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## **Environmental management — Life cycle assessment — Data documentation format**

*Management environnemental — Analyse du cycle de vie — Format de  
documentation de données*



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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 3.

The main task of technical committee 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 least 75 % of the member bodies casting a vote.

In other circumstances, particularly when there is an urgent market requirement for such documents, a technical committee may decide to publish other types of normative document:

- an ISO Publicly Available Specification (ISO/PAS) represents an agreement between technical experts in an ISO working group and is accepted for publication if it is approved by more than 50 % of the members of the parent committee casting a vote;
- an ISO Technical Specification (ISO/TS) represents an agreement between the members of a technical committee and is accepted for publication if it is approved by 2/3 of the committee casting a vote.

An ISO/PAS or ISO/TS is reviewed after three years with a view to deciding whether it should be confirmed for a further three years, revised to become an International Standard, or withdrawn. In the case of a confirmed ISO/PAS or ISO/TS, it is reviewed again after six years at which time it has to be either transformed into an International Standard or withdrawn.

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

ISO/TS 14048 was prepared by Technical Committee ISO/TC 207, *Environmental management*, Subcommittee SC 5, *Life cycle assessment*.

Annex A forms a normative part of this Technical Specification. Annex B is for information only.

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## Introduction

This Technical Specification provides a framework and requirements for the unambiguous documentation of Life Cycle Inventory analysis (LCI) data. Following the general framework for Life Cycle Assessment (LCA), laid down in ISO 14040, and the requirements and guidance on LCI, provided in ISO 14041, this specification intends to support a transparent reporting, interpretation and review of data collection, data calculation, data quality and data reporting, as well as facilitating data exchange. This Technical Specification supports LCA use and development, and is aimed primarily for data suppliers, LCA practitioners and LCA information system developers.

The data documentation format facilitates the reporting of LCI data and compliance with the requirements from ISO 14040 and ISO 14041 on data collection, data documentation and data quality. It also facilitates interpretation of LCI data as described in ISO 14043. In addition, the data documentation format allows the documentation and use of important information for Life Cycle Impact Assessment (LCIA), ISO 14042, including environmental information, environment condition and location.

The data documentation format is also intended to facilitate the exchange of LCI data without loss of transparency. This specification does not provide specific requirements for implementation of data exchange. However, the specification allows the flexibility to design different data exchange and data communication formats, as well as software tools that are fully consistent with the data documentation requirements herein.

Although primarily intended for documentation of life cycle data, the data documentation format can also be used for the management of environmental data, e.g. for reporting, performance assessment and benchmarking.

As practice emerges or needs for a broader use of data documentation format arise, the contained format and structure may be expanded to include additional information, such as from environmental performance evaluation, health and safety, and life cycle costing.

This Technical Specification contains a comprehensive list of requirements, rather than a procedural specification. The document specifies how the general documentation requirements for LCI data, as expressed in the ISO 14040 standards, is divided into data fields. Each data field holds text, in some cases selected from a specific nomenclature, or quantitative data. The meaning of each data field is specified in a short descriptive text. The structure of the document itself specifies the relationship between the data fields.

The specification, explanation and implementation of the data documentation format is described in different parts of the document as follows:

- clause 5 covers the specification and structure of the data documentation format and the names of all of the data fields;
- clause 6 covers the specification of the data types used in the data documentation format;
- clause 7 covers the specification of nomenclatures used in the data documentation format;
- annex A contains formatting requirements and explanatory descriptions of each data field to help the user understand which information to place in each data field;
- annex B contains a detailed example of the use of the data documentation format.