

# CAST

## Certification Authorities Software Team

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Notes No. 1

July 2006

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### Charter

CAST is an international group of certification and regulatory authority representatives who

- Support aviation industry system, software, and complex electronic hardware (CEH) activities and
- Promote international harmonization of certification and regulatory positions on software and CEH aspects of aviation safety

CAST considers safety issues relating to airborne software and CEH, CNS/ATM (communication, navigation, surveillance, and air traffic management) ground-based software, and production/inspection/maintenance/testing software.

### Interfaces

- RTCA SC-205 / EUROCAE WG-71 (Software Assurance)
- RTCA SC-203 (Unmanned Aerial Systems)
- SAE S-18 (Aircraft Systems Safety)
- EUROCAE WG-63 (Aircraft Systems Safety)
- DO-254 User's Group
- ICAO AIRP (SARPS revision)

### Upcoming Activities

- CAST #47 – Toulouse, France (in conjunction with SC-205/WG-71)
- CAST #48 – Kansas City, MO

### Participants

Chair	Barbara Lingberg, FAA
Secretary	Pippa Moore, UK CAA
ANAC	Brazil
CAA NL	The Netherlands
DGAC	France
DND	Canada
EASA	Europe
ENAC	Italy
FAA	The United States
LBA	Germany
TC	Canada
UK CAA	United Kingdom

### Position Papers

#### *Recently Completed*

CAST 27 “Clarifications on the Use of RTCA Document DO-254 and EUROCAE Document ED-80, *Design Assurance Guidance for Airborne Electronic Hardware*”

Abstract: Some civil aviation authorities have recognized RTCA/DO-254 and EUROCAE/ED-80 as an acceptable means of compliance for satisfying the relevant regulations, when custom micro-coded components/devices (e.g., ASICs, FPGAs, and PLDs) are used in airborne systems installed in civil aircraft. This paper provides clarification on some commonly misunderstood areas of DO-254/ED-80 and provides a vehicle for harmonization among international certification authorities.

#### *Active:*

- COTS Graphical Processors
- Dynamic Memory Allocation