Catalogue of ITU publications

Dear Customer,

Thank you for your trust in ITU publications and for continuing to support our work as a leading international publisher of information and communication technology (ICT) reports and data.

Since our founding some 150 years ago, ITU has been at the very heart of ICT information dissemination. Today, our range of publications and global customer base continues to grow strongly, and we appreciate your contribution to our continuing success.

ITU has a range of products that make us unique in the publishing world. In this catalogue, you’ll find titles on topics ranging from spectrum management and satellite communications to ICT statistics and policy and development reports. So whether you’re a broadcast engineer, an ICT regulator, a computer systems specialist, a telecoms professional, a business analyst or a student of ICTs, you’re sure to find something of interest. As ITU’s activities broaden to reflect the increasing pervasiveness of digital technologies in just about every business sector, you’ll also find new titles on topics such as cybersecurity, e-health, using ICTs to combat climate change, the effective deployment of ICTs in emergency communications, next-generation technical standards, and much more.

Most ITU publications are now available in electronic format (and some in both electronic and hard copy formats), and can be purchased and downloaded directly from the ITU BOOKSHOP. If you prefer a print or CD-ROM publication, you can order these online, or use the order form included in this catalogue.

ITU publishes in all six official UN languages – Arabic, Chinese, English, French, Russian and Spanish – and many (though not all) titles are available in multilingual versions. This catalogue also contains useful information on pricing discounts, methods of payment and related conditions of sale, as well as a list of whom to contact should you need additional support.

Stay abreast of ITU publications at www.itu.int/publications – our pages are updated regularly, with information on new publications posted as soon as they become available. You can also connect to the weekly update of this catalogue at www.itu.int/pub/S-GEN-CAT.OL-2019/en

As always, we welcome your feedback and comments – just drop us a line at sales@itu.int
Collection of the Basic Texts of the International Telecommunication Union
adopted by the Plenipotentiary Conference

2003

A reference document containing: a) the Constitution and the Convention as amended by plenipotentiary conferences; b) General Rules of Conferences, Assemblies and Meetings of the Union; c) the full text of the Optional Protocol on the compulsory settlement of disputes relating to the Constitution, the Convention and the Administrative Regulations; d) the full text of all decisions, resolutions and recommendations in force; e) a list of abrogated decisions, resolutions and recommendations.

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Separate editions:
Languages available:
E=English
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R=Russian
S=Spanish
A=Arabic

Multilingual edition

Article number by language

Price in Swiss francs (CHF)

Media:
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CD-ROM/DVD-ROM
USB KEY
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ONLINE BOOKSHOP
ONLINE (Yearly Subscription Service)

* Yearly subscription or one-time download
About ITU

Overview

ITU is the United Nations specialized agency for information and communication technologies – ICTs.

We allocate global radio spectrum and satellite orbits, develop the technical standards that ensure networks and technologies seamlessly interconnect, and strive to improve access to ICTs to underserved communities worldwide.

ITU is committed to connecting all the world’s people – wherever they live and whatever their means. Through our work, we protect and support everyone’s fundamental right to communicate.

Today, ICTs underpin everything we do. They help manage and control emergency services, water supplies, power networks and food distribution chains. They support health care, education, government services, financial markets, transportation systems, e-commerce platforms and environmental management. And they allow people to communicate with colleagues, friends and family anytime, and almost anywhere.

With the help of our global membership, ITU brings the benefits of modern communication technologies to people everywhere in an efficient, safe, easy and affordable manner.

ITU membership reads like a Who’s Who of the ICT sector. We’re unique among UN agencies in having both public and private sector membership. So in addition to our 193 Member States, ITU membership includes ICT regulators, many leading academic institutions worldwide, and some 700 tech companies.

In an increasingly interconnected world, ITU is the single global organization embracing all players in this dynamic and fast-growing sector.
Our vision

Committed to connecting the world

Virtually every facet of modern life – in business, culture or entertainment, at work and at home – depends on information and communication technologies (ICTs).

The global international telecommunications network is the largest and most sophisticated engineering feat ever created. You use it every time you log on to the web, send an e-mail or SMS, consult online navigation systems, listen to the radio, watch television, order something online, travel by plane or ship – and of course every time you use a mobile phone, smartphone or tablet computer.

Today, there are over seven billion mobile phone subscribers, well over 1.4 billion households with access to television, and tens of millions of new Internet users every year. Hundreds of millions of people around the world use satellite services – whether getting directions from a satellite navigation system, checking the weather forecast or watching TV or surfing the Net from isolated areas. Millions more use ITU video compression standards every day via their mobile phones, music players and cameras.

ITU is at the very heart of the ICT sector, brokering agreement on technologies, services, and allocation of global resources like radio-frequency spectrum and satellite orbital frequencies, to create a seamless global communications system that’s robust, reliable, and constantly evolving.

- ITU makes phone calls possible: whether to the office next door or to a friend or colleague in another country. ITU technical standards, protocols and international agreements are the essential elements underpinning the global telecommunication system.
- ITU coordinates the world’s satellites through the management of spectrum and orbital frequencies, bringing you television, vehicle GPS navigation, maritime and aeronautical communications, weather information and online maps, and enabling communications in even the most remote parts of the planet.
- ITU makes Internet access possible. Behind the scenes, through optical transport and broadband access networks, the vast majority of Internet connections are facilitated by ITU standards.
- ITU helps support communications in the wake of disasters and emergencies – through on-the-ground assistance, dedicated emergency communications channels, technical standards for early warning systems, and practical help in rebuilding after a catastrophe.
- ITU works with the industry to define the new technologies that will support tomorrow’s networks and services.
- ITU powers the mobile revolution, forging the technical standards and policy frameworks that make mobile and broadband possible.
- ITU works with public and private sector partners to ensure that ICT access and services are affordable, equitable and universal.
- ITU empowers people around the world through technology education and training, and engages with members from academia to build networks and tap the power of tomorrow’s innovators.
General Secretariat

The mission of the ITU General Secretariat is to provide high-quality and efficient services to the membership of the Union. The General Secretariat manages the administrative and financial aspects of the Union’s activities, including the provision of conference services, planning and organization of major meetings, information services, security, strategic planning, and corporate functions such as communications, legal advice, finance, personnel, procurement, and internal audit.

The General Secretariat is the unit responsible for ongoing management of the activities around the World Summit on the Information Society (WSIS) process, including the annual WSIS Forum, and also manages activities in support of ITU Council and 4-yearly Plenipotentiary Conferences.

Radiocommunication

Satellites enable phone calls, television and radio programmes, navigation and online maps. Space services are vital in monitoring and transmitting changes in such data as ocean temperature, vegetation patterns and greenhouse gases – helping us predict famines, the path of a hurricane, or how the global climate is changing. The explosive growth of wireless communications, and particularly wireless broadband, demonstrates the need for global solutions to address the need for additional radio spectrum allocations and harmonized standards to improve interoperability.

ITU’s Radiocommunication Sector (ITU-R) coordinates this vast and growing range of radiocommunication services, as well as the international management of the radiofrequency spectrum and satellite orbital frequencies. An increasing number of players need to make use of these limited resources, and participating in ITU-R conferences and study group activities – where important work is done on mobile broadband communications and broadcasting technologies such as Ultra HDTV and 3D TV – is becoming an ever-higher priority for both governments and industry players.

Standardization

ITU standards (called Recommendations) are fundamental to the operation of today’s ICT networks. For Internet access, transport protocols, voice and video compression, home networking and myriad other aspects of ICTs, hundreds of ITU standards allow systems to work and interoperate – locally and globally. For instance, the Emmy award-winning standard ITU-T H.264 and new gold standard H.265 are the world’s most popular standards for video compression. In a typical year ITU will produce or revise upwards of 150 standards covering everything from core network functionality to next-generation services such as IPTV.

If your product or service requires any kind of international buy-in, you need to be part of the standardization discussions in ITU’s Telecommunication Standardization Sector (ITU-T).

Development

ITU’s Telecommunication Development Sector (ITU-D) has a programme to offer you – whether you are interested in entering or expanding your presence in emerging markets, demonstrating global ICT leadership, learning how to put good policy into practice, or pursuing your mandate for corporate social responsibility. In an increasingly networked world, expanding access to ICTs globally is in everybody’s interest. ITU champions a number of major initiatives which encompass ITU’s internationally-accorded mandate to promote digital inclusion and bridge the digital divide. ITU also regularly publishes the industry’s most comprehensive and reliable ICT statistics, and an annual overview of global regulatory trends in this fast-evolving sector.
Why be a part of ITU?

The ICT industry is undergoing rapid change. **Strategic cooperation and understanding between all stakeholders** is vital when decisions can have huge political, social and financial consequences.

ITU offers a unique, neutral, global platform to come together and:

- **share ideas** and knowledge, and exchange best practice
- **agree on global technical standards** in a consensus-based, transparent and fair environment
- **engage directly** with governments, regulators and industry leaders
- establish fruitful **partnerships**
- exert **direct influence** in shaping your industry and the future
- ensure that your **products** are safe, reliable, globally compatible and future-proof
- benefit from the world’s most comprehensive, reliable **ICT statistics**
- gain access to top-level **ICT publications**
- profit from the **support** of highly-educated, international and multilingual staff
- plug into **local knowledge** through ITU’s regional and area offices.

**While continuing to address the needs of established players, ITU also recognizes and fulfils the needs of new market entrants.**
Global meeting place

ITU regularly hosts global and regional events and workshops that are open to members and sometimes also to non-members. Considered by many to be the global gathering place for the ICT sector, ITU is famous for events like ITU Telecom World, which brings together the most influential representatives of government and industry to exchange ideas and knowledge for the benefit of all. A strong new focus on small and medium enterprises is now making ITU Telecom a key platform for helping countries develop and nurture new local, regional and international business opportunities.

By connecting the world and fulfilling everyone’s fundamental right to communicate, we strive to make the world a better and safer place.

Developing skills and knowledge

‘Connecting the unconnected’ is not just a question of putting infrastructure in place. Networks have to be supported by effective regulatory strategies and policies and an understanding of future trends: technical, social and economic. ITU brings partners together to discuss these issues, share insights and best practice, and lay the groundwork for long-term industry growth. ITU publishes regular reports highlighting important developments and also has its own ITU Academy programme which trains technicians, regulators, administrators and local communities in how best to harness the power of ICTs.
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### United Nations Activities on Artificial Intelligence (AI)

**2019**

A joint-effort between ITU and over 35 other UN agencies and bodies, and all partners of 2019’s AI for Good Global Summit, this report provides information about the diverse and innovative activities related to artificial intelligence (AI) across the UN system to meet many of our world’s increasingly urgent challenges, from responding to humanitarian crises to tackling climate change. Free of charge.

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### United Nations Activities on Artificial Intelligence (AI)

**2019**

A joint-effort between ITU and 32 UN agencies and bodies, all partners of 2018’s AI for Good Global Summit, this report provides information about the diverse and innovative activities related to artificial intelligence (AI) across the UN system. It outlines how AI is being used to fight hunger, mitigate climate change, or advance health for all and we see how UN agencies experiment with AI to improve response to disease outbreaks, monitor energy use in real-time, and facilitate the transition to smart sustainable cities.

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### ITU: Committed to connecting the world

**2011**

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Moby and the story of the telephone
2009

This book tells the story of the telephone and its technology, from ancient times to the present day. It explains the basic physical principles in simple terms, and is intended for anyone of high-school age or older curious to understand how this everyday object works.... A mobile phone belonging to one of the sales staff gets locked up in the shop, giving it the perfect opportunity to tell the latest batch of phones their own STORY - the history of the telephone!

Cybersecurity for All: ITU’s Work for a Safer World
2008

This publication explains ITU’s role in cybersecurity. ITU’s Standardization Sector (ITU-T) holds a unique position in the field of standardization: its work brings together the private sector and governments to coordinate work and promote the harmonization of security policy and security standards on an international scale. Standardization can help guarantee established levels of performance and security in technologies, systems and products and help provide businesses with a systematic approach to information security. Manufacturers and service providers can be sure that their concerns have been reviewed in consultation with leading experts in the field in reaching the standard approach or processes needed to achieve minimum levels of performance. As well as many key security Recommendations, ITU has developed overview security requirements, security guidelines for protocol authors, guidance on how to identify cyberthreats and countermeasures to mitigate risks. ITU’s work on security covers a broad range of activities in security from network attacks, theft or denial of service, theft of identity, eavesdropping, tele-biometrics for authentication, security for emergency telecommunications and telecomunication network security requirements.

1865 Paris: The Birth of the Union
2015

On 17 May 1865, after two-and-a-half months of negotiations, the first real International Telegraph Convention was signed in Paris by its 20 founding members, thus creating the International Telegraph Union (predecessor of ITU). This first international convention provided a framework to standardize telegraphy equipment, set uniform operating instructions and laid down common international tariff and accounting rules. This publication describes the environment that led to the founding of ITU in 1865 and provides a fascinating look at the world of communications technologies 150 years ago and how many of the challenges that led to its creation remain today.
ICT4SDG - Fast-forward progress - Leveraging tech to achieve the global goals
2017

See more on ICTs for a Sustainable World from this link

ICT4SDG - Fast-forward progress - Leveraging tech to achieve the global goals
2017

This publication contributes to a better understanding of the extent to which ICTs can enable and accelerate the social and economic inclusion of persons with disabilities. It lists challenges that are still to be addressed while outlining concrete actions to be undertaken by each group of stakeholders and a set of indicators to help measure progress towards the achievement of a disability-inclusive post-2015 development agenda and framework. The report is the result of collaborative input from the UN Broadband Commission for Digital Development, the Global Initiative for Inclusive ICTs, the International Disability Alliance, ITU, Microsoft, the Telecentre.org Foundation and UNESCO. For more information, please visit www.itu.int/accessibility.

The ICT Opportunity for a Disability-Inclusive Development Framework
2013

This book addresses the increasingly daunting task of building confidence in the use of cyber platforms and technologies against a backdrop of recent high-profile security breach incidents and a plethora of emerging threats that have shaken trust in these essential tools of our time. It follows publication of The Quest for Cyber Peace in 2009, which focuses on the promotion of cyber peace in a sphere which has generated tremendous benefits and progress to mankind, but also spawned widespread criminal activities and created new avenues for intelligence gathering, industrial espionage, and conflict. Necessarily, this volume returns to these issues revolving around the overriding theme of the use of the cyber domain as a potent force for either good or evil, especially the impact of the ?dark? Internet on trust in the cyber dimension. Here, however, its central theme promotes the concept of cyber confidence.

The Quest for Cyber Confidence
2014

This book addresses the increasingly daunting task of building confidence in the use of cyber platforms and technologies against a backdrop of recent high-profile security breach incidents and a plethora of emerging threats that have shaken trust in these essential tools of our time. It follows publication of The Quest for Cyber Peace in 2009, which focuses on the promotion of cyber peace in a sphere which has generated tremendous benefits and progress to mankind, but also spawned widespread criminal activities and created new avenues for intelligence gathering, industrial espionage, and conflict. Necessarily, this volume returns to these issues revolving around the overriding theme of the use of the cyber domain as a potent force for either good or evil, especially the impact of the ?dark? Internet on trust in the cyber dimension. Here, however, its central theme promotes the concept of cyber confidence.
## 1.2 Conference Publications

### Final Acts of the Plenipotentiary Conference 2018

Decisions, Resolutions and Recommendations abrogated, adopted or revised by the Plenipotentiary Conference (Dubai, 2018). The Constitution and the Convention have not been amended by the Plenipotentiary Conference (Dubai, 2018).

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### Final Acts of the Plenipotentiary Conference Busan, 2014

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### Final Acts of the Plenipotentiary Conference Guadalajara, 2010

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**Note:** The images and media prices have been omitted for clarity. The table entries include the media format (E for English, F for French, S for Spanish, A for Arabic, C for Chinese, and R for Russian), price, language, article number, ISBN, and number of pages.
### Final Acts of the Plenipotentiary Conference

**Antalya, 2006**

Instruments amending the Constitution and the Convention of the International Telecommunication Union (Geneva, 1992) as amended by the Plenipotentiary Conference (Kyoto, 1994), the Plenipotentiary Conference (Minneapolis, 1998) and the Plenipotentiary Conference (Marrakesh, 2002).

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### Final Acts of the Plenipotentiary Conference

**Marrakesh, 2002**

Instruments amending the Constitution and the Convention of the International Telecommunication Union (Geneva, 1992) as amended by the Plenipotentiary Conference (Kyoto, 1994) and the Plenipotentiary Conference (Minneapolis, 1998).

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## Final Acts of the Plenipotentiary Conference

**Minneapolis, 1998**

Instruments Amending the Constitution and the Convention of the International Telecommunication Union (Geneva, 1992) as amended by the Plenipotentiary Conference (Kyoto, 1994).

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## Final Acts of the Plenipotentiary Conference

**Kyoto, 1994**

This includes the instruments amending both the Constitution and Convention of the ITU (Geneva, 1992), Signatures, Declarations and Reservations, and Decisions, Resolutions and Recommendations. Is also available on diskette for 30 CHF (article number 5408).

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## Final Acts of the Additional Plenipotentiary Conference (APP-92)

**Geneva, 1992**

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The International Telecommunication Regulations (ITRs) will serve as the binding global treaty designed to facilitate international interconnection and interoperability of information and communication services, as well as ensuring their efficiency and widespread public usefulness and availability. The treaty sets out general principles for assuring the free flow of information around the world, promoting affordable and equitable access for all and laying the foundation for ongoing innovation and market growth.

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This publication contains the complete text of the Council's Resolutions and Decisions. It also contains three appendices (numerical list of all Resolutions adopted by the Council since its creation, numerical list of all Decisions adopted by the Council since its creation and an analytical table).

