

ISO 21350:2023-04 (E)

Space systems - Off-the-shelf item utilization

| Contents | | Page |
|--------------------|--|-------------|
| Foreword | | v |
| Introduction | | vi |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Requirements | 2 |
| 4.1 | Responsibilities | 2 |
| 4.2 | Tailoring | 2 |
| 5 | Policy | 2 |
| 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 |
| 6 | Precautions and warning notes | 4 |
| 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 |
| 7 | Decision logic for OTS item usage | 5 |
| 8 | Procedure | 6 |
| 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 |
| Annex A (informative) A decision logic for OTS item utilization | | 8 |
| Annex B (normative) Requirement list for OTS item utilization | | 12 |
| Annex C (informative) OTS item application categories | | 14 |
| Bibliography | | 15 |