Development Assurance for Software or Hardware

Who is going to define software / software assurance level (SWAL) requirements for a particular ATM/ANS system? EASA, ANSP, ...?

Answer

The design or production organisation (DPO) should anticipate the SWAL that is expected by the air navigation service provider (ANSP). This SWAL needs to be incorporated into the DPO's software development process of the equipment. The EASA attestation is granted according to that SWAL. It is the responsibility of the DPO to declare the SWAL that will be followed for the development of the equipment. This needs to be documented by the DPO in the certification programme.

The ANSP has the responsibility to select equipment in accordance with the safety assessment and the SWAL requirement for the functional system.

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04/04/2024

Link:
https://www.easa.europa.eu/en/faq/139175

Did I understand correctly that the software assurance level (SWAL) assignment and stating that the equipment is safe for use is moved to design or production organisations (DPOs)? I got that impression from previous sessions and disagree since safety (as

Answer

See answer to FAQ 'Who is going to define softwares / software assurance level (SWAL) requirements for a particular ATM/ANS system? EASA, ANSP, ...?'.

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If the software design assurance level (SW DAL) of equipment depends on ATM functions of the air navigation service provider (ANSP), how do you guarantee that certified/declared equipment will be available with such an expected level? Aren't we creating a

Answer

This is similar to the case of safety objectives; the market will tend to provide products that are demanded by the ANSPs. A design or production organisation (DPO) will develop products per their anticipated selected software assurance level (SWAL). The ANSP will select the equipment that meet the required SWAL to meet their safety objectives of the functional system.

See also answer to FAQ 'Who is going to define software/SWAL requirements for a particular ATM/ANS system? EASA, ANSP, ...?'.

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ED-153 considers that the air navigation service provider (ANSP) shall allocate the software assurance level (SWAL). Which standard support that the DPO shall allocate the SWAL? As in a previous comment, ANSP should allocate the SWAL and DPO should eviden

Answer

See answer to FAQ 'Who is going to define software/SWAL requirements for a particular ATM/ANS system? EASA, ANSP, ...?'.

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