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### Final Acts of the World Conference on International Telecommunications (WCIT-12)

Dubai, 2012

Resolutions and Decisions of the Council of the International Telecommunication Union

2019

This publication contains the complete text of the Council's Resolutions and Decisions. It also contains three appendices (numerical list of all Resolutions adopted by the Council since its creation, numerical list of all Decisions adopted by the Council since its creation and an analytical table).
### Resolutions and Decisions of the Council of the International Telecommunication Union

**2018**

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### Resolutions and Decisions of the Council of the International Telecommunication Union

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### Resolutions and Decisions of the Council of the International Telecommunication Union

**2016**

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Collection of the Basic Texts of the International Telecommunication Union adopted by the Plenipotentiary Conference

2019

A reference document containing: a) the Constitution and the Convention as amended by plenipotentiary conferences; b) General Rules of Conferences, Assemblies and Meetings of the Union; c) the full text of the Optional Protocol on the compulsory settlement of disputes relating to the Constitution, the Convention and the Administrative Regulations; d) the full text of all decisions, resolutions and recommendations in force; e) a list of abrogated decisions, resolutions and recommendations. Free online access to the electronic versions in all languages is now provided to the general public.

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1.3 Policy and Market Analysis

**Publications under ITU New Initiatives Programme**

**The ITU New Initiatives Programme: Regulatory Environment for Future Mobile Multimedia Services**
2006

The mobile communications field continues to grow rapidly, as more and more 3G/IMT-2000 networks are deployed. The increasingly intimate nature of the mobile phone and its use as a key platform for content delivery raises important regulatory concerns. Convergence between the broadcasting and telecommunication industries is cited as one of the key challenges that both regulators and industry will have to face in the coming years. The research presented in this publication made up the background materials for discussion at the ITU New Initiatives Programme Workshop on ‘The Regulatory Environment for Future Mobile Multimedia Services’ held in Mainz, Germany, from 21 to 23 June 2006, jointly hosted by ITU and the Federal Network Agency of Germany.

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**The ITU New Initiatives Programme: Ubiquitous Network Societies**
2005

This publication summarizes the materials and conclusion of a workshop held by ITU from 6 to 8 April 2005, organized by the Strategy and Policy Unit (SPU). This workshop served as a forum for policy-makers, regulators, mobile operators, content providers, industry players, consultants, academics and sociologists to exchange information, experiences and visions relating to future ubiquitous network societies. Topics covered include the impact of ubiquitous technologies on the traditional telecommunication industry, the role and application of RFID, privacy and public policy issues. Country case studies on Italy, Japan, Korea and Singapore are also featured.

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**The ITU New Initiatives Programme: Shaping the Future Mobile Information Society**
2004

This publication contains the materials and conclusions of a recent ITU workshop on Shaping the Future Mobile Information Society held in Seoul, Republic of Korea, with the generous support and collaboration of the Korean Ministry of Information and Communications (MIC), and the International Cooperation Agency for Korea IT. Topics covered included social and human considerations for a more mobile world, broadband mobile communications towards a converged world, and mobile phones and youth.

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The ITU New Initiatives Programme: Internet Governance

This publication contains the materials and conclusions of a recent ITU workshop on the topic of Internet Governance, including background papers, workshop presentations and outputs. The workshop’s objective was to contribute to the ITU process that will prepare its inputs and position vis-à-vis the United Nations working group to be established on Internet governance, resulting from the Declaration of Principles and Plan of Action adopted on 12 December 2003 at the first phase of the World Summit on the Information Society.

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The ITU New Initiatives Programme: Radio Spectrum Management for a Converging World

This publication contains the materials and conclusions of a recent ITU workshop organized jointly between the Strategy and Policy Unit (SPU) and the Radiocommunication Bureau (BR). This workshop served as a forum for policy-makers and regulators, wireless user groups, experts and industry players involved in spectrum management. Issues related to the unlicensed portions of the radio spectrum and experiences of individual countries are also included in the publication.

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Shaping Tomorrow’s Networks

Market Mechanisms for Spectrum Management

This brochure summarizes the results of a workshop on Market Mechanisms for Spectrum Management held in Geneva, Switzerland, from 22 to 23 January 2007. It was prepared by the Strategy and Policy Unit (SPU) on the basis of specially prepared background papers, case studies, input documents and contributions to the workshop. The enclosed CD-ROM contains the background materials and documents of the workshop, as well as a wide range of background resources related to spectrum management.

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Tomorrow's Networks Today

2005

“This report aims to highlight the most important issues and concerns raised during presentations and open discussions. It intends also to provide a concise overview of the benefits and drawbacks of a possible migration towards tomorrow's networks.” This brochure summarizes the results of a workshop on Tomorrow’s Networks Today, held in Saint Vincent (Aosta), Italy from 7 to 8 October 2005. It was prepared by the Strategy and Policy Unit (SPU) on the basis of specially prepared case studies, input documents and contributions to the workshop. The CD-Rom contains the background materials and documents of the workshop as well as a wide range of background resources related to tomorrow’s networks.

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Broadband Commission

The State of Broadband 2016: Broadband catalyzing sustainable development

2016

This report provides an update on progress towards the global targets of the ITU/UNESCO Broadband Commission for Sustainable Development and showcases the research and thought leadership of the Broadband Commission. It also provides a global snapshot of where the telecommunication/ICT industry stands with regards to fixed and mobile broadband deployment, affordability and usage, as well as the use of broadband for achieving development objectives. It will examine the use of new and upcoming technologies, such as 5G and the Internet of Things (IoT) for development.

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The State of Broadband 2015

2015

Every year, the ITU/UNESCO Broadband Commission for Digital Development publishes its 'State of Broadband' report to take the pulse of the global broadband industry and explore progress in broadband connectivity. This report provides a global snapshot of where the telecommunications/ICT industry stands with regards to fixed and mobile broadband deployment, affordability and usage, as well as the use of broadband for achieving development objectives, including the Millennium Development Goals (MDGs) and Sustainable Development Goals (SDGs). It evaluates the take-up and development of broadband around the world, and tracks the Broadband Commission’s targets. It draws on the thought leadership of the Commission and its research into National Broadband Plans. It also offers a range of perspectives on how to boost the roll-out and adoption of broadband networks and services across developing countries.

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Publications in the context of the World Summit on the Information Society (WSIS)

WSIS Stocktaking: Success Stories 2018
2018

Each year, on the occasion of the WSIS Forum, 18 WSIS stakeholders are awarded WS-IS Prizes, as a unique mark of global recognition for excellence in the implementation of WSIS outcomes. To this end, 18 projects are selected as the most successful stories worldwide, under each category, to serve as best-practice models to be replicated by other stakeholders interested in information and communication technologies (ICTs) for development.

Report on the WSIS Stocktaking 2016
2016
The WSIS Stocktaking is intended to fulfil the dual purpose of providing an inventory of activities undertaken by governments and all stakeholders in implementing the Geneva decisions (WSIS Declaration of Principles and Plan of Action) and of taking stock of the progress made in building the Information Society. The report has been specially prepared for the Tunis phase of the Summit, 16-18 November 2005.
Following the publication of the WSIS Regional Stocktaking series for the period 2014-2016 and its popular reception within the WSIS community, a new edition of the WSIS Regional Stocktaking emphasizing how ICTs are helping advance the Sustainable Development Goals in the Asia-Pacific Region has been prepared and is now freely available in the formats below.

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Following the publication of the WSIS Regional Stocktaking series for the period 2014-2016 and its popular reception within the WSIS community, a new edition of the WSIS Regional Stocktaking emphasizing how ICTs are helping advance the Sustainable Development Goals for the period 2016-2018 in the Europe Region has been prepared and is now freely available in the formats below.

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Final WSIS Targets Review – Achievements, Challenges and the Way forward

Following the publication of the WSIS Regional Stocktaking series for the period 2014-2016 and its popular reception within the WSIS community, a new edition of the WSIS Regional Stocktaking emphasizing how ICTs are helping advance the Sustainable Development Goals has been prepared and is now freely available in the formats below.

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WSIS Outcome Documents

2014

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World Information Society Report 2007: Beyond WSIS

2007

The second edition of the World Information Society Report, published by ITU and UNCTAD, looks beyond WSIS to the creation of an inclusive, people-centred and development-oriented Information Society, open to all. The opening chapter looks at the challenges of measuring the ICT sector while chapter two examines progress in bridging the digital divide. Chapter three focuses on emerging trends in the information society worldwide and chapter four looks at national ICT strategies. Chapter five considers the threats to cybersecurity, while chapter six provides an update on WSIS implementation and presents a number of ICT success stories across the world. When purchased, the report is accompanied by a series of tables providing the latest statistics on the development of ICTs worldwide.

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World Information Society Report 2006

2006

The second edition of the World Information Society Report: Beyond WSIS, published by ITU and UNCTAD, looks beyond the World Summit on the Information Society (WSIS, Geneva 2003 - Tunis 2005) to the creation of an inclusive, people-centred and development-oriented Information Society, open to all. The report tracks progress in digital opportunity for 181 economies over the past few years since the start of the WSIS process and is accompanied by a series of tables providing the latest statistics on the development of Information and Communication Technologies (ICTs) worldwide. The report has been created by the "Digital Opportunity Platform", an open multi-stakeholder platform with contributions from governments, private sector, academics and civil society, as well as inter-governmental organisations.

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ITU WSIS Thematic Meeting: Building Digital Bridges
2005

This report looks at efforts by stakeholders at the local, national and international level to bridge the digital divide. It reviews the role of new technologies, multi-stakeholder partnerships and ICT indices in reducing the gap, taking an in-depth look at the cases of Australia, Hong Kong, India, Korea (Rep. of) and Malaysia. The report also proposes a methodology for the development of a composite Digital Opportunity Index (DOI).

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World Summit on the Information Society – Golden Book for the Tunis Phase
2005

The Golden Book is intended to promote new commitments in the field of ICTs that stakeholders have announced during the Tunis Phase of the WSIS. Launched in October 2005, the Golden Book brings together new initiatives, which complement those already underway and recorded in the WSIS stocktaking database.

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ITU WSIS Thematic Meeting: Countering Spam
2004

This publication presents the materials and conclusions of a thematic meeting on ‘Countering Spam’ held by ITU from 7 to 9 July 2004, and forms part of the ITU New Initiatives Programme series. Among other things, the contributions delivered by the participants looked at the problem of finding a common approach to spam, and analyse issues ranging from technical solutions, different legislative approaches and international cooperation among different stakeholders. Also looked at is the problem of consumer awareness and education.

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Visions of the Information Society
2003

This book is aimed at presenting the major questions and challenges facing most societies in today's world. While we have endeavoured to present the themes at a level that is widely accessible, we hope that the high level of expertise makes this publication a useful contribution to people from all fields of specialization wishing to gain better insights into the benefits, challenges and risks of our information societies today and in the future. The spectacular development of information and communication technologies (ICT) has radically affected the way in which humans work, dialogue with each other, and go about their daily lives. It has transformed the global economy, heralding a new and dynamic 'information society'. But what are the real implications of the transformation? Greater security risks? Access to information for everyone, everywhere? This publication, consisting of a book containing expert analyses of different areas and a CD-ROM containing extensive background resources, electronic versions of studies and web references, provides a global reflection on the information society. The authors are renowned experts in their respective fields, and include leading academics and consultants of international repute. The major themes covered are: the perspectives of industrialized and developing countries; network security; ICTs for education; and rights management.

2017

The World Summit on the Information Society Forum (WSIS) represents the world's largest annual gathering of the ICT for development community and facilitates the implementation of the WSIS Action Lines for advancing sustainable development. The information contained in this USB Key is a collection of WSIS actions which provides all the documents on outcomes, outreach, forum, reports and success stories from 2005 to 2016.

1.4 ITU Journal: ICT Discoveries

Issues

Special issue 1 - Propagation modelling for advanced future radio systems - Challenges for a congested radio spectrum

This special issue of the ITU Journal: ICT Discoveries considers the wide range of radio wave propagation phenomena and their effect on radiocommunication systems performance, availability and reliability. This publication explores the latest developments concerning propagation modelling and the phenomena relevant to the planning and deployment of advanced future radiocommunication systems and the efficient use of the radio spectrum.
Special Issue 2 - Data for good

The second special issue of the ITU Journal: ICT Discoveries presents academic papers that offer insight into the increasing sophistication of techniques used to exchange and understand data, while also exploring how data can safely fuel more autonomous, human-centric information and communication technologies. Given the interdisciplinary nature of the issue, it features contributions that add a deeper dimension to the discussion by looking at the policy, regulatory and ethical aspects involved in the increasing use of data today.

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Articles

Article 7 - Analytic models for bi-static scattering from a randomly rough surface with complex relative permittivity

This study provides explicit mathematical formulations for the bi-static scattering coefficient from a randomly rough surface with a complex relative permittivity based on the following analytic models: Small perturbation model (SPM), Physical optics model (PO), and Kirchhoff approximation model (KA). Then it addresses the two shortcomings associated with each of the three models: i) limited applicability domain, and ii) null predicted values for the cross-polarized bi-static scattering coefficients within plane of incidence. The plane of incidence contains both backscattering direction and forward (specular reflection) direction which are of interest to the spectrum community.

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2.1 General Publications

Convention Radiotélégraphique internationale
Commemorative 110th Anniversary Edition

This is a commemorative reproduction of the first edition of the International Radio Telegraph Convention, issued on the occasion of the 110th anniversary of the ITU Radio Regulations in 2016. The Convention recognized the importance of radio for the safety-of-life at sea and adopted a distinctive distress signal: SOS. It was signed in Berlin in 1906, at which time the Final Protocol, Service Regulations, and the Additional Agreement providing for obligatory intercommunication between ships without distinction as to the system used were also approved.

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ITU-R Radiocommunication: Climate Change
2012

“This report provides an overview of the use of radiocommunication systems to monitor the various manifestations of climate change and their impact as well as the application of ICTs and radiocommunications as a solution to contribute to a global reduction in energy consumption.”

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2.2 Regulatory Publications

The legal framework of ITU comprises the basic instruments of the Union, which have treaty status and are binding on ITU Member States. These instruments are the Constitution and Convention of the International Telecommunication Union and the Administrative Regulations, which complement the Constitution and the Convention.

Radio Regulations

2016


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Radio Regulations

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Rules of Procedure
2017

Rules of Procedure, approved by the Radio Regulations Board, for the application by the Radiocommunication Bureau of the provisions of the Radio Regulations, Regional Agreements and Resolutions and Recommendations of World and Regional Radiocommunication Conferences. Update 5 now available. It also appears in the revised complete edition (RB) of this title, along with all other updates, each now integrated in the current Updated Edition.

Rules of Procedure
2012

Rules of Procedure, approved by the Radio Regulations Board, for the application by the Radiocommunication Bureau of the provisions of the Radio Regulations, Regional Agreements and Resolutions and Recommendations of World and Regional Radiocommunication Conferences.
2.3 Conference Publications

The Final Acts record the decisions taken at World Radiocommunication Conferences or Regional Radiocommunication Conferences. They include the new and revised provisions of the Radio Regulations and associated Appendices, as well as the new and revised Resolutions and Recommendations adopted by the Conference. The Final Acts of Regional Conferences normally contain Regional Agreements and Plans annexed to these Agreements.

World Radiocommunication Conferences

Final Acts WRC-19
2019
The Final Acts WRC-19 constitute a record of the decisions taken at the World Radiocommunication Conference 2019 (WRC-19) that comprises both the new and revised provisions of the Radio Regulations, including all Appendices, and the new and revised Resolutions and Recommendations approved by the Conference. Statements made by Member States at the time of signing the Final Acts are also included. Availability: 31 March 2020. Soft copies are free of charge; hard copies will be available for pre-order soon.

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Final Acts WRC-15, World Radiocommunication Conference
2015
The Final Acts constitute a record of the decisions taken at the World Radiocommunication Conference 2015 (WRC-15). They include the new and revised provisions of the Radio Regulations including all Appendices, as well as the new and revised Resolutions and Recommendations approved by the Conference. For an exclusive Flipbook read-only preview in English of the complete publication, you are welcome to click here. Complete pdf versions in all 6 official ITU languages can be obtained free of charge, as they become available, upon registration of a unique profile by clicking CONTINUE below. (Kindly note that TIES access is now accepted towards free access to this ITU Publication. See appropriate link below).

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The Final Acts constitute a record of the decisions taken at the World Radiocommunication Conference, 2012 (WRC-12). They include the new and revised provisions of the Radio Regulations including all Appendices, as well as the new and revised Resolutions and Recommendations approved by the Conference. Statements made by Member States at the time of signing the Final Acts are also included.

Final Acts - WRC-12, Geneva
2012

The Final Acts record the decisions taken at the World Radiocommunication Conference, 2007 (WRC-07). They include the new and revised provisions of the Radio Regulations and associated Appendices, as well as the new and revised Resolutions and Recommendations adopted by the Conference. Statements made by Member States at the time of signing the Final Acts are also included.

Final Acts - WRC-07, Geneva
2007
Final Acts - WRC-03, Geneva
Geneva, 2003

The Final Acts record the decisions taken at the World Radiocommunication Conference, 2003 (WRC-2003). They include the new and revised provisions of the Radio Regulations and associated Appendices, as well as the new and revised Resolutions and Recommendations adopted by the Conference. Statements made by Member States at the time of signing the Final Acts are also included.

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Final Acts of the WARC for Dealing with Frequency Allocation in Certain Parts of the Spectrum (WARC-92)
Malaga-Torremolinos, 1992

This publication contains the Protocol revising certain parts of the ST61 Agreement so as to harmonize the scope of the ST61 Agreement (dealing with VHF/UHF broadcasting) with the GE06 Agreement adopted by RRC-06. The Final Acts also include the Resolutions adopted by RRC-06-Rev.ST61.

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Regional Radiocommunication Conferences

2006

This publication contains the Protocol revising certain parts of the ST61 Agreement so as to harmonize the scope of the ST61 Agreement (dealing with VHF/UHF broadcasting) with the GE06 Agreement adopted by RRC-06. The Final Acts also include the Resolutions adopted by RRC-06-Rev.ST61.

