



Annual Report 2023-24



Digital Communications India Forum (DCIF) A unit of PTCIF

DEDICATED TO THE GROWTH OF DIGITAL COMMUNICATION

TCIL Bhawan, Greater Kailash - 1, New Delhi - 110048, India

Website: - dcif.org.in

Past President



1. Mr. YL Agarwal (1994 - 1998)
Director, HFCL & Former CMD, TCIL



2. Dr. N Bhaskara Rao (1999 - 2002)
Chairman, Centre for Media Studies



3. Late Padmashree P S Saran (2003 - 2006)
Former Secretary, Department of Telecom Services,
Government of India



4. Mr. S D Saxena (2007 - 2010)
Former Secretary,
Former Director (Finance), BSNL



5. Mr. Kuldeep Goyal (2011 - 2014)
Former CMD, BSNL



6. Mr. Vipin Tyagi, (2015 - 2020)
Former Executive Director, C-DOT

About Digital Communications India Forum (DCIF) A unit of PTCIF

Introduction:

Digital communication India forum (DCIF) is non-partisan, technology driven, socially sensitive and independent thinking-oriented forum from india with global outlook.

Communications and computation technologies are singularly playing the role of most significant change agent. There is challenge of keeping this technology area under watch to help positive change and avoid harmful impact on society. The ICT, cognitive and communication technologies require continuous debate and adoption and evangelism, regulation, awareness and control.

Scope of the Document:

This document is capturing the relevant technology area for conferences, deliberations, contributions and learning by DCIF. It is expected that DCIF activities will be planned around the technology areas proposed in this document.

Technology Area:

Technology area to be broadly focused for year 2023-24 (from April 2023 to March 2024)

1. **Quantum Technologies for computing and communications:** - Quantum technologies present a tectonic shift and big disruption in science, technology and innovation.
2. **Health care and well-being:** - There is a game changing impact of technology in healthcare and well-being industry, and it should be priority for DCIF to promote digital technologies for rural health and well-being including remote surgery and specialist expert intervention.
3. **Radio and spectrum related technologies:** - 6G Radio related advancements and core related developments, which accommodate new wave applications are evolving for upcoming IMT 2030.
4. **Extended Reality and Haptics:** - Extended Reality, Augmented reality, Virtual Reality, Haptics, new projection technologies are likely to be impactful.
5. **Machine to Machine Communications and internet of things:** - IOT/M2M, sensors are backbone technologies of smart cities and society. The wearables and smart applications are in vogue. Connected mobility is likely to be prevalent soon.

6. **High Altitude Platforms unmanned aerial Vehicles:** - High Altitude Platform Station unmanned aerial vehicles of various types are strategic need and going to be mainstream soon.
7. **Optical communication including visible light communication:** - Optical communication including visible light communication are feeling the capacity of broadband globally.
8. **Artificial Intelligence and Cognitive technologies:** - AI and Regenerative AI related technologies are changing and enriching workflows of life.
9. **Blockchain and network based distributed applications:** - Blockchain, the Distributed Ledger Technology to bring trust and security to AI and IOT. These are to be exploited for commercial applications and trusted transactions.
10. **Standardisation, conflicts and contradictions of technologies, cyber security and ethics:** - These are part of life cycles of evolution of technologies. Dealing with above topics is integral part of mass scale deployments.

Dynamic deliberations for future addition of technology area: The technological evolutions are forcing sweeping change, and it has become singularly most significant factor for lives of living being. It is expected that DCIF will bring in new technology area for inclusion in this document. The DCIF Technology group should modify the focus area periodically based on inputs.

Message from the President



First of all, let me convey my warmest greetings to all Members of DCIF (a Unit of PTC India Foundation), on the occasion of Ganesh Festival, Onam and other regional festivals of the Season.

The PTC India Foundation, established in 1994, is the oldest telecom industry organisation in India. The Digital Communication India Forum (DCIF) is the Unit of the PTC IF, and this new name/ identity was created to include modern means of communications & IT, in its fold. With the active co-operation of all Members, we hope to revive the activities of DCIF to its erstwhile glory. For this, getting new Corporate Members is the foremost need of the hour.

The last few years have been quite challenging. After the Corona pandemic and extreme slow-down of all activities, the revival to normalcy has been an enormous task. With the help of the Core Team, some important activities like holding regular webinars on relevant topics, establishing the website, posting the e-newsletters and other important information on the website, creating presence on social media, have been carried out. The Executive Committee met regularly and some meetings could be held physically, despite multiple challenges. Sincere thanks to all EC Members, who could join those physical meetings.

