



ICAO Presentation – VSAT Network Solutions

by Uwe Kurpat, Sales Manager Message Handling Products

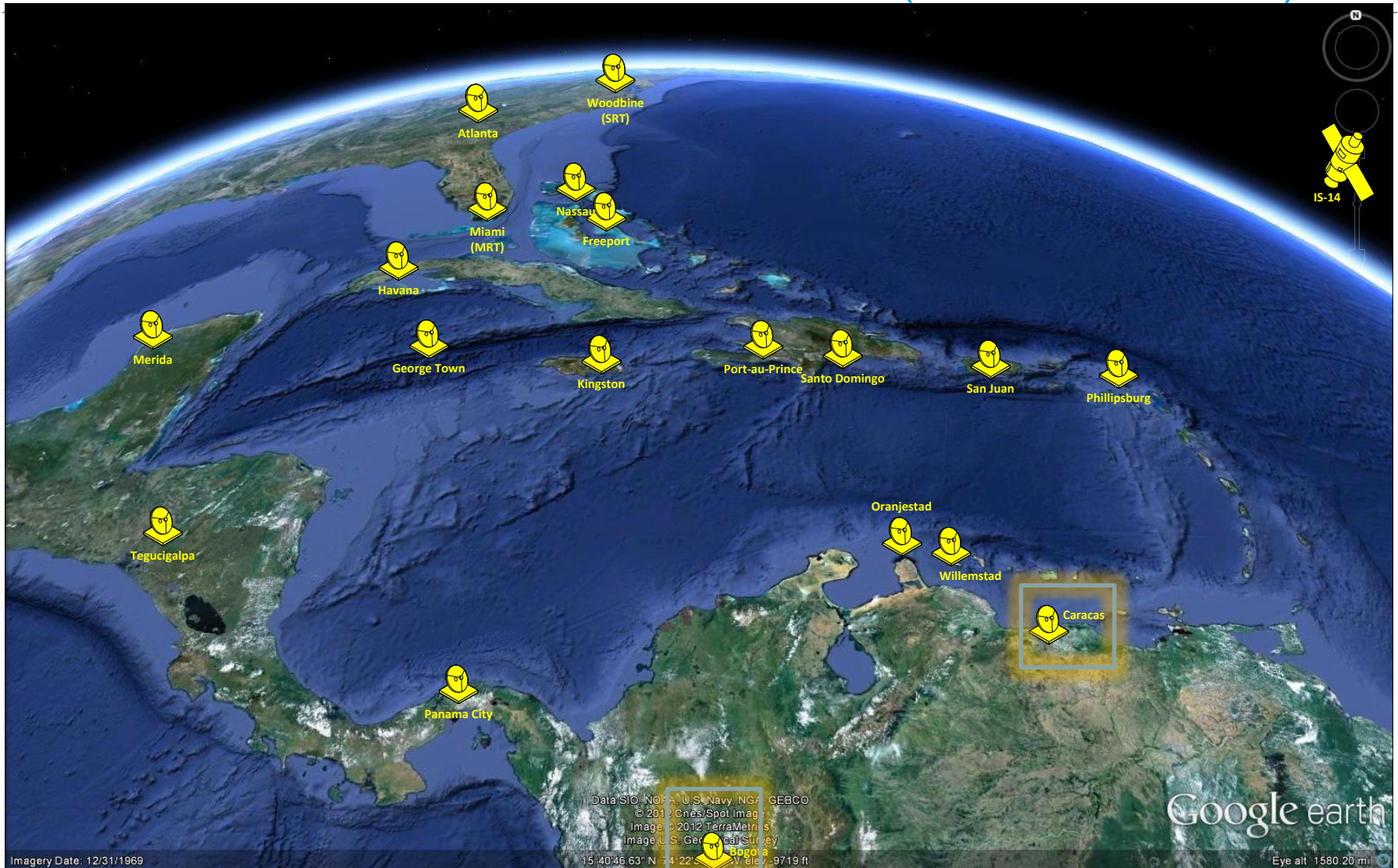
COMSOFT's VSAT-based Network Solutions

ICAO MEVA III
RESAP (CORPAC Peru)

