

Quarterly Newsletter

Quarter Highlights (April to June 2024)

Dear Respected Member,



participation from leading researchers, industry professionals, and students, creating a dynamic forum for collaboration. IAFI Radio Group Prepares for WP-5D: The IAFI Radio Group met on May 8, 2024, in a hybrid format to review recent developments and plan contributions for the 46th WP-5D meeting. Eleven working documents were discussed, with eight selected for further analysis, highlighting key topics such as IMT spectrum usage and disaster-relief communications. IAFI aims to advocate for better allocations to support direct connectivity between space stations and terrestrial networks. The communication standards.

enhance global connectivity, with a focus on innovation in satellite-based solutions. The event saw

group's preparations reflect its commitment to addressing the technical challenges of evolving **54th WP-4A Meeting Focuses on Satellite Spectrum Use:** From May 1-9, 2024, the 54th WP-4A meeting convened in Geneva, addressing spectrum use for fixed and broadcasting satellite services. The meeting, attended by 536 participants, reviewed 126 contributions, including IAFI's proposal to revise frequency band sharing conditions for smaller satellite antennas. This marks a significant step toward optimizing satellite networks for emerging applications. Extended meeting durations have been planned to manage the workload associated with multiple agenda items, ensuring timely delivery of studies to WRC-27.

Study Group 9 Examines Advanced Media Capabilities: The ITU-T SG-9 meeting, held May 9-17, 2024, explored telecommunication systems enabling ultra-high-definition television, VR, AR, and other cutting-edge technologies. Representing IAFI, Shri Labh Singh participated virtually, contributing to discussions on developing standards for these advanced capabilities. The group emphasized collaboration to align global standards with technological advancements, paving the way for a seamless media experience across platforms. SG-4 Meeting Reviews Satellite Service Progress: The second SG-4 meeting, held May 10, 2024, in Geneva, reviewed the progress of WP-4A, 4B, and 4C on satellite services, including fixed-

satellite, mobile-satellite, and radio-determination satellite services. With 318 participants, the session evaluated WRC-23 agenda items, ensuring a clear roadmap for addressing future satellite

communication needs. The meeting underscored the growing importance of efficient spectrum management in the face of increased satellite deployment. NSG-1 Meeting Explores Spectrum Sharing: The NSG-1 meeting on May 6, 2024, highlighted the critical need for spectrum-sharing strategies amid rising demand. Bharat Bhatia explained the group's role in finding solutions, such as sharing between satellite and terrestrial systems in the Ka and 71-86 GHz bands. He stressed the potential for NSG-1 to drive innovation in spectrum use, particularly in supporting burgeoning applications like autonomous vehicles and IoT networks. NSG-5 Develops 6G Performance Metrics: NSG-5 and National Working Party 5D groups met in

May 2024 to focus on defining performance requirements for 6G technologies. Bharat Bhatia emphasized India's leadership in framing ubiquitous connectivity standards, which form a core pillar of the 6G framework. The meetings addressed both technical and policy challenges, aiming to ensure seamless integration of new technologies into the global ecosystem. WP-4C Examines Spectrum Utilization: The WP-4C meeting, held April 24-30, 2024, in Geneva, reviewed 75 contributions from global stakeholders. Key outcomes included approval of draft

recommendations on IMT-RNSS coordination and revisions to existing ITU-R reports. These developments are critical for enhancing spectrum utilization and ensuring efficient communication between satellite and terrestrial systems. The meeting set a foundation for addressing agenda items tied to future communication technologies. APT/WTSA-24-3 Convenes in Cambodia: The APT/WTSA-24-3 meeting in Siem Reap from April 30 to May 2, 2024, brought together 327 delegates, including virtual participants. The discussions

covered 129 documents, with India playing a significant role through 32 contributions. Bharat Bhatia served as a primary editor, helping finalize candidate draft resolutions. The meeting's outcomes are

expected to significantly shape telecom regulatory frameworks in the Asia-Pacific region. ITU-APT Foundation of India
IAFI's India Space Policy Conference

Fraunhofer India Conference ITU-APT Foundation of India FI's India Crace Policy Confere



a stable regulatory environment, particularly for key areas like spectrum allocation and consumer protection. IAFI Advocates for Green Energy Open Access: In a letter to the Ministry of Power, IAFI requested full adoption of the Green Energy Open Access Rules, 2023, across states. Shri Bharat Bhatia emphasized the need for harmonized infrastructure to support demand aggregation and proposed relaxing levies for telecom service providers to make the transition to renewable energy more cost-effective.

future of 6G technologies and collaborative global efforts.

studies, with a virtual follow-up planned in August 2024.

under the Telecom Act are finalized.

capabilities.

friendly telecom infrastructure.

