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DEFSAT CONFERENCE & EXPO

THE ASHOKA HALL, MANEKSHAW CENTRE, NEW DELHI | 08 - 10 JAN 2025

DEFSAT an annual flagship event hosted by SIA-India, is a strategic assemblage of thought leadership offering to exploit the potential of disruptive space technology to enhance defence capabilities.

DAY 1 – 8 JAN 2025

0900 – 0930  REGISTRATION

0930 – 1130  GIO1 | INAUGURAL SESSION

Welcome Address: Dr. Subba Rao Pavuluri, President SIA-India

Defence Space Address: Lt. Gen (Dr) PJS Pannu PVSM, AVSM, VSM (Retd), PhD, Senior Advisor, SIA-India

Keynote Address: Leveraging Space for Strategic Defence – Opportunities for Industry Partnerships Defence Space – Mr. Gautam Sharma, Managing Director, Viasat India

Special Address: Mr. Vinayak Godse, CEO, Data Security Council India

Special Address: AVM Pawan Kumar, DG, DSA

Vote of Thanks: Shri Anil Prakash, Director General, SIA-India

1130 – 1215  EXHIBITION OPEN & NETWORKING TEA

1215 – 1315  GIO2 | AI-Enabled Mosaic Warfare: Transforming Multi-Domain Operations for Next-Gen Defence Space

This session convenes experts to examine the integration of advanced technologies in Mosaic Warfare and Multi-Domain Operations (MDO) empowered by Space Technologies. Focusing on Artificial Intelligence (AI), machine learning, predictive analytics, and autonomous systems, the panel will explore how these innovations are reshaping defence strategies. Discussions will highlight real-time, data-driven decision-making across land, maritime, air, space, and cyberspace to achieve decision superiority and operational agility.

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1215 – 1315



The session will address implications for force design and command and control (C2) processes in contested environments.

Chair and Moderator: Lt. Gen (Dr) PJS Pannu PVSM, AVSM, VSM (Retd), PhD, Senior Advisor, SIA-India

Panellists:

Cmde S K Pujari, Chief Technology Advisor, C2C Advanced Systems

Dr Shubhashisa Sahoo, Scientist-F, CAIR, DRDO

Mr Sai Krishna, CEO, Saptang Labs

Col. Rajneesh Ralli (Retd), VP-Growth Operations, Dhruva Space

Maj Gen Rakesh Pandey, Corps of Signals

1315 – 1415



NETWORKING LUNCH

1415 – 1515



GI03 | Pillars of Strength: Foundational Technologies for Defence Space Resilience

This discussion will delve into the foundational space-based technologies that form the backbone of modern defence systems, driving innovation, operational superiority, and security.

Chair and Moderator: Mr. Sudheer N Kumar, Former Director, CBPO, ISRO HQ

Panellists:

Cdr KG Sarup Kumar(Retd), Head Program Management, Agnikul Cosmos

Mr Sakthikumar R, Founder and CEO, OrbitAID Aerospace

Mr. Vikas Arora, VP-Business Development, Logic Fruit Technologies

Dr Ashok Saxena, CEO, Space-TS

Mr Suhas Gopinath, CEO and Chairman, Globals Inc

1515 – 1530



Tech Brief – Space Situational Awareness

Mr. Noel Ballot, EVP Sales & Marketing, Safran

1530 – 1630



GI04 | Understanding Military-Grade Standards: Certifications Processes for India's Defence Space Sector

This panel discussion will bring together military leaders, certification agencies, and industry experts to clarify 'military-grade' standards in India's defence and space sectors. Representatives from DGQA, CEMILAC, and defence PSUs will outline the qualification processes for defence technologies, including the criteria and testing protocols necessary to meet military specifications. The session will emphasise the role of certifying agencies in ensuring compliance with Joint Services Specifications (JSS) and discuss how industry can align products with user requirements.



Chair and Moderator: Lt. Gen (Retd) RS Reen, Former Director General Quality Assurance (DGQA)

Panellists:

Ms J S Manjula, Additional General Manager, LCA-EW&A, BEL

Mr. L C Mangal, Director, DEAL, DRDO

Colonel Surender Kumar Rohilla, Standard Development Authority, DPP, Ministry of Defence

Ms M Neelavathy, Outstanding Scientist Deputy Director, Communications, Navigation, and Power Systems Area

Mr. Vinod S Chippalkatti, President SEBU, Centum Electronics Limited

1630 – 1700



Networking Tea Break

1700 – 1800



GI05 | Securing Turbulent Waters: Space-Powered Maritime Strategies

This session examines the pivotal role of space-based assets in enhancing maritime domain awareness (MDA) and naval operations. Expert panellists will discuss how advanced satellite technologies are revolutionizing blue-water capabilities and extending the operational reach of naval forces. Key topics include the use of space-based ISR (Intelligence, Surveillance, and Reconnaissance) for persistent maritime surveillance, over-the-horizon targeting, and the optimization of naval C4ISR (Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance) networks. The discussion will also address how these capabilities support anti-access/area denial (A2/AD) strategies and improve maritime security in contested environments.

