

Expert Dialogue on Real-time Monitoring of Flight Data

Session 5: Views of Airlines and Pilots

Lufthansa Airlines

2014-05-27

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A STAR ALLIANCE MEMBER



Lufthansa

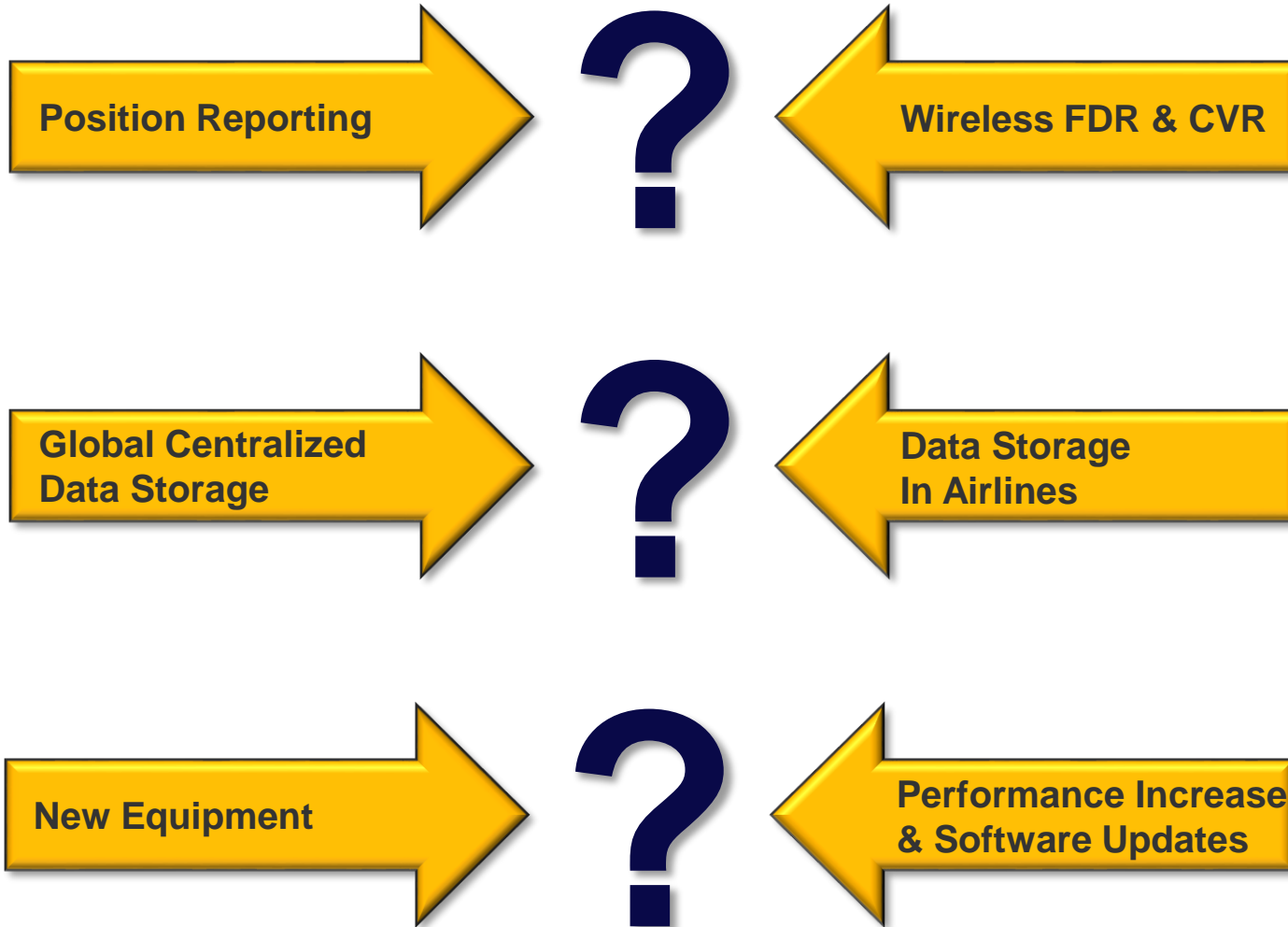


We need reliable global real-time
position reporting for aircraft!

The question is how?



