



Global & Regional Platform for Cooperation - ITU & IPv6 -

APNIC 32
Busan, R.O.Korea
August 29 - September 1, 2011

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ITU Regional Office for Asia and the Pacific

ITU Global Structure & Functions

- Founded in 1865
- Leading UN Special Agency for ICTs
- HQs in Switzerland

- Three sectors (ITU-T, ITU-D, and ITU-R)
- 4 Regional Offices & 7 Area Offices
- 192 Member States; and 700 Sector Members

ITU-T

Efficient, right-time production of international telecommunication standards

ITU-D

Established to help spread equitable, sustainable and affordable access to ICT.



ITU-R

Managing the international radio-frequency spectrum and satellite orbit resources

ITU TELECOM

Brings together the top names from across the ICT industry & ministers and regulators for a major exhibition, a high-level forum & a host of other opportunities



“ITU – Among World’s Top Ten most Enduring Institutions”, [says Booz Allen](#)

Plenipotentiary Conference 2010

Resolutions: e.g.,

101: Internet Protocol-based networks

102 : ITU's role with regard to international public policy issues pertaining to the Internet and the management of Internet resources, including domain names and addresses

178: ITU's role in organizing the technical aspects of telecommunication networks to support the Internet

180: **Facilitating the transition from IPv4 to IPv6**

More

ITU and IPv6 (Resolution 180, PP 10)

- *to explore ways and means for greater collaboration and coordination between ITU and relevant organizations involved in the development of IP-based networks and the future Internet,*;
- *to step up the exchange of experiences and information with all stakeholders regarding the adoption of IPv6.....;*
- *to collaborate closely with the relevant international recognized partners, including the Internet community (e.g. regional Internet registries (RIRs), the Internet Engineering Task Force (IETF) and others), in order to encourage the deployment of IPv6 by raising awareness and through capacity building;*
- *to assist those Member States which, in accordance with the existing allocation policies, require support in the management and allocation of IPv6 resources, pursuant to relevant resolutions;*
- *that the IPv6 group undertake detailed studies of IP addresses allocation as requested by the Dedicated Group on Internet-related public policy issues, both for IPv4 addresses and for IPv6 addresses*



World Telecommunication Development Conference 2010 Resolutions 63:

*IP address allocation and encouraging the deployment
of IPv6 in the developing countries*

More

ITU-T : *Study Groups and IPv6*



Study Group 2

Operational aspects of service provision and telecommunications management

Study Group 3

Tariff and accounting principles including related telecommunication economic and policy issues

Study Group 13

Future networks including mobile and NGN

Study Group 16

Multimedia coding, systems and applications

IPv6 related ITU -T Recommendations

[Rec. ITU-T Y.2051](#) - General overview of IPv6-based NGN

[Rec. ITU-T Y.2052](#) - Framework of multi-homing in IPv6-based NGN

[Rec. ITU-T Y.2053](#) - Functional requirements for IPv6 migration in NGN

[Rec. ITU-T Y.2054](#) - Framework to support signaling for IPv6-based NGN

ITU IPv6 Group: More details available at <http://www.itu.int/net/ITU-T/ipv6/>

ITU Asia-Pacific



- **Regional Office** for Asia and the Pacific: Bangkok, Thailand
- **Area Office** for South East Asia: Jakarta, Indonesia
- The offices serve for 38 Member States and over 70 Sector Members

LDCs (14)

Afghanistan
 Bangladesh
 Bhutan
 Cambodia
 Lao, PDR
 Maldives
 Nepal
 Myanmar
 Timor Leste

Kiribati
 Samoa
 Solomon Is.
 Tuvalu
 Vanuatu

Fiji
 Marshall Islands
 Micronesia
 Nauru
 Tonga

SIDS (11)

Low-Income States (9)

D.P.R. Korea
 India
 Indonesia
 Mongolia
 Pakistan
 Philippines
 Sri Lanka
 Vietnam

The Rest (10)

Australia
 Brunei
 China/Hong Kong
 Iran
 Japan
 Malaysia
 New Zealand
 R.O. Korea
 Singapore
 Thailand

