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SQA for EUCLID NISP DPU ASW: implementation, possible evolution and impact on the development of an SQA infrastructure for ground-based instruments

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The Data Processing Unit (DPU) is the scientific core of the EUCLID NISP instrument where data processing is, for the first time on this type of instrument, performed in flight. The SQA process for its ASW (Application Software) is described here: the standards, the quality targets, and the tools used during the software lifecycle. A possible evolution of this framework using exclusively open-source tools is under scrutiny and is also described. Lastly, as ESO/ELT instruments are reaching complexities comparable to space-based instruments and ESO itself is keen to apply ECSS standards, we describe how SQA for ESO/ELT instruments is going to profit from NISP DPU ASW experience.

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