Special thanks are due to the Chairmen and Members of various Working Groups, for their valuable time for activities of their Groups. We hope that all Groups would be able to provide important output on significant issues dealt by them. This will enrich our website, improve visibility of DCIF, as well as provide valuable information to the telecom industry at large, which is one of the main objectives of the DCIF (legacy from PTC IF as well).

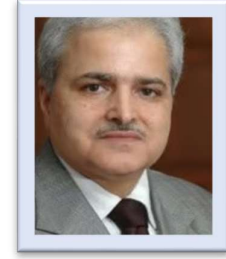
Shri Vimal Wakhlu, Secretary General, and Shri Ravindra Mishra, Treasurer, deserve special thanks, for taking pains to revive our activities. Most of the EC Members have gone beyond their normal call of duty, to help revive our activities.

Thanks once again, warm regards and best wishes for all.



Pawan Kumar Garg
President
Digital Communications India Forum

Message from From Secretary General's Desk



Greetings to all the valued members of the Digital Communication India Forum. It is a matter of great pleasure and satisfaction that we at DCIF have been able to undertake a good number of activities during the past one year.

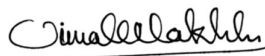
We have had several webinars on different subjects, involving experts within the Forum, and also outside. These include- Spectrum for Satcom; Empowering the Least Developed Countries Through Information and Communication Technologies; Indian Telecom Act 2023–Impact on the Indian Telecom Scenario; Fifth Generation (5G) Optical Networks; India's Leap Forward in Technology: Indian Stack of 4G+; Broadcasting: Conventional Versus New Technologies; Leveraging AI in Broadcasting; Applications of Electromagnetic Waves in Daily Life; Leveraging Technology for Rural Health in India

e-Newsletter of DCIF has been started during the current financial year. DCIF website has been established and is being updated on a regular basis. All the links to the Monthly Webinars and Newsletters are being uploaded on the website.

It is a matter of great satisfaction that in order to overcome financial constraints in organizing of physical events, some members have voluntarily chipped in their contributions. So far, thirteen members have contributed Rs.1,20,000, the process is still on, and the other members have also been requested for the same.

Membership drive remains a top priority, both corporate as well as individual. To make it more attractive for the corporates, we have been making efforts to register PTCIF/ DCIF under IT Act section 12A; Section 80G of Income Tax Act and CSR. We are hopeful that we would be able to complete it soon.

I would personally like to thank all the members for all their efforts at reviving DCIF.



Vimal Wakhlu
Secretary General
Digital Communications India Forum

Member associated with DCIF

1. Mr. Y N Bhardwaj	19. Mr. P S Endlow	48. Mr. K.K.Minocha
2. Mr. V K Gupta	20. Mr. N K Makkar	49. Mr. Surinder Mohan Talwar
3. Mr. P K Nag	21. Dr. N Bhaskara Rao	50. Mr. Anil Kumar Sinha
4. Mr. N D Grover	22. Mr. B K Saxena	51. Mr. Vipin Tyagi
5. Wg. Cdr T R Dua	32. Mr. H S Kataria	52. Mrs. Pratibha Tyagi
6. Mr. H C Soni	33. Mr. M K Kaul	53. Mr. R. K. Mishra
7. Mr. S D Saxena	34. Mr. Kuldeep Goyal	54. Mr. Vimal Wakhlu
8. Air Commodore N K Chhibber	35. Mr. Ambrish Sumeet	55. Mr. Rajesh Mehrotra
9. Dr. Rakesh Mehrotra	36. Mr. Krishna Ranjan	56. Mr. Ramesh Chandra Hooda
10. Mr. J P Garg	37. Mr. Ankur Dubey	57. Mr. SP Purwar
11. Mr. B R Khurana	38. Mr. R.N. Bharadwaj	58. Mr. RR Prasad *
12. Mr. V K Agarwal	39. Mr. Vipin Kumar	59. Mr. Ravi Kant
13. Mr. B K Mitra	40. Mr. Tejveer Verma	60. Shri SN Zindal
14. Mr. S N Gupta	41. Mr. Prem Tandon	61. Shri Anil Jain
15. Mr. V P Chandan	42. Mr. N.K. Mathur	
16. Mr. Naveen Surpaneni	43. Mrs. Sadhana Dikshit	
17. Mr. Virkamal Chopra	44. Mr. V.K. Arya	
18. Mr. R N Sharma	45. Mr. C.S. Goyal	