33 in September 2024.

ensuring active participation from global stakeholders.

its use for unlicensed Wi-Fi to enhance connectivity.

Wireless World Research Forum (WWRF) 6G Huddle 2024: The WWRF hosted the 6G Huddle 2024 in Berlin on April 17-18, focusing on implementing the 6G framework. As Vice Chairman of WWRF, Shri Bharat Bhatia moderated key sessions, including one on ubiquitous connectivity and another on high-altitude platforms and non-terrestrial networks in 6G. The event highlighted the

IAFI Contributions for Upcoming WP-4A Meeting: IAFI prepared two contributions for the May WP-4A meeting, focusing on efficient orbit and spectrum use for fixed and broadcasting satellite

services. Virtual meetings with stakeholders, including ISRO and industry experts, helped refine submissions, ensuring alignment with WRC-23 outcomes. Comments on TRAI's National Broadcasting Policy: IAFI reviewed TRAI's Consultation Paper for India's first National Broadcasting Policy, 2024. Highlighting the fragmented regulatory framework, IAFI stressed the need for a unified policy to streamline broadcasting operations and address emerging technological trends.

Focus Group on Costing Data Meets in Malawi: The second FG-CD meeting, held April 8-10, 2024, in Malawi, addressed affordable data service models. IAFI presented two contributions on market challenges and infrastructure sharing for 5G rollout. The meeting set the stage for further

The 3rd Meeting of the APT Preparatory Group for WTSA-24 (APT WTSA24-3) 30 April - 2 May 2024, Siem Reap, Camb

Streamlining Spectrum Allocation for VSAT Services: IAFI requested the Department of Telecommunications to streamline spectrum allocation for VSAT services to avoid delays in service launches. The letter emphasized the need for continuity under existing guidelines until new rules



among industry, academia, and research institutions to develop innovative solutions for affordable and ubiquitous connectivity. APT AWG-32 Meeting in Thailand: The 32nd meeting of the APT Wireless Group (AWG) took place in Pattaya, Thailand, from March 4-8, 2024. Over 100 technical contributions were discussed, with IAFI submitting seven key inputs on topics like 6G, PMSE frequency usage, and satellite communications. The meeting concluded with agreements to host a 6G workshop at the next AWG-

IAFI's proposal for Proposed 6G Workshop Gains Traction: a 6G workshop at AWG-33 received unanimous support. Scheduled for September 2024, the workshop will focus on IMT-2030 frameworks and deployment strategies. Mr. Sendil Kumar from IAFI will co-convene the event,

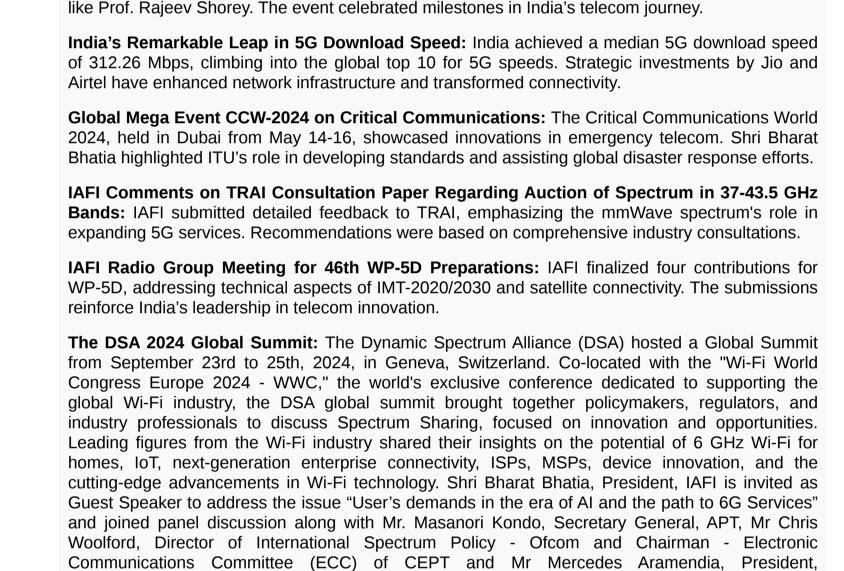
also discussed implementing a pilot BB-PPDR network in India to enhance disaster response

Webinar on Open RAN Best Practices: On March 13, 2024, ITU's FG-CD hosted a webinar on Open RAN, exploring ways to reduce network costs and improve sustainability. This initiative builds on IAFI's earlier proposals to ITU, emphasizing affordable data services and environmentally

