ECSS-E-ST-40C Rev1 Working Group status

Christophe Honvault

13/11/2023

→ THE EUROPEAN SPACE AGENCY

Working Group

- 22 participants from 9 organisations
- Kicked-off on 01/10/2019 … for one year
- Meetings impacted by Covid-19
  - only one face to face meeting
  - 23 web conferences
- Work coordinated with:
  - ECSS-Q-ST-80-10C DIR1 "Space product assurance – Security in space systems lifecycles"
  - Synchronisation with ECSS-E-ST-20-40C
  - Synchronisation with ECSS-Q-ST-80C Rev.2

Organisation	Count
Airbus Defence and Space SAS	1
ArianeGroup	2
CNES	3
DLR	2
ESA	9
INTECS	1
OHB	1
Thales Alenia Space	3

Status

- Public review initiated on 23/08/2022, closed on 06/01/2023, 88 DRRs received and processed

- Updated version delivered to ECSS Secretariat for publication early 2024

- Meanwhile, …

    - update of ECSS-HB-ST-40A is on-going

        - to align to ECSS-E-ST-40C Rev1,

        - to update best practices

    - update of ECSS-Q-ST-80C Rev1 is on-going

    - ECSS-E-ST-20-40C DIR1 "Space engineering – ASIC, FPGA and IP Core engineering" and ECSS-Q-ST-60-02C Rev.1 DIR1 "Space product assurance – ASIC, FPGA and IP Core product assurance" published

    - Public review of ECSS-Q-ST-80-10C DIR1 "Space product assurance – Security in space systems lifecycles" closed.

    - Public Review of ECSS-E-HB-40-02A DIR1 "Space engineering – Machine learning qualification handbook" closed.

ECSS-E-HB-40C Rev1 Working Group status

Christophe Honvault

13/11/2023

→ THE EUROPEAN SPACE AGENCY

Working Group

- 11 participants from 5 organisations
- Kicked-off on 18/10/2021
- The main objectives are:
  - Alignment to ECSS-E-ST-40C Rev1
  - Update with respect to new technologies, lessons learnt and best practices
  - Better coverage of ECSS-E-ST-40C Rev1 requirements

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Status

- Update progressing slowly due to the limited availability of working group members and experts

- External writers have been involved

- Technology evolutions considered in the new version:

  - Model-Based Software Engineering

  - Multi-core processors and System-on-Chips

  - Modern software validation techniques

- Importance of the tailoring is reaffirmed and underlined

- The transition to digital process is addressed

- The objective is to initiate the public review for ADCSS 2024

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