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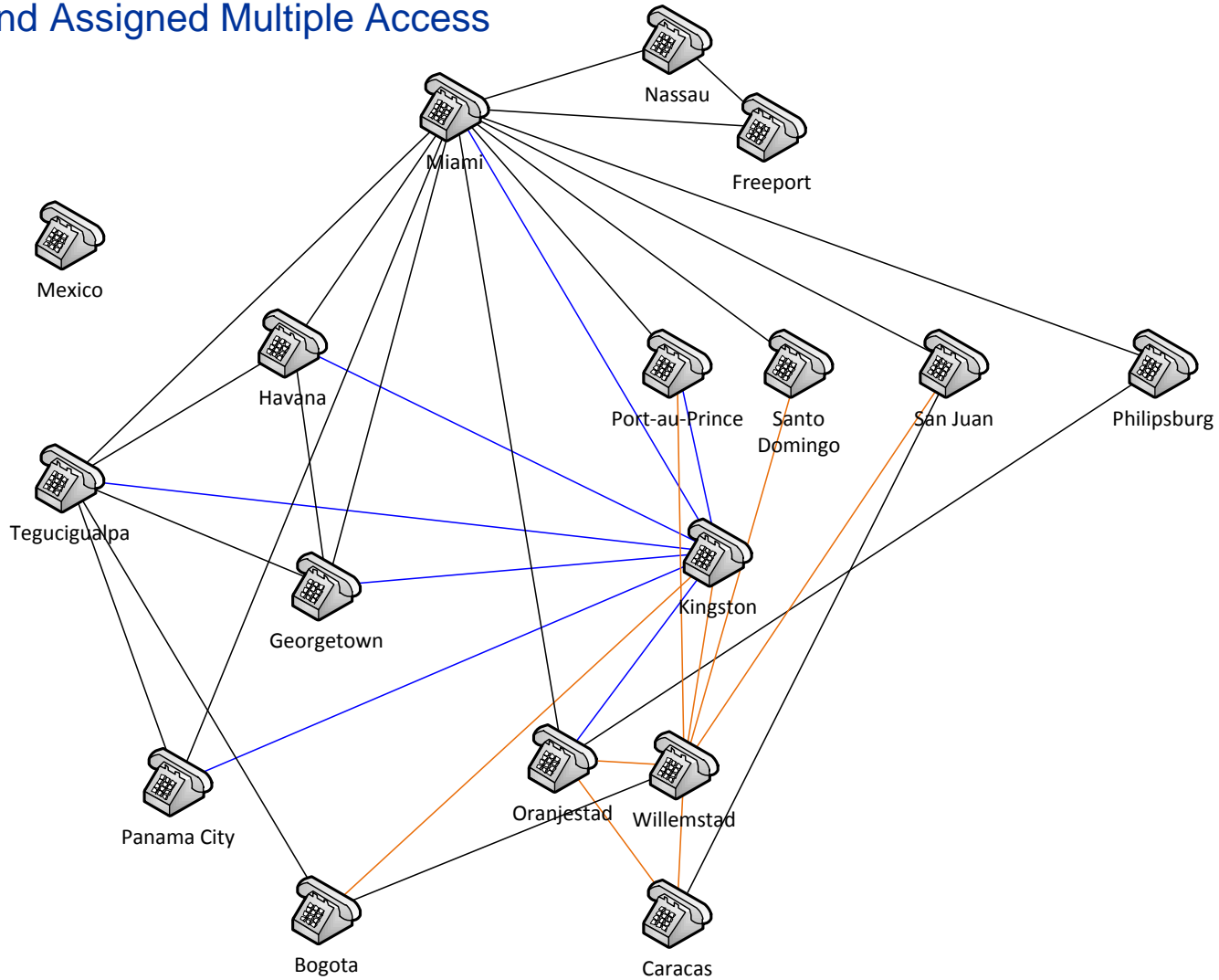
ICAO MEVA III – Network Overview

