



FAS Topic Paper (FTP)		
TITLE	REVISION	REVISION DATE
FTP1044 Clarification of Objective 4 from DO-330/ED-215 Annex A <u>Table T-0</u> and Paragraph 6.2.2, item a	3	16-Dec-2020
ABSTRACT/PURPOSE:		
This FTP clarifies DO-330/ED-215 Annex A <u>Table T-0</u> Objective 4 and the corresponding activity. The Objective 4 from Annex A <u>Table T-0</u> includes characteristics of complete, accurate, verifiable, and consistent for Tool Operational Requirements; but the associated activities in Paragraph 6.2.2, item a, do not contain verifiability.		
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		
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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) relative to RTCA’s and EUROCAE’s publications or other related aeronautical software industry topics. These FTPs 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”.

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Abstract / Purpose of the FAS Topic Paper:

This FTP clarifies DO-330/ED-215 Annex A Table T-0 Objective 4 and the corresponding activity. The Objective 4 from Annex A Table T-0 includes characteristics of complete, accurate, verifiable, and consistent for Tool Operational Requirements; but the associated activities in Paragraph 6.2.2, item a, do not contain verifiability.

FTP Discussion:

Question from Industry:

The Objective 4 from DO-330/ED-215 Annex A Table T-0 is:

"Tool Operational Requirements are complete, accurate, verifiable, and consistent."

But when considering the associated activities in Paragraph 6.2.2, item a, verifiability is not mentioned. When an applicant is applying DO-330/ED-215, should "verifiability" be considered for this objective?

Response from FAS:

Yes. An objective should be fully achieved. It is the opinion of FAS that the criteria "verifiability" should be considered when performing the activity described in DO-330/ED-215 Paragraph 6.2.2, item a.