Executive Committee for 2022-24

1. Sh. Pawan Garg, President	11. Sh. K.K. Minocha, Member
2. Sh. Satya Gupta, Vice President	12. Sh. S.D Saxena, Member
3. Sh. R.K. Mishra, Treasurer	13. Sh. A.K Sinha, Member
4. Sh. Vimal Wakhlu, Secretary General	14. Sh. V.P Chandan, Member
5. Sh. Vipin Tyagi, Past President	15. Sh. Rakesh Mehrotra, Member
6. Sh. N.K. Mathur, Member	16. Sh. Rajesh Mehrotra, Member
7. Sh. H.C. Soni, Member	17. Sh. Veer Kamal Chopra, Member
8. Sh. S.N. Zindal, Member	18. Sh. V.K. Agarwal, Member
9. Sh. Vijay Gupta, Member	19. Sh. V.K. Arya, Member
10. Sh. Bijoy Mitra, Member	20. Sh. S.P Purwar, Member



Digital Communication India Forum

Invites you for a Webinar on-

Leveraging Technology for Rural Health in India

Date: 23rd June 2023

Time: 5:00 pm to 6:00 pm

Listen to and interact with our Expert on the subject-
Prof.(Dr.) S.K. Mishra in conversation with Vimal Wakhlu, Secretary General



Prof. S.K. Mishra

Distinguished Visiting Professor,
Gangwal School of Medical Science
and Technology,
Indian Institute of Technology,
Kanpur



Vimal Wakhlu

Secretary General, DCIF

Join us at

<https://nixi1.webex.com/nixi1/j.php?MTID=m8db8248cd3324bb5f582c85425a77f07>

Meeting number: 2511 998 7946

Password: 12345



Digital Communication India Forum

Invites you for a Webinar on-

Fifth Generation (5G) Optical Networks

Date: 16th March 2024

Time: 4:00 pm to 5:00 pm

Listen to and interact with our Expert on the subject



President

Pavn Garg

Former Wireless Advisor, GoI
Former Chairman,
Radio Regulation Board, ITU



Speaker

Dr. Anuj Kumar Srivastava

Former Executive Director
MTNL



Moderator

Vimal Wakhlu

Secretary General, DCIF

Link details

<https://us02web.zoom.us/j/84588780248?pwd=YzRObjVMUnZtUUV1NjAxM2h1SU90QT09>

Meeting ID: 845 8878 0248

Passcode: 669678



Digital Communication India Forum

Invites you for a Webinar on-
Leveraging AI in Broadcasting
 Date: 3rd February 2024
 Time: 4:00 pm to 5:00 pm

Listen to and interact with our Expert on the subject



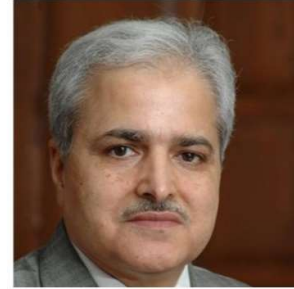
President
Pavn Garg

Former Wireless Advisor, GoI
 Former Chairman,
 Radio Regulation Board, ITU



Speaker

Sh. R.K. Singh
 Former Engineer in Chief
 Doordarshan



Moderator

Vimal Wakhlu
 Secretary General, DCIF

Link details

<https://us02web.zoom.us/j/87481246813?pwd=RXFiZk51dktpdnpvUi81STNDT0JDdz09>

Meeting ID: 874 8124 6813

Passcode: 916861



Digital Communication India Forum

Invites you for a Webinar on-
Indian Telecom Act 2023- Impact on Indian Telecom Scenario
 Date: 14th January 2024
 Time: 4:00 pm to 5:pm

Listen to and interact with our experienced panellists on the subject



Sh. S.D. Saxena
 Former Director Finance,
 BSNL
 Chairman Telecom Policy
 Working Group, DCIF



Sh. R.R. Prasad
 Former Engineer in Chief
 Prasar Bharati



Sh. N.K. Mathur
 Former Member Services,
 Ministry of Telecom



Dr. Satya Gupta
 Chairman, BLUETOWN
 India
 Vice President DCIF



Sh. Rajesh Mehrotra
 Former Counsellor,
 Radio Comm. Bureau
 Space Services Department
 ITU, Geneva
 Chairman, Satellite WG, DCIF