IAFI Launches 6G Task Force: IAFI announced the creation of a Task Force on 6G technology to support ITU's IMT-2030 framework. Led by Shri Bharat Bhatia, the task force will drive collaboration

Conference on World Wi-Fi Day: On June 20, 2024, the Broadband India Forum hosted a conference in New Delhi emphasizing Wi-Fi's role in affordable broadband access. IAFI President Shri Bharat Bhatia highlighted India's position on the 5925–7125 MHz frequency band, advocating

IAFI Dinner Reception on 19th June 2024: IAFI hosted a reception to honor retiring telecom leaders and new appointees, while granting honorary memberships to distinguished professionals



Communications Services Regulatory Unit (URSEC). The year 2024, marked a significant milestone in technological history as the world celebrated the 25th anniversary of Wi-Fi. In the year 1999, the Wi-Fi Alliance released the standards for the Wi-Fi technology. This ground-breaking technology has revolutionized our lives, and its widespread adoption can be attributed to the efforts

of the Wi-Fi Alliance (formerly known as the Wireless Ethernet Compatibility Alliance - WECA).

Media Showcase: Following Items relating to IAFI were covered in the media

1. IAFI in the comprehensive comment on TRAI Consultation Paper concerning terms and conditions of network authorization under new Telecom Act, 2023, highlighted critical reforms to ensure robust telecom infrastructure, equitable spectrum access and innovation friendly regulatory environment Read More 2. ITU-APT Foundation of India (IAFI) hosted 4 th India Spectrum Management Conference 2024 (ISMC- 24) on 7-8 November, 2024 at Hotel Le Meridien, New Delhi. Important pivotal issues like WRC-27 Agenda Items, Spectrum Roadmap for 4G/5G IMT technologies, 6 GHz spectrum issues, Direct broadcast to Mobile, GSO/NGSO issues and Read More During the 4th ISMC-24 organized by the IAFI, Prof Raul Kartz, President Telecom Advisor services, LLP, USA and Prof University of San Andres, Argentina explained the economic value of lower 6 GHz Wi-Fi spectrum, 5925-6425 MHz as Read More 4. ITU-APT Foundation of India (IAFI) organized 4th India Spectrum Management Conference 2024 (ISMC-24) was held from 7-8 Nov, 2024 at Hotel Le Meridian, New Delhi. Event served as the prominent forum for in-depth analysis of key issues related to Read More 5. ITU-APT Foundation of India (IAFI) in response to a TRAI Consultation Paper submitted comprehensive response regarding the ongoing consultation paper on Telecom Commercial Communication. IAFI emphasized the need to expand the framework' scope to prevent SCAM **Communication Read More**

6. In response to TRAI Consultation Paper on service authorization granted under new Telecom Act, 2023, IAFI vehemently opposes the proposed amalgamation of the GMPCS and VSAT authorization and said that these two authorization should remain separate as Read More

7. IAFI calls for Delicensing of Captive 5G networks under Service Authorisations to be Granted

9. Shri Bharat Bhatia, President, IAFI in a press release applauded TRAI for releasing a

8. Bharat Bhatia, president ITU APT Foundation of India has been elected to chair the global group

consultation paper on spectrum auction, in millimeter bands 37-37.5 GHz, 37.5-40 GHz, and 42.5-43.5 GHz bands, seeking comments from the stakeholders, for future 5G deployment and ensuring reliable and widespread 5G coverage in sectors like healthcare, robotics, and Industry

10. A new Task Force dedicated to address the challenges and opportunities in developing and

standardizing 6G technology, to focus on enhancing India's participation in the ITU IMT-2030 framework. IAFI welcomes participation from industry, academia, research institutions, and standards development organizations on ubiquitous and affordable connectivity, support

development of telecom and semiconductor manufacturing ecosystem, thus India taking lead in

11. IAFI urges Department of Telecom for urgently delicensing the frequency band 5925-6425 MHz for the use of Wi-Fi to support India's local manufacturing innovation and export make in India products. Considering the importance of the Wi-Fi in 6 GHz band, many major economies like USA, Canada, France, Germany, UK, Singapore, UAE etc, have already delicensed Wi-Fi 6e

Under the Telecommunications Act, 2023. Read More

in ITU that will decide the 6G standards. Read More

6G Technology ecosystem and services. Read More

issuance of rules under the telecom act. Read More

telecommunication standardization. Read More

needed for Innovation and Local Manufacturing

the Telecom Sector in States/UTs

innovation and make in India

pertaining to Satellite Communications

Eminent educational institutes as members.

