



FAS Topic Paper (FTP)		
TITLE	REVISION	REVISION DATE
FTP1041 Independence Meaning for DO-330/ED-215 Annex A <u>Table T-0</u> Objective 5	4	6-Jun-2024
ABSTRACT/PURPOSE:		
This paper has been developed to clarify the meaning in the independence criteria for DO-330/ED-215 Annex A <u>Table T-0</u> Objective 5.		
RELATED DO/ED DOCUMENTS:		
<input type="checkbox"/> DO-178C/ED-12C: SW Airborne Sys & Equip <input type="checkbox"/> DO-278A/ED-109A: SW (CNS/ATM) Systems <input type="checkbox"/> DO-248C/ED-94C: Supporting Information <input checked="" type="checkbox"/> DO-330/ED-215: Software Tool Qualification Considerations <input type="checkbox"/> DO-331/ED-218: Model Based Development & Verification Supplement <input type="checkbox"/> DO-332/ED-217: OO Technology and Related Techniques Supplement <input type="checkbox"/> DO-333/ED-216: Formal Methods Supplement <input type="checkbox"/> Other		
<i>For internal use only—This paper is based on internal FAS FTP1041 Revision 5</i>		

Any FAS Topic Papers released by FAS have been coordinated among the members of the FAS group and have been approved by the FAS executive management committee for release.

These papers do not constitute official policy or position from RTCA / EUROCAE or any regulatory agency or authority. These documents are made available for educational and informational purposes only

The present document was jointly developed by the EUROCAE / RTCA User Group 'Forum for Aeronautical Software' (FAS) and as such remains the exclusive intellectual property of EUROCAE and RTCA.

In order to maximize the use of the document and the information contained, the material may be used without prior written permission in an unaltered form with proper acknowledgement of the source.



FAS Team Definition and Goals:

The FAS user group monitors and exchanges information on the application of the following “software document suite” that was developed by joint RTCA/EUROCAE committee SC-205/WG-71:

- DO-178C/ED-12C - Software Considerations in Airborne Systems and Equipment Certification
- DO-278A/ED-109A - Software Integrity Assurance Considerations for Communication, Navigation, Surveillance and Air Traffic Management (CNS/ATM) Systems
- DO-248C/ED-94C - Supporting Information
- DO-330/ED-215 - Software Tool Qualification Considerations
- DO-331/ED-218 - Model Based Development & Verification Supplement
- DO-332/ED-217 - Object Oriented Technology and Related Techniques Supplement
- DO-333/ED-216 - Formal Methods Supplement

The goals of the FAS user group are as follows:

1. To share lessons learned in the use of the RTCA/EUROCAE “software document suite” and to encourage good practices and promote the effective use of RTCA’s and EUROCAE’s publications.
2. To develop FAS Topics Papers (FTP’s) relative to RTCA’s and EUROCAE’s publications or other related aeronautical software industry topics. These FTP’s may include clarification to the “software document suite” or a discussion on a new topic.
3. To identify and record any issues or errata showing the need for clarifications or the need for modifications to the “software document suite”.

The FAS user group does not have the authority to change the content of any approved RTCA/EUROCAE documents. Any publications of the FAS user group may be taken into consideration by a future RTCA/EUROCAE working group.

The text contained in this document is not to be construed as guidance, but is to be used for informational or educational purposes only.



Abstract / Purpose of the FAS Topic Paper:

This paper has been developed to clarify the meaning in the independence criteria for DO-330/ED-215 Annex A Table T-0 Objective 5.

FTP Discussion:

Question from the industry:

What does the independence criteria for DO-330/ED-215 Annex A Table T-0 Objective 5 mean?"

Response from FAS:

The aim of Annex A Table T-0 objective 5 from DO-330/ED-215, as expressed by the full objective text in DO-330/ED-215 Section 6.2.1b, is to verify:

“Functionality and the outputs of the tool installed in the tool operational environment comply with the Tool Operational Requirements.”

The target of the verification is the tool. It follows that, for tools of Tool Qualification Levels 1 and 2, the person(s) who created the Tool Operational Verification and Validation Cases should not be the same person(s) who developed the tool.