



Présentation *Certification Together*

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& *Pilote de l'initiative Certification Together*

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Aeroconseil Overview

- ◀◀ **Aeronautical pure player**
- ◀◀ **25 years of Success**
- ◀◀ **2010 Turnover : 115 M€**
- ◀◀ **1150 employees**
- ◀◀ **2 Ranges of Activities**
 - Aircraft & Systems Engineering
 - Air Transport Services
- ◀◀ **International presence**
- ◀◀ **Part 21 J (DOA), Part 21 G (POA), Part 145 & Part M**

DO254 Experience

◀◀ DO254 User Group

- Document released in 2000, User Group launched in 2004
- Today: Main European companies, component suppliers, tool vendors, experts
- About 4 meetings per year, 25 to 35 participants per meeting
- US User Group launched in 2008

◀◀ Dedicated website: www.do254.com

- Domain specific information (Links, Events, Papers,...)
- Overview of the initiative
- Private website to support User Group exchanges

◀◀ **This experience is internationally recognized as very helpful to share efforts when a new or updated standard is released.**

◀◀ DO254 User Group in Europe

- Airbus, Airbus Military, Thales, Eurocopter, Safran, Latecoere, Barco Avionics, MTU Aero Engines, EADS Germany, SAAB, Rockwell-Collins France, IOxOS, GE Aviation Systems UK, Rolls-Royce,
- **Aeroconseil**, Mentor Graphics, Altera, Actel, Xilinx, ARM, TTTech...

◀◀ DO254 User Group in US

- Boeing, Bell, BAE, Rolls-Royce, Rockwell-Collins, Hamilton, Honeywell, Sagem Avionics, Astronautics, Parker,
- Mentor Graphics, Altera, Actel, Xilinx, ARM,...
- **Patmos**, FAA Consultants, ENEA (FAA DERs)

The Origin

◀◀ Exchanges with Airbus & Aerospace Valley in 2008 about the DO254 experience and the other needs we can already identify :

- DO178C/ED12C, for Software,
- ARP4754A for Aircraft and System levels
- DO278 /ED109 for Air Traffic Management software.
- Security (Eurocae WG72)

◀◀ Need to leverage the unique concentration of internationally recognized expertise existing in the "Aerospace Valley"

◀◀ In the French and European R&D projects managed in the Competitiveness Cluster, usability of the results in a Certification context is always a key objective.



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◀◀ Training & Expert Consulting offer

- **Leveraging complementary skills of a network of experts :** Aeroconseil (leader), EADS Apsys, Capgemini, ACG Solutions, GERAC. Patmos Engineering helps us to support the US customers.

◀◀ Creation and Animation of Industry exchanges about Certification

- **Collaborative approaches:** User Groups to share efforts about new or updated standards, share experiences and be pro-active (DO254 User Group experience, preparation of DO178C and ARP4754A User Groups).
- **Seminars, Conferences and Events.**

◀◀ Selected as its “Center of Expertise for Certification” by the Aerospace Valley international competitiveness cluster.

◀◀ Website: www.certification-together.com

Combined Expertise

◀◀ Aeroconseil

- Part 21, ARP4754, ARP4761, DO178B, DO254, DO160

◀◀ EADS-Apsys

- ARP4754, ARP4761, DO178B, Security,...

◀◀ ACG Solutions

- DO178B

◀◀ GERAC

- DO160

◀◀ Capgemini

- ATM, Security



One major event : CTIC

Certification
Together

International
Conference



◀◀ Certification Together International Conference

- Toulouse (France) – October 26-28, 2010.

◀◀ Organized by and for the Industry

- Certification roadmaps (EASA), A/C manufacturer policies,
- Overview of the future DO178C and ARP4754-A standards,
- Discussion about the ETSO context vs Aircraft integration requirements,
- Discussions about Certification requirements vs Project experiences...

◀◀ Participation

- **300 participants from 120 companies, and 20 countries** : Certification Authorities, Aircraft manufacturers, System and Equipment suppliers, Solution providers, Certification experts.

◀◀ **CTIC 2011 – 29/11 au 01/12, Toulouse**

Next Steps for 2011

◀◀ Certification Support activities

- Collaborations between Customers and Expert companies

◀◀ User Groups for DO178C and ARP4754-A

- What format ? What companies to initiate the Groups ?...
- Discussions with EUROCAE about support for organization

◀◀ Technical Seminars

- From DO178B to DO178C
- Introduction to ARP4754A challenges,
- Safety, Security, System aspects of Certification (Human Factors,...)

◀◀ Training Sessions

- The agenda is available on www.certification-together.com ,

◀◀ CTIC 2011

Mais... pour un contexte PME ??

◀◀ Analyse de la situation courante

- Aide à la compréhension des demandes des donneurs d'ordres
- Evaluation de l'existant par rapport aux objectifs (diagnostic)
- Elaboration d'un plan d'actions adapté

◀◀ Support à la mise en oeuvre du plan d'actions

- Selon contexte

◀◀ Formations

- Le plan d'actions peut recommander une ou plusieurs formations. Sinon, un échange technique préalable est souhaitable

◀◀ Support sur projets

- Relecture des documents produits
- Préparation des revues clients, voire des audits

◀◀ Autres cas :

- Support à la mise en place d'un DOA, POA,... Aide à la compréhension des objectifs Part 21, support à l'identification du périmètre, des ressources clés, à l'élaboration du DOM,...



Questions ?

www.certification-together.com