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This publication contains the Protocol revising certain parts of the GE89 Agreement so as to harmonize the scope of the GE89 Agreement (dealing with VHF/UHF television broadcasting) with the GE06 Agreement adopted by RRC-06. The Final Acts also include the Resolutions adopted by RRC-06-Rev.GE89.

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This publication contains the Regional Agreement GE06, adopted by RRC-06, as well as the Resolutions adopted by RRC-06-Rev.ST61 and the Resolutions adopted by RRC-06-Rev.GE89.

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The Final Acts of RRC-06 contain the Regional Agreement GE06, adopted by RRC-06, which governs the use of frequencies by the broadcasting service and other primary terrestrial services in the frequency bands 174-230 MHz and 470-862 MHz. They also contain frequency assignment and frequency allotment plans for the digital broadcasting service (television and sound), the analogue television plan applicable in the transition period, the coordinated list of assignments to other terrestrial primary services in these bands, and the Resolutions adopted by RRC-06. The GE06 Agreement is provisionally applicable as from 17 June 2006. (Note: Only the freely available Table of Contents is downloadable).

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The Final Acts of the Regional Radiocommunication Conference for planning of the digital terrestrial broadcasting service in parts of Regions 1 and 3, in the frequency bands 174-230 MHz and 470-862 MHz (RRC-06) 2006

The Final Acts of RRC-06 contain the Regional Agreement GE06, adopted by RRC-06, which governs the use of frequencies by the broadcasting service and other primary terrestrial services in the frequency bands 174-230 MHz and 470-862 MHz. They also contain frequency assignment and frequency allotment plans for the digital broadcasting service (television and sound), the analogue television plan applicable in the transition period, the coordinated list of assignments to other terrestrial primary services in these bands, and the Resolutions adopted by RRC-06. The GE06 Agreement is provisionally applicable as from 17 June 2006. (Note: Only the freely available Table of Contents is downloadable).
### Agenda and Relevant Resolutions

**Agenda and Relevant Resolutions WRC-19**

2017

The World Radiocommunication Conference 2019 (WRC-19) - Agenda and Relevant Resolutions booklet provides an easy access to the WRC-19 agenda as well as to the pertinent resolutions referenced therein to better assist the ITU membership in the preparations for the conference. Collect your extra copy of this mini-Publication at the ITU Montbrillant Bookstore at the non-discounted price of 10 CHF each.

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### Conference Publications

**Report of the CPM to WRC-12**

2011

This CPM Report to the 2012 World Radiocommunication Conference (WRC-12) was prepared in response to Resolution 1291 (MOD) of the ITU Council to assist those who will be involved in the preparations for and deliberations at WRC-12. It was prepared and approved by the Conference Preparatory Meeting (CPM) at its Second Session in Geneva, 14-25 February 2011. This Report is structured to follow the topics of the WRC-12 Agenda and comprises six Chapters and one Annex. Price below includes Paper/CD packaged together. Not sold separately.

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Report of the CPM to the WRC-19
2019

The CPM Report to the 2019 World Radiocommunication Conference (WRC-19) was prepared in response to ITU Council Resolution 1380 (C16, Amended C17), to assist those involved in the preparations of WRC-19. This Report, prepared and approved by the Conference Preparatory Meeting (CPM) at its Second Session in Geneva (18 to 28 February 2019), represents the best information on technical, operational and regulatory/procedural issues relevant to the WRC-19 Agenda available at the time of its preparation and should provide a good basis for the discussions at the Conference. To read more about CPM 2019, please see ITU-R’s information pages.

Report of the CPM to WRC-15
2015

The CPM Report to the 2015 World Radiocommunication Conference (WRC-15) was prepared in response to ITU Council Resolution 1343 (C12), to assist those involved in the preparations of WRC-15. This Report, prepared and approved by the Conference Preparatory Meeting (CPM) at its Second Session in Geneva (23 March – 2 April 2015), represents the best information on technical, operational and regulatory/procedural issues relevant to the WRC-15 Agenda available at the time of its preparation and should provide a good basis for the discussions at the Conference.
2.4 Service Publications

ITU-R Handbooks constitute an authoritative source of technical material relating to radiocommunications that disseminates information in a form that is readily understandable and that can be applied practically, especially in the training of technicians and engineers, while paying special attention to the requirements of developing countries.

Maritime Publications

List V - List of Ship Stations and Maritime Mobile Service Identity Assignments

2019

The List of Ship Stations and Maritime Mobile Service Identity Assignments (List V) is a service publication prepared and issued, once a year, by the International Telecommunication Union (ITU), in accordance with provision no. 20.8 of the Radio Regulations (RR). As stipulated in Appendix 16 to the RR, this List shall be provided to all ship stations for which a Global Maritime Distress and Safety System (GMDSS) installation is required by international agreement. Now available. Next edition: end-May 2020. Note: This title exists in CD format only, no book/hard-copy format. End-users should register their official CD by scanning their unique QR code.

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List V - List of Ship Stations and Maritime Mobile Service Identity Assignments

2018

The List of Ship Stations and Maritime Mobile Service Identity Assignments (List V) is a service publication prepared and issued, once a year, by the International Telecommunication Union (ITU), in accordance with provision no. 20.8 of the Radio Regulations (RR). As stipulated in Appendix 16 to the RR, this List shall be provided to all ship stations for which a Global Maritime Distress and Safety System (GMDSS) installation is required by international agreement. New edition released annually in Q2. (Kindly note that the 2019 edition is now available.)

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List IV - List of Coast Stations and Special Service Stations

2019

List IV contains important information for the mariner in relation to radiocommunications, including the GMDSS (Global Maritime Distress and Safety System). Detailed information such as the frequencies for transmitting and receiving, in addition to geographical coordinates, is provided for maritime coast radio stations, including those assuming watch-keeping using digital selective calling (DSC) techniques and radiotelephony. List IV also supplies details of additional services such as medical advice, navigational and meteorological warnings, MSI (Maritime Safety Information), AIS (Automatic Identification System), meteorological bulletins and radio time signals, along with the hours of service and operational frequencies, information on port stations, pilot stations, coast Earth stations, VTS stations, contact information of RCC (Rescue Coordination Centers), SAR agencies, Navarea coordinators and AtoNs (AIS Aids to Navigation). As stipulated in Appendix 16 to the RR, this List shall be provided to all ship stations for which a Global Maritime Distress and Safety System (GMDSS) installation is required by international agreement. Now available as of 15 December 2019. Note: This title exists in CD format only, no book/hard-copy format. End-users should register their official CD by scanning their unique QR code.

List IV - List of Coast Stations and Special Service Stations

2017

List IV contains important information for the mariner in relation to radiocommunications, including the GMDSS (Global Maritime Distress and Safety System). Detailed information such as the frequencies for transmitting and receiving, in addition to geographical coordinates, is provided for maritime coast radio stations, including those assuming watch-keeping using digital selective calling (DSC) techniques and radiotelephony. List IV also supplies details of additional services such as medical advice, navigational and meteorological warnings, MSI (Maritime Safety Information), AIS (Automatic Identification System), meteorological bulletins and radio time signals, along with the hours of service and operational frequencies, information on port stations, pilot stations, coast Earth stations, VTS stations, contact information of RCC (Rescue Coordination Centers), SAR agencies, Navarea coordinators and AtoNs (AIS Aids to Navigation). As stipulated in Appendix 16 to the RR, this List shall be provided to all ship stations for which a Global Maritime Distress and Safety System (GMDSS) installation is required by international agreement. Edition 2017, now available. Next new edition expected: December 2019.

List IV - List of Coast Stations and Special Service Stations

2015

List IV contains important information for the mariner in relation to radiocommunications, including the GMDSS (Global Maritime Distress and Safety System) and CP (Public Correspondence) services. Detailed information is provided in relation to the facilities available at each maritime coast radio station, which may provide watch-keeping using digital selective calling (DSC) techniques and radiotelephony. Also included are receiving and transmitting frequencies, as well as the geographical coordinates for each station. List IV also lists details of additional services such as medical advice, navigational and meteorological warnings, MSI (Maritime Safety Information), AIS (Automatic Identification System), meteorological bulletins and radio time signals, along with the hours of service and operational frequencies. It also contains information on port stations, pilot stations, coast Earth stations, VTS stations, contact information of RCC (Rescue Coordination Centers), SAR agencies, Navarea coordinators and AtoNs (AIS Aids to Navigation). Next edition expected: November 2017.
Manual for Use by the Maritime Mobile and Maritime Mobile-Satellite Services (Maritime Manual)

2016


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General Publications

BR Space Services WIC/IFIC - Annual Collection

2018

The collection of BR WICs (Weekly Information Circulars) and BR IFICs (International Frequency Information Circulars) for Space Services contains Parts and Special Section publications with information on the frequency assignments for space stations, Earth stations or radioastronomy stations submitted to the Radiocommunication Bureau by ITU Member State administrations. The collection is distributed on multiple DVD-ROMs and contains archived BR WICs compiled by time series (1965-1995) and from 1996 by year (1996-1999), and archived BR IFICs (from 2000 onwards) by year.

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BR Space Services WIC/IFIC - Annual Collection

2017

The collection of BR WICs (Weekly Information Circulars) and BR IFICs (International Frequency Information Circulars) for Space Services contains Parts and Special Section publications with information on the frequency assignments for space stations, Earth stations or radioastronomy stations submitted to the Radiocommunication Bureau by ITU Member State administrations. The collection is distributed on multiple DVD-ROMs and contains archived BR WICs compiled by time series (1965-1995) and from 1996 by year (1996-1999), and archived BR IFICs (from 2000 onwards) by year.

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**BR Space Services WIC/IFIC - Annual Collection**

**2016**

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**List VIII - List of International Monitoring Stations**

**2019**

This List contains: 1) the addresses and other relevant information of centralizing offices and an index of monitoring stations; 2) particulars of monitoring stations carrying out the following measurements related to terrestrial radiocommunication stations: frequency measurements, field strength or power flux-density measurements, direction-finding measurements, bandwidth measurements as well as automatic spectrum occupancy surveys; and 3) particulars of monitoring stations carrying out measurements related to space radiocommunication stations. This publication also contains an electronic map of monitoring stations and geographical zones for HF broadcasting (CIRAF zones). Direct download available for ITU (TIES) members only, free of charge.

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List VIII - List of International Monitoring Stations
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This List contains: 1) the addresses and other relevant information of centralizing offices and an index of monitoring stations; 2) particulars of monitoring stations carrying out the following measurements related to terrestrial radiocommunication stations: frequency measurements, field strength or power flux-density measurements, direction-finding measurements, bandwidth measurements as well as automatic spectrum occupancy surveys; and 3) particulars of monitoring stations carrying out measurements related to space radiocommunication stations. This publication also contains an electronic map of monitoring stations and geographical zones for HF broadcasting (CiRAF zones). Direct download will be available for ITU (TIES) members only. Kindly note that a new updated version was launched October 2019.

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List VIII - List of International Monitoring Stations
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This List contains: 1) the addresses and other relevant information of centralizing offices and an index of monitoring stations; 2) particulars of monitoring stations carrying out the following measurements related to terrestrial radiocommunication stations: frequency measurements, field strength or power flux-density measurements, direction-finding measurements, bandwidth measurements as well as automatic spectrum occupancy surveys; and 3) particulars of monitoring stations carrying out measurements related to space radiocommunication stations. This publication also contains an electronic map of monitoring stations and geographical zones for HF broadcasting (CiRAF zones). Direct download is available for ITU (TIES) members only.

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ITU-R Recommendations constitute a set of international technical standards developed by the Radiocommunication Sector (formerly CCIR) of the ITU. They are the result of studies undertaken by Radiocommunication Study Groups on:
- the use of a vast range of wireless services, including popular new mobile communication technologies;
- the management of the radio-frequency spectrum and satellite orbits;
- the efficient use of the radio-frequency spectrum by all radiocommunication services;
- terrestrial and satellite radiocommunication broadcasting;
- radiowave propagation;
- systems and networks for the fixed-satellite service, for the fixed service and the mobile service;
- space operation, Earth exploration-satellite, meteorological-satellite and radio astronomy services.

ITU-R Recommendations are approved by ITU Member States. Their implementation is not mandatory; however, as they are developed by experts from administrations, operators, the industry and other organizations dealing with radiocommunication matters from all over the world, they enjoy a high reputation and are implemented worldwide.

(*Free online access to current ITU-R Recommendations is provided on a trial basis to ITU Member States administrations, Sector Members and Associates of all Sectors via TIES until further notice.)

They are divided into Series according to the subjects they cover, as follows:

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### ITU-R Recommendations, Reports and selected Handbooks - DVD-ROM

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**ITU-R Recommendations, Reports and selected Handbooks**

**2019**

ITU-R Recommendations constitute a set of international technical standards developed by the Radiocommunication Sector of ITU on topics such as efficient management and use of the spectrum/orbit resource, radio systems characteristics and performance, spectrum monitoring and emergency radiocommunications for public protection and disaster relief. ITU-R Reports contain technical, operational or procedural statements prepared by radiocommunication study groups. ITU-R Handbooks provide a statement of the current knowledge, the present position of studies, or of good operating or technical practice, in certain aspects of radiocommunications.
2.6 Handbooks

ITU-R Handbooks constitute an authoritative source of technical material relating to radiocommunications that disseminates information in a form that is readily understandable and that can be applied practically, especially in the training of technicians and engineers, while paying special attention to the requirements of developing countries.

Spectrum management

Spectrum Monitoring

2011

The Handbook on Spectrum Monitoring contains the latest information on all aspects of monitoring and represents a valuable reference manual for the spectrum management community. It is intended for the use by administrations of both developing and developed countries and by the Radiocommunication Bureau. The Handbook will also be useful to radiocommunication engineers everywhere.

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Supplement to Handbook on Spectrum Monitoring

2008

The purpose of this Supplement to the ITU-R Handbook - Spectrum Monitoring (Edition 2002) is to provide up-to-date information on several issues before the publication of the next complete edition of the Handbook. It provides a complete and self-contained revision of the following chapters of the Handbook: - Chapter 3 (Monitoring equipment and automation of monitoring operations), - Section 5.1 (Spacecraft emission monitoring) of Chapter 5, and - Annex 1 (Monitoring system planning and tenders).

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Spectrum Management

Computer-aided Techniques for Spectrum Management (CAT)
2015

This Handbook should be seen as complementary to Handbooks 'National Spectrum Management' (2015) and 'Spectrum Monitoring' (2011). The topic of national spectrum management has evolved and become the central hot spot in the activities of all telecommunication administrations. This is particularly true for developing countries, where the dramatic development of ICT technologies and their wide application have led to a heavy increase in related spectrum usage. The user/reader will find basic material and numerous models for developing efficient projects that will assist in reaching their objective - implementing automated spectrum management as soon as possible.

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Free

National Spectrum Management
2015

This Handbook describes the key elements of spectrum management: spectrum management fundamentals, spectrum planning, frequency assignment and licensing, spectrum monitoring, spectrum inspection and investigation, spectrum engineering, spectrum economics, automation of spectrum management activities and measures of spectrum utilization and spectrum utilization efficiency.

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Free
Radiowave Propagation

ITU-R propagation prediction methods for interference and sharing studies
2012

This Handbook provides technical information and guidance needed for sharing studies and interference assessments using selected ITU-R P-Series RF propagation models and prediction methods. The handbook is intended to be used in conjunction with ITU-R P-Series Recommendations to assist in performing interference analyses and prediction methods on radiocommunication service systems.

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Radiometeorology

2013

The Handbook on Radiometeorology supplies background and supplementary information on radiowave propagation effects as described and used in the ITU-R P series of Recommendations thus giving a more detailed understanding of these Recommendations, in particular to those who wish to contribute to their development.

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Radiowave propagation information for designing terrestrial point-to-point links
2008

The ITU-R Handbook - Radiowave propagation information for designing terrestrial point-to-point links supplies background and supplementary information on radiowave propagation effects, and serves as a companion volume and guide to the ITU-R Recommendations that have been developed by Radiocommunication Study Group 3 to assist in the design of terrestrial communication systems.

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Terrestrial land mobile radiowave propagation in the VHF/UHF bands
2002

This ITU-R Handbook gives the technical basis for predicting the radio propagation in point-to-point, point-to-area, and point-to-multipoint mobile networks.

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Ionosphere and its Effects on Radiowave Propagation
1998

This Handbook supplements information on radiowave propagation in and through the ionosphere which is addressed in related Recommendations contained in the P Series of ITU-R Recommendations. In this respect, the Handbook is intended to help the user in the application of these Recommendations in the design and operation of radiocommunication systems using, or influenced by, the ionosphere. English edition sold-out in hard-copy version.

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Free
Radiowave Propagation Information for Predictions for Earth-to-Space Path Communications
1996
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Curves for Radiowave Propagation over the Surface of the Earth
1991

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Ground Wave Propagation
2014
The Handbook on ground wave propagation is of special interest for communication, particularly broadcasting, at the lower frequencies where the mode has been in use for more than 90 years. It deals with fundamentals and theory, wide-scale considerations and prediction methods used for compatibility assessments and planning procedures. Smaller scale variability, which may be of major importance in assessing the quality of services, is also treated. The topics of measurements and phase are also covered.

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Broadcasting Service

Handbook on Digital Terrestrial Television Broadcasting networks and systems implementation
2016
The aim of this Handbook is to provide assistance in technical and service issues such as networks and systems, audiovisual quality and quality of transmission, as well as on other issues of interest for the introduction of digital terrestrial TV broadcasting (from multimedia systems to UHDTV) in different countries. Hard copy available for pre-order. The pdf versions of all BR Handbooks are free of charge as of January 2017.

