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Smi proudly present their 4th Annual:

MilSatCom Asia-Pacific

14 - 15 MAY
2014

GRAND COPTHORNE WATERFRONT HOTEL, SINGAPORE
Satellite technological advancement for effective military communications in Asia



CONFERENCE CHAIRMAN

Gregg Daffner, CEO, **GapSat**,
GVF Hong Kong Correspondent

CONFERENCE SPEAKERS INCLUDE:



Captain Jirapol Wongwit, Director of Policy and Plans
Division, Naval Communications and Information
Technology Department, **Royal Thai Navy**



Deanna Ryals, Chief International Military Satellite
Communication Division, MilSatCom Systems Directorate,
US Air Force*



Captain Rommel Anthony SD Reyes, Global Satellite
Communications, **Philippine Navy**



Lieutenant Colonel Jim Dryburgh, JS01 CIS J6,
New Zealand Defence Forces



Brigadier General (Retd) Pitre, Director General Space,
Canadian Armed Forces



Lieutenant Commander Georgios Mantzouris, University
of the Aegean, Ph.D, **Hellenic Navy**



Harold Haney, Chief Space and Missile Defense C4
Division, **USSTRATCOM**



Lionel Frion, Engineer, Engineer Spectrum management,
French Ministry of Defence, DIRISI



Patrick Gibassier, Head of Government Satcoms Export
Sales, **Airbus Defence & Space**



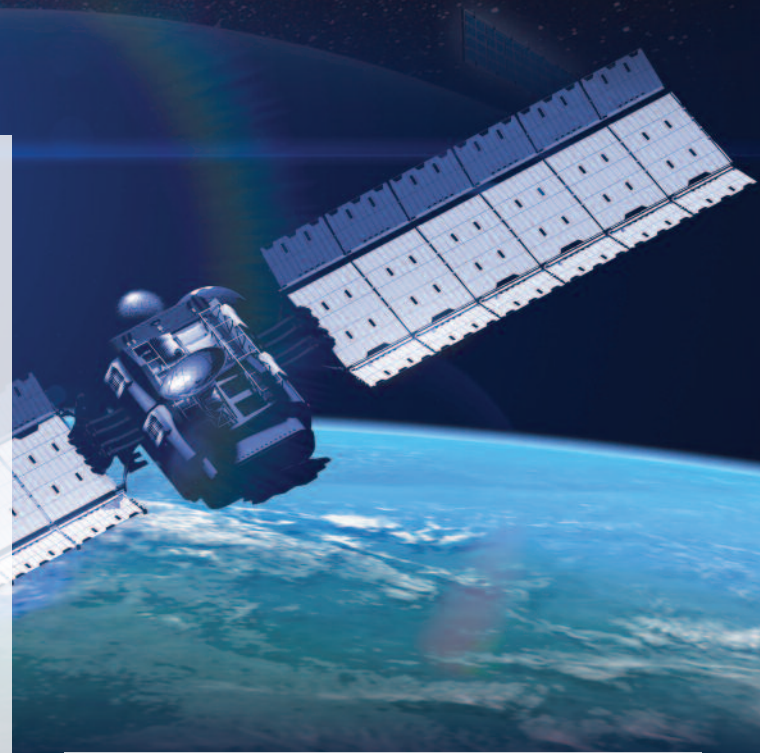
Tim Frei, Vice President, Communication Systems, Space
Systems Division, **Northrop Grumman Aerospace Systems**



Jose Del Rosario, Senior Analyst,
Northern Sky Research



Dr Danielle Wood, Adjunct Researcher,
Systems Institute, **Johns Hopkins University**



KEY TOPICS TO BE DISCUSSED:

- Regional military SatCom roadmaps and packages
- Technological advancement in SatCom capability
- Military SatCom requirements and capability
- US Pivot to Pacific and the consequences for MilSatCom
- Commercial SatCom developments and implications for the military
- Picosatellites and maritime security

* Subject to final confirmation

POST-CONFERENCE WORKSHOP | 16TH MAY

WHAT IS PROTECTED MILITARY SATELLITE COMMUNICATIONS?