Chair and Moderator: Vice Adm Shekhar Sinha, PVSM, AVSM, NM, & Bar ADC (Retd.)

Panellists:

Cmde (Retd.) A J Singh, Vice President, Indian Maritime Foundation

Mr. Vinay Simha, Founder and CEO, SkySERVE.AI

Mr Satish Raju Gottumukkala, Senior Manager Industry Accounts, APAC , Planet

Mr Srinath Logasubramanian, VP - Sales, ReOrbit

Mr Pramod Konugurthi, Sr VP, Space and Data Engineering, XDLINX Space Labs

1800 – 1815



Valedictory Address

Shri R Shakya, Addl DG, Haryana LSA, Department of Telecommunications, Government of India

1815 – 1820



Closing Remarks

Mr Pawan Kapur, Board Member, SIA-India

End of Day – 1

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DAY 2 – 9 JAN 2025

0900 – 0930



REGISTRATION

0930 – 1030



GIO6 | INAUGURAL SESSION

Welcome Address: Dr. Subba Rao Pavuluri, President, SIA-India

Defence Space Address: Lt. Gen (Dr) PJS Pannu PVSM, AVSM, VSM (Retd), PhD, Senior Advisor, SIA-India

Special Address: Air Vice Marshal Rahul Bhasin, Assistant Chief of Air Staff Operations (Space), Air HQ

Special Address: Lt Gen Manjinder Singh, AVSM, YSM, VSM, General Officer Commanding-in-Chief South Western Command

Inaugural Address by the Chief Guest: Lt Gen (Retd) Gurmit Singh, PVSM, UYSM, AVSM, VSM, Hon'ble Governor of Uttarakhand

Vote of Thanks: Shri Anil Prakash, Director General, SIA India

1030 – 1100



Exhibition & Networking Tea Break

1100 – 1200



GIO7| Secure Satcom: Enhancing Military Comms

This session explores advanced satellite communications for secure beyond line-of-sight military operations. Panellists, including military leaders and satellite service providers, will discuss innovations in COMSEC, TRANSEC, encryption technologies, and new waveforms. Key topics include quantum key distribution (QKD), post-quantum encryption (PQE), and industry capabilities for reliable communications in contested environments. The session will also explore spectrum issues. Insights on global coverage and integration with defence platforms will highlight the role of satellite services in enhancing military communication resilience and effectiveness.

Chair and Moderator: Vice Admiral (Retd) Pradeep Chauhan , AVSM & Bar, VSM, DG, NMF

Panellists:

Brig(Dr) Navjot Singh Bedi, Additional Officer, DIA

Mr. Jeewan Singh, Account Director, Viasat India

Mr Vinod Kaul, RVP – Asia (South/South East), Gilat Satellite Networks

Ms Richa Hukumchand, Founder, Pramatra

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1200 – 1300



GI08 | Harnessing Space Technologies for Comprehensive Homeland Security

This panel examines the pivotal role of space-based technologies in enhancing homeland security and disaster response capabilities. Representatives from Central Armed Police Forces, Coast Guard, NDMA, and State Police Forces will join industry leaders to discuss how satellite communications, Earth observation, and positioning systems are revolutionizing operations across strategic, operational, and tactical levels. The session will explore innovative applications in border security, counter-insurgency, disaster management, and law enforcement, highlighting how space assets improve situational awareness, decision-making, and operational effectiveness across India's diverse and challenging environments.

Moderator: Mr. Sanjay Kundu, Former DGP Himachal Pradesh

Panellists:

Mr. Rajeev K Sharma, DG, BPR&D

Mr. Praveer Ranjan, Special DG, CISF

Mr Gulpawan Singh, President, IIRIS

Mr Advait Kulkarni, Director, Vasundhara Geo Technologies Pvt Ltd

1300 – 1400



NETWORKING LUNCH

1400 – 1500



GI09 | Defence Space Innovation: Venture Funding and Investment Opportunities

This session explores the diverse funding and investment opportunities in India's defence sector. Industry experts, financial institutions, government representatives, and defence technology companies will discuss various mechanisms supporting innovation in national security. Topics include government initiatives, bank financing, venture capital, and public-private partnerships. Stakeholders from startups, MSMEs, and established players will gain insights into accessing capital, navigating funding challenges, and leveraging strategic investments to drive indigenous defence technology growth. The panel will highlight how these funding sources are shaping India's defence capabilities and fostering a robust innovation ecosystem.