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under MTCTE

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(5925-6425 MHz). Read More

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Telecommunications (DoT) will soon initiate studies on the Citizens Broadband Radio Service (CBRS). The studies will also address potential 5G coexistence issues with Aircraft Radio Altimeters. Read More 13. DoT to resolve 5G coexistence with radio altimeters, start studies on CBRS: Official Read More 14. IAFI has urged the Department of Telecommunications (DoT) to expedite the assignment of satellite spectrum without any further delay. This is to prevent potential service launch delays for

15. In the 45th meeting of WP5D of the ITU-R in Geneva (January 31 to February 7, 2024), a

promoting financial inclusion and driving economic growth. Read More

proposal by IAFI was approved to create a global report on mobile technologies for financial inclusion. The report will include insights from India's experience with UPI payments. IAFI emphasized UPI's robust security, reliability, and speed, underscoring its crucial role in

16. IAFI has urged the Department of Telecommunications to promptly process applications for the assignment of satellite spectrum, specifically for VSAT and similar services authorized under unified licenses. The request aims to prevent any delays in the launch of services by VSAT and other satellite operators, emphasizing the importance of adherence to existing guidelines. Read

17. The first national preparatory workshop for the World Telecommunication Standardization

of WTSA, review of existing resolutions, and proposals for new resolutions in the field of

Assembly (WTSA-24) was organized by the Telecom Engineering Centre of the Department of Telecom and IAFI. The workshop focused on key topics such as the structure and organization

Links to our Activities & Programmes

VSAT and other satellite operators operating under a unified license. IAFI emphasizes that such assignments should be processed promptly under existing guidelines, without waiting for the

12. During the "National Workshop on Learnings from WRC-23 and the way forward, planning for

WRC-27 and forthcoming ITU and APT meetings", organized by IAFI at Hotel Hyatt Centric, MG Road, Bangalore, Chief Guest, the Member (Technology) announced that the Department of

2) Hon'ble Minister of Communications and Development of North Eastern Region, Government of India Request for IAFI's recommendation for Delicensing of Captive 5G networks under Service Authorisations to be Granted Under the Telecommunications Act, 2023. 3) Letter to Hon'ble Minister for Communications and Railways Request for Industry consultation on Draft Telecommunication Rules, 2023

4) Letter to Secretary, Ministry of Power Request for Implementing Green Open Access Rules for

5) Letter to Secretary DoT & Chairman DCC Request for further extension of implementation of

6) Letter to Secretary DoT & Chairman DCC Clarification for import of NGSO Satellite Devices

7) Letter to Secretary DoT & Chairman DCC Assignment of Spectrum for Satellite Communication

8) Letter to Secretary DoT & Chairman DCC Request for Urgent Intervention in Equipment Theft

9) Letter to Hon'ble Minister for Communications and Railways, Government of India Urgent need for WRC-23 follow up actions on 6GHz Band-Delicensing of 5925-6425 MHz is key to support

10) Letter to Secretary DoT & Chairman DCC Rationalization of Spectrum Usage Charges (SUC)

11) Letter to Secretary DoT & Chairman DCC Assignment of Spectrum for Satellite

1) Letter to Principal Secretary to the Prime Minister of India, Shri P K Mishra for PMO Support

Communication Services 12) Letter to Secretary DoT & Chairman DCC Suggestions for formulation of a new Policy for Spectrum Swapping **IAFI MEMBERSHIP** ITU-APT Foundation of India (IAFI) is a non-profit, non-political, non-partisan Industry foundation registered as a society under the Societies Registration Act, 1960. IAFI has been working for the last 20 years with the prime objective of encouraging the involvement of professionals, corporate, public/private sector industries, R&D organizations, academic institutions, and such other agencies