17 MEVA Sites + 2 Non-MEVA Sites (REDDIG Access)



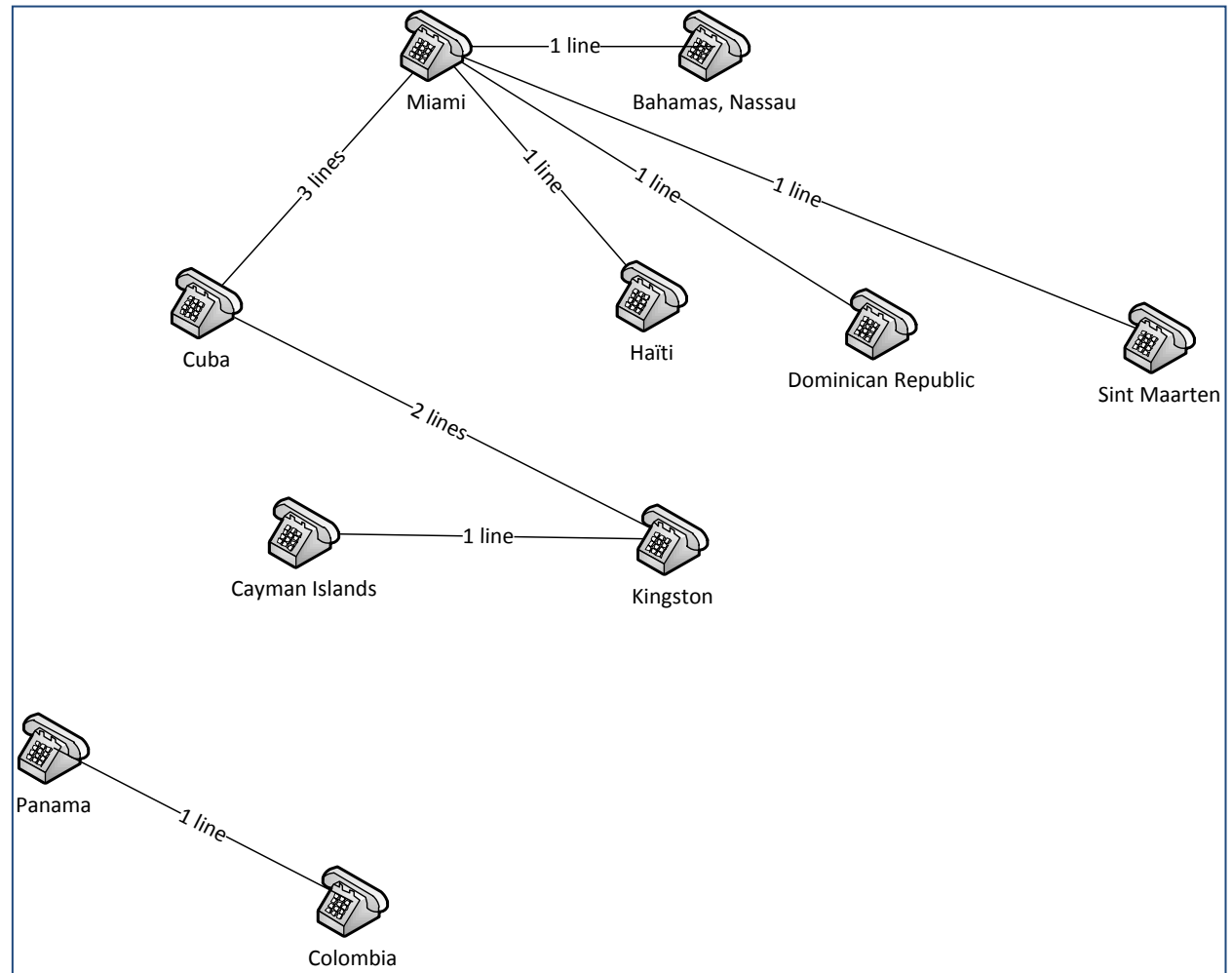
ICAO MEVA III – Voice Circuit Connectivity (DAMA)

