



Airborne C2 Challenges for the Future

Andreas Säf-Pernselius or
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FMV

Meanwhile in Sweden...

<https://www.youtube.com/watch?v=vb-2IT9hJpU>

Presentation overview

- Introduction
- Current System overview and capability
- Current situation
- Future?
- Future Challenges
- Questions



Introduction

Andreas Säf - Pernselius



Al Gore



ASC System overview (1)

Platform:

- Saab 340

Sensors:

- ERIEYE/PS890-radar
- IFF Mark XII. Including Mode 4

C2:

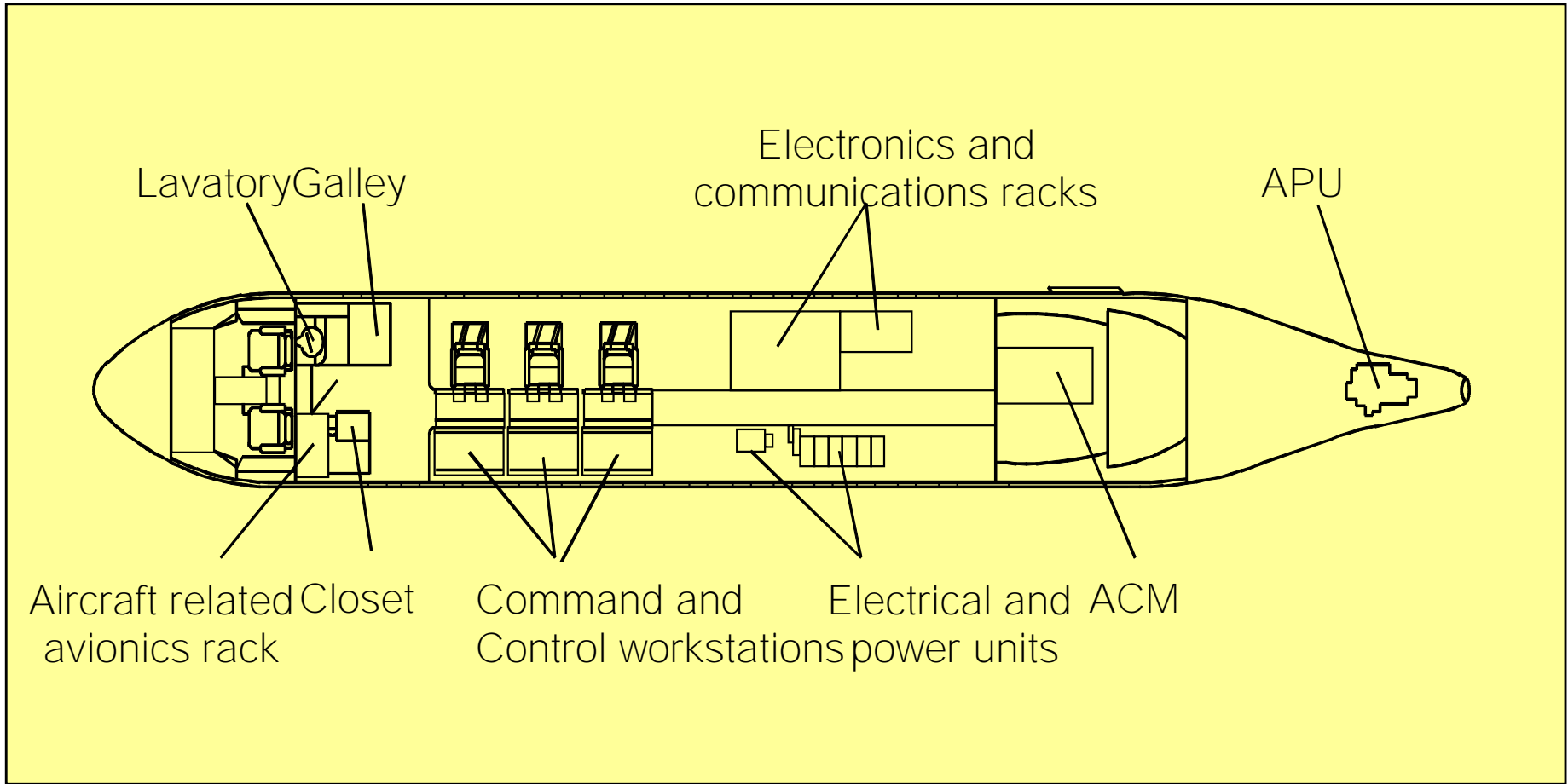
- ERIEYE/ C2 system

Three operator consoles

Planning and Debriefing System
(PDS)

Tactical data recording and
maintenance registration





ASC system overview (2)

Link 16/MIDS (data & voice)

- STANAG 5516 Ed 2
- MIL STD 6016 version? For future

IFF MkXII

VHF/UHF radios with HQ II.

- 7 radios

Secure voice, SY-100

(to be integrated) (3 radios will be capable)?



Future?

- Life after 2020
- Configuration not know
 - As is?
 - Updated system
 - New C2 system?
 - New sensor?
 - IFF MK XIIA?
 - New Platform?

Challenges for Airborne C2 (1)

- Long life cycle circa 30 years min
- System of System vs stovepipe solutions'
- Requirements management
 - Current requirements to new/developing systems

Challenges for Airborne C2 (2)

- Future proofing communications
 - Link 16
 - MIDS BU2 vs JTRS
 - Hardware/Software
 - New messages/capability (MIL STD/STANAG)
 - Radio systems
 - Obsolescence of waveforms (HQII/SATURN)
 - New communication systems

Challenges for Airborne C2 (3)

- Identification systems
 - IFF – Civilian and military
- Changing operational environments
- Spectrum Management
- Benchmarking – AWACS community
- Others?

Questions?