Hosted by Mr. Rick Skinner, Northrop Grumman Aerospace Systems

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08.30 REGISTRATION & COFFEE

09.00

CHAIRMAN'S OPENING REMARKS

Gregg Daffner CEO, GapSat,
GVF Hong Kong Correspondent

OVERVIEW OF REGIONAL SATCOM CAPABILITY

09.10

Way Ahead of Philippine Navy SatCom

- Considering holistic SatComs solutions
- The possibility of hosted payloads
- Managing SatCom efficiently- leasing of smaller satellites



Captain Rommel Anthony SD Reyes, Global Satellite
Communication, Philippine Navy

9.50

Update on MilSatCom Capability in New Zealand

- Context - New Zealand and the Southern Hemisphere
- Capability drivers- requirement v resources
- A golf bag of carefully selected clubs
- A challenge to capability vendors



Lieutenant Colonel Jim Dryburgh, JS01 CIS J6,
New Zealand Defence Force

10.30 MORNING COFFEE

10.50

Airbus Defence & Space Session



Patrick Gibassier, Head of Government
Satcoms Export Sales, Airbus Defence &
Space

AMERICAN CAPABILITY AND DEVELOPMENTS IN THE PACIFIC

11.30

Operational SatCom Management

- MilSatCom management: Constellations, Policy and Operations COMSATCOM
- Management: policy, requirements developments and operations
- Future Expectations



Harold Haney, Chief Space and Missile Defense C4
Division, USSTRATCOM

12.10 NETWORKING LUNCH

* Subject to final confirmation

13.20

The Demand Curve for MilSatCom in the Asia Pacific

- The pivot and/or re-balance to the Asia Pacific
- Asian nations' plans to boost capabilities through internal capacity building as well as joined multilateral arrangements such as the WGS scheme
- Civil government initiatives in the area of disaster preparedness and management
- Current and future SatCom demand for military and civil government requirements



Jose Del Rosario, Senior Analyst,
Northern Sky Research

14.00

Current and Potential Future MilSatCom Architecture in the U.S

- Collaborative opportunities for international MilSatCom cooperation
- Where are we headed: Protected and wideband communications
- Working together: Consideration of hosted payloads and commercial like acquisition
- Insight into the schedule and strategy, capturing some of the challenges, opportunities and issues that might frame future collaboration in MilSatCom



Deanna Ryals, Chief International Military Satellite
Communication Division, MilSatCom Systems
Directorate, US Air Force*

14.40 AFTERNOON TEA

15.00

Session Reserved for iDirect



15.40

Canadian Armed Forces Satellite Communications: Current and Future Initiatives

- Today: Protected military satellite communications
- Mercury global
- Medium earth orbit search & rescue
- Tomorrow: Tactical Narrowband Satellite Communications



Brigadier General (Retd) Pitre, Director General Space,
Canadian Armed Forces

16.20

The Regulatory Perspective of SatCom and its Impact on Operational Use

- Overview of X and Ka bands plus UHF band
- Filings for satellite telecommunications: Resources available including spectrum plus orbital location
- The result of coordination - helping set the location of the satellite and Analysing how the frequencies will be used



Lionel Frion, Engineer, Engineer Spectrum
Management, French Ministry of Defence, DIRSI

17.00

CHAIRMAN'S CLOSING REMARKS AND END OF CONFERENCE DAY ONE

17.15-18.45

Drinks Reception Hosted by



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08.30 REGISTRATION & COFFEE

09.00

CHAIRMAN'S OPENING REMARKS


Gregg Daffner CEO, GapSat,
GVF Hong Kong Correspondent

SATELLITE ADVANCEMENT AND TECHNOLOGIES

9.10

Royal Thai Navy Satellite Communications Developments

- Growth of Thailand's military satellite programs
- Operational view point on satcom in use

 **Captain Jirapol Wongwit**, Director of Policy and Plans Division, Naval Communications and Information Technology Department, **Royal Thai Navy**

9.50

Protected MilSatCom for the Pacific Rim

- Growing threats – the need for more than just commercial SatCom
- New, more affordable protected satcom systems for international users
- The benefits of Interoperability and international cooperation in protected SatCom


 **Tim Frei, Vice President**, Communication Systems, Space Systems Division, **Northrop Grumman Aerospace Systems**

10.30 MORNING COFFEE

10.50

Technological Learning Within Emerging Satellite Programs in the Asia Pacific and Beyond

- Analysis of trends among domestic satellite programs in Asia Pacific region
- Application of systems architecture to model technology policy strategies
- Evaluation of technological learning
- Historical overview of technical achievements by emerging space nations

