

This is a preview of "ISO 17401:2004". [Click here to purchase the full version from the ANSI store.](#)

First edition  
2004-06-01

---

---

## **Space systems — Spacecraft interface requirements document for launch vehicle services**

*Systèmes spatiaux — Document d'exigences d'interface du véhicule spatial vis-à-vis du service de lancement*



Reference number  
ISO 17401:2004(E)

© ISO 2004

This is a preview of "ISO 17401:2004". [Click here to purchase the full version from the ANSI store.](#)

**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2004

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

This is a preview of "ISO 17401:2004". [Click here to purchase the full version from the ANSI store.](#)

## Contents

	Page
<b>1 Scope .....</b>	<b>1</b>
<b>2 Terms, definitions and abbreviated terms .....</b>	<b>1</b>
<b>3 Spacecraft mission description .....</b>	<b>2</b>
<b>4 Mechanical interfaces .....</b>	<b>2</b>
<b>5 Electrical interfaces .....</b>	<b>4</b>
<b>6 Radio-frequency and electromagnetic interface .....</b>	<b>7</b>
<b>7 Spacecraft mission characteristics .....</b>	<b>10</b>
<b>8 Environment requirements .....</b>	<b>12</b>
<b>9 SC Development and test programme .....</b>	<b>14</b>
<b>10 Launch range operations: facilities and support requirements .....</b>	<b>15</b>
<b>11 Other requirements .....</b>	<b>20</b>
<b>Bibliography .....</b>	<b>21</b>

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 17401 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 14, *Space systems and operations*.

This is a preview of "ISO 17401:2004". [Click here to purchase the full version from the ANSI store.](#)

## Introduction

This International Standard gives guidelines for writing an interface requirements document (IRD) for launch vehicle (LV) services. The application of this International Standard is intended to facilitate the technical exchanges between spacecraft (SC) and launch vehicle agencies. By reducing the amount of work necessary for requesting launch services, this International Standard will minimize spacecraft contractor's and spacecraft manufacturer's costs.

In some cases, drawings are explicitly requested in order to provide comprehensive information. Explicit international system units are specified for all items. The corresponding scale may be adjusted if not appropriate.

SC organizations may include additional topics if required. Some sections of the IRD may refer to specificities that are not applicable to the launch services of interest, in which case they should be ignored.

This is a preview of "ISO 17401:2004". [Click here to purchase the full version from the ANSI store.](#)