

ASBU Satellite Interference Forum

6th, 7th October 2013

Tunis

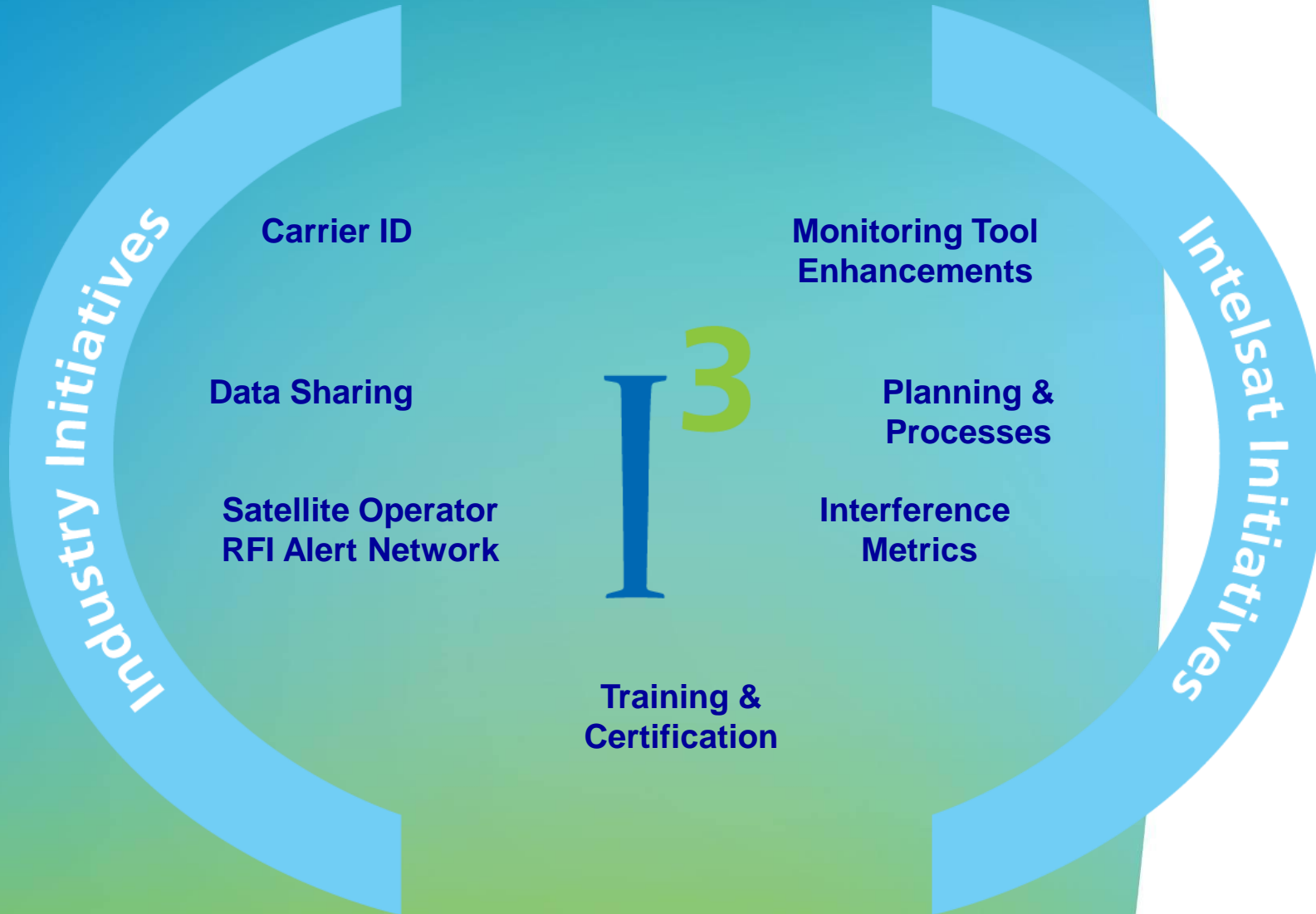
Shahrokh Khanzadeh-Amiri
Intelsat
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Satellite Services and Interference – The Current Situation “Tool Box”