DAMA = Demand Assigned Multiple Access



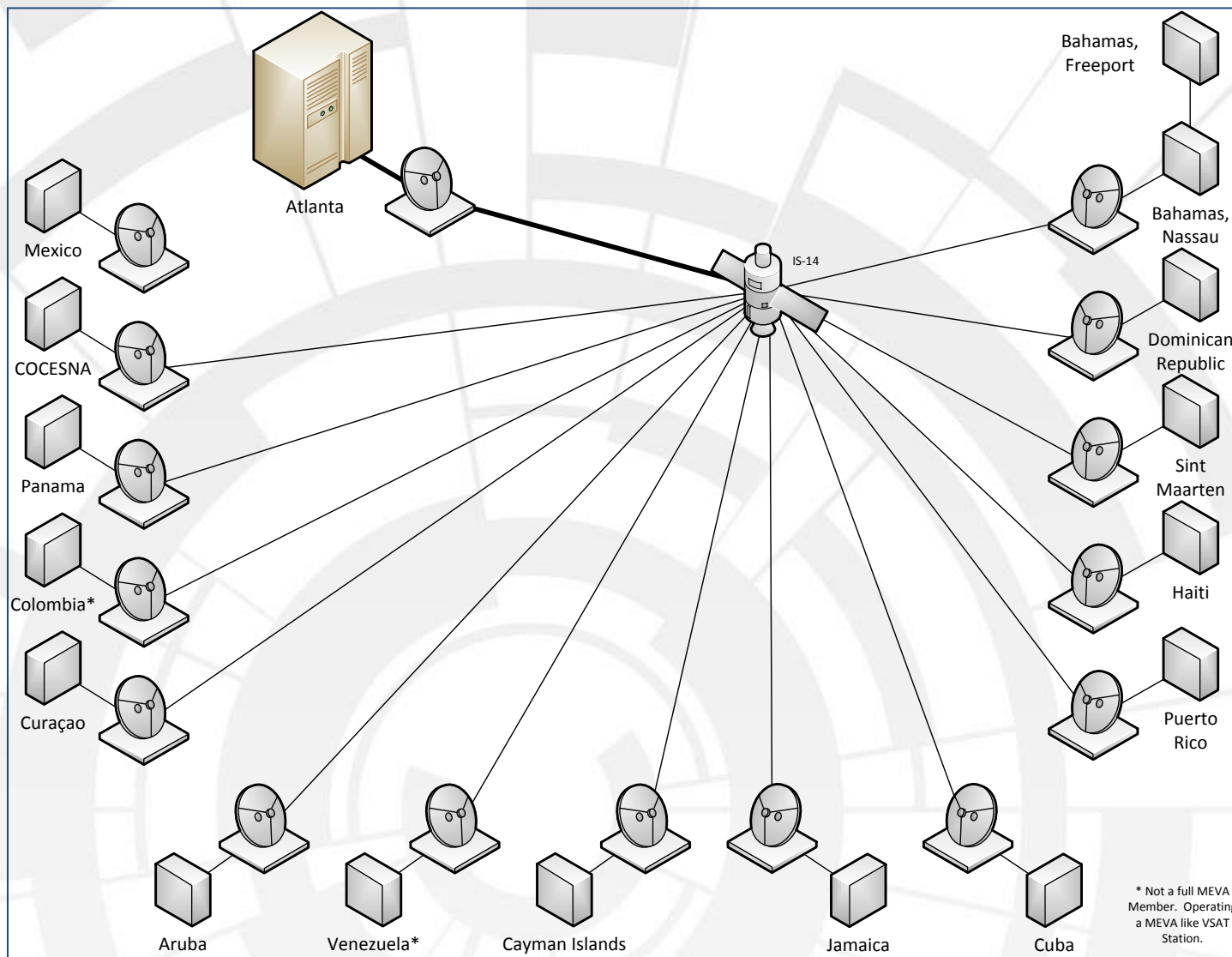
ICAO MEVA III – Voice Circuit Connectivity (PAMA)

PAMA = Permanent Assigned Multiple Access



ICAO MEVA III – Data Circuit Connectivity

Surveillance Data, AFTN/AMHS

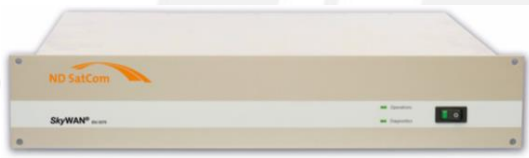
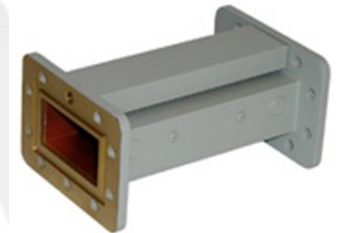
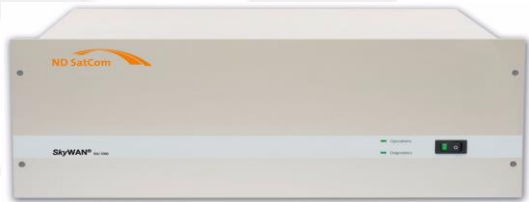


