



FAS Information Paper					
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Issue Comment#: <b>0018</b>  Indicate DO/ED Document  <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			Indicate DO/ED Document  <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		
URL to Original Issue Comment: <a href="http://www.faaconsultants.com/FAS/IP/ViewCommentDetail.asp?ComKey=18&amp;IP=330">http://www.faaconsultants.com/FAS/IP/ViewCommentDetail.asp?ComKey=18&amp;IP=330</a>					
Information Paper Title: <b>Tool Operational Requirements Validation</b>					
Abstract: This IP clarifies the activity described in DO-330/ED-215 section 6.2.2.b.					

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### **Acronyms:**

FAQ	Frequently Asked Question
FAS	Forum on Aeronautical Software
IP	Information Paper
N/A	Not Available
PSAC	Plan for Software Aspects of Certification

### **Background:**

The FAS 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 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 and revise Frequently Asked Questions and Information Papers (IPs) relative to RTCA’s and EUROCAE’s publications or other related aeronautical software industry topics.
3. To identify and record any issues or errata showing the need for clarifications or the need for modifications to the “software document suite”.

**Clarifying Text:**

**FAQ: What is the activity described in DO-330/ED-215 section 6.2.2.b?**

**Reference:** DO-330/ED-215: Section 6.2.2.b

**Keywords:** Tool Operational Requirements; validation

**Answer:**

DO-330/ED-215 section 6.2.2.b describes the following activity:

- b. Identification and demonstration of relevant process(es): The Tool Operational Requirements should demonstrate the coverage of the process(es) intended to be eliminated, reduced, or automated by the use of the tool.

This activity is a Tool Operational Requirements validation activity. Reviews and analyses should be performed on the Tool Operational Requirements to ensure that they are sufficient and correct to cover the process(es) to be eliminated, reduced, or automated by the tool as described in the PSAC.

**Rationale for IP:**

The aim of this FAQ is to clarify the existing DO-330/ED-215 activity described in section 6.2.2.b. This activity is called out in Table T-0(6).

<b>6</b>	Tool Operational Requirements are sufficient and correct.	<a href="#">6.2.1.aa</a>	6.2.2.b	●	●	○	○	○
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It is suggested that a future committee should consider changing section 6.2.2.b to the following text:

- b. Tool Operational Requirements validation: Reviews and analyses should be performed on the Tool Operational Requirements to ensure that they are sufficient and correct to eliminate, reduce, or automate the process(es) identified in the PSAC.

It is believed this proposed rewording offers the following advantages:



1. It emphasizes that this activity is traced to a validation objective (6.2.1.aa).
2. It clarifies that this activity is typically a review and analysis to be performed on the TOR (tool testing is covered by a separate activity, 6.2.2.c.4).
3. It matches the text of objective 6.2.1.aa more closely.

The meaning of 6.2.2.b remains unchanged. This suggested rewording matches the intent of the original text.

Since FAS does not have the authority to make changes to DO-330/ED-215, this FAQ has been created to provide clarity in the meantime.