Chair and Moderator: Lt Gen (Retd) Vinod G. Khandare, PVSM, AVSM, SM, Principal Adviser, MoD

Panellists:

Ms N Ranjana, Director – DSTA, DRDO

Mr Amey Belorkar, Senior Vice President, IDBI

Mr Raj Sethia, Managing Partner, MGF-Kavachh

Mr Rajesh Doshi, Managing Director, Steer Advisors

Mr Ayush Bagga, North India Head, T-Hub

Ms Kirti Upadhyaya, Founder, IndUS Tech Council



1500 – 1515



Tech Brief – Gaining the Advantage: Satellite Data for Informed Defence Decisions

Ms. Ericka Matsuda Martin, Sales Engineer, Asia Pacific Region, Planet

1515 – 1520



Brief – Mr Prakash Mirani, CEO, GeM

1520 – 1535



Tech Brief – Space-Enabled Defence : Ananth's Indigenous Satellite Solution

Dr. Alok Shrivastava, Director, Ananth Technologies

1535 – 1635



GI10 | Space-Enabled Land Warfare: Enhancing Army Operations

This session delves into the critical role of space technology as a force multiplier for land operations in modern warfare. Participants will explore advanced space-based applications that enhance army capabilities, including satellite-driven intelligence, high-precision geolocation for navigation and targeting, and secure communications frameworks. The discussion will also cover real-time data relay systems that support situational awareness and decision-making on the battlefield. By integrating these space capabilities, land forces can achieve greater operational effectiveness and maintain a strategic edge in complex combat environments.

Chair and Moderator: Lt. Gen Dushyant Singh, DG, CLAWS

Panellists:

Maj Gen (Dr) Sandeep Sharma, VSM, PhD, former Scientist H NTRO

Col Harinderjit Singh, Director Imagery Analysis & Geospatial Intelligence , DIPAC

Brig G Manoj, Defence Space Agency

Wg Cdr (Retd) PRL Prakash, Vice President, Avantel Limited

Lt Col (Retd) Christopher McIntosh, CEO, Methera Global

1635 – 1700



Network Tea Break

1700 – 1730



GI11 | Non-Kinetic Space Warfare: Securing National Space Capabilities

This session will focus on the significance of non-kinetic warfare in securing national strategic space capabilities. Military practitioners will discuss various methods to enhance resilience against threats in the space domain, including electronic warfare, signal jamming, and anti-spoofing tactics. The discussion will also cover advanced technologies like directed energy systems and AI-driven threat detection that bolster operational security.



Participants will gain insights into developing comprehensive frameworks for safeguarding national interests in space while addressing the evolving challenges posed by adversaries in this critical domain.

Chair and Moderator: Lt. Gen Karanbir Brar, AVSM, GOC – Dakshin

Panellists:

Lt. Gen. RS Raman, Director General of Military Intelligence

Lt Col (Retd)V Shanmuga Velan, CTO, Elena Geo Systems

Dr Srinivas Sastry, Former Director, DSP, DRDO

1730 – 1800



GI12 | Cyber Shield for Space: Integrating Space and Cyber

This session will explore the critical intersection of space and cybersecurity in enhancing operational resilience and situational awareness for defence applications. Military practitioners and industry leaders will discuss advanced cyber technologies and risk management strategies, addressing the principles of zero trust and secure design. The session aims to foster collaboration that drives innovation and strengthens national security in an interconnected landscape. Attendees will gain insights into best practices and cutting-edge solutions to enhance defence capabilities against evolving threats.

Chair: Lt General MU Nair, PVSM, AVSM, SM, (Retd) National Cyber Security Coordinator, National Cyber Coordination Centre (NCCC)

Panellists:

Maj Gen P K Mallick, VSM(Retd), Sr Directing Staff (Army), National Defence College

AVM (Dr) Devesh Vatsa, Advisor, Data Security Council India

Mr Rajshekhar Pullabhatla, Director, ISAC

1800 – 1815



Valedictory Address

Dr PV Radhadevi, Director, ADRIN – ISRO

1815 – 1820



Closing Remarks

Dr D S Govindrajan, Board Member, SIA-India

End of Day – 2



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DAY 3 – 10 JAN 2025

0900 – 0930



REGISTRATION

0930 – 1030



GI13 | INAUGURAL SESSION

Welcome Address: Dr Subba Rao Pavuluri, President SIA-India

Special Address: Lt. Gen (Retd) Vinod G Khandare, PVSM, AVSM, SM, Principal Advisor to MOD

