

The International Aerospace Quality Group

‘IAQG’

Industry Controlled Other Party scheme

‘ICOP’

On

Aerospace Supplier Certification

Quality Management
System

H. Luijt

EAQG Other Party
Management Team

EASA Industry Meeting
14 November 2006 - Cologne



IAQG: A Global Team

Every Major Aerospace
company in the World

International Aerospace Quality Group

IAQG
Council

General Assembly
Forums

AAQG
(Americas)

EAQG
(Europe)

APAQG
(Asia &
Pacific)

60 IAQG members

Whose purpose is:

Implement initiatives that make significant improvements in Quality and reductions in cost throughout the value stream by establishing and maintaining dynamic cooperation, based on trust, between international aerospace companies



A Unique Model of Co-operation

Americas

- The Boeing Company
- Bombardier
- Eaton
- Embraer
- GE Aircraft Engines
- Goodrich Corporation
- Gulfstream
- Honeywell Aerospace
- Lockheed Martin
- Northrop Grumman
- Orbital
- Parker Aerospace
- Raytheon
- Rockwell Collins
- Rolls-Royce
- Spirit Aerosystems
- Textron
- United Technologies Corp.
- Vought
- **PRI & SAE***

19 AAQG members

Europe

- Airbus
- ALENIA
- Avio
- BAE Systems
- Dassault Aviation
- EADS
- EADS – CASA
- EADS Military
- Eurocopter
- Fokker Aerostructures
- Hegan
- Hispano-Suiza
- Israel Aircraft Industries
- Liebherr Aerospace
- Messier-Bugatti
- Messier-Dowty
- MTU Aero engine
- Pfalz FlugzeugWerke
- Rolls-Royce
- SAAB Aerospace
- SAFRAN
- Smiths Industries
- SONACA

29 EAQG members

Europe – Continued

- Sukhoi
- Thales
- Turbomeca
- Volvo – Aero
- Westland Helicopters
- Zodiac
- **ASD***

12 APAQG members

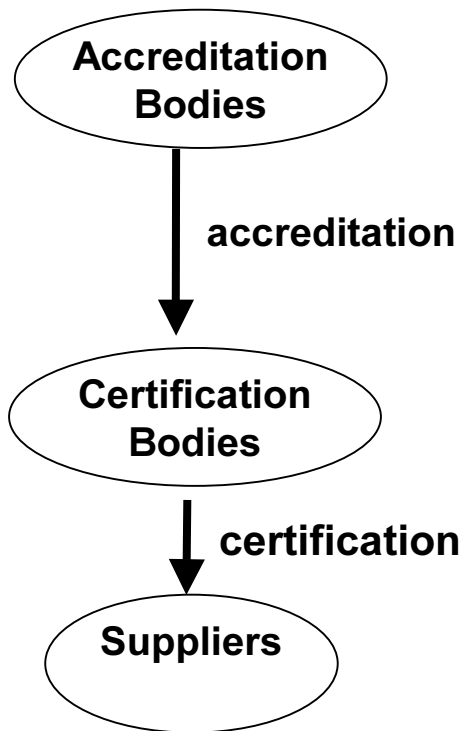
Asia

- AIDC (Aerospace Industrial Development Corp)
- AVIC 1
- AVIC 2
- Fuji Heavy Industries
- Hawker de Havilland
- Indonesian Aerospace
- IHI
- Kawasaki Heavy Ind
- Korea Aerospace Ind
- Korean Air Aerospace
- Mitsubishi Heavy Ind
- SMIC
- **SJAC ***

