

FREQUENTIS

FOR A SAFER WORLD

FREQUENTIS SESAR PARTNERS

Frequentis • Atos • HungaroControl

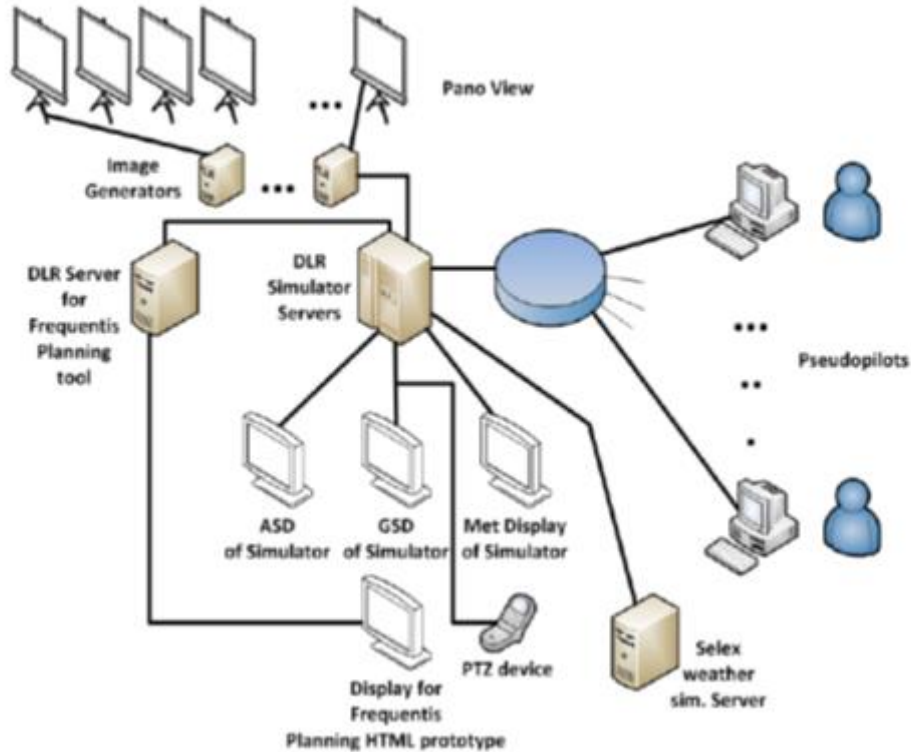


SESAR2020 PJ05 Solution 2 Multi Remote Tower

Open Day - V2 Validation

Simulation Environment

Overview



- DLR: Simulation
- FRQ: Control Panel Content
- SELEX: Weather Data

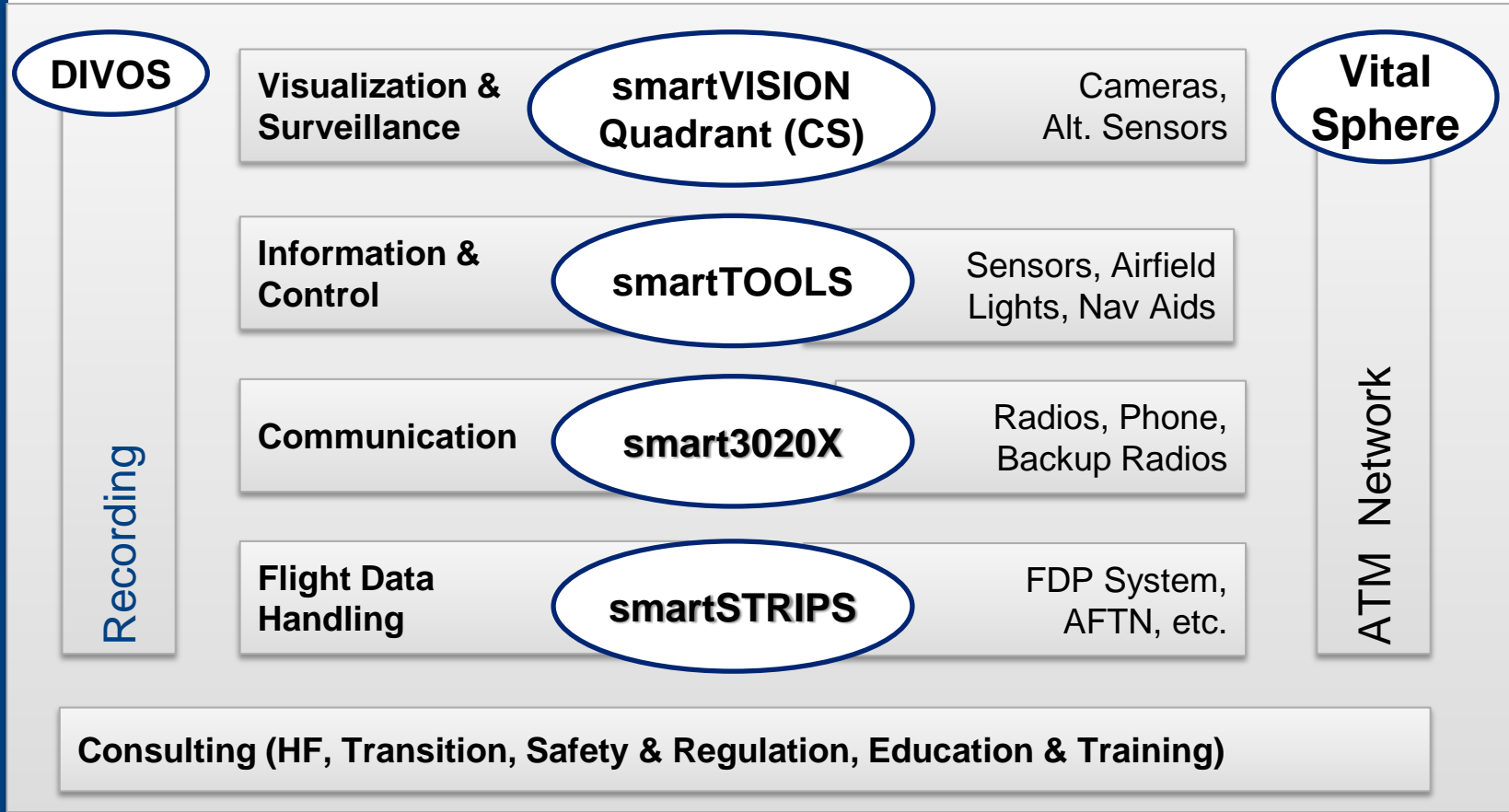
FREQUENTIS Integration Topics

- Flight and Support Information from multiple airports on a single control panel
- Import flight plan data from simulator (Jason API)
- Squelch indication from VCS simulation system

Integration Process

- Definition of technical infrastructure & scenarios
- HMI Design Workshops with HC ATCO's involved
- Technical Integration
- pre-Validation with Engineers & ATCOs testing the system
- Fine-tuning and improvement for V2 validation

FRQ Solution Package - Remote/Virtual Tower is more than Visualisation



Paper Prototyping



Workspace Design: Panorama – Support Screen – Interaction Screen



Workspace Design II



Definition of Support Functions



- Planning Bays
- Working Bays
- Frequencies
- Airport Lights