○ Interference Tool Box

- Geolocation
 - Improved capabilities
- Carrier ID
 - Carrier ID working groups
 - The DVB-CID specification has been officially published by ETSI
 - Developing an implementation plan for Intelsat teleports
- Data Sharing
 - SDA - Interference requirements under review
- Experienced Staff

Managing the Satellite Interference Environment “Initiatives”



Managing the Satellite Interference Environment “Initiatives”

Training and Certification

The problem:

- Over 90% of RFI is caused by uplinker error and/or faulty equipment
- Leading cause - Inexperience and lack of training

Addressing the problem:

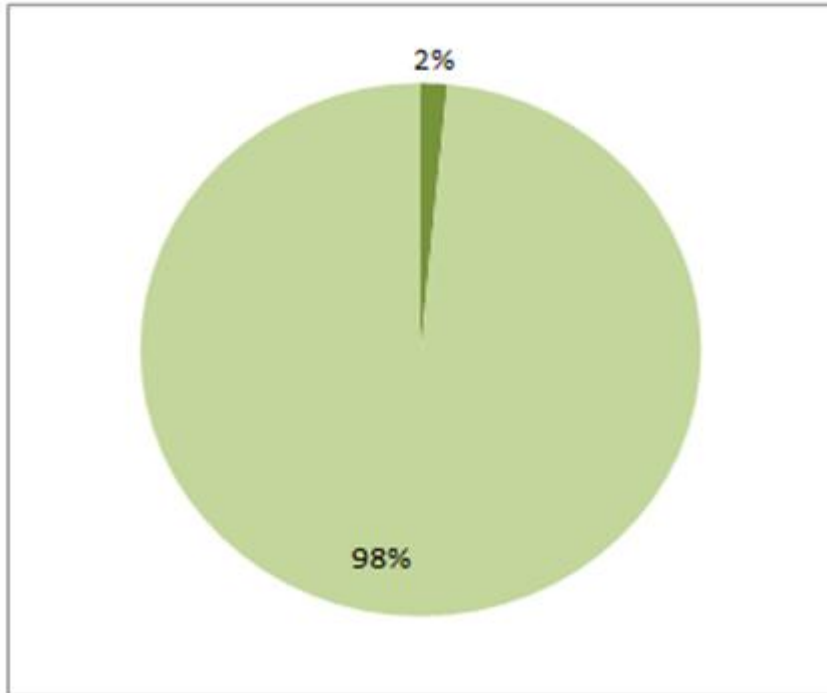
- Intelsat launched a 3-year training initiative in October, 2009
- Free training for 2 individuals per company / discounts for additional
- Training vendors selected and endorsed by Intelsat:



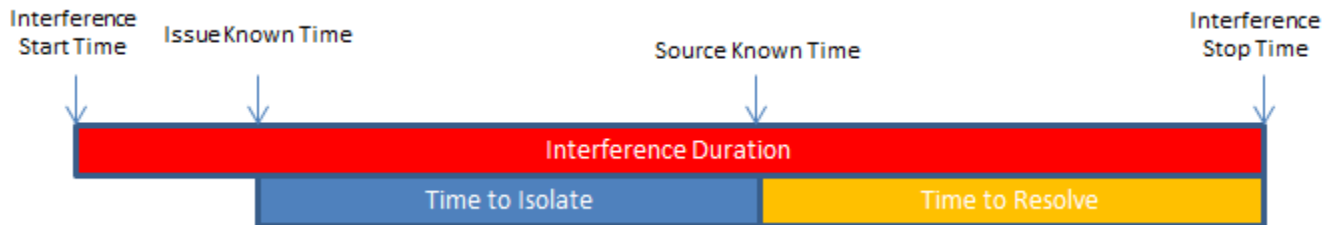
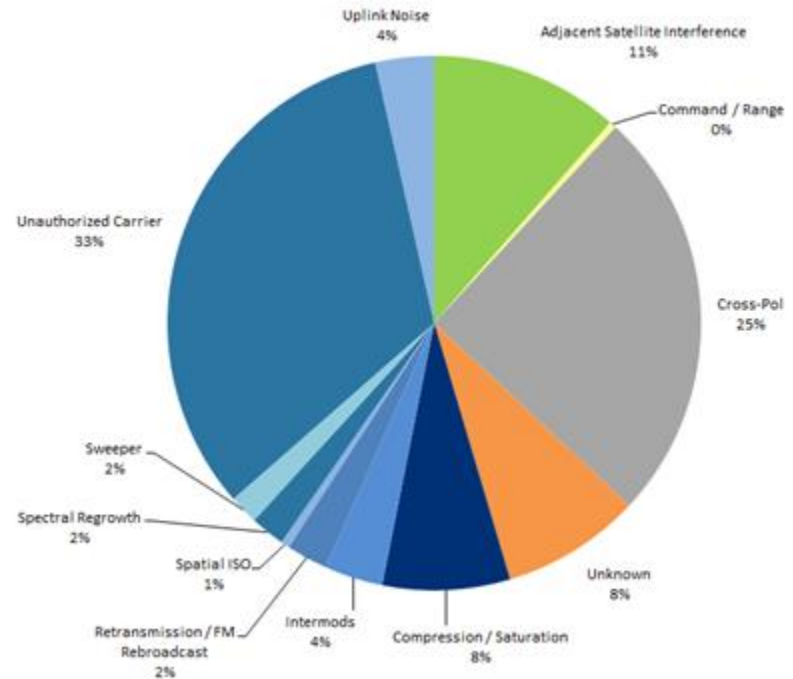
- GVF Courses sponsored by Intelsat (Intelsat 275 / Customers 1042)
 - Intelsat Examiners: 12 / Intelsat Examiner Teleports: FUS, Napa, MTN, ATL, RVS
- SlingPath Courses sponsored by Intelsat (SNG Operators: 117)

Satellite Services and Interference – “Metrics”

Capacity impacted by Interference



Interference Type Breakdown by Ticket



Managing the Satellite Interference Environment “Initiatives”

Satellite Operators Interference Reduction Working Group

- Formed March 2009
- 18 satellite operators joined
 - Endorsed I³ program goals
 - Meeting monthly
 - Subcommittees
 - Carrier ID
 - Operator RFI Alert Network



Nilesat

What is the Space Data Association?

- The Space Data Association (SDA) is a not-for-profit association formed by and for satellite operators to provide reliable and efficient data-sharing critical to the safety and integrity of the space environment and the RF spectrum.
- The SDA was founded by **Inmarsat**, **Intelsat** and **SES** — three of the leading global satellite communications companies. These three companies, plus **Eutelsat**, now form the Executive Board of the SDA.

“Safety of Flight”

Definition: The condition where satellites are positioned and operated in a manner that preserves their long-term operational viability and the preservation of the orbital regime(s) involved

SDA Missions

- **Increases safety of flight**
- **Deals with the growing problem of RFI**
 - RFI Alerts to focused distribution
 - RFI historical event search
 - Generation of geolocation data sets
 - Library of Reference Emitters
- **Enables more efficient operations for all**
 - Reliable contacts database for satellite operators – technical and operations personnel

Conclusion: SDA Enhances its Members' Satellite Operations

Satellite Services and Interference

Thank you!

Shahrokh Khanzadeh-Amiri
Managing Sales Director
Intelsat
Office 411/412, Building 11
Dubai Internet City
Dubai,
UAE
Office: +971 4 390 15 15
Shahrokh.amiri@intelsat.com