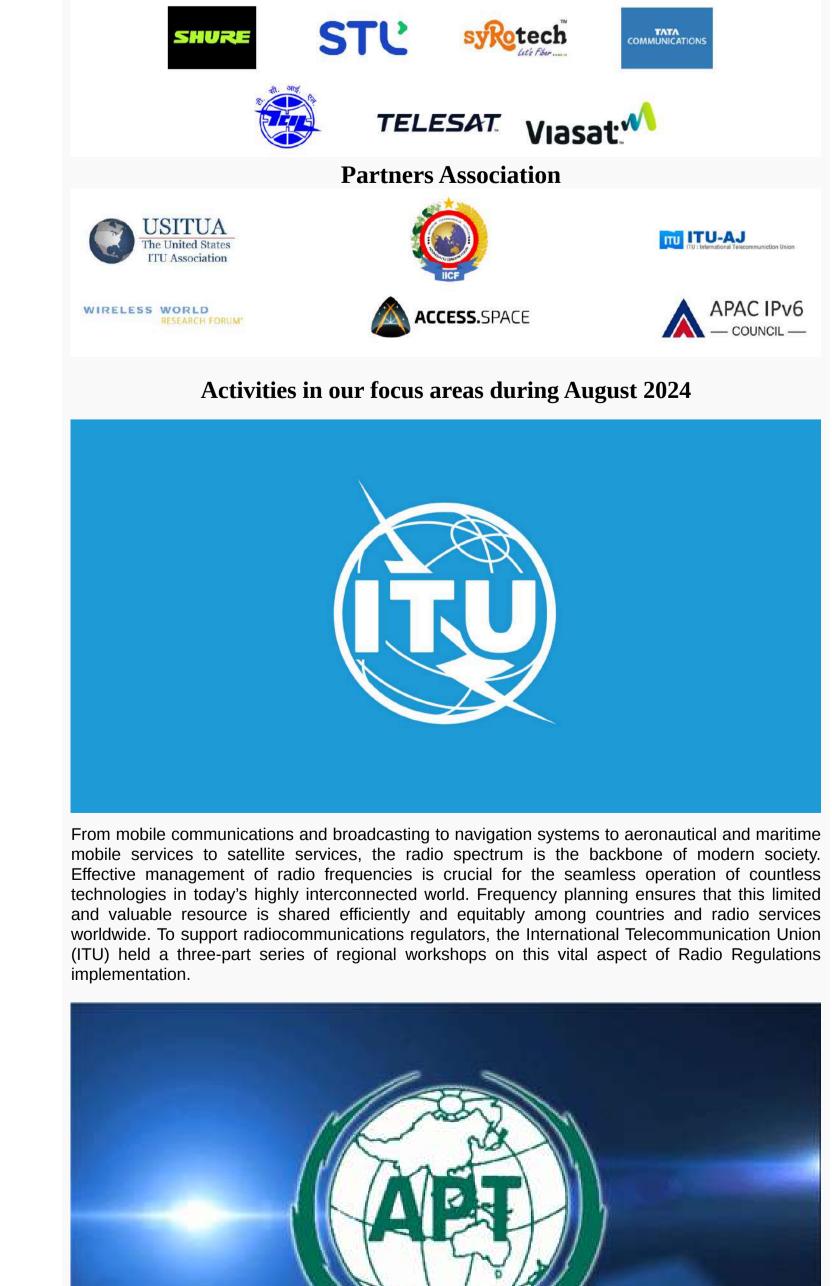
engaged in the development of the Indian Telecom sector. The members of IAFI are corporate members are 28 and individual members to 135 making a total of 163 members. The EC also emphasized on the Creation of a new member category for academia and a campaign to register

The benefits provided to the members include an invitation to all the events of the Foundation which include: Training programs, seminars, workshops, etc. conducted by the society on a complimentary basis. Besides, EC Members will also have access to information related to ITU and APT and other telecom journals where members can subscribe. Members are further eligible to participate in ITU-T, ITU-D, and APT activities. The individual Membership Fee of IAFI has been reversed to the previous fee that was applicable since the beginning. Please click: Membership

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सत्यमेव जयते **Department of Telecommunications** Ministry of Communications Government of India The \$750 billion global semiconductor industry is set to double in size in the next 6-7 years, and India is uniquely positioned to take advantage of it, Ashwini Vaishnaw, Minister for Communications, Electronics & Information Technology said at the Business Standard summit, BS Manthan on Wednesday. What is working in favour of India is an abundant workforce, access to green energy

APT Conference Preparatory Group for WRC-27 (APG27-1): The inaugural meeting for WRC-27 preparations was held in Shanghai, China, from June 3-6, 2024. Shri Bharat Bhatia represented

India, focusing on agenda-setting for spectrum allocation and global telecom collaboration.



IAFI Urges Extension for MTCTE Implementation: In a letter to the Department of Telecommunications, IAFI sought an extension for implementing MTCTE Phase 4 for 12 products, citing testing ecosystem limitations. The letter requested continued acceptance of ILAC-accredited reports to avoid delays in certification.

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and a growing chemical manufacturing ecosystem, he said. "A \$1 trillion industry will require more than nine lakh talented professionals. Close to a-third of all talent in the semiconductor industry are in India. From conceptualizing a new chip to designing and validating it, and ensuring it is ready-to fab, that entire value chain is in India," the union minister said