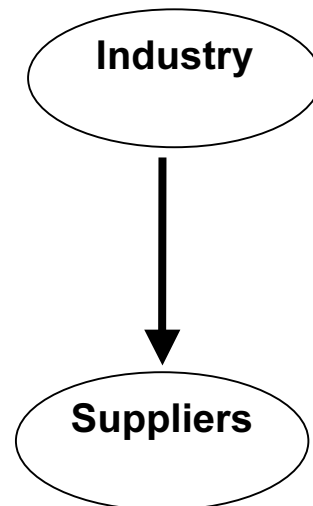
***: Sponsor**

The 'traditional' scheme

3rd party
Certification
for ISO 9001



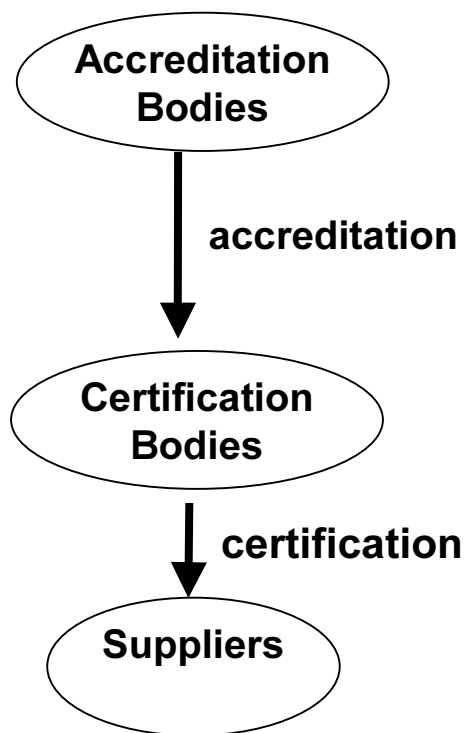
2nd party
audits



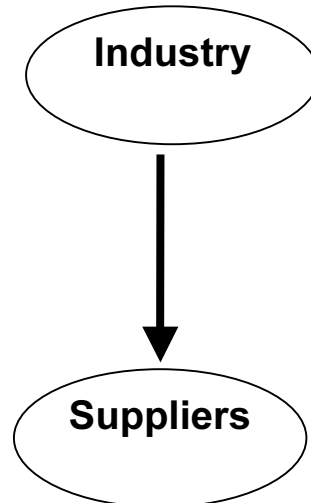
Certification schemes

The 'traditional' scheme

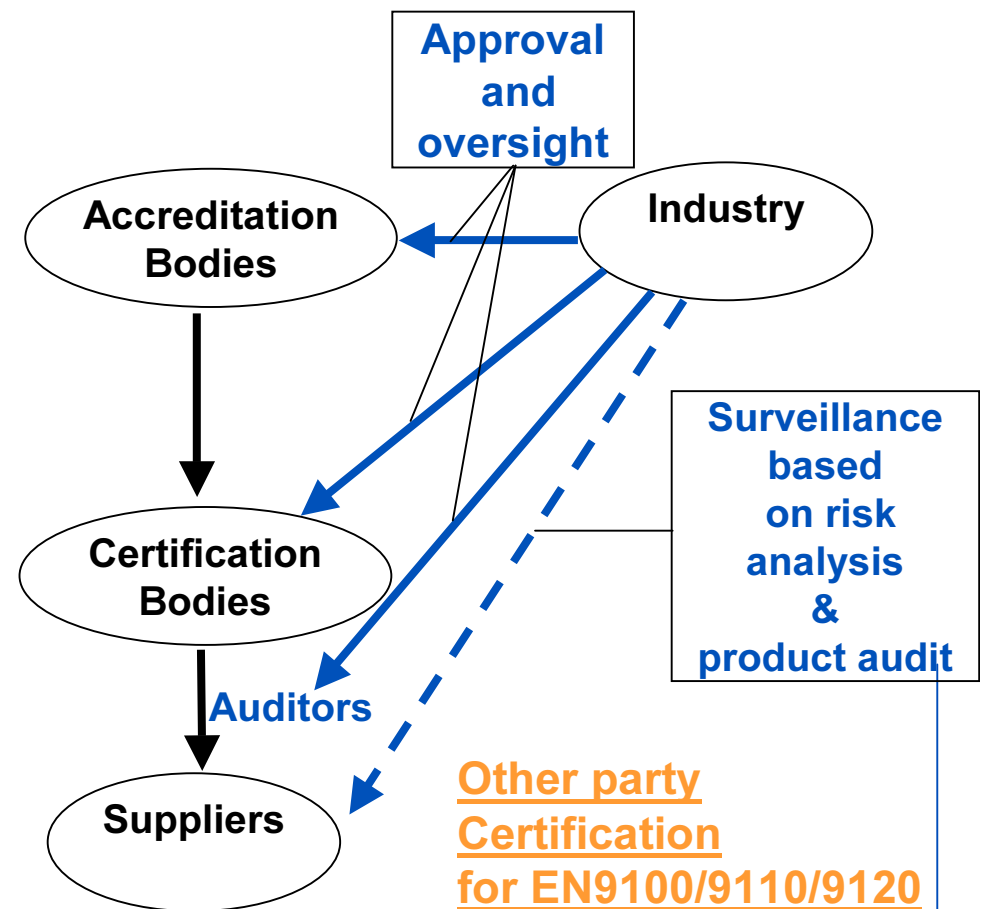
3rd party
Certification
for ISO 9001



2nd party
