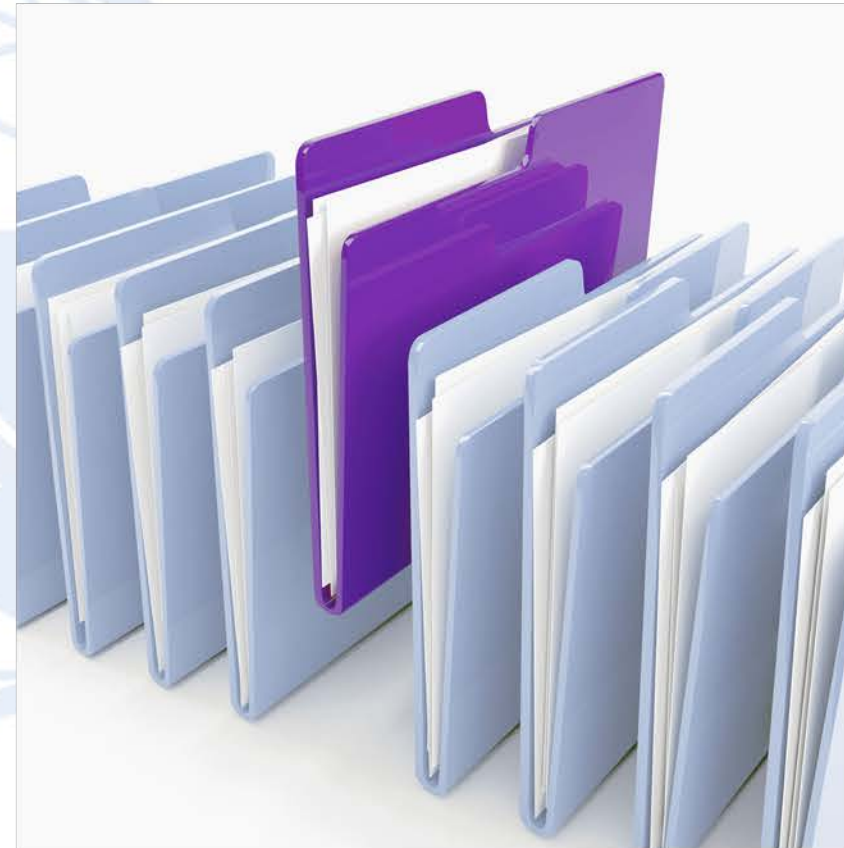
Question 8/3: Alternative Calling Procedures and Misappropriation and Misuse of facilities and services including CLI, CPND and OI

Question 9/3: Economic and regulatory impact of the Internet, convergence (services or infrastructure) and new services, such as OTT, on international telecommunication services and networks.

Question 10/3: Definition of relevant markets, competition policy and identification of operators with SMP as it relates to the economic aspects of the international telecommunication services and networks

Key Topics by Working Party

- WP 1: International internet connectivity, and economic impact of transition from IPv4 to IPv6
- WP 1: Universal Service
- WP 1: NGN Charging
- WP 2: International roaming
- WP 2: Mobile Financial Services
- WP 2: Dispute resolution
- WP 2: Commercial Agreements
- WP 3: Alternative Calling Procedures
- WP 3: Economic impact of OTTs
- WP 3: Competition Policy and SMP
- WP 3: Governance



A longstanding collaboration between the 2 sectors of the ITU

In its work, Study Group 3 is strongly supported by the mandate that the BDT (ITU-D) has in the area of tariffs and economic issues (WTDC Objective 2)

