



BSI Standards Publication

Packaging — Codification of contents for inventories for shipments of household goods and personal effects

Part 2: XML messaging structure for electronic transmission of inventory data

National foreword

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**Packaging — Codification of contents
for inventories for shipments of
household goods and personal
effects —**

**Part 2:
XML messaging structure for electronic
transmission of inventory data**

*Emballages — Codification du contenu pour inventaires pour les
expéditions des biens d'équipement ménager et d'effets personnels —*

*Partie 2: Structure de messagerie XML pour la transmission
électronique de données d'inventaire*





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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.

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 on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 122, *Packaging*.

A list of all parts in the ISO 17451 series can be found on the ISO website.

This document is based upon ANSI/HHGFAA NCC 2008-001-2010 and has been revised during the ISO standards development process. *ANSI/HHGFAA NCC 2008-001-2010* will be withdrawn upon publication.

Introduction

This document provides a standard format, which enables household goods movers and forwarders, to exchange shipment related information with each other and with other industry stakeholders in language, software and hardware agnostic format – XML.

When used with ISO 17451-1, which provides the international moving industry with a common codified language, this document will enable users to communicate this information regardless of their language of choice and, as a result, promote transparency and visibility for these shipments. A secondary motivation for the development of this document is to encourage standardization and, in turn, efficiency within the industry.

The layout of the proposed electronic shipment XML is governed by an XML schema document, Inventory XSD.

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Packaging — Codification of contents for inventories for shipments of household goods and personal effects —

Part 2: XML messaging structure for electronic transmission of inventory data

1 Scope

This document specifies a common XML structure for the transmission of inventory information for shipments of household goods and personal effects between moving companies and their external partners. The Inventory XSD defined in [Clause 5](#) specifies the XML structure to be used.

Each XML document corresponds to one shipment carried by land, sea or air.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 17451-1:2016, *Packaging — Codification of contents for inventories for shipments of household goods and personal effects — Part 1: Numeric codification of inventories*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1 extensible markup language XML

markup language that defines a set of rules for encoding documents in a format that is both human-readable and machine-readable

3.2 inventory

complete list of items in a particular *shipment* ([3.4](#))

3.3 occurrence

term used to express the number of possible instances of a data element and allows an element to be specified as mandatory, optional, or can appear up to a set number of times

Note 1 to entry: More information on *occurrence* is specified in [4.2](#).