SSAS Thales implementation

ES2 WS3-2011 Bled/Slovenia - 21 September 2011
Thales SMS general presentation
Thales SMS Background experience
SWALs allocation
SWALs objectives and activities
SWALs results documentation
Manufacturer EC compliance demonstration
Summary and open questions
Thales has set up a SMS to ensure Compliance with EC regulations.
Thales SMS has been progressively validated through successful contracts.
Heterogeneous SWALs allocation methods

- ANSP SWAL Allocation
- ANSP technical safety requirements
- ANSP process safety requirements
- ANSP requests only EC552 declaration
- New safety requirement coming from the IRs

THALES ATC equipment SWAL and safety requirements
Interpretation of the ED153 safety objectives to find appropriate evidence in the equipment development process

Manufacturer
ED153 Objectives
Roles and responsibilities scenarios have been clarified in ED153

Equipment and software development process

Safety process

SSAR: Evidence and arguments
Software safety folder presented in the SSAR

- Light presentation: generic evidence for each ED153 safety objective
- Complete presentation: detailed evidence for each piece of software and safety objective

Evidence production and SSAR documentation adapted to our customer needs
Provided through agreement on SSAR and some times through customer audits of our internal processes.

Manufacturer EC compliance demonstration

- Equipment SSAR
- As support for customer safety case
- Argument to support claim for EC 482 compliance (from the manufacturer perspective)
- Reference for independent software and safety audit
- Part of argument to support EC 552 declaration of conformity
Summary and open questions

- How should safety requirement issued from the IRs be considered in the global system/equipment safety assessment?
- Is one AMC (ED109, ED153, other) preferable to other?
- When or how compliance to objectives can be determined?
- How can we get a better/common (ANSP/Manufacturer) view of what we really need to do to show compliance to EC482?
- What should be the content of EC 552 declaration of conformity in relation with safety assessment?
Questions and discussion
Thank you for your attention