audits



The Aerospace 'ICOP' scheme



Mission for the ICOP scheme

The mission of the prime aerospace industries, under the umbrella of IAQG/EAQG:

to establish and operate an effective supplier quality surveillance tool

in order to increase quality and safety

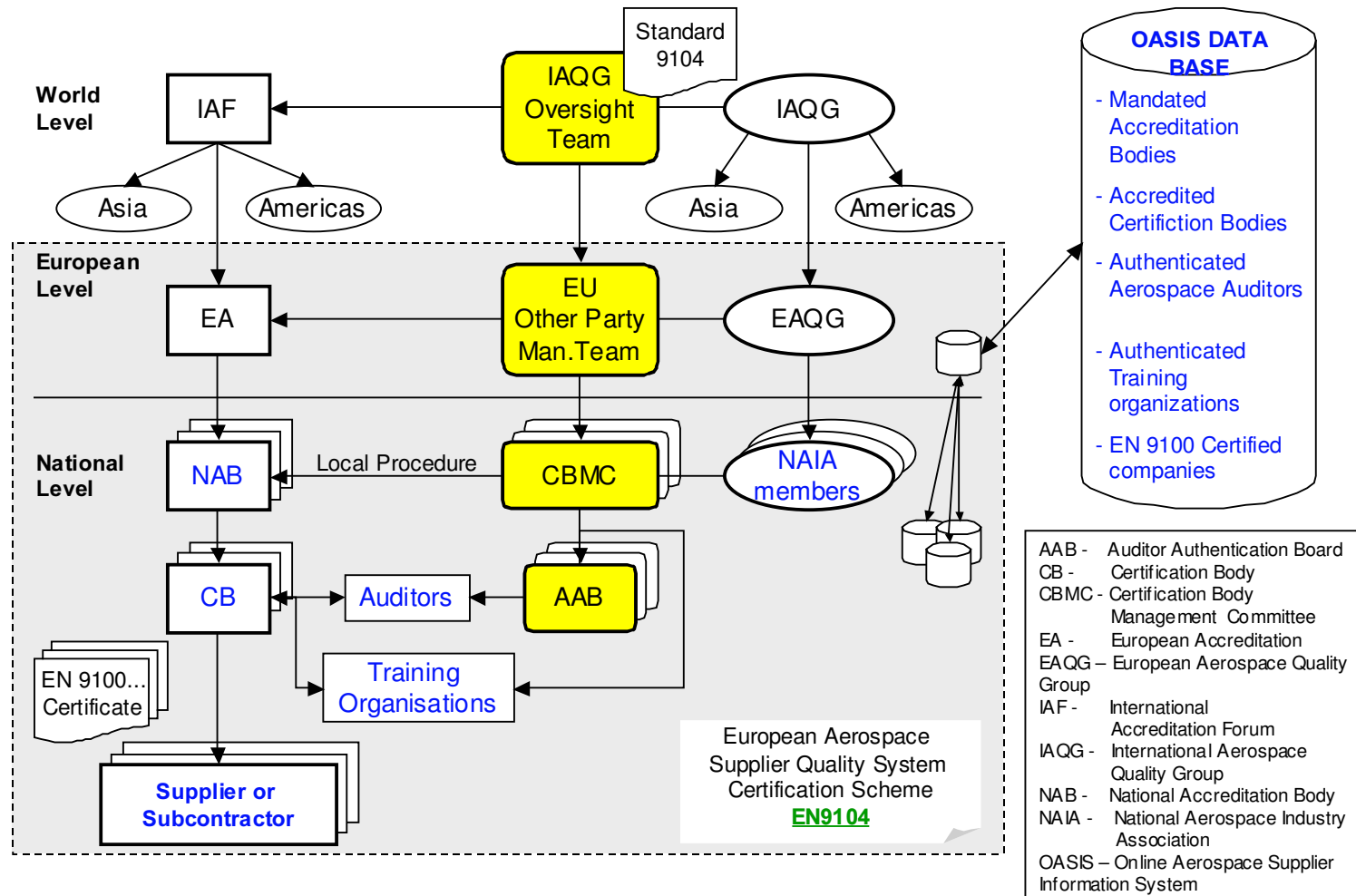
in the whole aerospace supplier production and supply chain