 **Dr Danielle Wood**, Adjunct Researcher, Systems Institute, **Johns Hopkins University**

11.30

Picosatellites and Maritime Security Research in the University of the Aegean. Maritime Security Risk Tracking

- Maritime areas risk level - vessel transiting from A to B
- Reduce risk levels with the effective use of picosatellites
- Minimum risk a vessel can handle to perform the mission effectively

 **Lieutenant Commander Georgios Mantzouris**, University of the Aegean, Ph.D, **Hellenic Navy**

12.10 NETWORKING LUNCH


13.20

Panel- SatCom Developments and Growth Across Asia

- Security of SatComs and counter terrorism
- Cost-effective usage of SatCom

Chair - **Gregg Daffner CEO, GapSat,**

GVF Hong Kong Correspondent


 **Dr Danielle Wood**, Adjunct Researcher, Systems Institute, **John Hopkins University**

 **Jose Del Rosario**, Senior Analyst, **Northern Sky Research**

14.00

Worldwide Ground Stations Network: A Commercial & MilSatCom Asset

- Worldwide ground stations network: definition & introduction
- Flexible solutions for any type of SatComs mission
- Add-on services leading to a successful mission

 **Nico Stephan**, Business Development Director Asia, **LSE Space Dubai**

14.40 AFTERNOON TEA

DEVELOPMENTS IN THE REGULATORY ASPECTS AND SPACE PLATFORMS IN SATCOM

15.00

Update on Certification of US and DoD Militaries in Asia

- Capacity building & training
- Case study of one such program
- Network validation & benchmarking

 **Riaz Lamak**, International Director Benchmarking & Validation, **GVF**

15.40

The March Towards a Network Centric Warfare Capable Navy for Maritime Roles and Missions

- Use of Indigenous space platforms for extended reach, connectivity and operational flexibility of military vessels
- Enhancement of C4ISR capability by MilSatCom in the Indian Ocean Region for facing conventional and asymmetric maritime threats
- Functionality for emergency communications and disaster management
- Options for collaborative efforts and the future of NCW/NCO in the Indo Pacific Arena

 **Commodore Seshadri Vasan**, IN(Retd) Head, Strategy and Security Studies, **Center for Asia Studies**

16.20

CHAIRMAN'S CLOSING REMARKS AND END OF CONFERENCE

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Northrop Grumman Corporation is a leading global security company providing innovative systems, products and solutions to government customers worldwide. Northrop Grumman has a well-established international presence serving customers in Asia Pacific, the Middle East and European regions. Northrop Grumman has provided protected satellite communications payloads for the military for 30 years – the only company that provides this capability – and is now developing increasingly. www.northropgrumman.com

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What is Protected Military Satellite Communications?

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NORTHROP GRUMMAN

Overview:

In recent years, Protected Satellite Communications has become crucial to support the tactical as well as the strategic warfighter. But just what is protected satellite communications? Many believe that protected communications only means it is protected against jamming, but it needs to be much more than that to deal with the threats we see today and forecast for tomorrow. This workshop will examine the threats to successful military satellite communications and the approaches needed to mitigate them.

Host: Rick Skinner, Director, Business Development, SatCom, Northrop Grumman Corporation

Who should attend:

- Military decision-makers for MilSatCom or future warfighting capability
- Military Communications Personnel - Operations & Engineering
- Satellite Operators (Commercial, Sales & Marketing) who may be interested in providing protected capabilities
- Satellite prime contractors who may have a role in their countries' MilSatCom systems

Programme:

- 9.00 Registration & Coffee**
- 9.30 Military dependence on Satcom**
- 10.00 Overview of Growing Threats that Demand Protection**
- 10.30 What do we mean by protected?**
- 11.00 Coffee Break**
- 11.15 Approaches to protected and resilient capabilities**
- 11.45 The current protected MilSatCom Architecture**
- 12.15 Guiding principles to be considered for the definition and acquisition of protected military satellite communications**
- 13.00 Close of Workshop**

About Northrop Grumman

Northrop Grumman is the world leader in providing protected satellite communications. They are putting together a workshop that will increase the attendee's understanding of the threats in the world we face, how those threats can be countered, and some useful guidelines for decision-making as partners in the Asia-pacific region decide how to best provide their nations' MilSatCom.

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MILSATCOM ASIA-PACIFIC

14 - 15 MAY 2014 | GRAND COPTHORNE WATERFRONT HOTEL, SINGAPORE POST-CONFERENCE WORKSHOP: 16TH MAY

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