ITU-D Sector & Associate Members: Asia-Pacific Region



1. Afghanistan Information Management Services (AIMS) - Afghanistan
2. Afghan Wireless Communication Co.- Afghanistan
3. Asia Pacific Network Information Centre - Australia
4. Robi Axiata Limited - Bangladesh
5. Grameenphone (GP) Limited - Bangladesh
6. Orascom Telecom Bangladesh Limited (Banglalink)
7. Bhutan Telecom - Bhutan
8. Telekom Brunei Berhad (TelBru) - Brunei Darussalam
9. CHUAN WEI (Cambodia) Co., Ltd. - Cambodia
10. China Telecommunications Corporation - China
11. China Unicom (Hong Kong) Ltd. - China
12. Huawei Technologies Co. Ltd.- China
13. ZTE Corporation - China
14. Secretariat of the Pacific Community (SPC) - Fiji
15. Bharat Sanchar Nigam Ltd. - India
16. Bharti Airtel Limited - India
17. Cellular Operators Association of India
18. ITU-APT Foundation of India
19. Luna Ergonomics Pvt. Ltd - India
20. Mahanagar Telephone Nigam Ltd. - India
21. RailTel Corporation of India Limited, India
22. Shyam Telecom Limited, India
23. Telecom Disputes Settlement & Appellate Tribunal - India
24. Telecom Regulatory Authority of India
25. Vihaan Networks Limited (VNL), India
26. PT. INDOSAT Tbk. - Indonesia
27. PT. Telekomunikasi Indonesia Tbk - Indonesia
28. Telecommunication Company of Iran
29. Fujitsu Limited - Japan
30. Hitachi, Ltd. - Japan
31. KDDI Corporation - Japan
32. National Institute of Information and Communications Technology - Japan
33. NEC Corporation - Japan
34. Nippon Telegraph and Telephone East Corporation - Japan
35. Nippon Telegraph and Telephone West Corporation - Japan
36. Nomura Research Institute Ltd.- Japan
37. The ITU Association of Japan
38. Tokai University - Japan
39. Korea Information Society Development Institute (KISDI) - R.O.Korea
40. Korea Internet & Security Agency (KISA) - R.O. Korea
41. KT Corporation _ R.O. Korea
42. National Information Society Agency (NIA) - R.O. Korea
43. Samsung SDS Co.Ltd, R.O. Korea
44. SK Telecom, R.O. Korea
45. Asia-Pacific Broadcasting Union - Malaysia
46. Asia-Pacific Institute for Broadcasting Development - Malaysia
47. Astronautic Technology (M) Sdn.Bhd., Malaysia
48. Axiata Group Berhad, Malaysia
49. CyberSecurity, Malaysia
50. Global Knowledge Partnership, Malaysia
51. Green Packet Berhad - Malaysia
52. Maxis Mobile Sdn Bhd. - Malaysia
53. MEASAT Satellite Systems Sdn. Bhd. - Malaysia
54. Telekom Malaysia Berhad - Malaysia
55. Communications Regulatory Commission of Mongolia
56. Information Communication Network Company - Mongolia
57. MobiCom Corporation - Mongolia
58. Nepal Telecom Company Limited- Nepal
59. Nepal Telecommunications Authority - Nepal
60. e Worldwide Group - Pakistan
61. National Telecommunication Corporation - Pakistan
62. Pakistan Mobile Communications Limited - Pakistan
63. Pakistan Telecommunication Company Limited - Pakistan
64. Smart Communications, Inc. - Philippines
65. Dialog Axiata PCL - Sri Lanka
66. Sri Lanka Telecom Ltd. - Sri Lanka
67. ROHDE & SCHWARZ Regional Headquarters Singapore Pte. Ltd.
68. Asia-Pacific Telecommunity - Thailand
69. Advanced Info Service Public Company Ltd. - Thailand
70. Total Access Communication PLC - Thailand
71. True Corporation Public Co., Ltd. - Thailand
72. Viettel Corporation, VietNam

