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Condition monitoring and diagnostics of machines — Data processing, communication and presentation —

Part 3: Communication

*Surveillance et diagnostic d'état des machines — Traitement, échange
et présentation des données —*

Partie 3: Échange



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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Open CM&D information architecture communication requirements	1
4.1 Overview	1
4.2 Reference data library communication requirements	2
4.3 Communications initiation requirements	2
4.4 Message content requirements	2
5 Open CM&D processing architecture communication requirements	2
5.1 Overview	2
5.2 Diverse technologies and UML representation	3
5.3 Interface types and general interaction	4
5.4 Specific ISO 13374-2 interface method requirements	7
5.5 Data provider specification support considerations	8
Annex A (informative) Open CM&D information architecture based on IEC 62264-5 ^[1]	10
Bibliography	21

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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 13374-3 was prepared by Technical Committee ISO/TC 108, *Mechanical vibration, shock and condition monitoring*, Subcommittee SC 5, *Condition monitoring and diagnostics of machines*.

ISO 13374 consists of the following parts, under the general title *Condition monitoring and diagnostics of machines — Data processing, communication and presentation*:

- *Part 1: General guidelines*
- *Part 2: Data processing*
- *Part 3: Communication*

The following part is planned:

- *Part 4: Presentation*

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Introduction

The various computer software systems written for condition monitoring and diagnostics (CM&D) of machines that are currently in use cannot easily exchange data or operate in a plug-and-play fashion without an extensive communication infrastructure. The lack of an all-purpose communication system makes it difficult to integrate various CM&D sub-systems and provide a unified view of the condition of machinery to users. The intent of ISO 13374 is to provide the basic requirements for open CM&D software architecture in order to allow CM&D information to be processed, communicated and displayed by various software packages independent of platform-specific or hardware-specific protocols.

ISO 13374-1 gives a general overview of data processing, communication and presentation. ISO 13374-2 provides greater details of the data-processing methodology and requirements present in today's software-enhanced systems. This part of ISO 13374 provides the requirements of the data communication architecture for open CM&D systems.