President

Sh. Pavn Garg
 Former Wireless Advisor, GoI
 Former Chairman,
 Radio Regulation Board, ITU



Moderator

Vimal Wakhlu
 Secretary General, DCIF

Webinar link

<https://us02web.zoom.us/j/83602102898?pwd=VDZ3dEFER2dBRERUaHEyUklMeTJQdz09>

Meeting number: 836 0210 289

Passcode: E1BFvu



Digital Communication India Forum

Invites you for a Webinar on-

Broadcasting: Conventional Versus New Technologies

Date: 28th July 2023

Time: 4 pm to 5 pm

Listen to and interact with our Expert on the subject



Panellist
Vipin Tyagi

Former Executive Director, CDOT
Immediate Past President, DCIF



Panellist
R R Prasad

Former Engineer in Chief
Prasar Bharati



Moderator
Vimal Wakhlu

Secretary General, DCIF

Join us at

<https://meet.google.com/dgq-qvhi-ohs>



Digital Communication India Forum

Invites you for a Webinar on-

Spectrum for Satcom

Date: 28th April 2023

Time: 4:00 pm to 5:00 pm



Sh. Pawan Garg
Former Wireless Advisor, Govt
Former Chairman,
Radio Regulation Board, ITU
President, DCIF



Dr.S.P. Kochhar
Director General
COAI



Dr.P.K. Jain
Director
Program Management
& Authorisation,
In-SPACe



Sh. K Narayanan
Former
Program Director
ISRO



Sh. Rajesh Mehrotra
Former Counsellor,
Radio Comm. Bureau
Space Services Department
ITU, Geneva



Dr.Rakesh Mehrotra
Visiting Professor
Sharada University



Moderator
Vimal Wakhlu
Secretary General, DCIF

Webinar link:

<https://nix1.webex.com/nix1/j.php?MTID=m067ea2485ed0c6f77d6a15f7754b8d9e>

Secretary General's Report on DCIF activities during 2023-24

Efforts have been made to stick to one webinar every month. All the webinars have been provided with a link on the DCIF website.

After a complete lull over the pandemic period, some activities have started in DCIF. These include.

1. Website establishment (<https://dcif.org.in>)

DCIF website has been established and is being updated on a regular basis. All the links to the Monthly Webinars and Newsletters are being uploaded on the website.

2. Starting of Monthly Newsletter

The first monthly Newsletter of DCIF was formulated by the Newsletter Working Group. All the members have been requested to contribute articles to enrich this letter.

3. Disposal of old documents at Sh. Anil Jain's place

The DCIF assets have been cleared from Sh. Anil Jain's residence. The EC places on record appreciation of the special efforts put in by Sh. Ashok Chandra, Former Wireless Advisor, who helped in identifying a school in the nearby vicinity and handed over the materials to them. A carton containing the other documents, Photo albums, trophy and shawl would be collected from the school. The albums have been handed over to Sh. Vijay Gupta, who has kindly offered to digitize the photographs, event wise for posterity.

4. Activities of Working Groups

The following working groups were formulated with the objective of ensuring an active participation of the EC members in various activities, and diverse domains of DCI

S no	Working Group	Members	Activities
1	Website	Sh. Anil Jain- Co-Chair Sh. R.K. Mishra- Co-chair Sh. S.N. Zindal Sh. K.K. Minocha	DCIF Website was started. Mr. Mishra with the support of Sh. Harsh Tiwary have been updating the website effectively.
2	Digital Broadcasting	Sh. R.R. Prasad: Chair Sh. V.K. Gupta, Co-Chair Dr. Satya Gupta Dr. Rakesh Mehrotra Sh. Vipin Tyagi	The Group prepared a document on- LTE-Based 5G Terrestrial Road casting. This is also going to be put in our Newsletter.
3	Technology	Sh. Vipin Tyagi- Chair Sh. N K Mathur	The Group prepared a document on -DCIF