on a global level

Basic elements of the scheme

- Certification against industry controlled aerospace QMS standards:
 - 9100: OEM's
 - 9110: Maintenance and repair
 - 9120: Distributors
 - requirements for accreditation and certification bodies and aerospace auditors, developed and controlled by industry : [AS/EN/SJAC 9104](#)
 - cooperation between National Aerospace Industry Associations and National Accreditation Bodies in the participating countries
 - joint industry/NAB accreditation of certification bodies for aerospace
 - use of industry approved aerospace auditors with aerospace background
 - defined assessment and reporting process : [AS/EN/SJAC 9101/9111/9121](#)
 - appeals and complaint process
 - global database OASIS with public access: www.iaqg.org/oasis
 - oversight by industry at the different levels of the process
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EUROPEAN MANAGEMENT SYSTEM – Other Party Certification for EN 9100 Series



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IAQG International Aerospace Quality Group
Online Aerospace Supplier Information System

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Data Search

- Change Summary
- Manage Watch List
- IAQG Member Companies
- International Aerospace Industry Associations (NAIA)
- International Accreditation Bodies (NAB)
- Certification/Registration Bodies (CRB)
- Aerospace Experience Auditors
- Certified Suppliers

Supplier Search Results

Click on a supplier link for additional information.

[New Search](#)

Supplier Name	Address	Cert Num	Standard Series	CRB	Status
AIRBUS CHINA Limited (OIN: 6114494687)	5 Tianzhu Donglu Tianzhu Airport Industrial Zone BEIJING, China	159406	9100	BVQI	Certified
Airbus Deutschland GmbH (OIN: 6109738345)	Huenefeldstrasse 1-5 BREMEN, Germany	159406	9100	BVQI	Certified
Airbus Deutschland GmbH (OIN: 6109738442)	Ottenbecker Damm STADE, Germany	159406	9100	BVQI	Certified
AIRBUS Deutschland GmbH (OIN: 6114542885)	Weg Beim Jäger 150 HAMBOURG, Germany	159406	9100	BVQI	Certified
AIRBUS Deutschland GmbH (OIN: 6114493905)	Hein-Sass-Weg31 HAMBURG, Germany	159406	9100	BVQI	Certified
AIRBUS Deutschland GmbH (OIN: 6114493840)	Lüneburger Schanze 30 BUXTEHUDE, Germany	159406	9100	BVQI	Certified
Airbus Deutschland GmbH	Bergstrasse 4 many	159406	9100	BVQI	Certified
AIRBUS Deutschland GmbH (OIN: 6114493921)	Am Flugplatz LAUPHEIM, Germany	159406	9100	BVQI	Certified
AIRBUS Deutschland GmbH (OIN: 6114493866)	Kreetslag 10 HAMBOURG, Germany	159406	9100	BVQI	Certified
AIRBUS Espana S.L. (OIN: 6114494001)	Poligono Industrial de Trocadero PUERTO REAL - CADIZ, Spain	159406	9100	BVQI	Certified
AIRBUS Espana S.L. (OIN: 6114493989)	Crra. Nac. Madrid-Toledo Km 32 - ILLESCAS - TOLEDO, Spain	159406	9100	BVQI	Certified
AIRBUS Espana S.L. (OIN: 6114493963)	Paseo John Lennon GETAFE - MADRID, Spain	159406	9100	BVQI	Certified

