

A Standard Based Reference Framework for System Adaptation and Installation Requirements

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Abstract:

The European standards for the aerospace industry (ECSS series) include system adaptation and installations requirements as one of sixteen types of non functional requirements (NFR) for embedded and real-time software. A number of concepts are provided in the ECSS, ISO 9126 and IEEE standards to describe the various types of candidate adaptation and installation requirements at the system, software, and hardware levels. This paper collects and organizes these adaptation and installation-related descriptions into a generic model for the specification of software adaptation and installation requirements, and to measure their functional size for estimation purposes using the COSMIC ISO 19761 standard.

Published in: [Next Generation Mobile Applications, Services and Technologies \(NGMAST\), 2012 6th International Conference on](#)

Date of Conference: 12-14 Sept. 2012

Date Added to IEEE *Xplore*: 11 October 2012

ISBN Information:

ISSN Information:

INSPEC Accession Number: 13061335

DOI: [10.1109/NGMAST.2012.19](https://doi.org/10.1109/NGMAST.2012.19)

Publisher: IEEE

Conference Location: Paris, France