		Sh. S.D. Saxena Dr. Satya Gupta Sh. S.N. Zindal Dr. Rakesh Mehrotra Sh. Vimal Wakhlu	Technology Focus Area. There is a potential for further focus on specific technologies.
4	Satellite Communications	Sh. Rajesh Mehrotra - Chair Sh. Pawan Garg Dr. Rakesh Mehrotra Sh. R R Prasad Sh. K. K. Minocha	The group prepared the DCIF response to TRAI CP on Satcom spectrum auction. However, due to differences within the group, it was not sent to TRAI
5	Newsletter	Sh. K. K. Minocha – Chair Sh.V.K.Gupta–Lead Co-editor Sh.S.D.Saxena- Editor Sh.H.C.Soni - Editor	The first Newsletter of DCIF was formulated. Chairmen of all the WGs have been requested to upload the activities in their WGs.
6	Digital Communication Policy	Sh.S.D.Saxena - Chair Sh. Pawan Garg Sh. Vipin Tyagi Sh. V.P. Chandan Sh. S.N. Zindal	No activities so far
7	Framing of the Manual for the Bye laws, Procedures and Processes	Sh. S D Saxena- Chair Sh. R K Mishra Sh. Pawan Garg Sh. V.K. Agarwal Sh. S S Motial	No activities so far
8	Membership	Sh. H.C. Soni -Chair Sh.R.K.Mishra – Co-Chair Sh. Vipin Tyagi Sh. Anil Jain Dr. Rakesh Mehrotra Sh. Veer K. Chopra Sh. V.K. Gupta Sh. B.K Mitra Sh. V.K. Agarwal	No activities so far. Sh. Mishra has been nominated as the Co-Chairperson of the WG.
9	Mobile Communications	Sh.V.P.Chandan–Co-Chair Dr.S.N.Gupta- Co-Chair Sh. Vipin Tyagi Sh. K. K. Minocha	No activity in this group so far as Sh. Chandan has been at Shogi, HP, where the connectivity is poor. Sh. S.N. Gupta has been appointed as Co-chair to take the activities forward

10	Events Management	Sh. Vimal Wakhlu- Chair Dr. Satya Gupta Sh. H.C Soni Sh. V.K. Gupta Sh. R.K. Mishra Sh. Veer K. Chopra Sh. V.K Agarwal	No physical events have taken place so far and hence no activities
11	Finance	Sh. R.K. Mishra – Chair Sh. S.D. Saxena Sh. Vipin Tyagi Sh. Satya Gupta Sh. Rajesh Mehrotra Sh. VP Chandan Sh. VK Gupta Sh. Veer K. Chopra	No activities so far

5. Voluntary financial contribution by members

In order to pull DCIF out of financial crisis, the Members voluntary contributed as follows

1. Sh. N.K. Mathur. - Rs. 10,000
2. Late Ms. Indu Agarwal – Rs. 5,000
3. Sh. Vijay Gupta – Rs. 10,000
4. Sh. Vipin Tyagi - Rs. 10,000
5. Sh. R. K. Mishra - Rs. 10,000
6. Dr. Satya Gupta. - Rs. 10,000
7. Sh. S.P. Purwar. - Rs. 10,000
8. Sh. S.D. Saxena - Rs. 10,000
9. Sh. Vimal Wakhlu- Rs. 10,000
10. Sh. H. C. Soni - Rs. 10,000
11. Sh. S. S. Motial Rs. 10,000
12. Sh. Pawan Garg Rs. 5,000
13. Sh. Rajesh Mehrotra Rs. 10,000

Remaining members are being requested to send their contributions too

6. Increase in Corporate and individual membership

Though efforts are on, no substantial progress has been made in this direction. There is also a challenge of perception, about the utility of the membership of DCIF. Renewed efforts are to be made by all members, particularly the EC members for attracting more individuals and corporates towards DCIF.

7. Registration of PTCIF/ DCIF under IT Act section 12A; Section 80G of Income Tax Act and CSR

Action for Registration of PTCIF/ DCIF under IT Act section 12A; Section 80G of Income Tax Act and CSR was initiated in order to make first PTCIF and then DCIF attractive for the corporates, which can help the revival of DCIF in the long run. Sh.S.P.Purwar and Sh. R.K. Mishra are working on this task, and it is expected to get completed during the year 2024-25.

8. **Registered Office address change** : TCIL has since given its approval, allowing PTCIF to have its registered office in TCIL Bhavan at GK1, New Delhi (from the old Chiranjivi Tower address, which happened to be old address of TCIL).



AGM held on 26th October 2023 at CSOI KG Marg
For Year 2022-23

Thank You
president@dcif.org.in,
info@dcif.org.in