Membership Application at <http://www.itu.int/members/sectmem/Form.pdf>

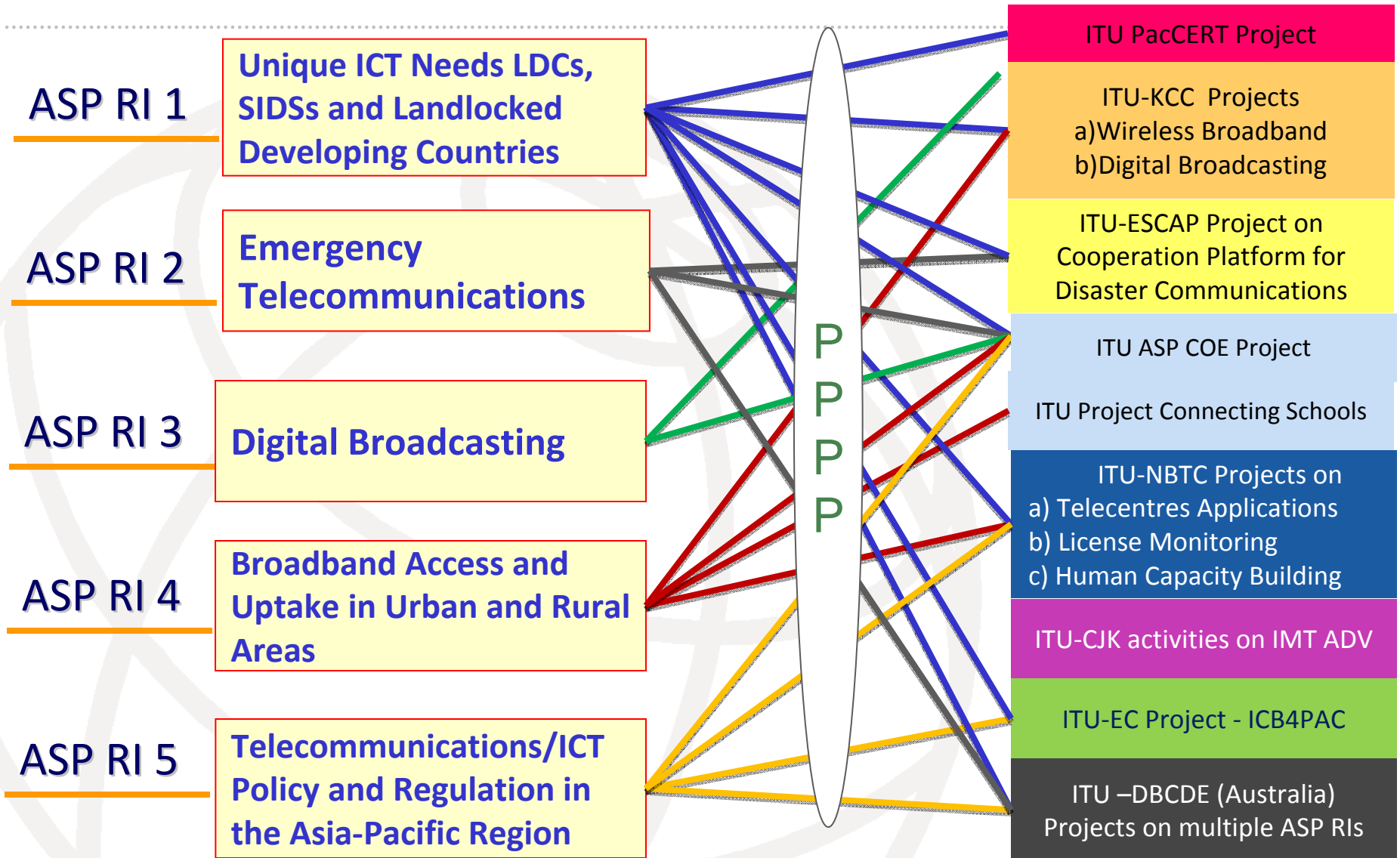
ITU Academia Members: Asia-Pacific Region