- ILS, Hotspot Cameras, PTZ Controls

Final Agreement on CWP



Final CWP for V2 Validation



Multi Remote Tower – Interaction Screen



- Planning Tool
- Flight Strips

- Support Information & Control Functions
- Voice Communication

Planning Tool - added values

- Workload
- Timeline
- Airport association
- Traffic handling

FREQUENTIS Summary

- Integration of systems (VCS, surveillance data, other)
- Usability
 - CWP optimization
 - Workspace design
 - Planning and workflow support
- Support functions
 - Safety net features (conflicting clearances, blocked runways, ...)
 - Automation support

smartVISION – Single Remote Tower Projects

DFS

Advanced Remote Tower



Jersey

Contingency Solution



VIE

Apron Management



Iceland

Basic Remote Tower - AFIS



Further Demonstrators

Further Demonstrators



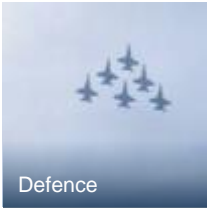


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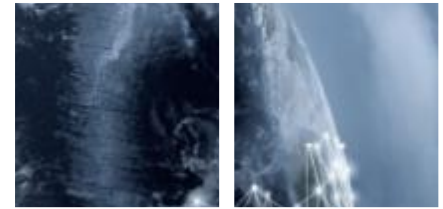
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Air Traffic Management



Defence



Maritime



Public Transport



Public Safety