www.iaqg.org/oasis

Internet

Status per 28 September 2006:

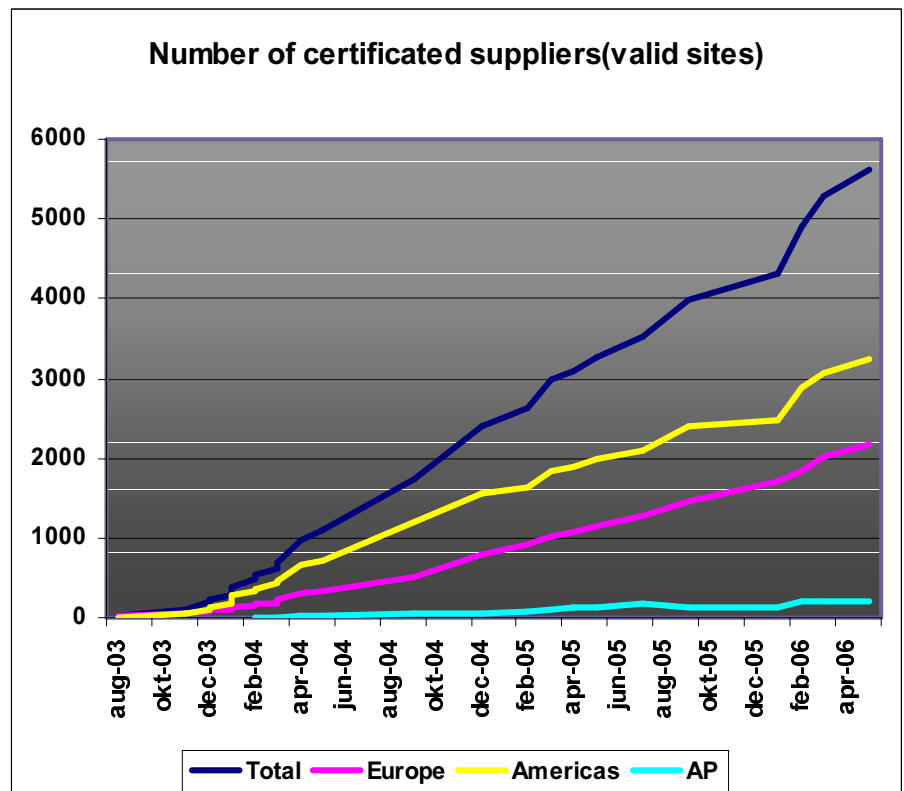
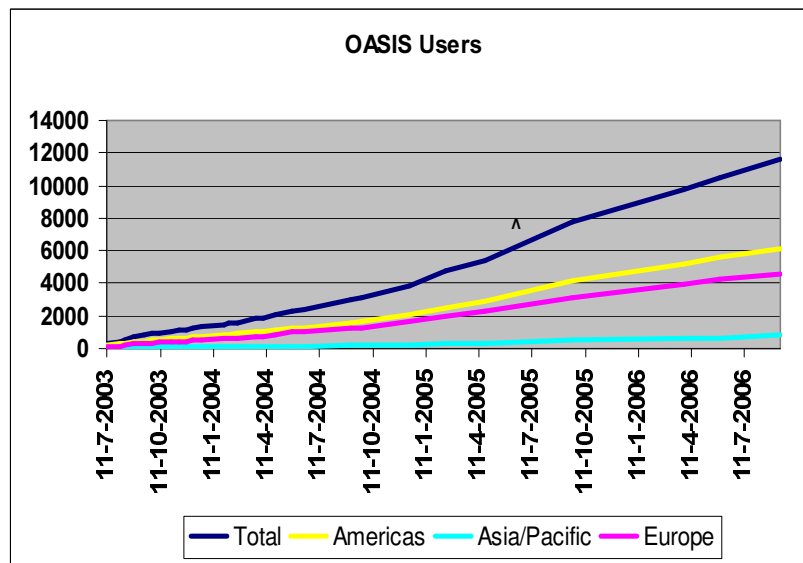
11664 registered users