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Fixed-satellite service

Supplements No. 1, 2, 3 and 4 to Handbook on Mobile-satellite service (MSS)
2006
Supplement 1 - Systems aspects of digital mobile Earth station Supplement 2 - Methodology for the derivation of interference and sharing criteria for the Mobile-satellite services Supplement 3 - Interference and noise problems for maritime mobile-satellite systems using frequencies in the region of 1.5 and 1.6 GHz Supplement 4 - Technical aspects of coordination among mobile-satellite systems using the geostationary-satellite orbit

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Mobile-satellite service (MSS)
2002
This Handbook provides a brief survey and introduction to the field of Mobile-satellite service (MSS). Note: Supplements 1, 2, 3 and 4 were published in 2006 and contain important updates to this Handbook.

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DSB Handbook - Terrestrial and satellite digital sound broadcasting to vehicular, portable and fixed receivers in the VHF/UHF bands
2002
This Handbook describes the system and service requirements for digital sound broadcasting (DSB) to vehicular, portable and fixed receivers, the related propagation factors, the techniques employed in the digital sound broadcasting systems, and considers relevant planning parameters and sharing conditions.

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Satellite Communications (FSS)
2002
This Handbook gives a comprehensive description of all issues relative to satellite communication systems operating in the fixed-satellite service (FSS).

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Science services

Radio Astronomy
2013

The Handbook on Radio Astronomy has been developed by experts of Working Party 7D of ITU-R Study Group 7 (Science Services) that is responsible for radio astronomy. This Handbook is not intended as a source book on radio astronomy, but rather deals with such aspects of radio astronomy that are relevant to frequency coordination as the management of radio spectrum usage in order to minimize interference between radiocommunication services.

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Earth Exploration-Satellite Service
2011

This Handbook provides full and comprehensive information on the development of EESS systems. Specifically, it provides basic definitions, sheds light on the technical principles underlying the operation of systems and presents their main applications to assist administrations in the spectrum planning, engineering and deployment aspects of these systems.

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Satellite Time and Frequency Transfer and Dissemination
2010
This is the first ITU Handbook to provide detailed information on the applied methods, technologies, algorithms, data structure and practical use of frequency and timing signals provided by satellite systems.

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Selection and Use of Precise Frequency and Time Systems
1997
This Handbook consists of ten chapters which describe basic concepts, frequency and time sources, measurement techniques, characteristics of various frequency standards, operational experience, problems and future prospects. The contents include detailed explanations and many references that can be consulted for additional details.

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Science Services
Space Research Communications
2014
This Handbook is concerned principally with those aspects of the space research service that are relevant to the management of radio spectrum usage in order to minimize interference between radiocommunication services when the space research service is involved.

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This is the first ITU Handbook to provide detailed information on the applied methods, technologies, algorithms, data structure and practical use of frequency and timing signals provided by satellite systems.
Telecommunication is critical at all phases of disaster management. Aspects of radiocommunication services associated with disasters include, inter alia, disaster prediction, detection, alerting and disaster relief. In certain cases, when the ‘wired’ telecommunication infrastructure is significantly or completely destroyed by a disaster, only radiocommunication services can be employed for disaster relief operation.

### Emergency and Disaster relief

**2006**

This Handbook identifies International Mobile Telecommunications (IMT) and provides the general information such as service requirements, application trends, system characteristics, and substantive information on spectrum, regulatory issues, guideline for the evolution and migration, and core network evolution on IMT. The purpose of this Handbook is to provide general guidance to relevant parties on issues related to the deployment of IMT systems and to the introduction of their IMT 2000 and IMT Advanced networks.

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**ITU-R Special Supplements**

2006

**Emergency and Disaster relief**

Telecommunication is critical at all phases of disaster management. Aspects of radiocommunication services associated with disasters include, inter alia, disaster prediction, detection, alerting and disaster relief. In certain cases, when the ’wired’ telecommunication infrastructure is significantly or completely destroyed by a disaster, only radiocommunication services can be employed for disaster relief operation.

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**Terrestrial Services**

**Handbook on Global Trends in International Mobile Telecommunications**

2015

This Handbook identifies International Mobile Telecommunications (IMT) and provides the general information such as service requirements, application trends, system characteristics, and substantive information on spectrum, regulatory issues, guideline for the evolution and migration, and core network evolution on IMT. The purpose of this Handbook is to provide general guidance to relevant parties on issues related to the deployment of IMT systems and to the introduction of their IMT 2000 and IMT Advanced networks.

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Terrestrial Services

Amateur and amateur-satellite services
2014

This Handbook provides general information about amateur and amateur-satellite services. It also includes a compendium of existing ITU texts of relevance to amateur and amateur-satellite services. This Handbook is intended to present, in one document, information about amateur services for administrations and amateur radio organizations.

Land Mobile (including Wireless Access) - Volume 5: Deployment of Broadband Wireless Access Systems
2011

The overall purpose of the Handbook is to assist in the decision-making process involving planning, engineering and deployment of wireless-based land mobile systems, especially in developing countries. It also provides information that will assist in training engineers and planners in the regulating, planning, engineering and deployment aspects of these systems.
Migration to IMT-2000 Systems - Supplement 1 (Revision 1) of the Handbook on Deployment of IMT-2000 Systems

2011

This revised Supplement expands on the first edition of the ITU Handbook - Deployment of IMT-2000 Systems and updates much of the work that has occurred since the release of the Handbook. It addresses the subject of evolution and migration from current mobile systems towards IMT-2000. ITU-R has developed this work in response to ongoing liaison and interaction with the ITU-D and ITU-T Sectors and sees this material as the natural extension of the information presented in the Handbook.

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Land Mobile (including Wireless Access) - Volume 4: Intelligent Transport Systems

2006

Volume 4 of the ITU-R Handbook on Land Mobile (including Wireless Access) provides a summary of the use of wireless communications in intelligent transport systems (ITS), current and under development, around the globe, including architecture, systems, and applications. This is a rapidly developing sector, which is still partly in its infancy.

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Land Mobile (including Wireless Access) - Volume 3: Dispatch and Advanced Messaging Systems

2005

The purpose of the Land Mobile Handbook is to assist in the decision-making process involving planning, engineering and deployment of land mobile systems, especially in the developing countries. It should also provide adequate information to assist in training engineers and planners in regulating, planning, engineering and deployment aspects of these systems. Volume 3 on Dispatch and Advanced Messaging Systems provides information on state-of-the-art technology in terrestrial land mobile paging and advanced messaging and dispatch as well as descriptions of typical systems. The technical content is intended for use by administrations and operators in both developing and developed countries.

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Free

24.-

E, F, S, A, C, R

Deployment of IMT-2000 Systems

2003

This Handbook addresses a variety of issues related to the deployment of IMT-2000 systems, to inform and guide key decision-makers on critical aspects concerning third-generation mobile communication systems, to facilitate decisions on the selection of options and strategies for the introduction of their IMT-2000 networks.

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E, F, S, R

Frequency adaptive communication systems and networks in the MF/HF bands

2002

This Handbook is published to assist planners and decision-makers in the deployment of adaptive MF/HF systems in the fixed service, for both commercial and government users in developed and particularly developing countries. It provides material on current present technological capabilities in the field of adaptive MF/HF communications.

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E, F, S, R
Land Mobile (including Wireless Access) - Volume 1: Fixed Wireless Access
2001

The purpose of this Handbook is to assist in the decision making process involving planning, engineering and deployment of wireless access based land mobile systems, especially in the developing countries. It should also provide adequate information that will assist in training engineers and planners in regulating, planning, engineering, and deployment aspects of these systems.

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Free

Land Mobile (including Wireless Access) - Volume 2: Principles and Approaches on Evolution to IMT-2000/FPLMTS
1997

This volume of the Handbook provides an overview of principles and approaches to be considered in the evolution of existing and emerging systems towards IMT-2000. IMT-2000 are third generation mobile systems which are scheduled to start service around the year 2000, subject to market considerations.

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Digital Radio-Relay Systems
1996

This Handbook represents a comprehensive summary of basic principles, design parameters and current practices for the design and engineering of digital radio-relay systems.

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Free
Guidance for bilateral/multilateral discussions on the use of frequency range 1 350 MHz - 43.5 GHz by fixed service systems

This Handbook summarizes the existing technical approaches to resolve compatibility and sharing issues within fixed service stations. The objective is to provide a guide addressing best practices from those administrations already having knowledge and experience in developing such agreements. Examples are provided to facilitate the sharing of fixed service deployed in the neighbouring countries.

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Broadcasting service

DTTB Handbook - Digital terrestrial television broadcasting in the VHF/UHF bands

This Handbook provides guidance to engineers responsible for the implementation of digital terrestrial television broadcasting and combines material dealing with digital and analogue television systems and planning aspects of this new topic.

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HF Broadcasting System Design

This Handbook provides practical and illustrative guidance (even to radio engineers not having been previously exposed to the specific task of HF broadcasting service planning). Considerable effort has been made to meet the expectations of HF broadcasting engineers from the developing world. This publication includes relevant texts from existing ITU-R Recommendations as well as advanced material.

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### 2.7 Software and Databases

#### ITU Digitized World Map (IDWM) and Subroutine Library (32-bit)

**2010**

Database of country borders geographical data and technical data related to the Radio Regulations and certain Regional Agreements.

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### 2.8 ITU-R Administrative Volumes

#### Book of ITU-R Resolutions

The Resolutions contained in this book are those in force as at the end of the Radiocommunication Assembly held from 21 to 25 October 2019, in Sharm el-Sheikh, Egypt. Available free of charge, below (no production of printed copies for sale).

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3.1 Regulations

International Telecommunication Regulations - Melbourne - (WATT-88)
Melbourne, 1988

“These Final Acts incorporate International Telecommunication Regulations. The purpose of these Regulations is to establish general principles which relate to the provision and operation of international telecommunication services offered to the public as well as to the underlying international telecommunication transport means used to provide such services. These Regulations are also established with a view to facilitating global interconnection and interoperability of telecommunication facilities and to promoting the harmonious development and efficient operation of technical facilities, as well as the efficiency, usefulness and availability to the public of international telecommunication services.”

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Proceedings of the World Telecommunication Standardization Assembly
Hammamet, 2016

The Proceedings contain Resolutions (Rules of Procedure of ITU-T; study group responsibility and mandates; publication of ITU-T Recommendations and WTSA proceedings, etc.), ITU-T A-series Recommendations (Organization of the work of ITU-T), study groups and other groups, the list of questions for the study period 2017-2020 and reports as approved by WTSA-2016.

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### World Telecommunication Standardization Assembly Proceedings

**Dubai, 2012**

The Proceedings contain Resolutions (Rules of Procedure of ITU-T; study group responsibility and mandates; publication of ITU-T Recommendations and WTSA proceedings, etc.), ITU-T A-series Recommendations (Organization of the work of ITU-T), study groups and other groups, the list of questions for the study period 2013-2016 and reports as approved by WTSA-2012.

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### World Telecommunication Standardization Assembly Proceedings

**Johannesburg, 2008**

WTSA proceedings contain Resolutions adopted by the assembly, Recommendations on the organization of the work of ITU-T (A-series), the list of the study groups, the advisory group and any other groups established or maintained by the assembly, with their titles and general areas of work, the titles of the Questions (continuing or newly approved for study) and their allocation, and the reports of the committees of the assembly.

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### World Telecommunication Standardization Assembly Proceedings

**Johannesburg, 2008**

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3.2 ITU-T Recommendations

The ITU-T Recommendations developed by the ITU Telecommunication Standardization Sector are standards that define how telecommunication networks operate and interwork. They are based on studies on technical, operating and tariff questions and serve to standardize telecommunications on a worldwide scale. Although non-binding, they are widely used because they enable the interconnectivity and interoperability of networks and the provision of worldwide telecommunication services. At present, more than 4000 ITU-T Recommendations on some 140 000 pages are in force on topics from service definition to network architecture and security, and from dial-up modems and IP-related issues to Gbit/s optical transmission systems, next-generation networks (NGN), Internet of Things and cloud computing.

ITU-T Recommendations are made available individually as soon as they are prepared in ITU-T Study Groups and approved by ITU-T Members. Some Recommendations include electronic attachments that can also be downloaded for free either zipped with the Recommendation or from the ITU website. New and revised ITU T Recommendations are announced through the ITU News magazine, email notifications and the List of ITU-T Recommendations on the ITU website, which can be found at http://www.itu.int/ITU-T/recommendations/index.aspx. Most recommendations are available for free download but can also be bought on DVD-ROM.

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**Collection of ITU-T Recommendations and selected Handbooks**

2019

This USB key provides vastly improved search tools, including a detailed search-by-content that covers all ITU-T Recommendations in force. Recommendations not yet available in their final edited format are included in their provisional pre-published form. A wide range of electronic attachments are also included and or referenced for direct download from the ITU website. The USB key also includes a searchable collection of selected Handbooks developed by the ITU Telecommunication Sector in fields such as mitigation measures for telecommunication installations and their protection against electromagnetic effects, formal languages, outside plant, network security, quality of service and network planning. This quarterly USB key is available either individually or through a yearly subscription that covers four editions at a discounted rate.

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**3.3 Handbooks**

**Network planning**

**Future networks**

2012

This ITU-T Handbook reviews the work to date on future networks. The development of future networks is driven by, on the one hand, the perceived challenges that are faced by networks at the moment and, on the other hand, by the continual development of new applications and technology. The work on future networks is broad in scope and covers not only technological issues but also social, economic and environmental aspects.

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Security

Security in Telecommunications and Information Technology
2012

The purpose of the ITU-T Manual on Security in Telecommunications and Information Technology is to provide a broad introduction to the security work of ITU-T. It is directed towards those who have responsibility for, or an interest in, information and communications security and the related standards, and those who simply need to gain a better understanding of ICT security issues and the corresponding ITU-T Recommendations. Please note that the latest version is available for free in PDF http://www.itu.int/pub/T-TUT-SEC-2015

Formal Languages

Object identifiers (OIDs) and their registration authorities
2010

This Handbook provides information on the use of Object Identifiers (OIDs). It consists of several parts, which will be of interest to different audiences. Part 1 is a general introduction. Part 2 contains historical and background information of a largely tutorial nature. Part 3 provides a full description of the structure of the International OID tree, the high-level arcs and major branches, and the notations and encodings used for expressing OID values. Part 4 is concerned with the practical use of OIDs. It introduces the OID repository and the ITU-T module database. It describes some of the early and current uses of OIDs. Part 5 covers more recent developments, including the International Object Identifier tree, Unicode labels and long arcs. Part 6 discusses the OID Resolution System (ORS) using the Domain Name System (DNS). Part 7 contains instructions on how to obtain an OID for various purposes, and how to manage a sub-authority for allocation of a node to children, including information on actions needed to make use of the ORS. There are several Annexes (of which the most important are probably those concerned with the setting up and operation of a national registration authority) and a bibliography.
Protection against electromagnetic effects

Mitigation measures for telecommunication installations - Part 1
2008

This Handbook describes case studies, supplied by ITU-T Study Group 5 members, of electromagnetic compatibility (EMC) interference problems that have affected telecommunication systems related to emission and immunity, overvoltage and overcurrent, and the solutions to such problems. This handbook also indicates typical sources of interference as well as the solutions that can be used to restore correct service to the system or to avoid any such problems before they manifest themselves. Whilst this handbook does not cover measurement methods or how to measure emissions, overvoltage or overcurrent, as these are covered within other ITU-T Recommendations, it does, through the case studies, suggest how to detect certain problems. The electronic version of part 2 is free of charge. www.itu.int/ITU-T/mitigation/mitigation-p2.html

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2004

This Handbook describes case studies, supplied by ITU-T Study Group 5 members, of electromagnetic compatibility (EMC) interference problems that have affected telecommunication systems related to emission and immunity, overvoltage and overcurrent and the solutions to such problems. This handbook also indicates typical sources of interference as well as the solutions that can be used to restore correct service to the system or to avoid any such problems before they manifest themselves. Whilst this handbook does not cover measurement methods or how to measure emissions, overvoltage or overcurrent as these are covered within other ITU-T Recommendations, it does, through the case studies, suggest how to detect certain problems.

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Earthing and Bonding
2003

This ITU-T Handbook on Earthing and Bonding is for use by engineers designing telecommunication systems, especially those concerned with applying protective measures. It aims to give the user a background to various terms used within the telecommunication and power industry regarding earthing and bonding of equipment and structures (Chapter 1) in various parts of the world. The concepts of earthing and bonding are described (Chapter 2) together with how to implement such methods (Chapters 3 and 4), detailing why these are necessary and what the results may be if they are not performed correctly. The final section of the handbook shows how to evaluate and maintain the effectiveness/quality of the earthing systems and bonding networks thus created.

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Guide to the use of ITU-T Publications produced by Study Group 5 aimed at achieving Electromagnetic Compatibility and Safety
2002

This guide presents an overview of the ITU-T documents (prepared by Study Group 5) giving information on measures to achieve electromagnetic compatibility for telecommunication equipment and installations. This Guide is aimed at telecommunication equipment designers and operators and is also helpful for users in developing countries.

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Directives concerning the protection of telecommunication lines against harmful effects from electric power and electrified railway lines - Volume VI: Danger, damage and disturbance
2008

*These Directives describe the danger to telecommunication system workers and users and damage to equipment as well as the interference to transmission of information that may occur as a result of the proximity of telecommunication system installations to electric power and electrified railway installations. It also describes the conditions that may result in danger to telecommunication system workers and users or damage to equipment. It must be emphasized that although the possibility of danger may exist, the probability of damage to equipment is small and the likelihood of injury is very remote. In addition, it states the conditions that may result in interference to the transmission of information because of the influence of electric power and electrified railway installations. The likelihood of transmission degradation is significantly increased by such factors as exposure length, earth return currents, harmonic content of power current, cable shielding and longitudinal balance.*

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Directives concerning the protection of telecommunication lines against harmful effects from electric power and electrified railway lines - Volume V: Inducing currents and voltages in power transmission and distribution systems
2008

The Directives provide a comprehensive description of electromagnetic effects due to the close proximity of telecommunication lines to power and electrified railway systems. Such effects may result in danger to personnel, damage to telecommunication equipment, deterioration of telecommunication transmission quality or disturbance of signalling. Volume V: "Inducing currents and voltages in power transmission and distribution systems" describes balanced and unbalanced power systems in normal operation and under fault conditions.