China	<ul style="list-style-type: none">• Beijing University of Posts and Telecommunications• Nanjing University of Posts and Telecommunications (NUPT)• Tsinghua University
India	<ul style="list-style-type: none">• Sinhgad Technical Education Society
Japan	<ul style="list-style-type: none">• Waseda University
Malaysia	<ul style="list-style-type: none">• Universiti Sains Malaysia

Membership Application at <http://www.itu.int/members/academia/applicationformforacademia.pdf>

ITU Asia-Pacific Regional Initiatives & Projects (2011-2014) 4Ps



ITU Asia-Pacific - Major Events (2011)



No.	Title	Date	Venue
1	Digital Terrestrial TV Coverage and Frequency Planning	7-8 March	Kuala Lumpur, Malaysia
2	Regional seminar on costs and tariffs and regional meeting of the SG3 Regional Group for Asia and Oceania (SG3RG-AO)	8-11 March	Phuket, Thailand
3	Regional Asia-Pacific ITU e-Health Meeting	10-11 March	Tokyo, Japan
4	Workshop on Strategic Human Resource Management in the Pacific	15-17 March	Nadi, Fiji Islands
5	ITU-R Working Party 5D (WP5D) Workshop on "IMT for the Next Decade	21 March	Bangkok, Thailand
6	Special Pacific ICT Ministerial Forum	11 April	Noumea, New Caledonia
7	ITU-ANFR Workshop on Spectrum Management for the Pacific	11-15 April	Noumea, New Caledonia
8	ICB4PAC Workshop on International Mobile Roaming for the Pacific Island Countries	11-15 April	Noumea, New Caledonia
9	Training Course on Measuring Information and Communication Technology (ICT) access and use by households and individuals	25-29 April	Suva, Fiji
10	Asia Pacific Regional Workshop on ICT Applications	18-20 May	Bangkok, Thailand
11	Asia Pacific Regional Workshop on Strengthening Digital Broadcasting Experience	22-23 May	Hanoi, Vietnam
12	ITU Workshop on Migration to Digital Broadcasting and Digital Dividend	26-27 May	Vietnam
13	Asia-Pacific Regional Forum on Digital Inclusion for All	21-23 June	Singapore
14	ITU Asia-Pacific Regional Multi-stakeholder Forum on Emergency Telecommunications	8-11 July	Ulaanbaatar, Mongolia
15	Sub-regional Workshop for CLMV	[TBD]	Cambodia
16	ITU MIIT Seminar (CIS)	2 September	China
17	Asia-Pacific Regional Workshop on Fighting Cybercrime	21-23 September	R.O. Korea
18	Asia Pacific-CIS-EUR Seminar on Broadband	3-6 October	Moldova
19	ACMA-ITU Regulatory Joint Events	7-9 November	Melbourne, Australia
20	Regional Training and Workshop on Transition from Analog to Digital Terrestrial Television Broadcasting	21-25 November	Bangkok, Thailand
21	Asia Pacific Regional Workshop on Wireless Broadband	21-23 December	New Delhi, India

For updated program and seminar presentations, please visit <http://www.itu.int/itu-d/asp>

ITU Asia-Pacific Centres of Excellence offers specialized training opportunities at low or no fees



Asia-Pacific

2010-2011

✓ **11 Trainings/
Workshops,**

✓ **4 Online
Trainings,**

✓ **Over 500
trainees,**

✓ **2 additional
Nodes**



ITU Asia-Pacific Centres of Excellence (2011)