ICAO MEVA III – Network Requirements

- Network Transmission: IP-Data Circuits (Radar, AFTN/AMHS)
Voice Circuits (AMS, PAMA, DAMA)
- Network Topology: Meshed / Fully Meshed
(MF-TDMA)
- Network Availability: 99,9%
- Interconnection with ICAO REDDIG-II Network (sites Bogotá and Caracas)
- Preparation of Interconnection with ICAO E/CAR Network
- Provisioning of Network Design, Implementation, Operation (Monitoring, Maintenance)
- Re-use of existing network equipment (Outdoor Unit as Antennas)
- Know-How Transfer / Detailed Training Package
- Redundancy Option

ICAO MEVA III – Network Equipment Solution

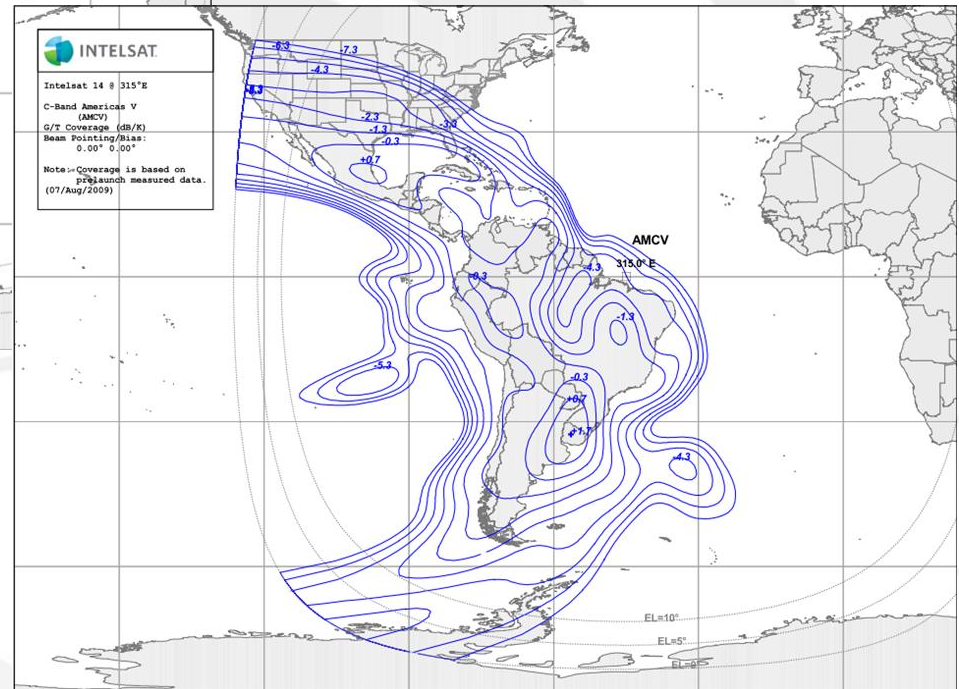
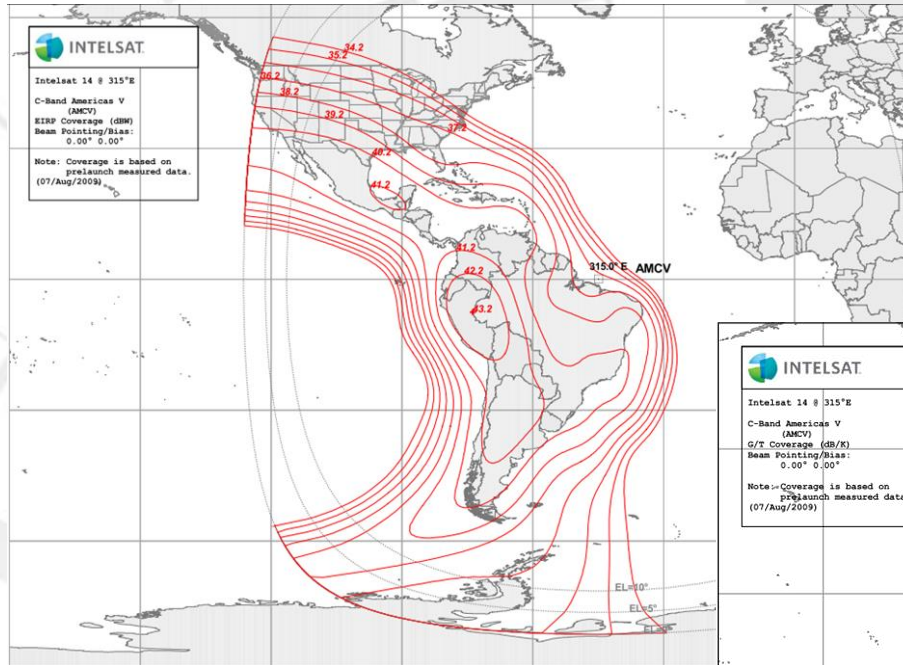
- 3.8m Tx/Rx Antenna (C-Band)
- Satellite Modem SkyWAN IDU 7000 / IDU 2570
- Multiplexer FAD 9220 / 9230
- Amplifier RFT-5040 (optionally as redundant solution with RCU-5000 package)
- LNB
- Radar Elimination Filter



