



DIGITS Shadow Mode Platforms

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founding members

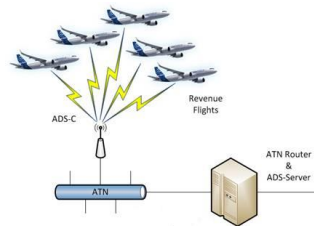


Shadow Mode Partners and Activities

Shadow Mode Partners



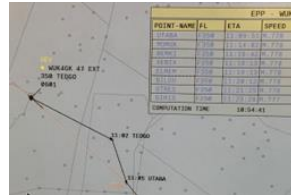
ATS B2 COM Platforms



Live
ADS-C
Data

Data Collection

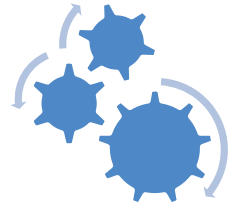
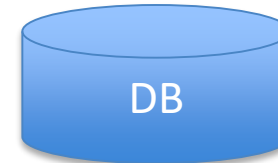
ADS-C End Systems



FDP &
CWP
Protos

Testing & Validation

Data Analysis

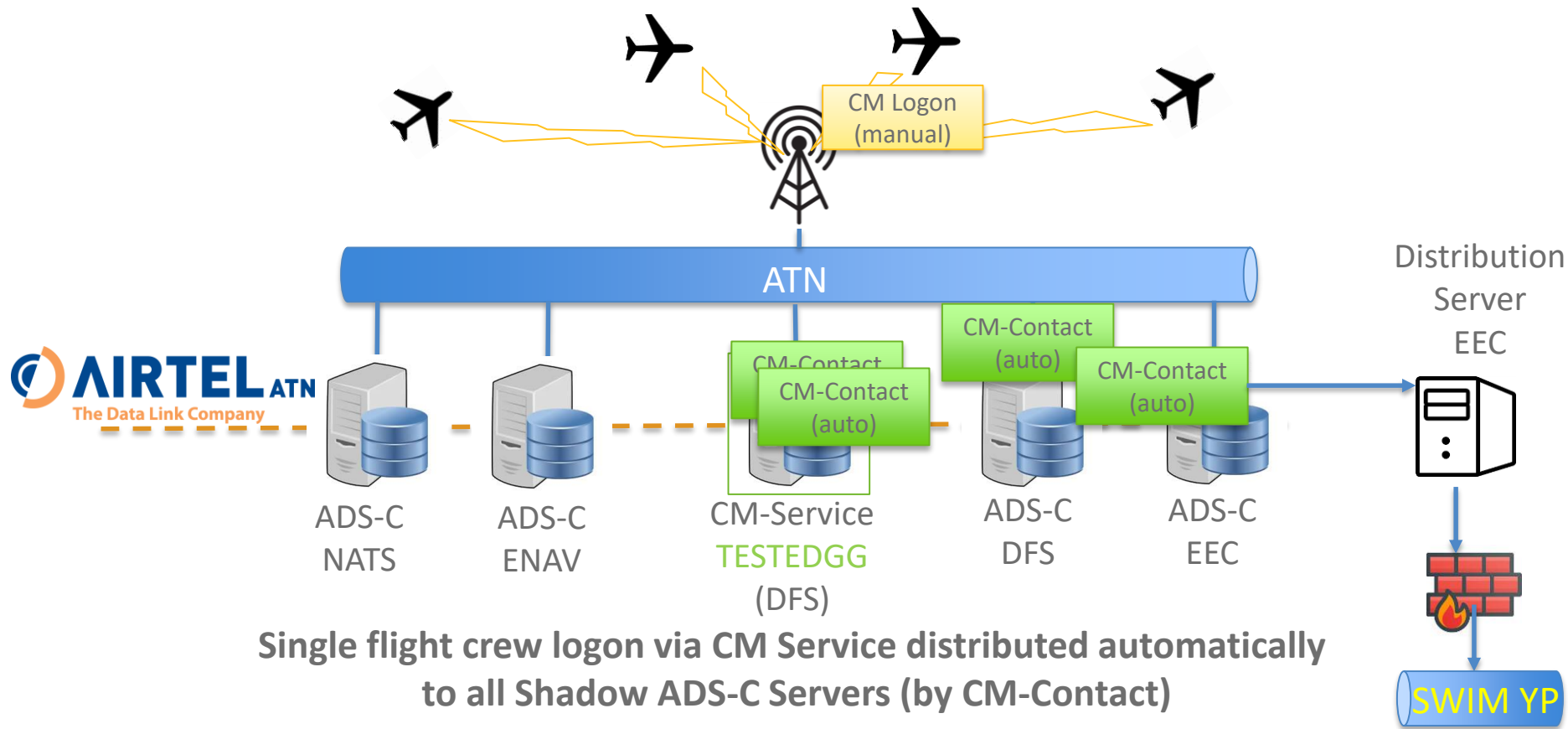


Technical & Operational

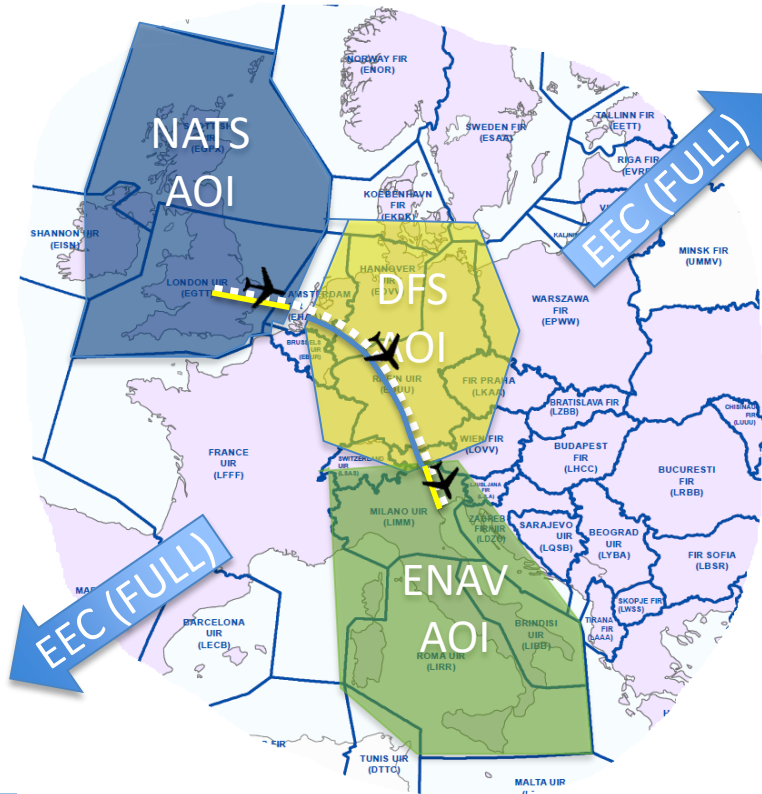
Shadow Mode Concept

IBP parallel to OPS System
Independent of own OPS CPDLC / MUAC pre-OPS

Shadow Platforms for ADS-C Data Collection



Shadow Mode - Data Collection Areas of Interest



ADS-C:

- ADS-C contracts only in AOI for ANSPs (EEC full ATN coverage)
- Designed for up to 3 parallel connections (2 Shadow + MUAC)

Other Data:

- Collection of context data (Tracks, FPLs, Clearances, Trajectory Calculations, Weather) in parallel

Prototypes with ADS-C Usage in ATS Platforms