650 registered Aerospace Auditors, 268 in Europe

81 approved CRB's, 37 in Europe

6338 certified supplier sites:

- 3615 in Americas(North and South)
- 2481 in Europe
- 242 in Asia/Pacific





Top Industry wishes

IN NEAR FUTURE:

- **Get ICOP recognized by the Authorities (Worldwide) as a suitable scheme to control the Aerospace Quality Management system of the overall Supply Chain**

BEYOND ICOP RECOGNITION:

- **“Locally surveyed, Globally accepted”**
Local surveillance made by EASA through NAA’s accepted by Foreign Authorities
(No audit performed by Foreign Authorities – To be covered by Bilateral Agreements)
- **Amount of surveillance made by the Authorities need to decrease**
 - **Associated cost to be paid by Industry expected to be reduced from the current figures**
 - **Investigate together with EASA possible solutions**



E.A.Q.G.

European Aerospace Quality Group



AeroSpace and Defence
Industries Association of Europe

Back up slides

Industry Controlled Other Party scheme for Quality Management* system certification =

a documented system under industry control, using certification bodies to determine conformity of quality management systems to defined standards:

- **EN9100** for OEM's (Original Equipment Manufacturers)
- **EN9110** for maintenance activities
- **EN9120** for distributors

Remark: all standards are based on the ISO9001:2000 quality management system standard, and include additional aerospace requirements, taking into account EASA part 21/145 regulations

Return

***note: also certification schemes exist for special processes and standard parts**

Industry Controlled Standards

- Includes requirements for AB's and CRB's
- Includes requirements for auditors
 - Competence and Training requirements are stated
- Includes requirements for reporting results of audits
- Includes minimum audit times and guidelines

Industry control and oversight activities:

- Industry recognition of Accreditation Bodies signing a MoU
- Approval of Certification Bodies
- Approval of Aerospace Auditors
- Oversight on all Accreditation and Certification Bodies
- Periodic oversight of auditor activities and sample report review
- Must report problems with Certification Bodies
- Database management
- Track suppliers vs. Certification bodies vs. performance, database supported

} by independent
assessors

ICOP Transparency

- Scheme is defined in public standards: 9104, 91xx and 91xy (soon to be published)
- Certification results are publicly available, verifiable by relevant Stakeholders (EA, Authorities, AB's, CRB's and Industries)
- All stakeholders have the right to participate to relevant activities such as meetings, supplier audits ,oversight assessments

ICOP Independence

- Certification Bodies shall have no advisory or training role to suppliers
 - Accreditation Bodies perform independent surveillance on Certification Bodies
 - Industry performs independent oversight on Accreditation Bodies, Certification Bodies and Auditors, using qualified industry experts (“assessors”) that are from industry but not involved in any Organization working for the Scheme
 - Assessors may not perform oversight on certification bodies used by their company
 - All the people involved in the different activities have to sign form to assure independency, to keep information confidential and to avoid any conflict of interest.
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