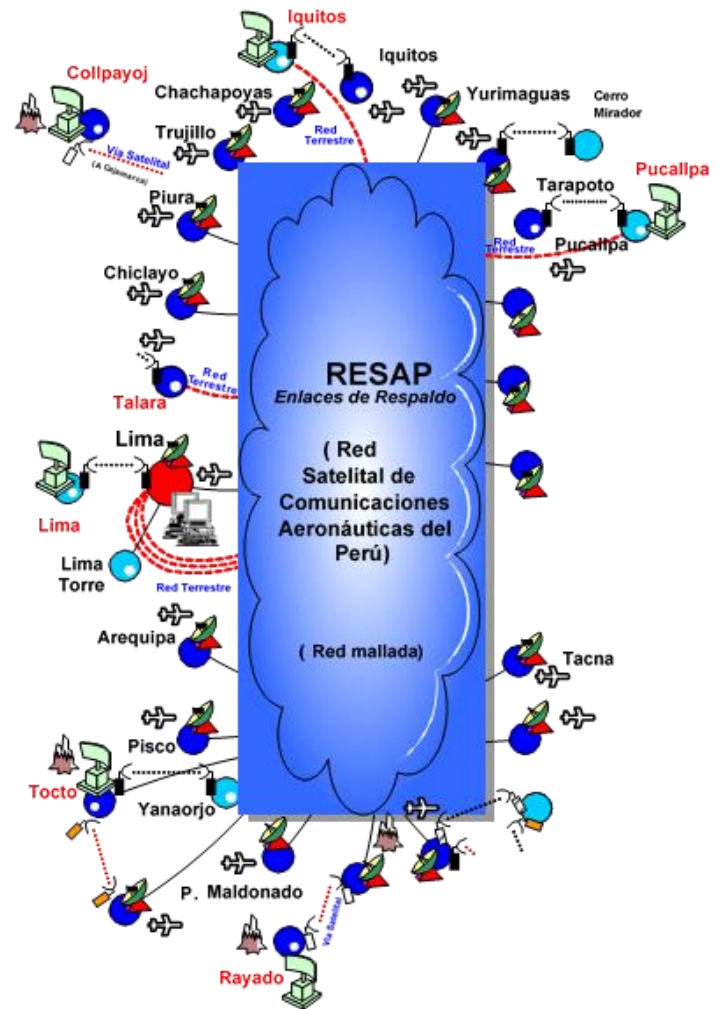
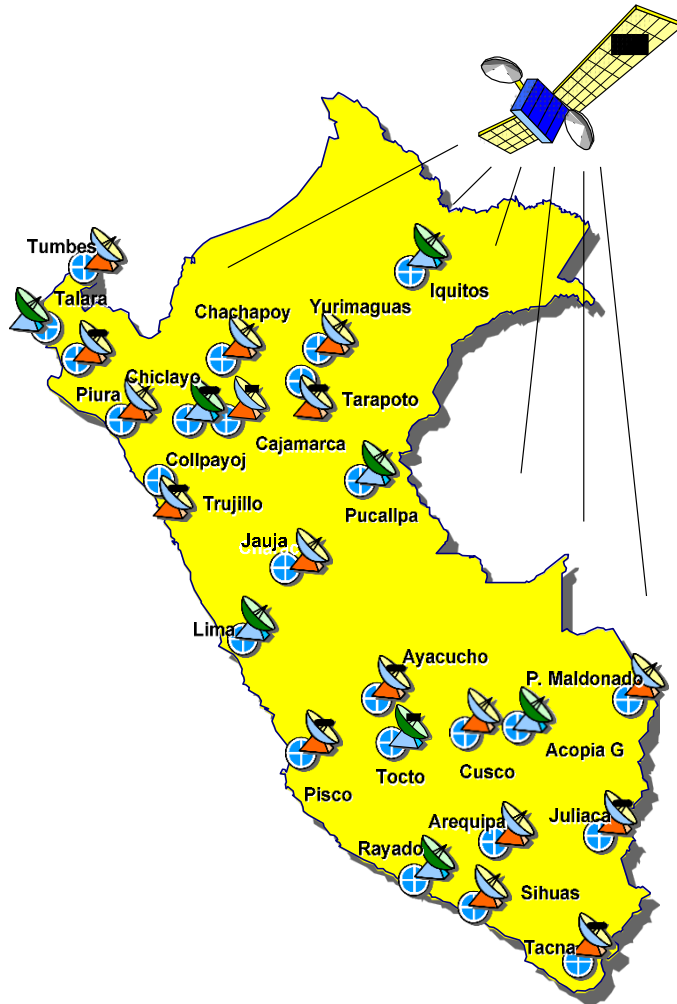
ICAO MEVA III – History / Milestones

