

Agenda



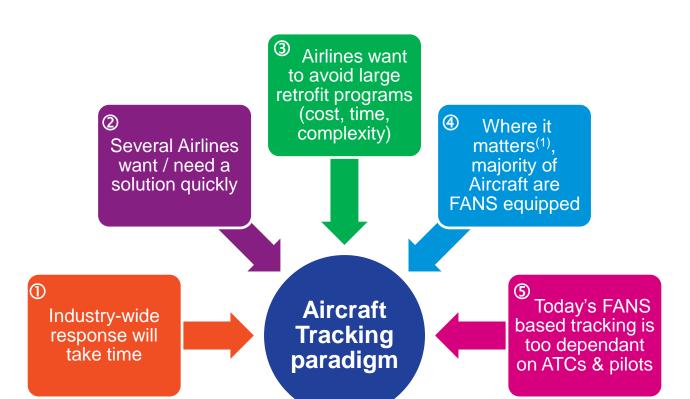
Responding quickly to an industry challenge

SITA's unique solution: Airline Global Aircraft Tracking

Working with Inmarsat on a fast implementation



Responding quickly to an industry challenge



FANS equipped aircraft can be much better leveraged to bring a quick, simple and affordable solution to Airlines

(1) Oceanic routes outside of radar coverage



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SITA's unique solution: Airline Global Aircraft Tracking



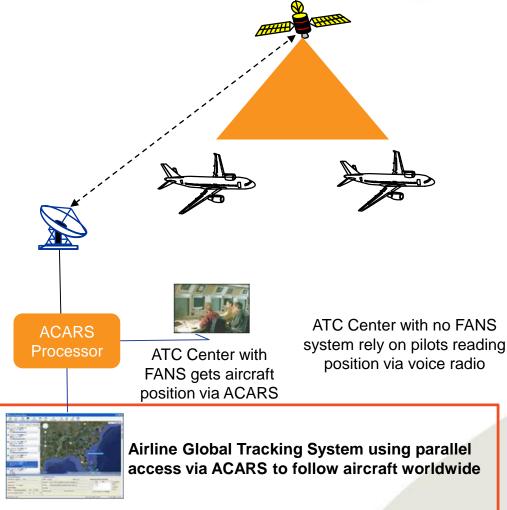
Airline Global Aircraft Tracking



Airlines have not upgraded ground systems with special ATC ground system **interface to FANS avionics**

SITA can uniquely merge the AIRCOM ATC system and AIRCOM Server to provide airline global tracking

Airline global tracking will cover gaps where ATC has no FANS systems and monitor movements between different ANSP areas

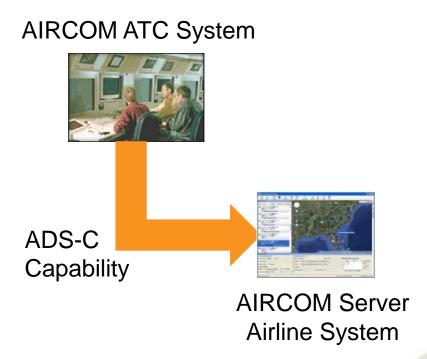




Airline access to FANS Surveillance



- ATC definition of FANS surveillance included support for parallel contracts with up to 5 ground systems including one from an airline system
- Airlines have not implemented links to FANS avionics because they use an extra ATC protocol layer over ACARS to handle ATC center addressing & binary data to text conversion
- SITA sells ANSPs a FANS system which has the required interface
- SITA can uniquely add it to AIRCOM Server airline ground system product