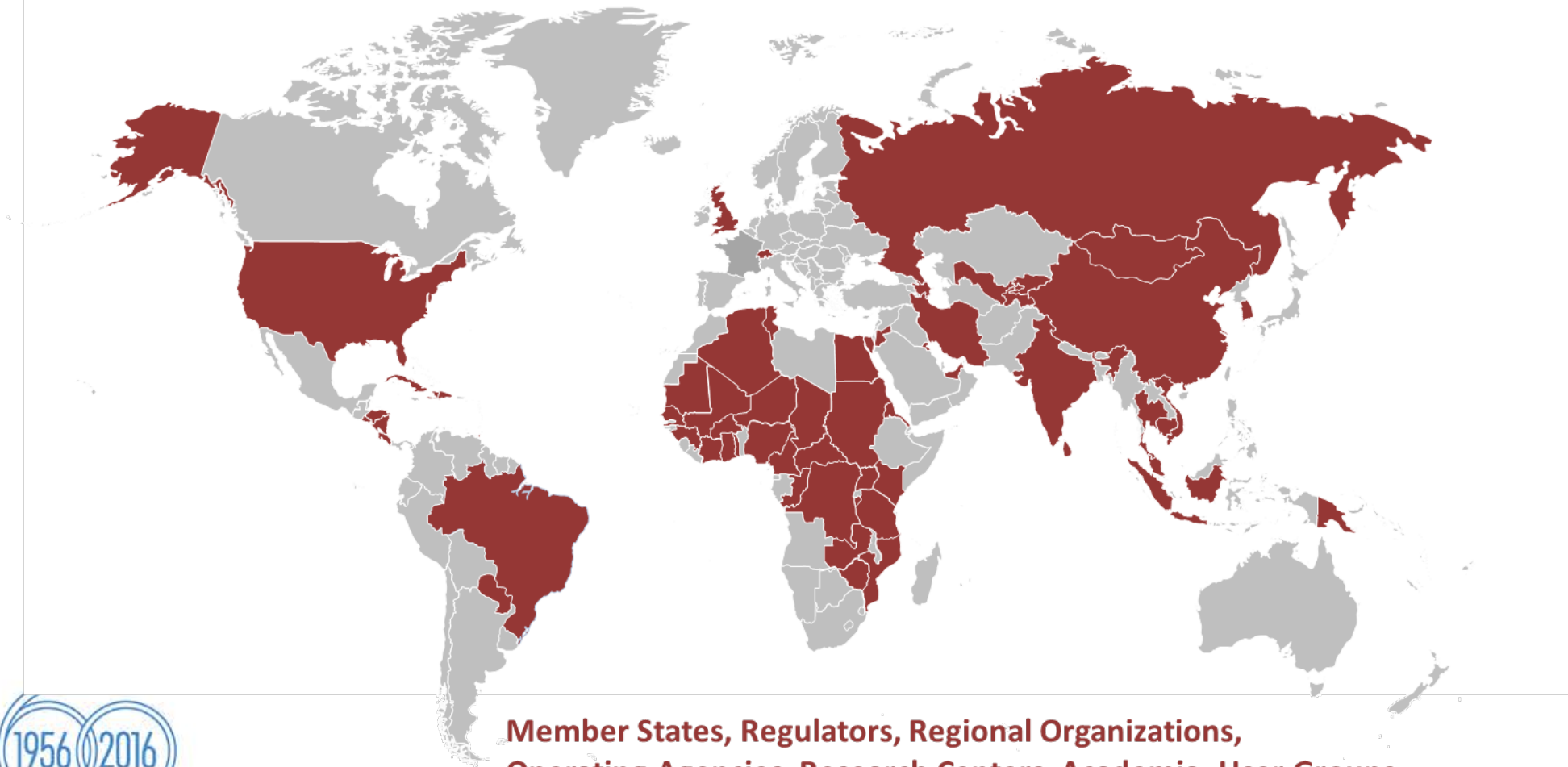


A longstanding collaboration between the 2 sectors of the ITU

- Our collaboration on the subject dates to 1998 (4PPs)!
- Typically, regional group meetings and Forums are held back to back:
ITU-T Regional Study Group 3 (2 days) + ITU-D Regional, Economic & Financial Forum (1-2 days)
- BDT's active participation and invaluable assistance is provided to SG3's 4 world regions every year, plus the parent group meeting every 9 months in Geneva
- These joint activities are one of the only platforms in which international ICT economic and regulatory issues are discussed and best practices exchanged.

