
**Industrial automation systems and
integration — Integration of life cycle
data for process plants including oil
and gas production facilities —**

**Part 10:
Conformance testing**

**(<https://standards.iteh.ai>)
Document Preview**

ISO 15926-10:2019

<https://standards.iteh.ai/catalog/standards/iso/4e34fc91-dbe2-4cea-8caf-a7b823d2737a/iso-15926-10-2019>



iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO 15926-10:2019

<https://standards.iteh.ai/catalog/standards/iso/4e34fc91-dbe2-4cea-8caf-a7b823d2737a/iso-15926-10-2019>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2019

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
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principles and methods	2
4.1 Conformance testing	2
4.2 Conformance to the ISO 15926 series	2
4.2.1 Conformance to ISO 15926-1	2
4.2.2 ISO 15926-1 conformance scenarios	3
4.2.3 Conformance testing in accordance with ISO 15926-1	4
4.3 Simple scenario	5
4.3.1 Overview	5
4.3.2 Introduction	5
4.3.3 Process steps of the workflow of exchange data	6
4.3.4 Aspects to be validated	7
4.3.5 Detailed validation	9
4.3.6 Not in scope	12
5 Conformance to ISO/TS 15926-7 and ISO/TS 15926-8	12
5.1 Overview	12
5.2 General	13
5.3 Procedure steps of the workflow of integration	14
5.4 Not in scope	15
6 Conformance to ISO/TS 15926-11	15
6.1 Overview of scenario conformance	15
6.2 General	17
6.3 Procedure steps of the workflow of handover	18
6.4 Not in scope	19
Annex A (normative) Overall conformance to ISO 15926	20
Annex B (normative) Conformance to ISO/TS 15926-4	24
Annex C (normative) Conformance to ISO/TS 15926-7 and ISO/TS 15926-8	26
Annex D (normative) Conformance to ISO/TS 15926-11	28
Annex E (normative) Conformance to ISO/TS 15926-12	33
Annex F (normative) Conformance to ISO 15926-13	39
Bibliography	41

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 184, *Automation systems and integration*, Subcommittee SC 4, *Industrial data*.

A list of all parts in the ISO 15926 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document demonstrates specified requirements of conformance to ISO 15926.

The target audiences for this document are as follows:

- users of a software product wishing to determine whether a software product deployed and/or a deliverable of the software product fulfils the specified requirements to conform to ISO 15926;

NOTE 1 Users typically include, but are not limited to, plant owners, project management contractors, front end engineering design contractors, engineering procurement construction contractors, original equipment manufacturing suppliers, catalogue providers, commissioning engineers, information technology engineers, and information management engineers.

- implementers wishing to determine whether a software product developed and/or a deliverable of the software product fulfils the specified requirements to conform to ISO 15926.

NOTE 2 Implementers include, but are not limited to, software engineers working for commercial software product development companies, and software engineers working on industrial businesses using their developed software product.

Users of this document are expected to have an understanding of conceptual data models, of the ISO 15926 series, of the ISO/TS 18876 series and of ISO/IEC/IEEE 15288.

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[ISO 15926-10:2019](https://standards.itih.ai/catalog/standards/iso/4e34fc91-dbe2-4cea-8caf-a7b823d2737a/iso-15926-10-2019)

<https://standards.itih.ai/catalog/standards/iso/4e34fc91-dbe2-4cea-8caf-a7b823d2737a/iso-15926-10-2019>