Directives concerning the protection of telecommunication lines against harmful effects from electric power and electrified railway lines - Volume II: Calculating induced voltages and currents in practical cases
1999

The Directives provide a comprehensive description of electromagnetic effects due to the close proximity of telecommunication lines to power and electrified railway systems. Such effects may result in danger to personnel, damage to telecommunication equipment, deterioration of telecommunication transmission quality or to disturbance of signalling. Volume II - Calculating induced voltages and currents in practical cases - describes the methods for evaluating voltages and currents resulting from capacitive, inductive and conductive coupling in a variety of commonly-encountered situations.

Implementation guidelines

Testing of next generation networks
2011

This Handbook describes the general approach to testing of next generation networks (NGNs). Its goal is to assist administrations and operators in the implementation of testing as a method to verify network and services development strategies, but it can be used by vendors as well. It also discusses interoperability problems that could appear during network or service implementation.
Optical Transport Networks from TDM to Packet
2010

This Handbook discusses the technologies covered by ITU-T Recommendations related to Synchronous Digital Hierarchy (SDH), Optical Transport Network (OTN) and Ethernet over Transport (EoT). Each chapter of this Handbook is dedicated to a specific aspect (architecture, multiplexing hierarchy, protection, synchronization, etc.) of SDH, OTN and EoT optical transport networks. Plesiochronous Digital Hierarchy networks, which are at present considered obsolete, and Multiprotocol Label Switching - Transport Profile, which is at a preliminary stage of standardization, are only mentioned in the Preface. Finally, the last chapter of the Handbook discusses automatically switched optical networks (ASON), based on the control planes introduced in addition to transport planes and management planes.

Converging networks
2010

This Handbook presents the ITU-T Recommendations on next generation networks in the context of the ongoing convergence of the telecommunications and media industries.
publications of the ITU-T Sector

DSL story
2010

This Handbook provides an overview of the 18 ITU-T Recommendations dealing with the xDSL technology published as of the end of 2009. After a brief introduction of the xDSL technology, the xDSL Recommendations are grouped into nine categories: HDSL and SHDSL, five ADSL (G.992.2, splitterless ADSL, ADSL2 reach extended, splitterless ADSL2 and ADSL2plus) and two VDSL (VDSL1 and VDSL2). Operations and signalling principles of these nine families of xDSL systems are presented, emphasizing the commonalities.

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Deployment of packet-based networks
2009

This Handbook presents guidelines for operators planning migration of PSTN/ISDN services to packet-based networks in the evolution to next-generation networks.

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Quality of service

Practical procedures for subjective testing
2011

This Handbook describes practical procedures to be used to quantify the perceived audio quality of end-to-end speech and audio communication systems.

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Outside plant

Preservation of Wooden Poles Carrying Overhead Telecommunication Lines
2009

Since the problems of preserving wood against biological agents depend on the region, they have to be studied mainly in a regional context by joint groups of technicians, producers and users of poles.

Protection of Telecommunication Buildings from Fire
2002

In a telephone building, the losses from damage caused by fire not only affect the persons and property directly involved in the calamity, but are felt throughout the population due to the effects of the service breakdown and the consequent loss of earnings from the service provider point of view. Moreover, the amount of information and services available to the customers is so high, nowadays, that equipment, buildings, infrastructures and installations need to be protected from damage due to calamities, including fire. This Handbook is specific to the prevention of damage and the protection of telecommunication buildings from fire.

Marinized Terrestrial Cables
2002

The use of underwater optical cables, considered as coming under the heading of terrestrial links, has dramatically increased in recent years. This Handbook describes the characteristics, including the installation methods and testing, of a particular type of underwater cable known as marinized terrestrial cable (MTC), which, based on a conventional multiple fibre terrestrial cable core, is protected to withstand the shallow water environment and designed for specific repeaterless applications.
Application of Computers and Microprocessors to the Construction, Installation and Protection of Telecommunication Cables

1999

The first edition of this Handbook was published in 1994. Due to the rapid development of technologies, a second edition was considered useful to include new applications for computers and microprocessors, taking into account that many countries are adopting such devices and equipment. Outside plant occupies a wide area which requires a large amount of investment and a huge amount of work on design, construction, installation and protection, especially considering the new telecommunication services now available and the future role of access networks.

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Measurement Methods

Interference measuring techniques

2002

This Handbook contains information on EMC design of telecommunications equipment and discusses certain EMC test methods. Together with «Volume IX» of the «Directives», this Handbook provides comprehensive information on EMC and over-voltage testing and measurements.

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3.4 Proceedings

Proceedings of ITU Kaleidoscope 2017: Challenges for a data-driven society

2017

Data is becoming the key to smart governance, supporting the delivery of citizen-centric public services. Data-driven insight will enable efficiency gains in every industry sector. Advances in data science will continue to unlock major breakthroughs in research. We saw all of these possibilities in the papers presented at Kaleidoscope 2017: Challenges for a data-driven society. The Kaleidoscope 2017 Technical Programme Committee selected 23 papers from the 63 submissions received from 22 countries on the basis of double-blind reviews, with the help of almost 80 international experts. The conference encouraged the development of data-driven applications and services of benefit to society. It highlighted the importance of a shared, integrated data ecosystem in maximizing the collective benefits to be drawn from our fast-growing wealth of data. The Kaleidoscope Conference Proceedings from 2009 onwards can be downloaded free of charge from http://itu-kaleidoscope.org

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# Proceedings of ITU Kaleidoscope 2016: ICTs for a Sustainable World

These Proceedings contain all the papers accepted for the conference ITU Kaleidoscope 2016: "ICTs for a Sustainable World" - Bangkok, Thailand, 14-16 November 2016. The aim of Kaleidoscope conferences is to identify emerging developments in information and communication technologies (ICTs) and, in particular, areas in need of international standards to support the development of successful products and services. The papers at K-2016 presented research into ICT technical developments, innovative ICT applications and policy and regulatory considerations relevant to supporting the achievement of the United Nations Sustainable Development Goals (SDGs). The papers accepted for the conference were reviewed by a panel of over 130 subject matter experts from leading academic and research institutions worldwide.

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# Proceedings of ITU Kaleidoscope 2015: Trust in the Information Society

These Proceedings contain all the papers accepted for the conference ITU Kaleidoscope 2015: "Trust in the Information Society" - Barcelona, Spain, 9-11 December 2015. The aim of Kaleidoscope conferences is to identify emerging developments in information and communication technologies (ICTs) and, in particular, areas in need of international standards to support the development of successful products and services. The papers at K-2015 analyzed means of building information infrastructures deserving our trust. The event highlighted ideas and research that will help ensure the Information Society's growth in inclusivity and sustainability thanks to its trusted foundations. The papers accepted for the conference were reviewed by a panel of over 150 subject matter experts from leading academic and research institutions worldwide.

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# Proceedings of ITU Kaleidoscope 2014: Living in a converged world - Impossible without standards?

The Kaleidoscope 2014 conference - Living in a converged world - impossible without standards? - was the sixth in a series of peer-reviewed academic conferences organized by the Telecommunication Standardization Sector of the International Telecommunication Union (ITU-T) with the technical co-sponsorship of the IEEE Communications Society, the Institute of Electronics, Information and Communication Engineers (IEICE) of Japan, and the Popov Society of the Russian Federation. These papers at K-2014 focused on innovative approaches to research on the role of ICT standardization in today's global economy characterized by accelerating convergence of industry sectors and technologies. These conference proceedings include the full text of papers accepted for lecture and poster presentations (after a double-blind review by a panel of over 100 subject matters), as well as three invited papers and a summary of the keynote speeches. The 37 papers reproduced here should provide readers with valuable information relating to this essential field of studies. www.itu-kaleidoscope.org/2014

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Proceedings of ITU Kaleidoscope 2013: Building Sustainable Communities - Kyoto, Japan, 22-24 April 2013

2013

The Kaleidoscope 2013 conference - Building Sustainable Communities - was the fifth in a series of peer-reviewed academic conferences organized by the Telecommunication Standardization Sector of the International Telecommunication Union (ITU-T) with the technical co-sponsorship of the IEEE Communications Society and the Institute of Electronics, Information and Communication Engineers of Japan (IEICE). These papers at K-2013 focused on multidisciplinary aspects of future ICTs including future services and applications demand as well as socio-economic, cultural, ethical, legal, and sustainable development policy aspects of communities of the future. These conference proceedings include the full text of papers accepted for lecture and poster presentations (after a double-blind review by a panel of over 140 subject matter experts), as well as three invited papers and a summary of the keynote speeches. The 33 papers reproduced here should provide readers with valuable information relating to this essential field of studies.


2011

The Kaleidoscope 2011 conference - The Fully Networked human? Innovations for future networks and services - was the forth in a series of peer-reviewed academic conferences organized by the Telecommunication Standardization Sector of the International Telecommunication Union (ITU-T) with the technical co-sponsorship of the IEEE Communications Society. These papers at K-2011 focused on multidisciplinary aspects of future ICTs including future services and applications demand as well as social, economic and policy aspects of human-centric systems. These conference proceedings include the full text of papers accepted for lecture and poster presentations (after a double-blind review by a panel of over 100 subject matter experts), as well as three invited papers and a summary of the keynote speeches. The 34 papers reproduced here should provide readers with valuable information relating to this essential field of studies.


2010

These Proceedings contain all the papers accepted for the ITU-T Kaleidoscope 2010 ?Beyond the Internet? - Innovations for future networks and services?, Pune, India, 13-15 December 2010. The ITU-T Kaleidoscope academic conferences aim at increasing the dialogue between experts working on the standardization of information and communications technologies (ICTs) and academia; by viewing technologies through a kaleidoscope, these forward-looking events also seek to identify new topics for standardization. The papers at K-2010 focused, from a wide perspective including both technological and socio-economic angles, on evolution of Internet technologies towards future networks and services. The papers accepted for the conference were reviewed by a panel of over 100 subject matter experts from leading academic and research institutions worldwide.
These Proceedings contain all the papers accepted for the 'ITU-T Innovations for digital inclusion' Kaleidoscope academic conference, Mar del Plata, Argentina, 31 August - 1 September 2009 - the second in a series organized by ITU-T. Technically co-sponsored by the IEEE Communications Society, the papers accepted for the conference were reviewed by a panel of over 90 subject matter experts to ensure high technical quality. The papers, coming from leading academic and research institutions all around the globe, analyse technologies, services and applications five years and beyond that will capitalize on NGN infrastructure and promote digital inclusion. The papers also cover multidisciplinary aspects, including regulatory and societal challenges as well as analysis of standardization needed. Invited papers also provide a broad perspective on the theme.

3.5 Test charts

Test Chart No. 4: Black and white facsimile test chart BW01 - (ITU-T Recommendation T.22) (03/93)

302 × 222 mm high contrast bi-level chart containing text in a variety of languages and pitches and various black and white patterns.
3.6 General

ITU-T Standardization: Committed to connecting the world
2014

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Test Chart No. 5: Continuous tone facsimile test chart CT01 (ITU-T Recommendation T.22) (03/93)
279 × 216 mm gray scale chart containing several strips and patches of various gray scale levels, and two photographs.

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Test Chart No. 6: 4-colour printing facsimile test chart 4CP01 (ITU-T Recommendation T.23) (04/94)
302 × 222 mm full colour chart printed from 4-colour separation negatives, containing a complete range of patterns, textures, shadings and bright and pastel colours.

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4.1 General

**ITU-D Development: Committed to Connecting the World**
2011

This Handbook provides guidance on the key aspects to be taken into account when designing, implementing and improving a legal, regulatory and policy framework on ICT/e-waste. The proposed framework is intended to facilitate the management of ICT/e-waste based on the concepts of sustainable development, green ICT and the circular economy. Freely available for download in various formats, as noted below.

**Handbook for the development of a policy framework on ICT/E-WASTE**
2018

This Handbook provides guidance on the key aspects to be taken into account when designing, implementing and improving a legal, regulatory and policy framework on ICT/e-waste. The proposed framework is intended to facilitate the management of ICT/e-waste based on the concepts of sustainable development, green ICT and the circular economy. Freely available for download in various formats, as noted below.

**ICT4SDGs: ICT-centric economic growth, innovation and job creation**
2017

The Sustainable Development Goals (SDGs) embody a universally shared vision of progress towards a safe, just and sustainable space for all human beings. The book, "ICT-centric economic growth, innovation and job creation", written by leading scholars and experts from around the world, aims to address the challenges and opportunities offered by ICTs in the areas of innovation, governance, education, job creation and economic growth. The book was launched at a Ministerial Roundtable on ICT4SDGs organized to celebrate the 25th Anniversary of the ITU Telecommunication Development Sector (ITU-D) on 11 October 2017 in Buenos Aires, Argentina. See a short introductory video on this ITU Publication from this link and order your hard-copies, now available, below.
ICT for Energy - Telecommunications and energy working for sustainable development
2018

This report increases understanding of the interplay between actors, business models, services, and products of both ICT and energy sectors and sheds light on the importance of policy interventions to optimise resources and build sustainable synergies.

4.2 Statistics and Indicators

ITU hosts the world's most comprehensive collection of ICT data and statistics. It collects, harmonizes and disseminates more than 100 telecommunication and ICT indicators from over 200 economies around the world. ITU regularly publishes analytical reports illustrating the latest trends in the global telecommunication sector. These reports and databases are available online.

Measuring the Information Society Report
2018

The 10th edition of the Measuring the Information Society Report, an annual report published by ITU since 2009, features key ICT data and benchmarking tools to measure the information society. The report presents a quantitative analysis of the information society and highlights new and emerging trends and measurement issues. The 2018 report presents the current state of ICTs using data collected by ITU from its Member States and also feature chapters on ICT skills for the future, revenue and investment in the telecommunication sector and ICT prices. The report once again includes in Volume 2 individual country profiles providing a snapshot of the latest ICT landscape and efforts made to increase ICT access and use. The analytical report is complemented by a series of statistical tables providing country-level data for the indicators included in the ITU ICT Price Basket. Exceptionally, the pdf formats of Volumes 1 and 2 are now available free of charge via the BDT statistical pages Link. Other versions can be purchased below, including the complete zipped set of Volume 1 and Volume 2. Pre-orders for the hard-copy English set of V1/V2 now accepted. For clarification, please contact ITU Sales.

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4. The 9th edition of the Measuring the Information Society Report, an annual report published by ITU since 2009, features key ICT data and benchmarking tools to measure the information society, including the ICT Development Index (IDI). The report presents a quantitative analysis of the information society and highlights new and emerging trends and measurement issues. The MISR 2017 assesses IDI findings at the global and regional levels and highlights countries that rank at the top of the IDI, as well as those that have improved overall IDI rankings and values most dynamically since IDI 2016. It also uses the findings of the IDI to analyze trends and developments in the digital divide. For the first time the report includes individual country profiles, providing a snapshot of the latest ICT landscape and efforts made to increase ICT access and use.

The analytical report is complemented by a series of statistical tables providing country-level data for the indicators included in the IDI. Exceptionally for this edition, the pdf format is available free of charge via the BDT statistical pages on this link. Other versions can be purchased below. For more information, please contact ITU Sales.

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**Measuring the Information Society Report 2017**

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**Measuring the Information Society Report 2016**

The Measuring the Information Society Report, which has been published annually since 2009, features key ICT data and benchmarking tools to measure the information society, including the ICT Development Index (IDI). The IDI 2016 captures the level of ICT developments in 175 economies worldwide and compares progress made since the year 2014. The MISR 2016 assesses IDI findings at the regional level and highlights countries that rank at the top of the IDI and those that have improved their position in the overall IDI rankings most dynamically since 2014. It also uses the findings of the IDI to analyze trends and developments in the digital divide. The report presents 2015 prices for about 160 countries and provide a detailed analysis of mobile-cellular, fixed-broadband and mobile-broadband prices over the period 2008-2015. It highlights the role of ICTs in achieving the Sustainable Development Goals and present the newly agreed SDG indicator framework, including the ICT indicators. The report also includes a chapter looking into new metrics to measure mobile uptake, and a chapter presenting data analyzing Internet use and uptake.

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**Measuring the Information Society Report 2016**

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Measuring the Information Society 2015

The Measuring the Information Society Report (MISR), which has been published annually since 2009, features key ICT data and benchmarking tools to measure the information society, including the ICT Development Index (IDI). The IDI 2015 captures the level of ICT developments in 167 economies worldwide and compares progress made since the year 2010. The MISR 2015 assesses IDI findings at the regional level and highlights countries that rank at the top of the IDI and those that have improved their position in the overall IDI rankings most dynamically since 2010. The report will feature a review and quantitative assessment of the global ITU goals and targets agreed upon at PP-14 and included in the Connect 2020 Agenda. In addition, the MISR will show the results of the ICT Price Basket (IPB) and present and analyse fixed- and mobile-broadband price data for around 180 economies. The report also includes a chapter looking into recent developments of the Internet of Things (IoT).

Measuring the Information Society 2014

The MIS Report, which has been published annually since 2009, features key ICT data and benchmarking tools to measure the information society, including the ICT Development Index (IDI). The IDI captures the level of ICT developments in 166 economies worldwide and compares progress made during the last year. The MIS 2014 highlights the relationship between ICT development (as measured by the IDI) and the MDGs, a contribution to the ongoing discussions on the potential of ICTs as development enablers. The report includes the results of the ICT Price Basket (IPB) and new mobile-broadband price data for over 140 economies. Price data are analysed to provide insights into the relationship between affordability and income inequality, competition and regulation. The report also looks at new ICT data sources for measurement and examines the possible role of ICT big data for monitoring and development.

