

SMi, the Organisers of Global MilSatCom, present:

MilSatCom Latin America

27 - 28
AUGUST
2014

ROYAL TULIP HOTEL, RIO DE JANEIRO, BRAZIL



KEYNOTE ADDRESSES FROM THE HOST NATION:



Brigadier-Major Carlos Vuyk de Aquino,
Brazilian Armed Forces

Colonel Pierre Mattei, Aerospace Engineering
Coordinator, **ITA**



Lieutenant Colonel Hélcio Vieira Junior,
Commander, Space Operations Center
Brazilian Armed Forces

Captain Eloi Fonseca, Aerospace Engineering, **ITA**

SPEAKER FACULTY 2014 INCLUDES:



Lieutenant Colonel Carlos Alejandro Villasenor Navarro,
Department of Communications, **SEDENA**



Senior Officer, **Peruvian Air Force**



Regina Cunha Parreira, Manager of Spectrum, Orbit and
Broadcasting, **Anatel**



Major Javier Campos, Signal Officer, **Salvadorean Armed Forces**



Maximiliano Erazu, SAOCOM Communication System Engineer,
CONAE



Diana Goody, Vice President, International & Government
Channels, **Harris CapRock**



"D" D'Ambrosio, Executive VP Government Solutions, **O3b
Networks**



Lincoln Oliveira, General Director, **Star One**

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EVENT HIGHLIGHTS:

- Hear direct from the Latin American military at the forefront of the Military satellite communications industry- Brazilian Armed Forces
- Overview of the military and commercial satellite communications systems market across Latin America and how to get involved
- Latest satellite communications technology developments and newest technologies from around the world
- In depth discussion of ground-breaking new international partnerships between Latin America and other countries such as China

POST-CONFERENCE INTERACTIVE WORKSHOP | 29TH AUGUST 2014

MOBILE SATELLITE SOLUTIONS FOR THE ARMED FORCES

09.00-13.00 | Hosted by Arycom



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As a Lieutenant Colonel from the Brazilian Air Force, I have great pleasure in welcoming you all to SMi Group's inaugural MilSatCom Latin America 2014 conference & exhibition.

Global MilSatCom is the leading military satellite communications conference in the world and I am pleased to have this regional event taking place here in Rio de Janeiro.

We are proud to be able to be a part of this new event and I myself am delighted to be able to contribute following our recent attendance at Global MilSatCom which took place in London in November last year.

MilSatCom Latin America 2014 will offer attendees the opportunity to hear from key players both in the military and industry in one of the world's most beautiful locations, Rio de Janeiro.

Please join in the question and answer sessions, network with your industry peers and learn about the new developments in the Latin American Defense arena. But most of all, please enjoy this ground-breaking event in Rio de Janeiro.

Sincerely yours,



Lt. Colonel José Everardo Julião Ferreira - MSc.
Brazilian MoD - C² Technical Coordinator,
IEEE and OSA Member, Metamaterial Researcher

08.30 REGISTRATION & COFFEE

09.00 CHAIRMAN'S OPENING REMARKS
Cristóvam Nascimento, Brazil Correspondent,
Global VSAT Forum



HOST NATION ADDRESSES: BRAZILIAN SATELLITE DEVELOPMENTS

09.10 Brazilian Armed Forces Keynote address
Brigadier-Major Carlos Vuyk de Aquino, Brazilian Armed Forces



09.40 Brazilian Air Force Space Operations Center
Lieutenant Colonel Hélcio Vieira Junior, Commander, Space Operations Center, Brazilian Armed Forces



10.20 MORNING COFFEE

10.50 Military applications via satellite
• Available capacity in C and Ku Band within the Star One fleet in Brazil and South America
• Star One experience in X Band Hosted Payloads
• Space Based Augmentation Systems as a Hosted Payload
• Use of satellites to control UAVs – Case study

 Lincoln Oliveira, General Director, Star One

11.30 Thales Alenia Space (TAS) and Telespazio (TPZ) forming the Space Alliance

- TTAS and TPZ covering the full chain value at system level, from manufacturing to service delivery
- TAS and TPZ presence in the Country
- SGDC
- Major Space Alliance SATCOM Defense Programs
- Syracuse
- Sicral
- Athena Fidus

Joel Chenet, General Manager,
Thales Alenia Space Brasil



12.10 Update from Anatel
• Telecommunications regulation changes across Brazil
• Coordinating communications capability for the Olympics

 Regina Cunha Parreira, Manager of Spectrum, Orbit and Broadcasting, Anatel

12.50 NETWORKING LUNCH

UPDATE FROM SATELLITE OPERATORS ABOUT FUTURE PLANS

14.00 Achieving more with less: Deployed communication and information systems for the next decade

- Communications challenges for changing military applications
- Using COTS and extending existing infrastructure to bridge budget shortfalls
- Focusing on the requirement, not the hardware

