Gripen en nätverks(s)pelare
SESAM 071108

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Objectives

History
Data Links
Support Systems
The Tactical System
Operational Concept
Near Future
History

Capability

'50 '60 '70 '80 '90 2000 2010 2020
Data Links

Today
- Support System LAN
- Fighter Link
- C2 (ground/air) Link
Support Systems

Data Support
- Map info
- Com. Libraries
- EW Libraries

Planning
- Stores
- Navigation
- Communication
- Weapon
- EW
- Sensors

Rehearsal
- Scenario Simulation
- 3D View

Preparation Data
- EW Libraries
- Waypoints
- Weapon data
- Settings

Intelligence Updates
- Order
- Intelligence
- Weather

Mission Report

Evaluation
- Mission Replay including
  - Flight path
  - Events
  - Cockpit
  - Audio/Video

EW Analysis
- Weapon Analysis
- Radar Analysis

Recorded Data
- Flight Path
- Radar Events
- EW Events
- Recce Events
- EDS & Panels
- Audio & Video
The Tactical System

MSI SA TS
- Best Sensor Dominates
- Near Future Estimation
- Mission Control

Swingrole
TAU-group, 4 a/c
Fighter Link - TAU

Fighter

Data Link Processor

Radio Terminal

Radio Terminal

Data Link Processor

Situation Picture

TDMA Network

Radio Waveform & Equipment

Message Formats/Protocols

Fighter Link

Situation Awareness

Situation Picture
Tactical Air Unit (TAU)

Information exchange within the TAU

- Situation awareness
- Coordinated acting

Four active, unlimited passive members

Automatic Real-Time Data Link, TDMA

Information exchange examples:

- A/c status (Position, altitude, speed, ...)
- Targets
- ...

SAAB
C2 Information exchange

Automatic Real-Time Data Link

Purpose:
• Command and Control from C2
• Reports/info to C2

Examples of handled information:
• Mission related (C2 to a/c)
• Targets
• Own status (a/c to C2)
• …
The “office”

HOTAS

Controls

Awareness
Situation Picture
Near Future

FAC Image Transfer
- Ground/Sea
- Air
WSO, 2-seater
Unit Command