Measuring the Information Society 2013

The ITU Measuring the Information Society (MIS) Report, which has been published annually since 2009, features two benchmarking tools to measure the information society: the ICT Development Index (IDI) and the ICT Price Basket (IPB). The IDI captures the level of ICT developments in 157 economies worldwide and compares progress made during the last year. The IPB combines the consumer prices for (fixed and mobile) telephone and Internet broadband services for 161 economies into one measure and compares these across countries, and over time.
The 2011 edition of Measuring the Information Society features two benchmarking tools to measure the information society: the ICT Development Index (IDI) and the ICT Price Basket (IPB). The IDI captures the level of ICT developments in around 150 economies worldwide and compares progress made during the past two years. The IPB combines fixed telephone, mobile cellular and fixed broadband tariffs for around 160 economies into one measure and compares these across countries and over time. The Report also presents the latest global market trends, takes a closer look at fixed and mobile broadband developments and analyses the digital divide among Internet users. The analytical report is complemented by a series of statistical tables providing country-level data for the indicators included in the two indices. Order below the full report, which includes Annex 5’s tariff data, not otherwise available.

The 2010 edition of Measuring the Information Society features the latest ITU ICT Development Index (IDI), which captures the level of advancement of ICTs in more than 150 countries worldwide and compares progress made between 2002, 2007 and 2008. It also measures the global digital divide and examines how it has developed in recent years, and it discusses the impact of ICTs on socio-economic development. The report also features the ICT Price Basket, which combines fixed, mobile and broadband tariffs one measure and compares 2008 and 2009 data across countries. The analytical report is complemented by a series of statistical tables providing country-level data for the indicators included in the IDI and Price Basket. Please note that ITU also grants free online access to the electronic (Adobe® PDF) version of “Measuring the Information Society 2010” (excluding Annex 4).

The World Telecommunication/ICT Indicators database on USB Key and online contains time series data for the years 1960, 1965, 1970 and annually from 1975 to 2018 for more than 180 telecommunication/ICT statistics covering fixed-telephone networks, mobile-cellular telephone subscriptions, quality of service, Internet (including fixed- and mobile-broadband subscription data), traffic, staff, prices, revenue, investment and statistics on ICT access and use by households and individuals. Selected demographic, macroeconomic and broadcasting statistics are also included. For the June release, data for 2018 are available for selected indicators such as fixed-telephone subscriptions, mobile-cellular telephone subscriptions, international Internet bandwidth, fixed (wired)-broadband subscriptions and percentage of individuals using the Internet. Data for over 200 economies are available. Dec 2019 edition of USB key, with more 2018 data, is now available for purchase. Next edition (June 2020) is to be released in July 2020, and will include preliminary 2019 statistics.
World Telecommunication/ICT Indicators Database USB Key
22nd Edition, 2018

The World Telecommunication/ICT Indicators database on USB Key and online contains time series data for the years 1960, 1965, 1970 and annually from 1975 to 2017 for more than 180 telecommunication/ICT statistics covering fixed-telephone networks, mobile-cellular telephone subscriptions, quality of service, Internet (including fixed- and mobile-broadband subscription data), traffic, staff, prices, revenue, investment and statistics on ICT access and use by households and individuals. Selected demographic, macroeconomic and broadcasting statistics are also included. For the June release, data for 2017 are available for selected indicators such as fixed-telephone subscriptions, mobile-cellular telephone subscriptions, international Internet bandwidth, fixed (wired)-broadband subscriptions and percentage of individuals using the Internet. Data for over 200 economies are available. Dec 2018 Database on USB key, now available.

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World Telecommunication/ICT Indicators Database USB Key

The World Telecommunication/ICT Indicators database on USB Key (new edition, every 6 months) contains time series data for the years 1960, 1965, 1970 and annually from 1975 to 2016 for more than 180 telecommunication/ICT statistics covering fixed-telephone networks, mobile-cellular telephone subscriptions, quality of service, Internet (including fixed- and mobile-broadband subscription data), traffic, staff, prices, revenue, investment and statistics on ICT access and use by households and individuals. Selected demographic, macroeconomic and broadcasting statistics are also included. The December 2017 version is now available. Please notice that a reduced rate is provided when purchasing any two consecutive editions of the USB key. For more information on either of these, please contact ITU Sales or see the Publication Notice below.

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Yearbook of Statistics - Telecommunication/ICT Indicators - 2009-2018
2019

This is the 45th edition of the Yearbook of Statistics. The data included in the Yearbook have been collected and processed by the Telecommunication Development Bureau (BDT) from replies received to ITU questionnaires sent to telecommunication ministries or regulators and national statistics offices. As such, the ITU Yearbook of Statistics provides the most authoritative source of data about the evolution of the telecommunication sector, the availability of ICTs in households and usage of ICTs by individuals. As per Council 2017, the pdf version is available free of charge to Member States from a protected link via secured Member States TIES access. For more information, please contact ITU Sales.

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**Yearbook of Statistics - Telecommunication/ICT Indicators - 2007-2016**

2017

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**Yearbook of Statistics - Telecommunication/ICT Indicators - 2006-2015**

2016

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**Yearbook of Statistics - Telecommunication/ICT Indicators - 2005-2014**

2015

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**Yearbook of Statistics - Telecommunication/ICT Indicators - 2004-2013**

2014

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This is the 40th edition of the Yearbook of Statistics. The data included in the Yearbook have been collected and processed by the Telecommunication Development Bureau (BDT) from replies received to ITU questionnaires sent to telecommunication ministries or regulators and national statistics offices. As such, the ITU Yearbook of Statistics provides the most authoritative source of data about the evolution of the telecommunication sector, the availability of ICTs in households and usage of ICTs by individuals.

Yearbook of Statistics - Telecommunication/ICT Indicators - 2004-2013
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2013

Yearbook of Statistics - Telecommunication/ICT Indicators - 2002-2011
2012
### Yearbook of Statistics - Telecommunication/ICT Indicators 2001-2010

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**2010**

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**2009**

This is the 35th edition of the Yearbook of Statistics. The data included in the Yearbook have been collected and processed by the Telecommunication Development Bureau (BDT) from replies received to ITU questionnaires sent to telecommunication ministries or regulators and national statistics offices. As such, the ITU Yearbook of Statistics provides the most authoritative source of data about the evolution of the telecommunication sector, the availability of ICTs in households and usage of ICTs by individuals.

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### African Telecommunication/ICT Indicators 2008: At a crossroads
2008

Prepared for Africa TELECOM 2008 (Cairo, Egypt, 12-15 May 2008), this report is an indispensable reference book of telecommunication facts and figures for the region. The publication provides an overview of market trends, including in the area of fixed, mobile and Internet services. It looks at the availability of ICTs in households and highlights the importance of community access to ICTs. It further looks at the role of different factors that will be crucial in connecting Africa, including regulation and taxes schemes in telecommunications/ICTs. The report includes some 20 regional tables covering key telecommunication/ICT indicators, 55 individual country pages with a five year profile from 2002-2006, and a directory with names of telecommunication ministries, regulators and operators in the region.

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### Asia-Pacific Telecommunication/ICT Indicators 2008: Broadband in Asia-Pacific: too much, too little ?
2008

Prepared for ITU TELECOM ASIA 2008 (Bangkok, Thailand, 2-5 September 2008), this report is an indispensable reference book of telecommunication/ICT facts and figures for the region. The publication provides an overview of recent market trends, including in the area of fixed, mobile and Internet services. It focuses on broadband developments in the region, including in terms of policies, technologies, competition, access, pricing and applications. The report highlights government policies in the area of broadband that may serve as best practice examples but also looks at and analyzes the region's broadband digital divide and makes a number of conclusions and recommendations. The report includes some 20 regional tables covering key telecommunication/ICT indicators, over 40 individual country pages with a five year profile from 2002 to 2007, and a directory with names of telecommunication ministries, regulators and operators in the region.

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### Americas Telecommunication Indicators
2005

The 2005 edition of ITU?s Americas Telecommunication Indicators has been prepared especially for ITU TELECOM AMERICAS 2005 (Salvador da Bahia, Brazil, 3-6 October 2005). The publication consists of three parts: an analytical overview, regional and country statistics and a directory of telecommunication organizations. An overview of the region?s telecommunication sector is the subject of the analytical overview. The statistical section consists of regional indicator tables covering areas such as fixed telephone, mobile, Internet and broadcasting data. Data are for year-end 2003 or 2004, where available. The directory section consists of the names and websites of telecommunication ministries, regulators and facilities-based telephone and cellular operators active in the region.

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The ITU New Initiatives Programme: Internet Diffusion in South East Asia

2002

The CD-ROM contains a series of ITU Internet case studies carried out in South East Asia in 2001, as well as presentations and documents from the workshop "The Internet in South East Asia?, which was held in Bangkok, Thailand, in November 2001. The CD-ROM comes with a colour brochure that includes a summary of the workshop and a brief overview of the case studies.

Direction of Traffic: Trading Telecom Minutes

1999

The third edition of the authoritative ITU/TeleGeography Inc. "Direction of Traffic" publication focuses on the transition in international telecommunication traffic away from the bilateral regime, based on accounting rates, to a new, multilateral, trade-based regime. Specifically, the report looks at the impact that the changing telecommunication environment will have on developing countries.

The Little Data Book on Information and Communication Technology

2016

The Little Data Book on Information and Communication Technology 2017 presents tables for over 217 economies around the world. It provides comparable data for 2005 and 2015 on key ICT indicators covering the economic and social context, the structure of the information and communication technology sector, sector efficiency and capacity, and sector performance related to access, usage, quality, affordability, trade, and applications. The glossary contains definitions of the terms used in the tables.
4.3 Study Groups

ITU-D study groups develop reports, guidelines and recommendations, based on study Questions approved by world telecommunication development conferences. Information is gathered through surveys, contributions and case studies. ITU-D study group publications are available, free of charge, on the ITU website.

Question 1/1: Policy, regulatory and technical aspects of the migration from existing networks to broadband networks in developing countries, including next-generation networks, m-services, OTT services and the implementation of IPv6

This report examines policy, regulatory, operational, and technical issues associated with the transition from narrowband to broadband networks. The report covers country experiences and best practice guidelines to promote affordable broadband networks, services, and applications, including those that stimulate demand for broadband such as e-education, e-health, m-banking, m-commerce, mobile money transfer, and over-the-top services (OTT).

Question 3/1: Access to cloud computing: challenges and opportunities for developing countries

This report presents an introduction to Cloud computing, with internationally adopted definitions, and additional clarifications from real life experience. The driving forces behind Cloud computing and data with regards to the state of the business, opportunities and challenges for Cloud adoption are shared in the report together with guidance on Cloud computing policy making.
This report takes stock of different cost models and new methods of charging telecommunication/ICT services in a Next Generation Network (NGN) environment. While services have become more affordable, prices could come down further given the cost reductions associated with provision of these services in an NGN environment. What are the factors preventing this from happening now? The report shares some guidelines on how to promote infrastructure sharing, how to encourage price/tariff reduction to consumers through competition and how access to and use of telecommunication/ICT services can be further stimulated.

Question 4/1: Economic policies and methods of determining the costs of services related to national telecommunication/ICT networks including next-generation networks

This report discusses the implementation of cost-effective and sustainable telecommunication/ICT infrastructure in rural and remote areas. The report highlights various challenges that constitute the development of telecommunications/ICTs in rural and remote areas, especially in the context of developing countries, and provides examples of dedicated policies, initiatives and government subsidies that are implemented in countries around the world.

Question 5/1: Telecommunications/ICTs for rural and remote areas

Considering the importance of consumer information, protection and rights, this report provides readers with some useful guidelines both for market players and for policy makers and regulators.

Question 6/1: Consumer information, protection and rights: Laws, regulation, economic bases, consumer networks

Many countries have already started fostering ICT accessibility in their countries by creating ICT accessibility policy frameworks on public ICT access, mobile communications, TV/video programming, public procurement of accessible ICT and accessible government websites. This report presents good practices, outlines challenges, and proposes recommendations and guidelines based on country experiences.
Question 8/1: Examination of strategies and methods of migration from analogue to digital terrestrial broadcasting and implementation of new services

2017

This report discusses best practices for the transition from analogue to digital television and shares communication strategies to accelerate the process of public awareness about digital broadcasting, spectrum issues related to the Analogue Switch-Off (ASO), and the use of the released spectrum (Digital Dividend) to implement new services and applications.

Study Group 2

Question 1/2: Creating the smart society: Social and economic development through ICT applications

2017

This report looks closer at how information and communication technology (ICT) can be utilized to create a fully inclusive Smart Society. It provides case studies of the Smart Society in the field of health, learning, energy, agriculture, resource management - water and waste, commerce, and smart transport networks and road safety.

Question 2/2: Information and telecommunications/ICTs for e-health

2017

This report defines eHealth and its applications for developing countries and highlights case studies on eHealth services and systems from more than 40 countries, as well as eHealth ecosystem and standards - both technical and for service quality.
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**Question 18-1/2** – Implementation aspects of IMT 2000 and information-sharing on systems beyond IMT 2000 for developing countries

**2010**

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**Question 22/2** – Utilization of ICT for disaster management, resources, and active and passive space-based sensing systems as they apply to disaster and emergency relief situations

**2010 - Final Report**

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**Question 22/2** – Utilization of ICT for disaster management, resources, and active and passive space-based sensing systems as they apply to disaster and emergency relief situations – Guidelines on the Common Alerting Protocol (CAP)

**2010**

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Study Group 2

ITU-D Reports on Questions and Recommendations - Study Groups 1 and 2
2002 - (SG1 / SG2)

The ITU-D Study Groups were set up in accordance with Resolutions 2 of World Telecommunication Development Conference (WTDC) held in Buenos Aires, Argentina, in 1994. For the period 1998-2002, Study Group 1 is entrusted with the study of eleven Questions in the field of telecommunication development strategies and policies. Study Group 2 is entrusted with the study of seven Questions in the field of development and management of telecommunication services and networks. For this period, in order to respond as quickly as possible to the concerns of developing countries, instead of being approved during the WTDC, the output of each Question is published as and when it is ready.

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ITU-D Reports on Questions and Recommendations - Study Groups 1 and 2
1998 - (SG1 / SG2)

The ITU-D Study Groups were set up in accordance with Resolution 2 of WTDC-94 (Buenos Aires, March 1994). For the period 1994-1998, Study Group 1 was entrusted with the study of five Questions in the field of telecommunication development strategies and policies, and Study Group 2 was entrusted with the study of eight Questions on more technical matters. The actual work began in 1995 and resulted in a series of twelve Recommendations, which were approved at WTDC-98 (Valletta, March 1998). Complete collection.

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Towards Universal Access: Strategic Approaches in Four Developing Countries
2002

This publication reports the results of the project ‘Advancement of National Policies for Universal Access’. This project was undertaken in the framework of the Memorandum of Understanding between CIDA and ITU. Bolivia, Burkina Faso, Malawi and Nepal participated in the project.

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More than 2.5 billion people (over 40% of the planet’s population) live in rural and remote areas of developing countries. Of the small fraction that has any access to telecommunications, voice telephony has been the main service provided. But today, interactive multimedia services, such as e-mail, tele-education and telemedicine, are just as important as voice connectivity. This report looks at technological developments that have the potential to support interactive multimedia services in rural and remote areas.
### 4.4 Conference Publications

#### World Telecommunication Development Conference (WTDC-17): Final Report

2017

The World Telecommunication Development Conference (WTDC-17) Final Report contains the contribution to the ITU Strategic Plan for the Telecommunication Development Sector, focusing on programmes, regional initiatives, and the resolutions approved by the Conference directed towards the purposes and objectives of the ITU Telecommunication Development Sector for the four-year period 2019-2022.

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#### World Telecommunication Development Conference (WTDC-14): Final Report

2014

The sixth World Telecommunication Development Conference (WTDC-14) took place in Dubai from 30 March to 14 April 2014. The Final Report contains the Dubai Declaration, the Conference’s contribution to the ITU Strategic Plan for the Telecommunication Development Sector, the Dubai Action Plan (DuAP) focusing on the programmes and regional initiatives, and the resolutions approved by the Conference directed towards the purposes and objectives of the ITU Telecommunication Development Sector for the four-year period 2015-2018.

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Free
The fifth World Telecommunication Development Conference (WTDC-10) took place in Hyderabad (India) from 24 May to 4 June 2010. The Final Report contains the Hyderabad Declaration, the Conference’s contribution to the ITU Strategic Plan for the Telecommunication Development Sector, the Hyderabad Action Plan (HAP) focusing on the programmes and regional initiatives, and the resolutions approved by the Conference directed towards the purposes and objectives of the ITU Telecommunication Development Sector for the four-year period 2011-2014.

### World Telecommunication Development Conference (WTDC-10): Final Report
**Hyderabad, 2010**

The fourth World Telecommunication Development Conference (WTDC-06) took place in Doha (Qatar) from 7 to 15 March 2006. The Final Report contains the Doha Declaration, the Conference’s contribution to the ITU Strategic Plan for the Telecommunication Development Sector, the Doha Action Plan (DAP) focusing on the programmes, activities, regional initiatives, the resolutions approved and the recommendations made by the Conference directed towards the purposes and objectives of the ITU Telecommunication Development Sector for the four-year period 2007-2010.

### World Telecommunication Development Conference (WTDC-06): Final Report
**Doha, 2006**

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World Telecommunication Development Conference (WTDC-02): Final Report
Istanbul, 2002

The third World Telecommunication Development Conference (WTDC-02) took place in Istanbul (Turkey) from 18 to 27 March 2002. The Final Report contains the Istanbul Declaration, the Strategic Plan of the Telecommunications Development Sector, the Istanbul Action Plan (ISAP) focusing on the programmes, activities, special initiatives, resolutions approved and recommendations made by the conference directed towards the purposes and objectives of the ITU Telecommunications Development Sector for the four-year period 2003-2006, and the detailed programme of the conference as well as miscellaneous appendices containing the speeches, the abbreviations and acronyms, the list of documents submitted to the conference and the list of participants.