 Diana Goody, Vice President, International & Government Channels, Harris CapRock

14.40 High Throughput Satellite (HTS) Communications for Government and Military Applications

"D" D'Ambrosio, Executive VP
Government Solutions, O3b Networks



15.20 AFTERNOON TEA

SATELLITE PROGRAMMES AND TECHNOLOGY


15.50 Communications systems in Earth Observations Satellites (EOS)

- Earth Observations Satellites: Communications systems in Science missions
- S - Band communications systems: Telemetry command and Ranging systems used in LEO Satellites
- Ground and onboard systems
- X-Band communications systems: High Data rate systems, modulation types
- System communication channels for next generation of EOS: Challenges and opportunities

 Maximiliano Erazu, SAOCOM Communication System Engineer, CONAE

16.30 Satellite voice solutions for military operations and emergencies

- Stand-alone satellite voice solutions
- Satellite Picocell solutions
- L-Band versus Ku/C band solutions for voice

 Iñigo López, Sales and Marketing Director, Arycom

17.10 CHAIRMAN'S CLOSING REMARKS AND END OF CONFERENCE DAY ONE

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Harris CapRock Communications is a premier global provider of managed satellite and terrestrial communications solutions, specifically for remote and harsh environments including the energy, government and maritime markets. Harris CapRock owns and operates a robust global infrastructure that includes teleports on six continents, five 24/7 customer support centers, local presence in 23 countries, and over 275 global field service personnel supporting customer locations across North America, Central and South America, Europe, West Africa and Asia Pacific. www.harriscaprock.com



O3b Networks has a unique global communication satellite solution that addresses the challenges experienced by governments and militaries in the Latin-American region. O3b's Medium Earth Orbit (MEO), high throughput satellite (HTS) constellation provides government and military customers in the region with a low latency (<150 msec), high throughput (over 1 Gbps), and affordable alternative (at least 30% less than GEO Ku) to connect central and remote operations with each other and the rest of the world. This reliable, flexible and secure global communications service allows government and military users, particularly in the underserved regions of the world, to enjoy the benefits of high-speed connectivity, where and when needed. O3b enjoys world-class financial and operational support from SES, Google, HSBC, Liberty Global, Development Bank of South Africa, Sofina, Satya Capital, Northbridge Venture Partners and Allen & Company. www.o3bnetworks.com

08.30 REGISTRATION & COFFEE

09.00 CHAIRMAN'S OPENING REMARKS:

 **Cristóvam Nascimento**, Brazil Correspondent, Global VSAT Forum

09.10 Introduction to Space Activities at ITA

 **Colonel Pierre Mattei**, Aerospace Engineering Coordinator, ITA

09.30 Defense applications of cubesats projects

- Datatelay for secure communications using Software Defined Radio in 6U Cubesats platforms
- Image acquisition using Low Orbit 6U Cubesats
- Cubesats swarming in defense subjects
- Use of a 6U satellite to understand ionospheric scintillation effects on both communications and GPS positioning


 **Captain Eloi Fonseca**, Aerospace Engineering, ITA

10.10 MORNING COFFEE

OVERVIEW OF PLAYERS IN SATCOM IN LATIN AMERICA

10.40 Overview of the major satellite communication systems covering the Brazilian Territory

- The Geostationary Orbital Arc covering Brazil
- Satellites in the Brazilian Orbital Slots
- Satellites in the Foreign Orbital Slots
- Major Applications and Services running
- Current Situation and Trends

 **Cristóvam Nascimento**, Brazil Correspondent, Global VSAT Forum

11.20 Salvadorean Armed Force Military Communications

- Overview of Communications Systems in Salvadorean Armed Forces
- Military satellite communications requirements

 **Major Javier Campos**, Signal Officer, Salvadorean Armed Forces

12.00 NETWORKING LUNCH

13.30 Satellite Communication expectations in Peru

 **Senior Officer, Peruvian Air Force, CONIDA**

14.10 Mexican Armed Force's Motivation to make the most of Satellite Communications Capability

- Evolution of satellite communications at home- Use of Satellite Communications in the army and Fuerza Aerea Mexicana
- Future vision - Satellite Technology in the army and in the Fuerza Aerea Mexicana

 **Lieutenant Colonel Carlos Alejandro Villasenor Navarro**, Department of Communications, SEDENA

14.40 Vislink Military Solutions & Capabilities

- Military Satellites for more effective communications
- Satcom in the Field and on the Ground
- Capabilities of Satcom Solutions for Military Applications to meet your requirements


VISLINK Paulo Dias, General Director, Vislink Brazil

15.20 AFTERNOON TEA

INTERNATIONAL PLANS AND PARTNERSHIPS

15.50 Latin America MilSatcom Demand: What's in it for commercial operators?

- Demand for commercial capacity in Latin American military organizations
- Trends, drivers and restraints in applications
- The impact of government and military satellite on commercial capacity demand
- Addressing bandwidth demand in the region with High-Throughput Satellite (HTS)