Vote of Thanks: Shri Anil Prakash, Director General, SIA-India

1030 – 1100



Exhibition & Networking Tea Break

1100 – 1200



GI14 | Harnessing Space Capabilities for Aerospace & Precision Strike Missions

This session will examine the integration of space capabilities with aerial operations, highlighting how air forces utilise satellite communications, reconnaissance, precision targeting, and navigation systems to optimise various platforms, including drones, UAVs, hypersonic missiles, and High-Altitude Pseudo-Satellites (HAPS). Panellists, including experienced Air Force experts and industry leaders, will discuss the synergy between aerospace and space technologies and their impact on modern air combat. Participants will gain insights into how space assets support mission planning and situational awareness while addressing challenges in integrating these capabilities to strengthen defence infrastructure and maintain air superiority in contested environments.

Chair and Moderator: Air Marshal Anil Chopra PVSM, AVSM, VM, VSM, (Retd), Former DG, CAPS

Panellists:

AVM Rajiva Ranjan, VM, ACIDS-ICT, IDS HQ, (Retd.)

Gp Capt (Retd) Arvind Pandey, Visiting Fellow, CAPS

Air Marshal Sanjeev Kapoor AVSM, VM (Retd.), Former Director General (I&S) Air Force

Mr Noel Ballot, Executive Vice President, Safran

Ms Sree Supranayi, Co-Founder and CEO, AnduraX Pvt. Ltd

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1200 – 1215



Tech Brief – Futuristic C4ISR Systems : An Architectural Framework Driven Approach

Mr Krishna Chandra, Chief Mentor, C2C Advance Systems
Cdr K Ramesh (Retd.), Chief Technology Officer, C2C Advanced Systems

1215 – 1315



GI15 | Advancing Sensor Subsystems and Payloads for Space Application

This panel will explore the critical role of sensor subsystems and payloads in space applications. Industry experts will discuss innovative approaches to designing and manufacturing sensors for various space platforms, emphasizing their significance in enhancing data collection and operational capabilities. The discussion will cover advancements in sensor technologies, integration challenges, and the impact of these innovations across multiple applications, including Earth observation and defence. Participants will gain insights into how these subsystems contribute to the overall effectiveness of space missions and the importance of developing a robust domestic sensor manufacturing ecosystem in India.

Chair and Moderator: Air Marshal G S Bedi (Retd), Former Director General (Inspection & Safety) IAF

Panellists:

Mr. Rakshit Bhatt, Co-Founder, VP – Product Development, Galaxeye Space
Mr Rupesh G, CEO, XDLINX
Mr Yogeshwaran J, VP of Engineering, Astrogate Labs
Mr Siddhesh Naik, Founder, ULOOK Technologies

1315 – 1415



Networking Lunch Break

1415 – 1515



GI16 | IndSpace Wargame 3.0: Global Perspectives on Space Security Challenges

The IndSpace Wargame Exercise at DefSAT 2025 will focus on the collaborative dynamics of space security in an increasingly interconnected world. This interactive tabletop exercise will bring together defence practitioners, industry leaders, and experts from multiple nations to simulate real-world scenarios that highlight the complexities of space operations and security challenges. Participants will engage in discussions that explore how multinational partnerships can enhance collective defence strategies, address shared vulnerabilities, and develop innovative solutions to emerging threats in the space domain. By fostering collaboration across borders, the IndSpace Wargame aims to strengthen global readiness and resilience in safeguarding national interests while promoting a secure and stable space environment for all. Join us as we navigate the intricate landscape of international space security and work towards a unified approach to addressing the challenges that lie ahead.



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Chair

Lt. Gen V G. Khandare PVSM, AVSM, SM (Retd), Principal Advisor, MoD

Conduct & Moderation

Lt. Gen (Dr) PJS Pannu, PVSM, AVSM, VSM (Retd), PhD, Senior Advisor, SIA-India

Team Guides

Lt Gen Dushyant Singh, PVSM, AVSM (Retd), DG, CLAWS
Lt. Gen Karanbir Brar, GOC – Dakshin

Umpire

Dr. Ranjana Kaul, Partner, Dua Associates

Tech Umpire

Dr. Subrata Rakshit, Director General (TM), DRDO

The third edition of IndSpaceX 3.0 exercise will be an evaluated, two-sided simulation conducted under Multi-Domain Operations scenarios. The focus will be on identifying the space technologies and capabilities that must be developed to ensure national security.

Think-Tanks

Air Vice Marshal Anil Golani (Retd), DG, CAPS

Major General (Dr) Ashok Kumar, VSM (Retd), DG, CENJOWS

1515 – 1545



Networking Tea Break

1545 – 1800



Continuation of IndSpace Wargame 3.0

End of the Conference

