

SATELLITE COMMUNICATIONS REGULATIONS WORKSHOP

18-22 April 2016

London, UK



COMMONWEALTH
TELECOMMUNICATIONS
ORGANISATION



Overview

Today satellites provide a key element of communications for not only the landlocked countries and island states, but for other countries as well, particularly to connect dispersed populations. With the proliferation of satellite communications, its regulation is becoming increasingly important.

Participants of this five-day programme will gain a deep understanding of regulating satellite communications, through classroom learning as well as by experiencing satellite communications regulation in practical settings.

For more information:
about this course, or to register,
contact us on:
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Objectives

- Upon completion of this course, participants will comprehensively understand:
- The fundamentals of satcom systems and its evolution
- National, Regional and Global satellite systems
- Satellite Design Considerations
- Coordination of satellite networks and associated challenges
- ITU procedures on registering satcom systems including the role of the Radio Regulation Bureau
- The role of national regulators in regulating satcoms
- Legal frameworks for satcoms
- Ways of regulating satellite space segments and ground segments
- Spectrum requirements for satellite communications and IMT
- 5G and beyond
- WRC-15 and impact on the satellite industry
- WRC-19 and issues for the satellite industry
- Future trends of satcoms

Course Outline

DAY ONE

Monday 18 April 2016

1100-1130

- Registration/Morning Coffee
- Welcome and Ice breaking exercise

1130-1140

Hilda Muchando, Manager, Capacity Development,
Commonwealth Telecommunications Organisation (CTO)

1140-1200

- The new CTO Strategic Plan: promoting enabling regulatory environment and the case for a forward looking national satellite communications regulations framework

Shola TAYLOR, Secretary-General, **Commonwealth Telecommunications Organisation (CTO)**

1200-1230

- Setting the Stage
 - Fundamentals of Satcom Systems
 - Evolution of Satcom Systems
 - National, Regional and Global satellite systems
 - Legal framework for satellite communications
 - ITU, RRB, WRC, the UN Outer Space
 - Types of communications satellite systems
 - FSS, MSS, BSS, RDSS, Metsat

Shola TAYLOR, Secretary-General, **Commonwealth Telecommunications Organisation (CTO)**



1230-1330 Lunch Break

- Filing and authorisation process for satellite **space segment** including technical and administrative documentation required
 - Radio Regulations
 - Coordination Request and Notification Procedures

1330-1500
Chuen Chern LOO, Head, Data Treatment Section, BR/SSD/SPR,
International Telecommunication Union (ITU)

1500-1530 Afternoon Break

- Filing and authorisation process for satellite **space segment** including technical and administrative documentation required
 - Notification and Recording in the MIFR

1530-1600
Chuen Chern LOO, Head, Data Treatment Section, BR/SSD/SPR,
International Telecommunication Union (ITU)

DAY TWO
Tuesday 19 April 2016

- Filing and authorisation process for satellite space segment including technical and administrative documentation required
 - Introduction to the Space Plans (BSS and FSS)
 - BR Space Software and Databases
 - BRIFIC (Space Services) DVD
 - Space Web Services

0900-1030
Chuen Chern LOO, Head, Data Treatment Section, BR/SSD/SPR,
International Telecommunication Union (ITU)

1030-1100 Morning Break

- Filing and authorisation process for satellite space segment including technical and administrative documentation required
 - Receivability of Space Notices
 - Advance Publication Information (API) for satellite networks subject or not subject to coordination

1100-1230
Chuen Chern LOO, Head, Data Treatment Section, BR/SSD/SPR,
International Telecommunication Union (ITU)

1230-1330 Lunch Break

- Filing and authorisation process for **ground segment** including technical and administrative documentation required
 - Coordination of Earth Stations



- Capture and Validation of Earth Station Notification

Chuen Chern LOO, Head, Data Treatment Section, BR/SSD/SPR,
International Telecommunication Union (ITU)

1500-1530

Afternoon Break

- The Filing process – hands on experience
 - Capture and Validation of an API for a satellite network not subject to coordination
 - Submission of regulatory comments using SpaceCOM

1530-1700

Chuen Chern LOO, Head, Data Treatment Section, BR/SSD/SPR,
International Telecommunication Union (ITU)

DAY THREE

Wednesday 19 April 2016

0900-1030

- Elaborating a national satellite communications regulatory framework
 - Types of satellite services to be considered for regulations
 - Space segment operations, earth station operations, gateway operations etc
 - Role of a national regulator in regulating satellite communications
 - Enabling market access, security concerns, licensing fees, enforcement
 - Regulatory approaches to regulating satellite communications

Shola TAYLOR, Secretary-General, **Commonwealth Telecommunications Organisation (CTO)**

1030-1100

Morning Break

1100-1230

- Elaborating a national satellite communications regulatory framework
 - Space segment registration and national licensing framework
 - Spectrum licensing for space segment
 - National satellites and foreign owned satellites
 - Landing rights
 - Earth station registration and national licensing framework
 - VSATs, GMPCS global roaming, Gateway licensing etc
 - Type Approvals
 - Regulations in the Nigerian context – Nigcomsat, NASRDA, Galaxy, VSAT operators etc

Shola TAYLOR, Secretary-General, **Commonwealth Telecommunications Organisation (CTO)**

1230-1330

Lunch Break

1330-1500

- Challenges of filing a new satellite system



- Due diligence and regulatory time limits
- Bringing into use and ITU cost recovery regulations
- Satellite filing fees

Chuen Chern LOO, Head, Data Treatment Section, BR/SSD/SPR,
International Telecommunication Union (ITU)

1500-1530

Afternoon Break

1530-1700

DAY FOUR

Thursday 21 April 2016

- WRC-15 and impact on the satellite communications industry

0900-1030

Chuen Chern LOO, Head, Data Treatment Section, BR/SSD/SPR,
International Telecommunication Union (ITU)

1030-1100

Morning Break

1100-1145

ESIMS station in motion – Regulatory, technical and licensing aspects of ESIMs

Ms. Laura Roberti, Director, Market Access, **Inmarsat UK**

Captain Moin AHMED

1145-1230

Director General, International Mobile Satellite Organisation (**IMSO**)

1230-1330

Lunch Break

Open Forum – outstanding issues arising

1330-1500

1500-1530

Afternoon Break

1530-1600

Wrap Up

1600-1730

Cocktail Reception hosted by Mr Shola TAYLOR, Secretary-General, CTO



DAY FIVE
22 April 2016
Visit to Ofcom, the UK Communications Regulator

	Satellite Communications Regulations in practice
1000-1300	Role of a national regulator in regulating satellite communications