

INTERNATIONAL  
STANDARD

ISO  
21350

Second edition  
2023-04

---

---

## Space systems — Off-the-shelf item utilization

*Systèmes spatiaux — Utilisation d'équipement prêt à l'emploi*



Reference number  
ISO 21350:2023(E)

© ISO 2023



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2023

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

	Page
<b>Foreword</b> .....	<b>v</b>
<b>Introduction</b> .....	<b>vi</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Requirements</b> .....	<b>2</b>
4.1 Responsibilities.....	2
4.2 Tailoring.....	2
<b>5 Policy</b> .....	<b>2</b>
5.1 Evaluation of the OTS item design.....	2
5.1.1 General.....	2
5.1.2 OTS item requirements.....	2
5.1.3 OTS item evaluation.....	2
5.2 Rules in a critical application of OTS.....	3
5.2.1 Operational boundaries.....	3
5.2.2 Design evaluation.....	3
5.2.3 OTS item modifications.....	3
5.2.4 Qualification requirements.....	3
<b>6 Precautions and warning notes</b> .....	<b>4</b>
6.1 Notes about product heritage of OTS item.....	4
6.1.1 OTS product heritage.....	4
6.1.2 Application of OTS item design/manufacturing practices.....	4
6.1.3 OTS item design margins.....	4
6.2 Acquisition of OTS items.....	4
6.2.1 General.....	4
6.2.2 Specification.....	4
6.2.3 Space environment.....	4
6.2.4 Configuration control.....	4
6.2.5 Acceptance testing.....	4
6.2.6 Maintenance.....	5
6.3 Management of modified OTS item.....	5
6.3.1 Purchasing.....	5
6.3.2 Qualification.....	5
6.4 Programmatic decision to use an OTS item.....	5
6.4.1 Functional/technical capability.....	5
6.4.2 Interface definition.....	5
6.4.3 Modification versus heritage.....	5
<b>7 Decision logic for OTS item usage</b> .....	<b>5</b>
<b>8 Procedure</b> .....	<b>6</b>
8.1 Categorizing of available OTS items.....	6
8.2 Considering a good candidate for selection.....	6
8.3 Compromise of discrepancies between an OTS item and project requirements.....	6
8.4 Satisfying the OTS item's requirements.....	6
8.4.1 Qualification plan.....	6
8.4.2 Categorization.....	6
8.4.3 Combining the parameters.....	7
<b>Annex A (informative) A decision logic for OTS item utilization</b> .....	<b>8</b>
<b>Annex B (normative) Requirement list for OTS item utilization</b> .....	<b>12</b>
<b>Annex C (informative) OTS item application categories</b> .....	<b>14</b>