



Webinar on “Broadband for all : Role of Satellite Communications” on 20th April, 2022

Inaugural Sessions

- 11:00-11:05 : Welcome Address Sh. U.K. Srivastava, DG, NTIPRIT
11:05-11:20 : Keynote Address Sh. Nilesh M. Desai, Director S A C, ISRO
11:20-11:30 : Inaugural Address Sh. K. Rajaraman, Secretary (Telecom), DoT
11:30-11:32 : Vote of Thanks Sh. Raju Sinha , DDG (Tx & NGS), NTIPRIT

Technical Sessions

- 11:32-11:50 : ‘Regulatory Push for Broadband for All: User Driven Space Policy’
Sh. Ashish Kumar ,Director(Satellite), DoT HQ
11:50-12:10 : ‘Delivering Satellite Broadband via Multi-Orbit Constellation’
Sh. Harsh Verma Vice President, Sales – Asia, SES
12:10-12:30 : ‘Comparative Study of LEO/MEO/GEO/HTS Satellite’
Sh. K Krishna ,Vice President & CTO
Hughes Communications India Limited
12:30-12:50 : ‘Satellite based Quantum Secure Communication ’
Sh. Adarsh Jain, Head QSTD, SAC, ISRO

Q & A Session

- 12:50-13:00 : Questions & Answers

Date: 20^h April, 2022

Time: 11:00 Hrs to 13:00 Hrs

Platform: Microsoft Teams

To register: SCAN the QR Code

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Participants are requested to join the workshop at least 10 minutes before the start of the session (10:50 AM)



**Sh. K Rajaraman
Secretary (T), DoT**

Shri K. Rajaraman is an Indian Administrative Services (IAS) officer from 1989 batch. He was previously working as Additional Secretary in Department of Economic Affairs (DEA). He has worked towards fostering economic relations worldwide particularly G 20 and BRICS countries. He holds bachelor's degree in Engineering and master's degree in financial management.



**Sh. Nilesh M Desai ,
Director, SAC, ISRO**

Sh. Desai is a Distinguished Scientist and holding the charge of Director , Space Applications Centre (SAC), ISRO Ahmedabad. After doing BE , he started his career at SAC/ISRO in 1986. He is having more than 35 years of Experience in design and development of ISRO's Microwave Radar Systems, applications involving earth observation, navigation and communication technologies for societal benefits, governance and strategic uses.

He has been the main author or co-author of about 175 technical papers presented at various national and international conferences. He has also contributed significantly in more than 225 technical reports of SAC/ISRO



**Sh. U. K. Srivastava,
DG, NTIPRIT**

Shri U. K. Srivastava, is an officer of Indian Telecom Service (ITS) and presently serving as DG & Head of NTIPRIT, DoT Government of India. He has over 36 years of rich experience in the field of Telecommunications and has led various units of DoT, Govt of India and Telecom Regulator in India, TRAI. He had also worked in ITU at Iraq and its HQ at Geneva



Sh. Ashish Kumar is currently holding the charge of Director (Satellite) in Department of Telecommunications and his job responsibility includes Satellite Communication Policy formulation and matters pertaining to Satellite based communication service Licensing .

Mr. Ashish joined Indian Telecom Service in 1999. Prior to his current assignment, he was working with Ministry of External Affairs where he was coordinating the implementation of India's major grant projects in the neighbouring countries. He holds a master's degree in Telecommunications Engineering

Ashish Kumar
Director, Satellite, DoT HQ



Sh. Verma leads the sales and business development efforts of SES's Networks business across the Asia region. Harsh has been with SES (earlier O3b Networks) for 10 years.

Harsh has vast experience in the satellite industry ranging from operations, sales engineering, product strategy and sales. He is an engineering graduate with master's in international business. Prior to SES networks, Harsh has had extensive experience working with leading OEMs and service providers in the satellite industry in the Asia Pacific region notably with Hughes Network System (APAC and India operations) and PCCW.

Harsh Verma
Vice President, Sales – Asia
SES



Sh. Krishna is the Vice President and the Chief Technology Officer of Hughes in India. He has been with Hughes and the Satellite Industry for more than 27 years. He has been one of the founding members of the India operations of Hughes. He is responsible for the technology roadmap of the Company and spearheads the various strategic initiatives of the Company. He also plays the role of a Chief Regulatory Officer. Krishna represents Hughes and the Satellite industry in various forums as an evangelist of satellite communications. He is the president of the VSAT Services Association of India. He is also the Co-chairman of the Satellite Committee for Broadband India Forum and active member of Society for Satellite Professionals International.

K Krishna
Vice President & CTO
Hughes Communications
India Limited



Sh. Adarsh Jain joined space applications centre, ISRO in 2007. He is currently heading quantum systems and technology division. He did his ME in telecommunications from IISc Bangalore. He had worked for various RF, microwave and optical communication technologies for GEOSAT missions. He is currently working towards the realization of several key technologies for ISRO's upcoming satellite based quantum communication (SBQC) program.

Adarsh Jain,
Head QSTD, SAC, ISRO

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