Last SG3 Meeting: A Truly Global and Diverse Forum

Written contributions submitted by **76** distinct members



Member States, Regulators, Regional Organizations,
Operating Agencies, Research Centers, Academia, User Groups

Last SG3 Meeting: Recommendations Determined

New

Revised

ITU-T D.52

“Establishing and connecting regional Internet Exchange Points (IXPs) to reduce costs of international Internet connectivity” will guide regional collaboration to establish central hubs (IXPs) that enable local Internet traffic to be routed locally, saving international bandwidth and reducing the costs of international Internet connectivity.

ITU-T D.53

“International aspects of Universal Service” offers guidelines to increase compliance with Universal Service policies as well as the extent to which they achieve their goal of delivering a minimum level of ICT services to every inhabitant of a country.

ITU-T D.97

“Methodological principles for determining international mobile roaming rates” proposes a possible approach to the reduction of excessive roaming rates, highlighting the need to encourage competition in the roaming market, educate consumers and consider appropriate regulatory actions such as the introduction of caps on roaming rates.

Last SG3 Meeting: Determined

New

Revised

ITU-T D.261

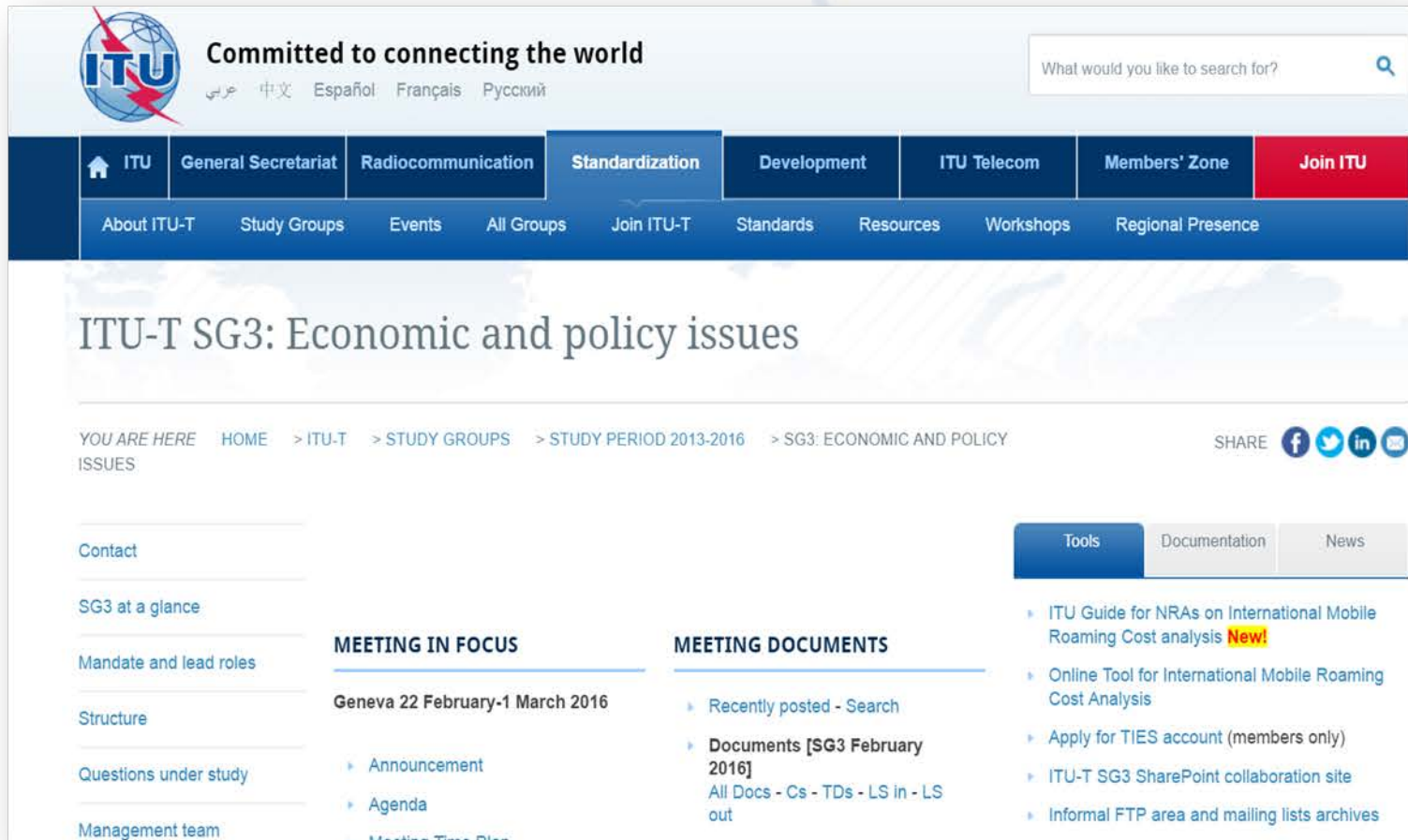
“Principles for market definition and identification of operators with significant market power”