- Request for Information (RFI) – November / December 2012
- Request for Proposal (RFP) – July – October 2013
- Invitation for Contract Negotiations – December 2013
- **Contract Signature – scheduled for April/May 2014**
- Start of Project Implementation – scheduled for May/June 2014
- Implementation Period – approx. 6 months
- Start of Network Operation - scheduled for January/February 2015

ICAO MEVA III – Satellite Solution IS-14 (C-Band)



CORPAC Peru – RESAP Network Overview

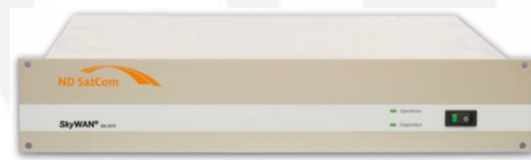
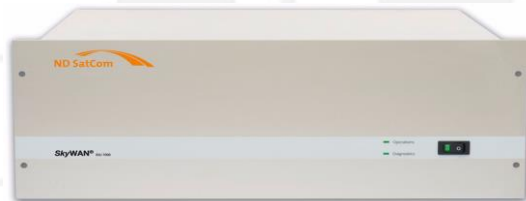
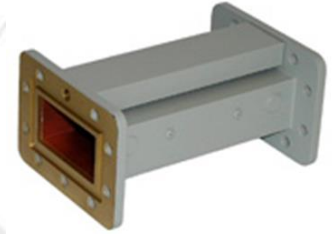


CORPAC Peru – RESAP Network Requirements

- Network Transmission: IP-Data Circuits (Radar, AMHS/AFTN)
Voice Circuits (PAMA, DAMA, VHF-ER, ATS)
- Network Topology: Meshed / Fully Meshed
(MF-TDMA / Frame Relay)
- Network Availability: 99,5%
- Redundant Station Design
- Redundancy by a Backup-Satellite
- Provisioning of Network Design, Implementation, Operation (Monitoring Support, Maintenance)
- Know-How Transfer / Customized Training Package
- Implementation of REDAP Network (08 Nodes)

