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I.S. EN 16602-20-10:2014

Space product assurance - Off-the-shelf items utilization in space systems

I.S. EN 16602-20-10:2014

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Space product assurance - Off-the-shelf items utilization in space systems

Assurance produit des projets spatiaux - Utilisation
d'éléments sur étagères dans les systèmes spatiaux

Raumfahrtproduktsicherung - Nutzung von off-the-shelf
Produkten in Raumfahrtssystemen

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Table of contents

Foreword	4
1 Scope.....	5
2 Normative references	6
3 Terms, definitions and abbreviated terms.....	7
3.1 Terms from other standards.....	7
3.2 Terms specific to the present standard	7
3.3 Abbreviated terms.....	7
4 Principles	9
4.1 Structure and organization of OTS item selection process.....	9
4.1.1 Market investigation and OTS items identification	9
4.1.2 OTS item characterization and selection	9
4.1.3 OTS item procurement and qualification	10
5 Requirements.....	12
5.1 Documentation	12
5.1.1 OTS plan.....	12
5.1.2 Equipment specification	12
5.1.3 OTS item evaluation dossier	12
5.2 Market investigation and OTS item identification	13
5.2.1 OTS item identification	13
5.2.2 Preliminary Make-or-Buy decision point	14
5.3 OTS characterization	15
5.3.1 General.....	15
5.3.2 Product assurance evaluation for OTS item characterization	16
5.4 Performance evaluation - Engineering related activities.....	20
5.4.1 Structural and mechanical evaluation.....	20
5.4.2 Thermal evaluation.....	20
5.4.3 Electrical	21
5.4.4 Maintenance	23

5.5	Final Make or Buy Decision	23
5.6	OTS item procurement and qualification	23
5.6.1	OTS item procurement.....	23
5.6.2	Qualification	24
Annex A (normative) OTS plan - DRD		25
Annex B (normative) OTS item evaluation dossier - DRD.....		27
Annex C (informative) ECSS-DRD Informational Reference.....		33
Bibliography.....		34
Figures		
	Figure 4-1: OTS items selection process flow.....	11
	Figure B-1 : Example of an OTS item status evaluation matrix.....	30
	Figure B-2 : Example of an comparison of existing OTS item qualification vs project requirements	31
	Figure B-3 : Example of OTS item dedicated data summary	32

Foreword

This document (EN 16602-20-10:2014) has been prepared by Technical Committee CEN/CLC/TC 5 "Space", the secretariat of which is held by DIN.

This standard (EN 16602-20-10:2014) originates from ECSS-Q-ST-20-10C.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2015, and conflicting national standards shall be withdrawn at the latest by March 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This document has been developed to cover specifically space systems and has therefore precedence over any EN covering the same scope but with a wider domain of applicability (e.g. : aerospace).

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1

Scope

This Standard applies to all parties involved at all levels in the utilization of OTS items into space segment hardware and launchers.

For the purpose of this Standard, Off-the-Shelf (OTS) Items are those that, even if not necessarily developed for space applications, can be procured from the market and utilized in a space system.

This Standard contains the requirements for the utilization of OTS Items, in terms of their selection, characterization and procurement for space system use.

This Standard considers complex OTS items, as for example: motherboards, cards, data storage units/items, optical equipments, photo cameras and video units, LANs, mechanical/electrical and electromechanical devices, batteries, sensors, monitoring support units, medical equipments and items, laptops.

This Standard does not cover:

- software OTS,
- re-use of OTS items already qualified for space applications,

NOTE However, items not belonging to the same lot of the OTS item already evaluated using this standard, can be subjected to partial re-evaluation and re-qualification since, on the commercial market, fast evolution of the design occurs.

- Pieces, parts and materials, such as electrical, electronic and electromechanical (EEE) parts, thermocouples, rivets, fasteners, connectors, fittings, adhesives, insulation, wiring and plumbing.

This standard is not specifically addressing the re-use of OTS items for the same space application for which they were initially qualified.

This standard may be tailored for the specific characteristic and constrains of a space project in conformance with ECSS-S-ST-00.

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