proposes principles and guidelines to assist countries in defining and identifying significant market power and assess whether or not, and the degree to which, this power has been abused by international telecommunications companies.

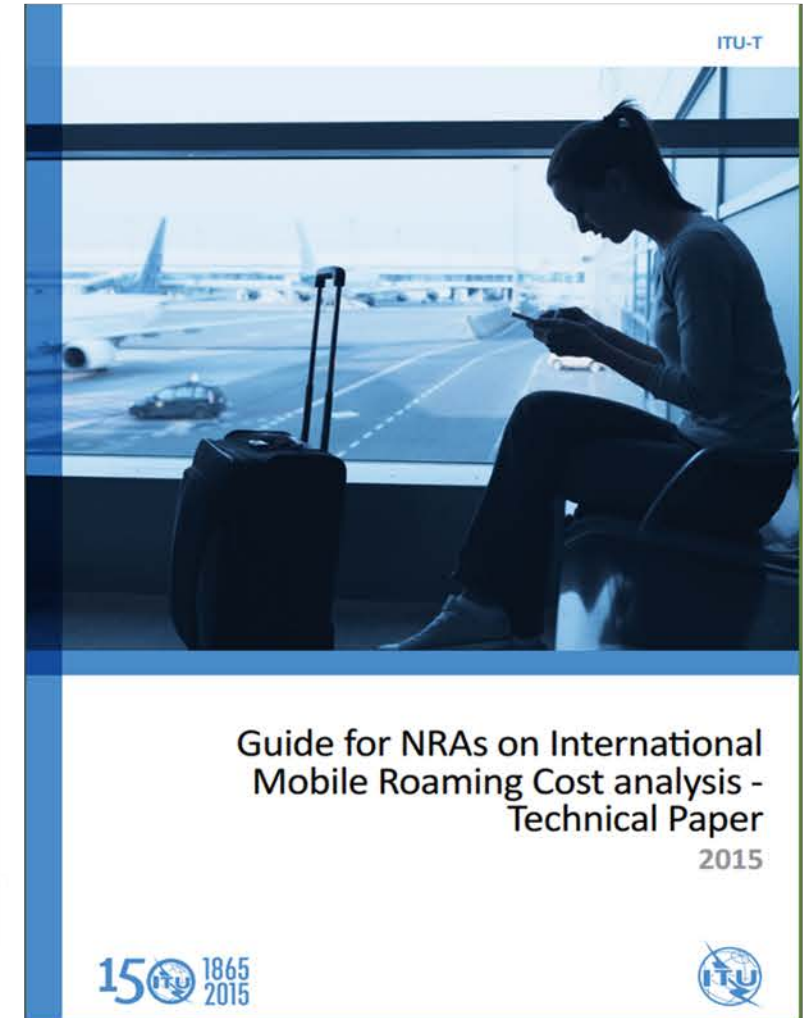
ITU-T D.271

“Charging and accounting principles for Next-Generation Network (NGN)” sets out the general principles and conditions applicable to the use of packet-based networks to transport packets between standards-based interfaces and the services that they support.