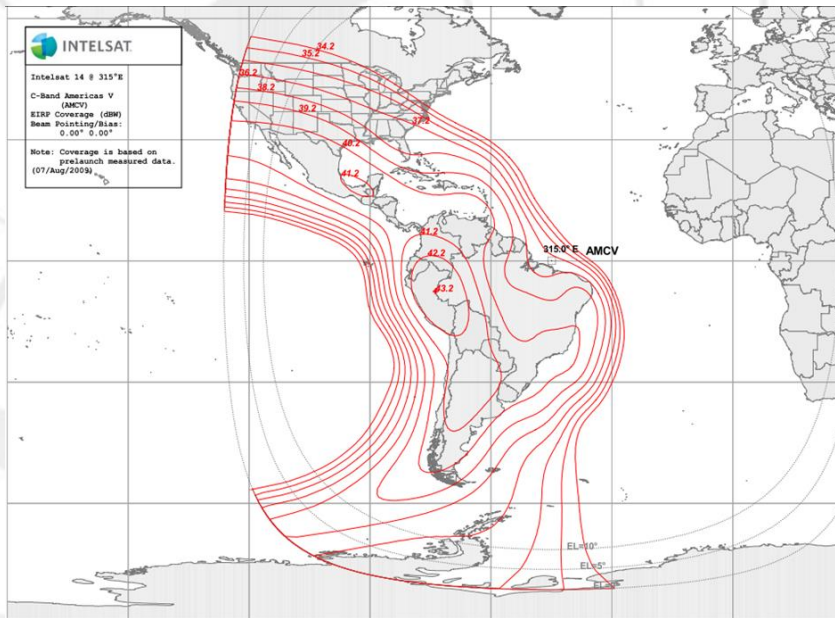
ICAO MEVA III – Network Equipment Solution

- 3.8m Tx/Rx Antenna (C-Band)
- Satellite Modem SkyWAN IDU 7000 / IDU 2570
- Multiplexer FAD 9220 / 9230
- Amplifier RFT-5040
- CODAN Redundancy Kit
- LNB
- Radar Elimination Filter
- UPS
- Microwave Links
- Civil Works
- Network Management System (NMS)

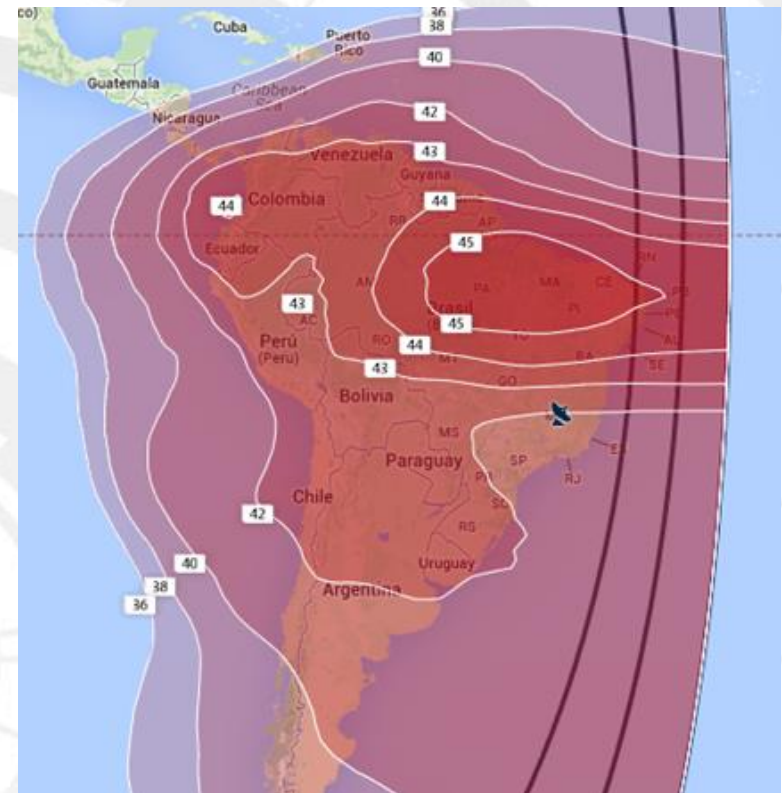


CORPAC Peru – RESAP Satellite Solution

- Main Satellite - IS-14 (C-Band)



- Backup Satellite – ANIK G1 (C-Band)



CORPAC Peru – History / Milestones

- Request for Information (RFI) – February/March 2013
- Request for Proposal (RFP) – November-December 2013
- Invitation for Contract Negotiations – December 2013
- Tender Award – December 2013/January 2014
- Contract Signature – March 2014
- Start of Project Implementation – March 2014
- Implementation Period – 550 Days
- Start of Network Operation - scheduled for December 2015



THANK YOU



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