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CANSO LATIN AMERICA AND CARIBBEAN CONFERENCE 2018

INNOVATION, INTEGRATION AND INVESTMENT IN AIR TRAFFIC MANAGEMENT

5-7 November, Buenos Aires, Argentina

Remote and Digital Towers and the importance of ATM grade networks workshop hosted by Frequentis



MONDAY 5 NOVEMBER

11:00-13:00

Air navigation service providers (ANSPs) and airport operators around the world are facing increasing pressure from airspace users and competition in tower air traffic control (ATC) markets. They are challenged to modernise air traffic control services to increase efficiency, while at the same reducing costs and meeting performance, safety and regulatory requirements.

As not every airport is the same, Frequentis has designed this two hour workshop that looks how a remote and digital tower solution provides the right functionality to improve ATC operations and support the required business model. Depending on user requirements, it can be implemented with three options that will improve airport operations: view enhancement; contingency solution; and remoting of ATC operations. The remote and digital tower solution enables the remote provision of ATC services from different geographic positions, using a multitude of local sensors, visual and infrared technology including advanced tracking and video processing and surveillance solutions based on multilateration or ADS-B, to provide the situational awareness needed for the controller to safely operate an airport.

However, remote and digital towers or any other new generation ATM application rely on a network infrastructure that is able to provide the required performance. The end-to-end design plays a major role for such implementations. Future ATM-grade networks are designed for all operational and administrative applications utilising the same network infrastructure.

Highest end-to-end performance by matching heterogeneous requirements and network capabilities for highest service availability		
Scalable Networks	Situational Awareness	Intelligent Routing and Control
Integrating diverse technologies and multi-vendor	End-to-end real-time monitoring of all applications and networks	Matching real-time network performance and application needs

In this session, Frequentis will explain the background for the **Remote and Digital Tower** concept, the main user cases and how, by respecting each airport's singularities, it is achieving successful operational experience for those early adopters of operational towers. It will also look at how to achieve the required end-to-end performance and how an **ATM-grade network** differs from a conventional network. The presentation will reference projects like Brazil and MEVA III, how these high standards are fulfilled and the accomplishments that were achieved to reduce the TCOs while increasing the end-to-end performance.

PRESENTERS

Adriana Mattos Candez
Head of Sales, Latin America
Frequentis Group

Werner Messiner
Strategic Product Manager, ATM Networks
Frequentis Group