Principles



Increase Tracking and Positioning Performance

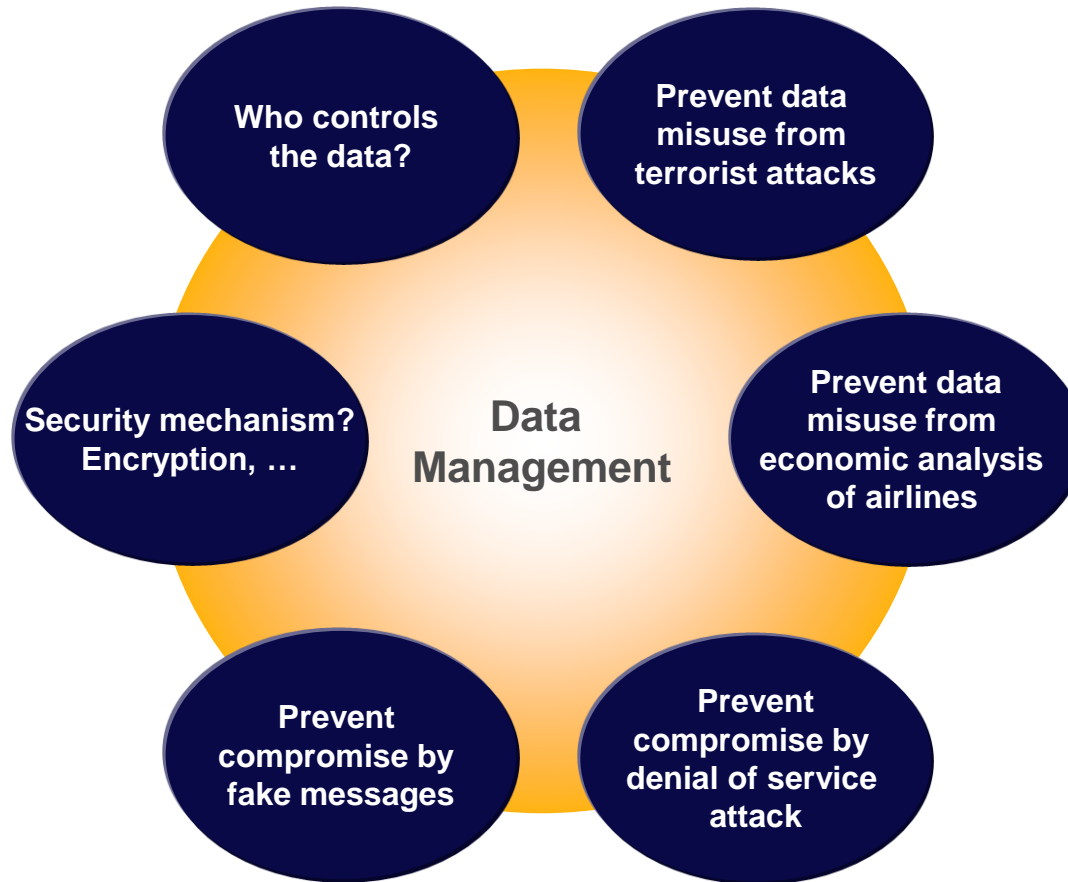
**Enhanced Technologies and Equipment
for new Aircraft**



**Increased
Positioning
Performance**

**Software Update for Existing Aircraft
Such as ACARS Position Reports via Satellite**

Data Management



Today's Tracking Mechanism used by Lufthansa

- Aircraft tracking system in place for Mission Support since December 2013

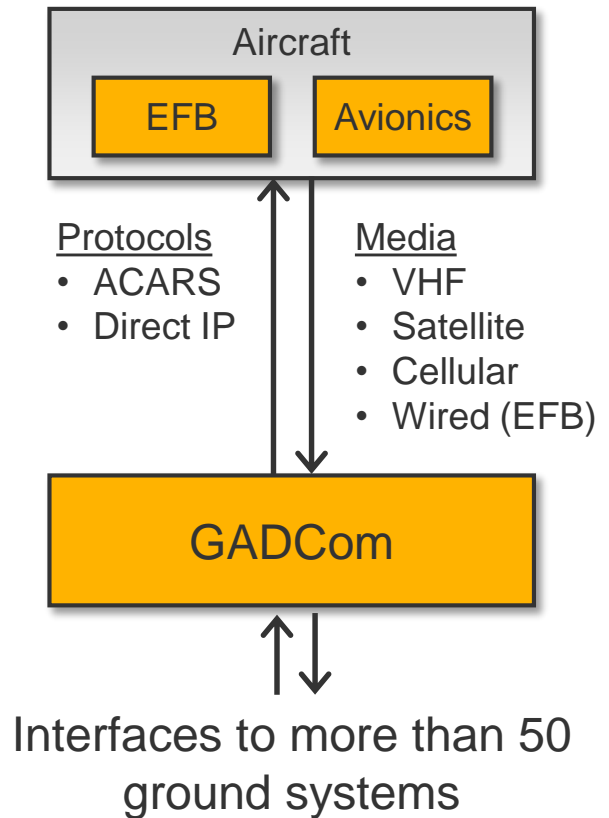
Tracking for Long-range Flights

- Automatic periodic transmissions
- Interval depends on flight phase
- Custom AOC message format
- Activate/deactivate from ground
- Encrypted messages

- Lufthansa additionally receives and stores ATC messages sent from the aircraft for CPDLC and ADS-C

GADCom

- New datalink ground system by Lufthansa operational since October 2013
- Unified message broker system
- Directly interfacing with many ground systems
- Modern interface design, mostly based on Web-Services
- Highly configurable by the users
 - Message formats
 - Business logic
- Is/will be used by Lufthansa Group airlines and other airlines



Conclusion

The challenge is not the technology!



Thank You



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