International Mobile Roaming



The screenshot shows the ITU-T SG3 website. At the top left is the ITU logo with the tagline "Committed to connecting the world" and the slogan in Arabic, Chinese, Spanish, French, and Russian. A search bar is located at the top right. Below the header is a navigation menu with categories: ITU, General Secretariat, Radiocommunication, Standardization, Development, ITU Telecom, Members' Zone, and Join ITU. A secondary menu lists: About ITU-T, Study Groups, Events, All Groups, Join ITU-T, Standards, Resources, Workshops, and Regional Presence. The main heading is "ITU-T SG3: Economic and policy issues". Below this is a breadcrumb trail: "YOU ARE HERE HOME > ITU-T > STUDY GROUPS > STUDY PERIOD 2013-2016 > SG3: ECONOMIC AND POLICY ISSUES". There are social media share icons for Facebook, Twitter, LinkedIn, and Email. On the left side, there are links for "Contact", "SG3 at a glance", "Mandate and lead roles", "Structure", "Questions under study", and "Management team". The main content area is divided into three sections: "MEETING IN FOCUS" (Geneva 22 February-1 March 2016) with links for "Announcement", "Agenda", and "Meeting Time Plan"; "MEETING DOCUMENTS" with links for "Recently posted - Search" and "Documents [SG3 February 2016] All Docs - Cs - TDs - LS in - LS out"; and "Tools" with links for "ITU Guide for NRAs on International Mobile Roaming Cost analysis New!", "Online Tool for International Mobile Roaming Cost Analysis", "Apply for TIES account (members only)", "ITU-T SG3 SharePoint collaboration site", and "Informal FTP area and mailing lists archives".



The image shows the cover of a technical paper. At the top right is the ITU-T logo. The main image is a silhouette of a person sitting on a suitcase in an airport, looking at a smartphone. The background shows an airport tarmac with planes. Below the image, the title "Guide for NRAs on International Mobile Roaming Cost analysis - Technical Paper" is displayed in a large, bold font, with the year "2015" below it. At the bottom left is the "150 1865 2015" logo, and at the bottom right is the ITU logo.



| *Who participates?*

Membership and participation



Global and Diverse Membership

- Member States – Administrations
- Regulators
- Private sector companies,
*e.g. operators, service providers,
equipment manufacturers, consultancies,
etc.*
- Regional organizations
- International organizations
- NGOs
- Research centers
- Academic institutions
- User groups
- ...



Membership rights and privileges

- ✓ **Participate in meetings:** take part in ITU-T Study Groups and expert groups, seminars, workshops
- ✓ **Influence standards in the making:** submit proposals and comments throughout the consensus building process that leads to the production of ITU-T standards
- ✓ **Take on leadership roles:** hold management positions in Study Groups and drive the standardization work
- ✓ **Access restricted information:** Sign up for a free ITU account (TIES) and get access to a large volume of information and documents such as draft ITU-T Recommendations, meetings' reports, databases, training modules, etc.
- ✓ **Receive invitations and updates:** get notified about latest ITU-T activities (approval of new standards, new work items and working groups, call for papers, latest publications) and receive invitations with related documentation to ITU-T events

Joining us from the Private sector or Academia

Membership is per Sector (ITU-T/ITU-R/ITU-D). For ITU-T:

✓ Sector Member (All study groups)

- Get access to the full range of ITU-T meetings and activities
- Influence the development of standards from the beginning to the end

31,800 CHF per year

3,975 CHF per year for low income countries

✓ Associate (One study group)

- Focus your resources on a specific ICT topic
- Participate in one chosen Study Group at a reduced price

10,600 CHF per year

✓ Academia (One fee for access to all 3 sectors)

- Get access to the full range of ITU meetings and activities of all three Sectors
- Decided at ITU PP-2014 and with implementation in 2015

~ 3'975 CHF per year

(1'987 CHF for low-income countries)





Thank you

**Have an enjoyable
and
successful week!**

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CCITT / ITU-T