ADCSS 2014 Pierre Gaufillet

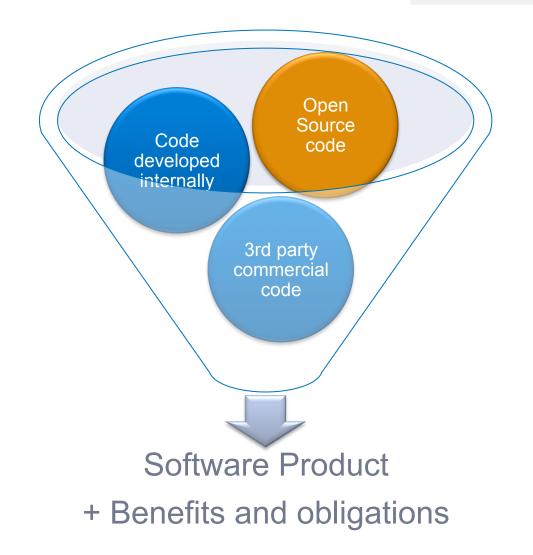
AIRBUS

Open Source Strategy within AIRBUS aircraft

to the second



Software products today – a matter of Intellectual Property





Benefits of using Open Source for a company like AIRBUS group?

- Improve productivity
 - Do not re-develop the wheel again and again!
 - Focus on our added value for our customers, not on the platform
 - Reach more quickly high levels of maturity
- Enrich technical offer
 - By integrating tricky or expansive features into our products
- Improve interoperability thanks to reference implementations





What are the impacts of using Open Source on a company like AIRBUS group?

- Needs to adapt the System / software development processes
 - Component portfolio management
 - Intellectual Property control
 - Architects and developers trainings
 - Export control
 - Security
 - Liability
 - Supply chain
 - Very long term maintenance and availability
 - Qualification / Certification strategies





A shared effort of AIRBUS group Business Units



- A core team of a dozen of people across all BUs in all countries
 - Started in 2012 and coordinated by the Chief Technical Office of AIRBUS group
 - Scheduled in 3 stages:
 - Initial evaluation in 2012: identify problematics, select a supporting tool and impacted processes.
 - Pilot stage in 2013: testing and refining the new activities, organizations and tools.
 - Industrialization in 2014: trainings, methods and tools deployment, continuous synergy between BUs.



COTSAQ – COTS Management Tool

Project created in PolarSys in October 2014, initial contribution in progress <u>http://www.polarsys.org/proposals/cotsaq</u>

COTS Management Tool 1.7					> ADMIN Administrator 🚖 (Leader) 🛹 Administration 🖾 Messages 🕘 🕐 Logout 💡 Hel					Help
Product: Product_4 : 1/27 > >> 534 result(s)		Version: V2.1 •		Active	🕒 Create 🖉 🖌 Edi		it 🗸 Check CST	🗅 Import	← Compare	
				Search:		🔎 Submit	🍵 Clear 📄 Save	ê Freeze	Export 🕒 Booklet	6
Common name	Version	Editor	License	Download	CSD Status	Add	Name	Version	Distribution	
7-Zip	9.20	Igor Pavlov	😹 7-Zip Licens		A R	🔘 add	ActiveMQ	5.0	Part. Dist. 💲	٢
AcrobatReader	7.0.7_FSA	ADOBE	😹 Adobe EULA		А	🗿 add	ant	1.8.2	Not Dist. 🗘	0
AcrobatReader	7.1.0	ADOBE	😹 Adobe EULA		А	💿 add	apache	2.2.14	Dist. ‡	0
AcrobatReader	7.1.1	ADOBE	😹 Adobe EULA		А	🗿 add	commons-compress	1.0	Not Dist. 🗘	0
AcrobatReader	9.4	ABODE	😹 Adobe EULA		А	🔘 add	commons-configuration	1.6	Not Dist. 🗘	0
AcrobatReader	9.4.2	ABODE	😹 Adobe EULA		А	📀 add	Product3	1.0	Dist. ‡	0
AcrobatReader	9.4.3	ABODE	😹 Adobe EULA		А	🔕 add		1.0		
AcrobatReader	9.4.4	ABODE	😹 Adobe EULA		А	📀 add				
ActiveMQ	4.1.1	Apache	k apache		А	💿 add				
ActiveMQ	4.1.2	Apache	k apache		А	🗿 add				
ActiveMQ	5.0	Apache	k apache		А	🔾 add				
ActivePerl	5.10.0.100	ActiveState	😹 ActiveStat E		А	📀 add				
ant	1.8.1	Apache	k Apache		А	🔾 add				
ant	1.8.2	Apache	k Apache		А	📀 add				
antir	3.2	Terence Parr	😹 ANTLR 3 Lice		А	🔾 add				
antlr-runtime	3.2	Terence Parr	😹 ANTLR 3 Lice		А	🔾 add				
apache	2.2.11	Apache	k Apache		А	🔾 add				
apache	2.2.14	Apache	k Apache		А	🗿 add				
apache	2.2.9_for	Apache	kara arache		А	🔾 add				
ApacheDS	1.5.5	Apache	k Apache		А	🔾 add				



October 2014

Contributing back to Open Source communities?

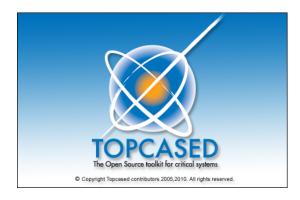
- Keeping your patches private is expensive
- Contributing doesn't mean necessarily patches
- Contributing adds value to the open source components you use
- Addressing common weakness of system / software engineering tools
 - Interoperability Data / Model / Tool
 - Vendor commercial strategy
 - Obsolescence
 - Maintainability
 - Open innovation platform
 - Licensing and deployment in extended enterprise





From TOPCASED to PolarSys

• TOPCASED – Open Source Toolkit for critical systems...



• ... is migrating to a community tailored for embedded systems industries





© AIRBUS Operations S.A.S. All rights reserved. Confidential and proprietary document. This document and all information contained herein is the sole property of AIRBUS Operations S.A.S. No intellectual property rights are granted by the delivery of this document or the disclosure of its content. This document shall not be reproduced or disclosed to a third party without the express written consent of AIRBUS Operations S.A.S. This document and its content shall not be used for any purpose other than that for which it is supplied. The statements made herein do not constitute an offer. They are based on the mentioned assumptions and are expressed in good faith. Where the supporting grounds for these statements are not shown, AIRBUS Operations S.A.S. will be pleased to explain the basis thereof. AIRBUS, its logo, A300, A310, A319, A320, A321, A330, A340, A350, A360, A400M are registered trademarks.