4.5 Least Developed Countries

Small Island Developing States (SIDS) and ICT: Mid-term review of the Samoa pathway
2019

This document reviews progress in access to affordable and modern digital technologies since the 2014 Samoa conference on SIDS. It was prepared as an input document to the September 2019 high-level meeting to review progress made in addressing the priorities of SIDS through implementation of the SIDS Accelerated Modalities of Action (SAMOA) Pathway. It provides examples to demonstrate progress made, showing how SIDS are using ICTs to help drive sustainable development, and includes a framework for tracking progress towards a universal and affordable Internet.

Economic impact of broadband in LDCs, LLDCs and SIDS - An empirical study
2019

This empirical study examines the economic impact of fixed and mobile broadband in the least developed countries (LDCs), landlocked developing countries (LLDCs) and small island developing states (SIDS).
ICTs, LDCs and the SDGs - Achieving universal and affordable Internet in the least developed countries
2018

ITU, in its continued support of developing capacity building in the African Continent, sponsored the Human Resources Benchmarking study for telecommunications organizations in English-speaking Countries in Africa. The findings of this study are expressed in this report.

4.6 Handbooks
Emergency telecommunications table-top simulation guide
2020
Compendium of ITU’s Work on Emergency Telecommunications
2007

This publication presents, for the first time under one cover, the work being done by ITU’s three Sectors (Radiocommunication, Standardization and Telecommunication Development) in the field of emergency telecommunications (or disaster communications). The release of this compendium is timely since disasters are striking with increased frequency and magnitude, resulting in unprecedented loss of human life, not to mention economic disruption and damage. The electronic versions are free of charge as of 2014.

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Emergency Telecommunications
2005

This Handbook on Emergency Telecommunications is written to serve as a close companion to those involved in the noble work of providing as well as using telecommunications for disaster mitigation and relief. It simplifies and demystifies the complex technical issues that characterize the fast evolving field of telecommunications, especially in this era of convergence and emergence of next-generation networks. While designed to be simple, the Handbook is comprehensive, compact and contains useful factual information that is concise and organized for easy access, in particular by practitioners.

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A Handbook on Internet Protocol (IP)-Based Networks and Related Topics and Issues

2005

The use of Internet Protocol (IP)-based technologies is now a strategic element in the design, development and use of telecommunication networks. Consequently, there is a growing interest in the policy and regulatory issues related to the growth of IP-based networks, such as the Internet, and their convergence with other networks. The ITU project team worked diligently to provide a factual, unbiased account of how IP-based networks, including the Internet, work today, as well as some of the key policy issues associated with the proliferation of these networks and services.

Training Development Guidelines

2001

This publication is intended primarily as a guide for course developers and adaptors in their efforts to carry out, monitor and follow up a training development project in a systematic manner. The approach used in the TDG is based on a systems approach model which considers each organization as a system.

GMPCS Reference book

1999

This first edition of the GMPCS Reference Book provides information on all aspects of GMPCS services, including reference materials, covering regulatory, technical, operational and commercial implications. Its specifically logical presentation aids the reader in discovering all there is to know about this new breakthrough which could be extremely beneficial to developing countries aiming at Universal Access.
ITU Guidelines for national emergency telecommunication plans

These guidelines assist national authorities and policymakers to develop a clear, flexible and user-friendly framework that guide countries on how to develop a strategic plan to support and enable the continued use of telecommunication and information and communication technology (ICT) networks and services in all four disaster management phases. It includes a step-by-step guide to the development of an NETP, it serves as a useful resource based on ITU recommendations and concepts, as well as expertise from other global bodies and organizations.

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### 4.7 E-Strategies

Sustainable Development Model (SSDM) Initiative. The advice of the Working Groups support the work of ITU by sharing recommendations within the framework of the SSDM Initiative.

This report provides concrete proposals and hands-on tools for those engaging in deploying rapid response emergency telecommunication for disaster relief, in terms of resource mobilization, training of volunteers and need regulatory measures and guidelines for the development and the smooth trans-border movement of telecommunications equipment in time of emergencies.

Digital transformation and the role of enterprise architecture

2019

Digital Transformation is becoming increasingly a focus of strategic thinking and planning of many public and private organizations. It is about putting the emphasis on how digital services and applications will change and transform citizen’s experience and the way we do business in a way that will lead to improvement in quality of life and wellbeing and the attainment of Sustainable Development Goals (SDG). This publication provides an introduction on how digital services and applications are to be shaped and delivered to induce this transformation for government public services and other sectoral areas and the central role of enterprise architecture to reach this.

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Guide to developing a national cybersecurity strategy - Strategic engagement in cybersecurity

2018

Facilitated by ITU, twelve partners from the public and private sectors, academia and civil society share their experience, knowledge and expertise, providing an aggregated, harmonised set of principles on the development, establishment and implementation of national cybersecurity strategies. The guide’s objective is to instigate strategic thinking and help national leaders and policy-makers to develop, establish and implement national cybersecurity strategies world-wide.

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Global Cybersecurity Index
2018

The Global Cybersecurity Index (GCI) is a multi-stakeholder initiative to raise cybersecurity awareness and to measure the commitment of countries to cybersecurity and its wide field of application cutting across industries and sectors. Each country's level of development is analyzed within five categories: Legal Measures, Technical Measures, Organizational Measures, Capacity Building and Cooperation.

Be He@lthy Be Mobile - Personas Toolkit
2019

The Personas Toolkit provides guidance on how to use "personas" to design content and delivery mechanisms for mHealth programmes for NCD by keeping users at the core of the design process. Beneficiaries are the true experts, and our role as innovators is to facilitate the creation, adoption and scaling-up of mobile health services.

Digital Identity Roadmap Guide
2018

The Digital Identity Roadmap Guide is a comprehensive set of guidelines for identifying the main aspects that need to be addressed during the design, development and implementation of a National Digital Identity Framework. It is the result of a deeply collaborative multi-stakeholder effort aimed at strengthening the knowledge and expertise of professionals and policy makers working in the field digital identity and, more generally, the digitization of government services. Descriptions of the overarching principles that lay the foundations for designing, developing and implementing a National Digital Identity Framework are included in this guide, which also outlines four critical Focus Areas, lists the main critical success factors and the conflicting principles national leaders and policy makers should be aware of in making certain design decisions, and illustrates a step-by-step approach that could be adopted in managing the National Digital Identity Framework throughout its entire lifecycle. The guide is complemented by a comprehensive set of case studies from countries which have successfully set up National Digital Identity Systems using a range of different approaches, and provides a brief survey of the main technical standards available to date.
e-Agriculture in action: Drones in agriculture
2018

FAO and ITU, together with partners, have been working together in addressing some of the challenges faced in agriculture through the use of sustainable ICTs. One of the latest developments is the increase in the use of small, unmanned aerial vehicles (UAVs), commonly known as drones, for agriculture. Drones have a huge potential in agriculture in supporting evidence-based planning and in spatial data collection. Despite some inherent limitations, these tools and technologies can provide valuable data that can then be used to influence policies and decisions.
Improving the health of women and children is a global health imperative, reflected in two of the most compelling Millennium Development Goals which seek specifically to reduce maternal and infant deaths by 2015. This joint report by the World Health Organization (WHO) and the International Telecommunication Union (ITU), based on a 64-country survey, demonstrates - as never before in such detail - the vital role that information and communication technologies (ICTs) and particularly eHealth are playing today in helping achieve those targets. It demonstrates how, every day, eHealth is saving the lives of women, their babies and infants in some of the most vulnerable populations around the world, in a wide variety of innovative ways.

**National eHealth Strategy Toolkit**

2012

Worldwide, the application of information and communication technologies to support national health-care services is rapidly expanding and increasingly important. This is especially so at a time when all health systems face stringent economic challenges and greater demands to provide more and better care, especially to those most in need. The National eHealth Strategy Toolkit is an expert, practical guide that provides governments, their ministries and stakeholders with a solid foundation and method for the development and implementation of a national eHealth vision, action plan and monitoring framework. All countries, whatever their level of development, can adapt the Toolkit to suit their own circumstances. Representing one of the most significant collaborations in recent years between the World Health Organization and the International Telecommunication Union, the Toolkit is a landmark in understanding what eHealth is, what it can do, and why and how it should be applied to health care today.

**M-Government – Mobile Technologies for Responsive Governments and Connected Societies**

2011

This report aims to foster a better understanding of how to leverage the economic and social impacts of the use of mobile technologies and applications to enable ubiquitous governments, sustain public sector innovation and transform public service delivery. The report is a joint-product of the collaboration between the International Telecommunication Union (ITU), the Organisation for Economic Co-operation and Development (OECD) and the United Nations Department of Economic and Social Affairs (UNDESA).
Understanding cybercrime: Phenomena, challenges and legal response
2014

Cyberattacks are on the rise. The media constantly report about data breaches and increasingly sophisticated cybercrime. Even governments are affected. At the same time, it is obvious that technology alone cannot solve the problem. What can countries do? Which issues can be addressed by policies and legislation? How to draft a good law? The report assists countries in understanding what cybercrime is about, what the challenges are in fighting such crime and supports them in drafting policies and laws.

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M-Powering Development Initiative – Report 2018
2018

Mobile communications and technology are transforming the lives of millions, and increasingly represent an immense opportunity to transform the lives of billions more who today remain excluded from such an opportunity. This report documents the achievements of the three Working Groups of the m-Powering Development Initiative. In response to both the challenges and the opportunities from ICT contributions to political, social, economic and environmental development, the advice of the Working Groups support the work of ITU by sharing recommendations within the framework of the m-Powering Development Initiative.

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SDG Digital Investment Framework - A whole-of-Government Approach to Investing in Digital Technologies to Achieve the SDGs
2019

This paper sets out an SDG Digital Investment Framework which is intended to be the start of a new dialogue with the digital investment community, building on the global Call to Action 1 presented at the UN General Assembly in 2018. It encourages a whole-of-government approach and sets out to help governments address key strategic investment questions and choose effective, scalable technology-based solutions - and in particular help them to consider using ICT Building Blocks for economies of scale and maximum return on investment.

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E-Agriculture in action: Blockchain for agriculture - Opportunities and Challenges
2018
This publication aims to demystify the technology, provide some thoughts on the opportunities and challenges in implementing blockchain-based systems as well as document some case studies on the use of blockchain for agriculture.

Be He@lthy, Be Mobile – A handbook on how to implement mDiabetes
2016

Estudio sobre TIC y salud pública en América Latina: la perspectiva de e-salud y m-salud
2018
ITU is convinced of the usefulness of TIC to improve the quality of life around the world. In this study in the Americas, an analysis framework is applied to assess and present ehealth and mhealth experiences in Latin America that can enlight public policy development to learn from and apply them in other similar contexts.
## 4.8 Publications on ICT Regulation, Economics and Finance

### Trends in Telecommunication Reform Series

#### Trends in Telecommunication Reform 2016: Regulatory Incentives to Achieve Digital Opportunities

2016

The annual Trends in Telecommunication Reform publications are a key part of the dialogue with the world’s information and communications technology (ICT) policy-makers and regulators in an increasingly converged digital environment. Under the overarching theme “Regulatory incentives to achieve digital opportunities?”, the 16th edition of Trends explores topical issues regulators need to address to ensure that citizens can benefit from the social and economic opportunities brought about by the digital economy. For digital opportunities to fully materialize, an adaptive, consultative and innovative approach to ICT policy and regulation is more than ever necessary. The thematic chapters, drawing up from discussion papers presented at the 2015 ITU Global Symposium for Regulators, examine investment strategies to foster the deployment of broadband and access to the digital economy, network sharing and co-investment regulation, regulation and the Internet of Things (IoT), interoperability in the digital ecosystem and smart regulation to facilitate m-services and applications uptake and diffusion. For an exclusive Flipbook read-only preview of the complete publication, you are welcome to click here. No version 2017 is expected. Please see instead a new related ITU Publication (and potentially a new series) entitled Global ICT Outlook 2017.

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#### Trends in Telecommunication Reform 2015: Getting ready for the digital economy

2015

Under the overarching theme ‘Getting ready for the digital economy’, the 15th edition of Trends in Telecommunication Reform discusses changing ICT consumer behaviour, consumer empowerment and protection in the digital age. It further explores the opportunities and challenges of big data and what it means from a regulatory perspective; why competition matters. It also attempts to answer whether it is time to rethink spectrum licensing, how to monitor the implementation of broadband plans and what are the new business models driven by digital communications and services. As in previous editions, the publication will feature an in-depth analysis of current market and regulatory trends based on ITU data from one of the world’s most comprehensive data platforms, the ICT Eye. See Table of Contents and preview (English only) at: http://www.itu.int/en/publications/Documents/Trends2015-short-version_pass-e374681.pdf

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The annual Trends in Telecommunication Reform publications are a key part of the dialogue with the world's information and communications technology (ICT) policy-makers and regulators fostering economic and market growth while ensuring that all citizens safely benefit from the digital opportunities brought by the digital economy. This edition is exceptionally free of charge.

### Trends in Telecommunication Reform Special Edition - Fourth-generation regulation: Driving digital communications ahead
2014

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### Trends in Telecommunication Reform 2012: Smart Regulation for a Broadband World
2012

The annual Trends in Telecommunication Reform publications are a key part of the dialogue with the world's information and communications technology (ICT) policy-makers and regulators to ensure that all citizens can benefit from new applications, services and businesses opportunities brought by a broadband world.

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2010/2011

The annual 'Trends in Telecommunication Reform' publications are key part of ITU's effort to explore and amplify the wisdom of policy-makers and regulators in the ICT sector. The 11th edition will examine the challenges for regulators to stimulate nationwide broadband deployments through adaptive and targeted regulations and out-of-the-box tools, leading to a new ladder of regulation. With this regard, it is very important for regulators to understand the impact of broadband on and beyond the ICT sector as well as the driving forces of today's and tomorrow's ICT markets, notably the migration from analogue to digital terrestrial broadcasting and the allocation of the digital dividend. For markets to truly thrive, regulators need to prove successful in keeping up with the pace of convergence and integration of ubiquitous networks, in particular through adapting their institutional structure and mandate, adopting cutting-edge best practices and embracing new tools such as innovative dispute resolution techniques. The individual chapters will focus on salient issues such as the changing role of regulators in a digital world and their involvement in non-traditional areas of regulatory intervention, such as ICT climate change and cyberthreats. Last but not least, the Information Society is changing every aspect of our lives, whether in developing or developed countries and it is crucial to leverage the benefits it brings while mitigating the associated threats. What does it all mean for ICT users, but also for regulators and policy makers?

Trends in Telecommunication Reform 2009: Hands-on or hands-off?
Stimulating growth through effective ICT regulation
2009

The annual Trends in Telecommunication Reform publications are a key part of ITU's effort to explore and amplify the wisdom of policy-makers and regulators in the ICT sector. The 10th edition will look at the delicate balance that regulators need to strike in order to operate between the hands-on and the hands-off approach to regulation. This balance is required to meet the expectations of key ICT stakeholders and is critical to stimulating growth in a converged environment. The blurring of boundaries between the once separate telecoms, Internet, broadcasting and media worlds is bringing new players to the arena, driving new opportunities and challenges. At the same time, regulatory authorities more than ever have a key role to play in fostering a safe and healthy ICT sector while meeting social goals, especially in a time of economic and financial uncertainty.
Trends in Telecommunication Reform 2008: Six Degrees of Sharing
2008

Many developing countries are preparing for a second wave of regulatory reform designed to enable them to harness the promise of new technologies and participate fully in the information society. This report examines a range of innovative sharing strategies regulators can use to speed up the uptake of ICTs and promote widespread, affordable broadband access. This year’s Trends focuses on “Six Degrees of Sharing”, examining active and passive infrastructure sharing, open access to international capacity, business sharing, end-user sharing and regulatory sharing.

Trends in Telecommunication Reform 2007: The Road to Next-Generation Networks (NGN)
2007

The 8th edition of Trends in Telecommunication Reform will examine the regulatory challenges and opportunities of Next-Generation Networks (NGN). This report is designed to provide regulators and policy makers with an understanding of the emerging NGN world, with a special focus on developing countries. It will examine NGN technologies and their regulatory implications, fixed mobile convergence (FMC), universal access, interconnection—both domestic and international, consumer protection and an NGN enabling environment.
Trends in Telecommunication Reform 2006: Regulating in the broadband world
2006

The 7th edition of Trends in Telecommunication Reform examines the regulatory challenges and opportunities of enabling ICT development. The report provides regulators with tools they can use to promote effective and innovative development and use of ICTs in a competitive environment. This report provides an overview of developments in the ICT sector, specifically focusing on broadband, its advent, the technologies, the role of the regulator in broadband development, broadband spectrum management, voice over IP (VoIP) regulation, international efforts to combat spam (including a model law and enforceable code of conduct), and identifies best practices. The report is structured into eight chapters.

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Trends in Telecommunication Reform 2004: Licensing in an Era of Convergence
2004-2005

The sixth edition of Trends in Telecommunication Reform examines the various licensing options in the ICT sector to provide regulators with tools they can use to promote effective competition in a converging environment. The report provides an overview of licensing practices around the world and the rationale for licensing; identifies new trends such as unified licences; provides options; raises transition issues to be considered in moving from one regime to another; evaluates traditional licensing models; addresses scarce resources such as spectrum; and identifies best practices. The report is structured into eight chapters.

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The fifth edition of Trends in Telecommunication Reform explores the tools regulators can use to promote universal access/service. The report provides an overview of universal access/service, the role of sector reform, creation and operation of a universal service fund, the role of minimum subsidy auction, how consumer tariffs and interconnection rates affect the viability of rural universal access/service projects, public access strategies including telecentres, and how regulators can foster entrepreneurial solutions to rural access. The report is structured into eight chapters.