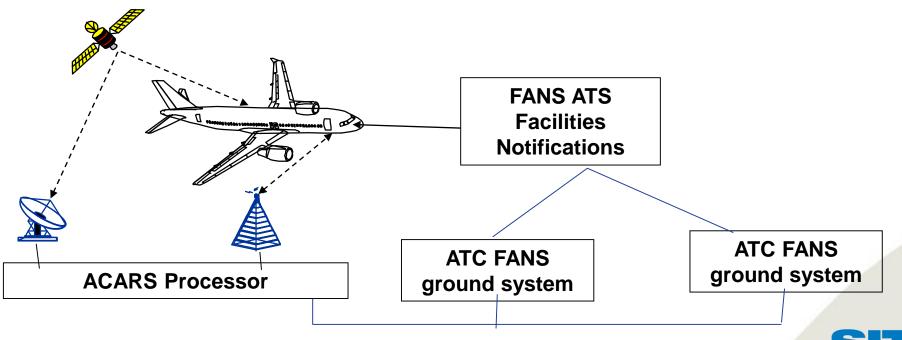




Airline access to FANS Log-On Status



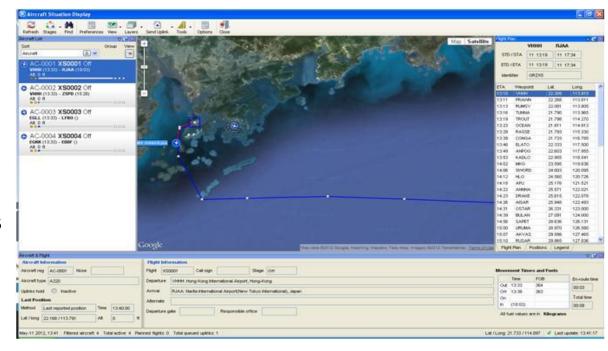
- Airlines currently have no visibility of their FANS avionics log-on status to ANSPs
 - FANS ATS Facilities Notification (AFN) module manages contact across ACARS with ANSPs
 - ANSP FANS systems send AFN handoff messages to pass aircraft on to the next ANSP
 - SITA can provide airlines with visibility of AFN log on status of the FANS equipped aircraft
 - Airlines will be able to see when aircraft fail to log on top the expected ANSP FANS system



AIRCOM Server Flight Monitor



- SITA AIRCOM Server flight following uses ATC radar feeds and ACARS message copies to show aircraft on Google Maps
- Airlines will configure new aircraft tracking module to specify reports to be requested form FANS equipped aircraft
- Airlines control of reporting frequency will give control of ACARS usage to avoid excessive costs

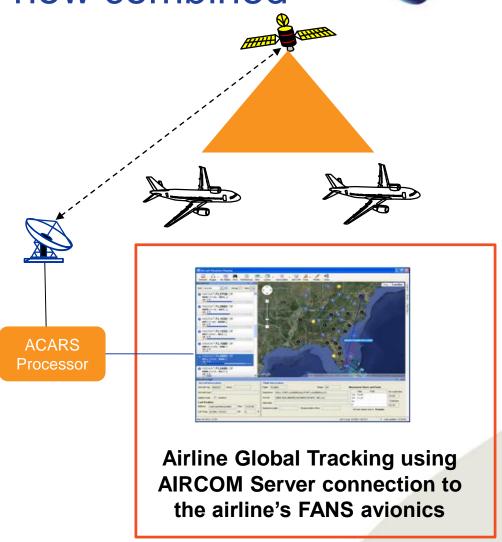


 80+ airlines use the AIRCOM Server good platform to give the airline community global aircraft tracking



SITA ATC & Airline know-how combined

- SITA AIRCOM 25 years of work on ATC data link provides an opportunity to give airlines access to ATC technology
- SITA can enable airlines to unlock the tracking capability they already have in their long haul aircraft avionics
- Airlines will monitor their aircraft better than ATC by continuously tracking across ATC borders





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Working with Inmarsat on a fast implementation



A 3-step process for a rapid market impact



Solution refinement

Pilot customers

Beta test customers

Timeline

Next 2 weeks

Within 6 months

Commercial alignment

- Align on commercial requirements
- Position vis a vis "free tracking" propositions

Move fast and flexibly

From June

- Invest on both sides to make it happen and learn what it takes
- Apply lessons learnt from pilot engagements
- Test final commercial packages

Market alignment

 Align messages and respective contributions to ICAO / IATA task force

- Share interested prospects & align
- Avoid overlapping engagements / messages

 Leverage for SITA / Inmarsat / Airlines benefits

Seeking Inmarsat's support and engagement with SITA





Back-up



ATC Surveillance using FANS/ACARS



- 1980's Air Traffic Control community defined Future Air Navigation System (FANS)
- 1990's Boeing & later Airbus made FANS-1/A avionics standard on long haul aircraft
 - Boeing FANS-1 software in Flight Mgt System, Airbus FANS-A in Air Traffic Services Unit
 - FANS applications: Controller Pilot Data Link Comm & Automatic Dependent Surveillance