CWP Display of ADS-C



Information on Airborne
Planning and Predictions

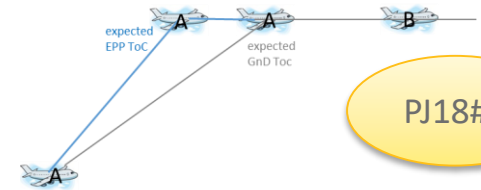
PJ31
DIGITS

Discrepancy Monitoring



2D- Consistency Check
Airborne and Ground

Enhanced Ground TP



Improved Planning Trajectory
using individual a/c perform

PJ18#6

CP1 Scope Functionality

- ATS System prototypes using ADS-C data developed by Indra & Leonardo
- Integrated into the Industrial Based Platforms (IBPs) of resp. ANSPs
- Technical copy of the OPS system – high realism
- Prototypes were tested and validated by project partners using replay of live ADS-C data (revenue flights) and simulated data

indra

 **LEONARDO**

AIRFRANCE

BRITISH AIRWAYS

easyJet

IBERIA

novair

WIZZ

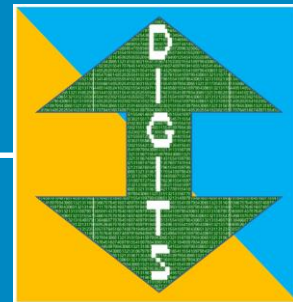
Airlines

AIRBUS

Honeywell

THALES

Airborne
Industry



Thank you very much for your attention!

ANSPs

AIRTEL^{ATN}

indra

LEONARDO

Ground
Industry

DFS Deutsche Flugsicherung

enav

EUROCONTROL

NATS

LFV
AIR NAVIGATION SERVICES
OF SWEDEN

NAVIAIR



founding members