Training Workshops				
Course Title	Dates	Node	Partners	Venue
Workshop on Human Resource Management Skills for telecom organizations in the Pacific	15-17 March		PITA	Fiji
Migrating licenses in a converged environment	5-8 April	PTA	MCMC, DBCDE	Malaysia
IMT Advanced	25-28 April	PNU		Rep of Korea
Sustainability of Telecentres	23-25 May	UUM, Viettel	Telecentre.Org, Intel, APWINC	Thailand
Spectrum Management in Converged Environment	14-17 June	MICT-Iran	NBTC	Thailand
IPv6 Migration Strategy	25-28 July	MICT - Thailand	APNIC, NAV6, others	Thailand
Broadband Policy & Regulation	2-5 August	PTA	NBTC	Thailand
Fibre to the Home	26 -29 September	PNU		Rep of Korea
Mobile Value Added Service	10-12 October	Viettel		Vietnam
NGN Business Planning	25-28 October	MICT - Thailand		Thailand
Securing Networks	1-4 November	IMPACT	TCI	Malaysia
Rural Broadband Infrastructure Funding	14-17 November	UUM	Telecentre.Org, Intel,	KL, Malaysia
Migration to Digital Terrestrial TV Broadcasting	21-25 November	AIBD	NBTC	Thailand
Quality of Service for Mobile Networks	December	PTA		Maldives / Sri Lanka

Online Training Courses			
Course Title	Dates	Node	Venue
Interconnection Cost Modeling	21 January - 4 March	PTA	ITU ACADEMY PORTAL
DTTB Systems	3 October - 13 November	AIBD	ITU ACADEMY PORTAL
Emergency Communication	TBC	Iran	ITU ACADEMY PORTAL
Spectrum Charging Mechanism	12 September - 20 October	PTA	ITU ACADEMY PORTAL
Migration to IPv6	17 October - 25 November	PNU (NAV6)	ITU ACADEMY PORTAL
Universal Service Funding	24 October - 4 December	UUM	ITU ACADEMY PORTAL

ITU Asia-Pacific Centres of Excellence (2012)



Training Workshops				
Course Title	Dates	Node	Partners	Venue
Strategic Telecommunication Management for Pacific Islands Countries			PITA	Pacific
Regulating Value Added Services	February / March	PTA		Vietnam
Converged IP Network Technologies	February / March	PNU	TRAI	India
Complying with security conditions and procedures in Telecom Services		PTA		
Certified Network Engineer in IPv6	April	MICT, Thailand, UUM	NAv6	Penang, Malaysia
Wireless Broadband Network Planning	August	PNU / MICT Thailand / MICT Iran		Thailand
Applications on Cloud Computing	June	MIC/Viettel, UUM	TRAI / BSNL	Vietnam
Spectrum Management	April / May	MICT Iran		
IPTV Applications and Business	26-28 May	MICT, Thailand / AIBD		Bangkok, Thailand
SecurityCore	June	IMPACT	NAv6	Malaysia
IPv6 network migration strategy for telecom service provider	23 - 27 July	MICT, Thailand	APNIC	Bangkok, Thailand
International Mobile Roaming	September / October	PTA		
Broadband Quality: Technical Standards and Measurements	September / October	PNU	TRAI	Rep of Korea / India
Developing creative content for Rural Community"	24-26 September	UUM	AIBD	Malaysia
New value chain in mobile application services	November	MIC/Viettel		Vietnam

Online Training Courses			
Course Title	Dates	Node	Venue
Consumer Protection from UCE, Spamming	February	PTA	ITU Academy
Migration to DTTB	2 July - 12 August	AIBD	ITU Academy
Digital Media Broadcasting Technologies	1 Oct - 11 Nov	AIBD	ITU Academy
Universal Access to Broadband	5 Nov - 16 Dec	UUM	ITU Academy

Conclusions



Having recognized the importance of IP addressing, IPv6 inter alia, in the era of broadband or converged ICTs,

- ITU has adopted relevant Resolutions on IPv6 at their supreme conferences;
 - ITU, its Asia-Pacific region in particular, has made collaborative efforts with its member governments and industries as well as APNIC to encourage IPv6 deployment through various activities and trainings, especially its Centre of Excellence Courses;
 - ITU will continue to serve the needs of its Member States and Sector Members for smooth transition and deployment of IPv6; and
 - ITU looks forward to active participations and engagement of the stakeholders of IP addresses and ISPs in our activities.
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Thank
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ITU : <http://www.itu.int>

ITU Asia Pacific : <http://www.itu.int/ITU-D/asp/CMS/index.asp>

