

# DIN EN 16602-20-10:2014-12 (E)

Space product assurance - Off-the-shelf items utilization in space systems; English version EN 16602-20-10:2014

---

<b>Contents</b>	Page
<b>Foreword</b> .....	<b>4</b>
<b>1 Scope</b> .....	<b>5</b>
<b>2 Normative references</b> .....	<b>6</b>
<b>3 Terms, definitions and abbreviated terms</b> .....	<b>7</b>
3.1 Terms from other standards.....	7
3.2 Terms specific to the present standard .....	7
3.3 Abbreviated terms.....	7
<b>4 Principles</b> .....	<b>9</b>
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
<b>5 Requirements</b> .....	<b>12</b>
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
<b>Annex A (normative) OTS plan - DRD .....</b>		<b>25</b>
<b>Annex B (normative) OTS item evaluation dossier - DRD.....</b>		<b>27</b>
<b>Annex C (informative) ECSS-DRD Informational Reference.....</b>		<b>33</b>
<b>Bibliography.....</b>		<b>34</b>

**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