 **Claude Rousseau**, Senior Analyst, Northern Sky Research

16.30 China's growing footprint in Latin American SATCOM

- Development of China's commercial space industry
- Overview of Chinese activities in the Latin American space sector (Brazil, Peru, Argentina, Chile, Venezuela, Bolivia, Nicaragua)
- Venesat-1, Associated Infrastructure and Venezuela Space Collaboration
- Tupac Katari and the Bolivia Space Collaboration
- Nicasat-1
- Implications for the Region and the Industry

 **Dr R. Evan Ellis**, Senior Non-Resident Fellow, Center for Strategic and International Studies

17.10 Cognitive Radio: Future of Wireless Communications

- Cognitive Radio Technology: Reality or Hype?
- Regulators (Ofcom/FCC) perception of cognitive radio technology and its future.
- Will spectrum sensing be dead in future?
- Carrier-aggregation and journey towards 5G
- Current market situation of cognitive radio technology

 **Dr Kamran Arshad**, Senior Lecturer in Communications Engineering, University Of Greenwich

17.50 CHAIRMAN'S CLOSING REMARKS AND END OF CONFERENCE

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Star One, a wholly owned subsidiary of Embratel, is the largest satellite operator in Brazil and Latin America. Established in December 2000, it operates five GEO satellites (Star One C1, C2, C3 and C12, and Brasilsat B4), and two satellites in inclined orbits (Brasilsat B2 and B3). To meet the new infrastructure demands in Brazil and Latin America, besides major sporting events – like the Olympic Games – the company will provide two new satellites: Star One C4 (in late 2014) and Star One D1 (in the first quarter of 2016.) To operate the fleet, Embratel keeps the best and largest satellite operation center in Latin America, located in Guaratiba, Rio de Janeiro. From this center, the company tracks, monitors and manages its satellite fleet with a team of highly skilled engineers and technicians. The site includes one of the largest antenna campuses in Latin America, using state-of-the-art technology. www.starone.com.br



Telespazio Brasil S.A. In 2007, Finmeccanica and Thales created the Space Alliance whose supporting pillars are the two joint ventures Telespazio, specializing in space services, with a Finmeccanica majority ownership (Finmeccanica 67%, Thales 33%) and Thales Alenia Space, specializing in the creation of space systems, with a Thales majority ownership (Thales 67%, Finmeccanica 33%). www.telespazio.net.br



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Mobile Satellite Solutions for the Armed Forces

Hosted by Arycom

Overview:

In a large territory like South America, voice and data communications over satellite are a must for the armed forces. Due to the remote locations of the operations and the mobility required, L-band solutions (Inmarsat/Iridium) are the ideal solution due to the reliability of this frequency band (rain does not affect the quality), the small size and weight of the terminals and the rapid deployment. During the workshop there will be a comparison of different satellite communications solutions, including L-band, Ku-band and X-band, and where each solution fits better.

The workshop will provide a clear vision of how different satellite solutions should be used together in military operations. The attendees should be managers from companies providing portable satellite communications solutions and government entities with operations in remote locations.

Programme:

- 09.00 Registration & Coffee
- 09.30 L-Band Communications for Government and Armed Forces
- 10.30 Case-study on the implementation of Mobile SatCom
- 11.00 Coffee Break
- 11.20 Satellite Solutions for Ku, Ka, C and X Bands
- 12.20 Operational case-study on using satellite communications capability
- 13.00 End of Workshop

About Iñigo Lopez



Iñigo has over 12 years' experience in the Telecommunications sector, with international experience in Spain, France, England and Brazil. Iñigo is the Sales and Marketing Director of Arycom. In addition to Arycom, Iñigo is Commercial Manager in SouthPartner, a company that helps foreign companies to establish themselves and start doing business in Brazil.

Prior to Arycom, Iñigo was the Sales Manager for Latin America and Europe in UDcast (France), manufacturer of IP Optimization Solutions for Satellite Communications and Mobile TV Solutions. Iñigo also worked as the IP Department Manager for Globecast Spain (France Telecom Group), a teleport offering Audiovisual Services, including video transmission over fiber, radio links and satellites.

About Arycom



Arycom is a Brazilian operator and provider of complete satellite solutions, duly authorized by the Brazilian regulator ANATEL to provide global mobile satellite services (SMGS), limited special services (SLE), and satellite capacity to users on land, at sea and in the air. Arycom is approved by the International Telecommunication Union as Accounting Authority for Brazil, BR03. Arycom offers complete and state-of-the-art solutions for satellite communications to customers in the Americas, including satellite capacity, airtime, satellite terminals, fix-to-mobile communications, network integration, installations, project management, value add applications and products, and 24/7 customer support in Portuguese, English and Spanish.

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