Trends in Telecommunication Reform 2003: Promoting Universal Access to ICTs - Practical tools for regulators

The fourth edition of Trends in Telecommunication Reform is dedicated to the theme of effective and independent regulation. Since the beginning of the 1990s, the number of regulatory institutions has increased from 13 to more than 110, with many of them having been created in the past five years. But merely creating a regulatory body without empowering it to be effective is not enough. The report looks at the need for regulators; the process of creating a regulator; definitions of independence; why effectiveness may be more important than independence; powers and functions of the regulator; transparency in the decision-making process; organizational structure and finance issues. It is structured into nine chapters.

Trends in Telecommunication Reform 2002: Effective Regulation

The third edition of Trends in Telecommunication Reform includes one chapter reviewing global trends in market reform, and seven chapters exploring the key regulatory issue of interconnection. The seven interconnection chapters cover the importance of interconnection, regulatory and technical issues, economic issues in interconnection, network unbundling, interconnection with mobile networks, Internet interconnection and international interconnection.
Trends in Telecommunication Reform: Country Profiles
2000
This CD-ROM provides key regulatory information for each ITU Member State (up to 2000). The information is accessible by country and by region. This interactive tool contains information on the institutional framework, regulatory and policy-making bodies and regulatory issues such as ownership, liberalization, licensing, universal service, and interconnection.

Trends in Telecommunication Reform "Convergence and Regulation"
1999

General Trends in Telecommunication Reform "Europe": Volume VI
Volume VI
The report provides a regulatory snapshot by country of the 53 Member States of the European region. The information is structured as follows: contact information for regulatory and policy-making bodies, legal instruments, institutional profile, regulatory issues, ownership, market status and future regulatory plans.

General Trends in Telecommunication Reform "Asia Pacific": Volume V
Volume V
The report provides a regulatory snapshot by country of the 38 Member States of the Asia Pacific region. The information is structured as follows: contact information for regulatory and policy-making bodies, legal instruments, institutional profile, regulatory issues, ownership, market status and future regulatory plans.
The report provides a regulatory snapshot by country of the Arab region. The information is structured as follows: contact information for regulatory and policy-making bodies, legal instruments, institutional profile, regulatory issues, ownership, market status and future regulatory plans.

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General Trends in Telecommunication Reform "Americas": Volume III

The report provides a regulatory snapshot by country of the Americas region. The information is structured as follows: contact information for regulatory and policy-making bodies, legal instruments, institutional profile, regulatory issues, ownership, market status and future regulatory plans.

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General Trends in Telecommunication Reform "Africa": Volume II

The report provides a regulatory snapshot by country of the African region. The information is structured as follows: contact information for regulatory and policy-making bodies, legal instruments, institutional profile, regulatory issues, ownership, market status and future regulatory plans.

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General Trends in Telecommunication Reform "World": Volume I

The report provides an overview of the telecommunication regulatory reforms and trends worldwide. Specific regulatory issues are analyzed and compared by region. This report comprises six chapters. The first chapter is dedicated to a general worldwide overview of regulatory trends. Chapters 2-6 address each region (Africa, Americas, Arab States, Asia-Pacific and Europe). All six chapters are focused on new legislation, the rise of regulatory agencies, ownership reforms, competition trends, regulatory matters and regional and international cooperation.

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Collection of General Trends in Telecommunication Reform

1998 - All volumes

These volumes, which are published separately, are organized by region and contain key regulatory information for each ITU Member State in Africa (Vol. II), the Americas (Vol. III), the Arab States (Vol. IV), Asia-Pacific (Vol. V), and Europe (Vol. VI). The information is structured as follows: contact information for regulatory and policy-making bodies, legal instruments, regulatory issues, ownership of the incumbent operator, the degree of liberalization in various market segments, and future regulatory plans. Special discount of 20% for the entire package: Volumes I-VI or Volumes II-VI (paper format only). Article: E: 13064 Vol. I - VI Price: 372 CHF Article: E: 13067 Vol. II - VI Price: 297 CHF

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Publications on Economics & Finance

Economic contribution of broadband, digitization and ICT regulation: Econometric modelling for Asia-Pacific

2019

ITU published the findings of a global study on the economic contribution of broadband, digitization and ICT regulation in September 2018. Following this report, The Economic contribution of broadband, digitization and ICT regulation: Econometric modelling for the Asia-Pacific region presents a set of econometric analyses that estimate the contribution of broadband and digital transformation on the economy, as well as the impact of ICT policy and regulations on the development of the digital economy in the Asia and Pacific region. The outcomes of this regional report may serve as key reference material to illustrate the impact of fixed and mobile broadband on the economy, where the regions stand in terms of digitization and the impact of digitization on GDP. This could assist countries in conceptualizing the process of launching evidence-based digital transformation strategies. It also provides evidence of the importance of regulatory and institutional variables in driving digital growth and further illustrates how broadband technologies combined with effective ICT regulation can positively impact the growth of national economies and prosperity.

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ITU published the findings of a global study on the economic contribution of broadband, digitization and ICT regulation in September 2018. Following this report, The Economic contribution of broadband, digitization and ICT regulation: Econometric modelling for Africa presents a set of econometric analyses that estimate the contribution of broadband and digital transformation on the economy, as well as the impact of ICT policy and regulations on the development of the digital economy in the Africa region. In addition, it provides substantial evidence on the impact of institutional and regulatory variables on the growth of the digital ecosystem. The outcomes of this regional report may serve as key reference material to illustrate the impact of fixed and mobile broadband on the economy, where the regions stand in terms of digitization and the impact of digitization on GDP. This could assist countries in conceptualizing the process of launching evidence-based digital transformation strategies.

Economic contribution of broadband, digitization and ICT regulation: Econometric modelling for Africa

This study focuses on the impact of broadband, digital transformation and policy and regulatory frameworks on the growth of markets for digital services in the Americas region. It provides evidence of the importance of regulatory and institutional variables in driving digital growth and further illustrates how broadband technologies combined with effective ICT regulation can positively impact the growth of national economies and prosperity.

Economic contribution of broadband, digitization and ICT regulation: Econometric modelling for the Americas

This report provides an overview of the development of the App Economy in Africa, as well as an assessment of the current state of regulation with emphasis on instances of successful collaborative regulation. It focuses on the actual and potential economic benefits and policy and regulatory settings of the App Economy. Country cases for Ghana and South Africa are included. Recommendations to policy makers and regulators are provided concerning tools for collaborative regulation that enhance consumer choice, promote affordable pricing and maintain a level playing field for all players. This publication is also available at the ITU Digital Ecosystem Portal.

The APP economy in Africa: economic benefits and regulatory directions
In the telecommunication industry, economic modelling techniques such as regression analysis, simulations and linear programming are powerful tools that can aid decision making for governments, regulatory authorities and telecommunication operators. Nevertheless, in many countries such techniques are often under-employed. The aim of this report is to describe the various economic modelling techniques and how they can be used to solve practical problems facing the telecommunication industry: for example how a proposed merger may affect competitive behaviour or how demand and profitability may be affected by a price change.

**COSITU Version 1.0 SP2 - Software for the Calculation of Costs, Tariffs and Rates for Telephone Services**

Cost-based pricing, in particular calculation of interconnection rates, has been one of the most high-profile challenges facing both operators and regulators. Negotiating tariffs or rates is a delicate matter, whether it is for a new operator entering a liberalized market or a regulator wishing to set affordable tariffs for national calls without compromising competitiveness among operators. Now, ITU’s Market, Economics and Finance Unit has released COSITU, a practical tool which automates the calculation of costs, taxes, tariffs and rates. This powerful tool will permit network operators, service providers, regulators and policy-makers in developing countries to efficiently calculate costs, taxes related to trade in international traffic (accounting, settlement and termination rates), interconnection rates between local operators and tariffs for national and international telephone services, both fixed and mobile. COSITU SP2 is a bilingual software package (software on CD-ROM + user manual: English/Spanish and English/French versions).
Investing in Telecommunications and ICTs in Developing Markets: Shifting the Paradigm
2003

Telecommunications and ICTs have become a key infrastructure necessary for human development. As the sector has transformed into one driven by commercial interest, one question begs to be answered: what actions can be taken to stimulate private investment in the sector, particularly in countries and regions where the opportunities are less obvious? This report provides insight into answers to this question by analysing trends, examining risk factors facing potential investors and by identifying specific investment opportunities in developing markets. Finally, the report makes specific recommendations to the various stakeholders on actions that can be taken to 'shift the paradigm' so that investment will be attracted to those markets most in need.

Trends in Economics and Finance Volume I: Cost, Tariff and Interconnection Rates - Calculation Methodology and Application to Case Studies
2001

This publication is aimed in particular at network operators and regulatory authorities in developing countries who do not have very detailed data at their disposal on their costs or on the development of prices in their market. The first part describes a model for the calculation of telephone service costs, tariffs and interconnection taxes. The second part shows how the application of this model in different situations (case studies) allows for the identification of national political demands concerning universal service obligations.

Telecommunication Policies for the Americas (The Blue Book)
2000

This second edition of the Blue Book is the result of continued coordination and collaboration between the ITU-D and CITEL (Inter-American Telecommunications Commission). The Blue Book has been updated to take into account the rapidly changing telecommunication environment. New aspects addressed in this edition include the Internet and WTO. The Blue Book is intended to provide countries of the region with appropriate guidance on telecommunication reforms and restructuring.
Telecommunication Policies for the Arab Region (The Arab Book)
2002
The Arab Book contains guidelines and recommendations for governments of the Arab region embarking on reform of their telecommunication sector. It was elaborated with the active participation of experts from the region’s administrations. This second edition acknowledges the important changes that have affected the sector since 1996, year of the publication of the first edition. Since that date, following Jordan’s example, eight other countries in the region have established a regulatory authority independent from the incumbent operator. Five of these countries have, in addition, introduced competition in an important segment of their telecommunication market. In addition to the themes presented in the previous edition, the reader will find a summary of the experience of Egypt, Jordan, Mauritania, Morocco and Sudan in the area of sector reform, and a new chapter devoted to recent development of the Internet.

The African Green Paper: Telecommunication Policies for Africa
1996
This publication is the result of collaboration among African experts since the first ITU African Regional Telecommunication Development Conference (1990). The African Green Paper explores specific themes related to the overall restructuring of the telecommunications sector. It comprises eight chapters and is intended to serve as a reference document for decision makers who are contemplating reform of the sector. It was formally approved at the second African Regional Telecommunication Development Conference (Abidjan, 1996).

Guide on Data Collection for the application of the COSITU model
2007
This data collection guide is a follow-up to the COSITU user manual. It provides a methodology to help telecommunication regulators and operators to efficiently calculate costs, taxes related to trade in international traffic, interconnection rates between local operators, and tariffs for national and international telephone services, both fixed and mobile, on the basis of a rigorous cost model.
ITU Thematic Reports

Digital identity in the ICT ecosystem: An overview
2018
This paper defines digital identity, provides an overview of the various types of digital identity systems, looks at different approaches taken and the range of challenges being faced, as well as opportunities that arise from using digital identity platforms.

Powering the digital economy: Regulatory approaches to securing consumer privacy, trust and security
2018
The report provides an outline of the value and the functioning of the digital economy, as well as requirements and considerations in terms of ICT and privacy regulation. It explores the issues of online privacy, trust and security, and how these influence and drive online data business models and data markets. It further examines the notion of trusted digital identity and what it means in terms of security by providing examples of digital identity systems.

Setting the scene for 5G: opportunities and challenges
2018
Prepared in collaboration with the ITU’s Standardization and Radiocommunication Bureaux, this report sets out the landscape for ICT policy-makers, national regulatory authorities (NRAs) and operators as the expectation of 5G technologies to transform citizens, businesses, governments and economies becomes a reality.
Ensuring quality of service (QoS) in this ever-changing environment is increasingly critical. A harmonized and common approach to regulating QoS would enable greater quality prospects irrespective of the locations of the consumer and service provider. This manual refers to different standards and regulatory practices from different regions and countries worldwide noting that each region and each country has its own specificities. It is intended to be used as a guiding tool for telecommunication national regulatory agencies (NRAs) or government ministries in charge of QoS and QoE (quality of experience) parameters and measurements as defined by ITU-T, as well as enforcement mechanisms. It further introduces more hands-on information regarding the QoS and QoE big picture, as well as outlining practical approaches in QoS regulation for telecommunication/ICT services.

Global ICT Regulatory Outlook 2018

The Global ICT Regulatory Outlook 2018 is the second edition of a landmark ITU series. The Outlook focuses on policy and regulatory trends in the ICT sector and brings together cutting-edge research on various topics. It also explores for the first time regulatory collaboration across the board. The report provides organic analysis based on home-grown data, expertise and analytics. The Global ICT Regulatory Outlook is targeted at a wide audience of ICT professionals, including ICT regulators and ministries, Chief Regulatory Officers, policy advisers and academia. The pdf version is now free of charge. New 2020 edition: mid-April 2020.

Global ICT Regulatory Outlook 2017

This Global ICT Regulatory Outlook 2017 is the first of an annual series of reports tracking market and regulatory trends in the information and communication technologies (ICT) sector and their implications across the economy. Understanding current trends and challenges across ICT markets and regulatory frameworks can help address the gaps and capitalize on unexplored opportunities. This report provides useful insights and a clear, evidence-based perspective to do that. This report is also a key resource on smart, inclusive and forward-looking ICT regulation. Its findings can provide useful guidance in reviewing and upgrading regulatory frameworks for the ICT sector as the basis for the digital economy today and for the future. The report reaches out to the regulatory community worldwide, policy-makers, industry and the ICT community in general. The pdf version is now free of charge. New 2020 edition: mid-April 2020.
Issues in Telecommunications Development Volume I: Finance and Trade

1998

This publication is intended to provide an annual review of various key issues in international telecommunications as examined by the International Telecommunication Union/Telecommunication Development Bureau - ITU/BDT. This year’s authors have focused on trade, partnership and financing within the context of restructuring and globalization.

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On behalf of the ITU, the Telecommunication Development Bureau has taken on the responsibility of assisting countries as they restructure their telecommunication sectors to meet the challenges of globalization and liberalization. Reports from Seminars/Workshops at which developing country representatives reviewed the moves towards international accounting rate reform and a number of papers dealing with cost calculation methodologies are in Part 1, and in Part 2 there are 11 Country Case Studies.

Issues in Telecommunications Development Volume II: Reforming the international accounting rate system Part I - Overview Part II - Case Studies

1999

During 1999, ITU’s Telecommunication Development Bureau continued to support developing countries’ efforts to review telecommunication costs and tariff reform. This addendum to the 1998 Review of Reforming the international accounting rate system contains the reports of the 1999 series of seminars and contributions from developing countries to the work of the Regional Tariff Groups and Study Group 3. These reports are complemented by three additional case studies.

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Reforming the international accounting rate system - 1999

2000
4.9 Publications on human and institutional capacity building and digital inclusion

Toolkit for safe listening devices and systems
2019

Capacity building in a Changing ICT Environment
2018
This annually released publication puts together scholarly articles with a focus on the human and institutional aspects of capacity building in the telecommunications/ICT sector. It covers a wide range of ICT topics that may affect people and their skills development. As the second issue in the series, the 2018 edition features contributions in an analytical, critical and conceptual approach from international experts on the subject of skills development in a digital era, with articles contributing to the ongoing discussions on how emerging technologies are transforming job markets, determining new skills sets requirements and driving the digital economy requirements for re-skilling.

Capacity building in a Changing ICT Environment
Edition 2017
The ITU online publication "Capacity Building in a Changing ICT Environment", which is released annually, puts together scholarly articles with a focus on the human and institutional aspects of capacity building in the telecommunications/ICT sector. It covers a wide range of ICT topics that may affect people and their skills development. The first issue of this publication focuses on mobile technologies for skills development and lifelong learning. It features the work of an international team of experts, tackling the issues in an analytical, critical and conceptual fashion. The articles in this issue explore the increasing power of mobile devices in bringing the benefits of ICTs to more people worldwide. They are a contribution to the current discussions on the educational applications of mobile technologies and their potential to enhance and facilitate lifelong learning and skills development.
4.10 Innovation

ICT-centric innovation ecosystem country review: Republic of Moldova

Moldova identifies itself among countries with a strong focus on enhancing the growth of the IT industry and positively expanding its potential. This report provides a snapshot of challenges and opportunities currently faced by stakeholders, and is complemented by seven key recommendations based on the needs analysis. These specific policies, programmes, or flagship projects recommendations will serve as a reference tool to help guide and support innovation with aim to make Moldova attractive as a potential hub for emerging technologies. These new approaches to policy-making became the basis for the new Strategy for fostering the digital innovation ecosystem currently being developed in the country.

Bridging the digital innovation divide: A toolkit for strengthening ICT centric ecosystems

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- [ ] Money order to ITU/UIT – Union internationale des télécommunications
- [ ] Bank transfer of: CHF to UBS Switzerland AG, IBAN: CH 06 0024 0240 0376 5565 0

<table>
<thead>
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<th>Card number</th>
<th>Eurocard/Mastercard</th>
<th>Visa</th>
<th>Expiry date</th>
<th>Security code</th>
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</table>

I confirm this order and accept the terms of the Licence Agreement and disclaimer of warranty, where applicable

Your order reference  
Date  
Signature

## Please send me

<table>
<thead>
<tr>
<th>Article number</th>
<th>Publication title</th>
<th>Language</th>
<th>Unit price</th>
<th>Quantity/number of users</th>
<th>Price multiplier</th>
<th>Total CHF</th>
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Subtotal  
TOTAL (with optional priority shipping charge. Please e-mail or fax for a price quote)
<table>
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Please note that orders cannot be taken over the telephone. They should be sent by telefax (+41 22 730 5194) or electronic mail (sales@itu.int)