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Freight containers — Container equipment data exchange (CEDEX) —

Part 3: Message types for electronic data interchange

*Conteneurs pour le transport de marchandises — Échange de données
sur les équipements de conteneurs (CEDEX) —*

Partie 3: Types de messages pour l'échange de données informatisées



Reference number
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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.

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.

International Standard ISO 9897-3 was prepared by Technical Committee ISO/TC 104, *Freight containers*.

ISO 9897 consists of the following parts, under the general title *Freight containers — Container equipment data exchange (CEDEX)*:

- *Part 1: General communication codes*
- *Part 2: Telex transmission*
- *Part 3: Message types for electronic data interchange*

Annex A of this part of ISO 9897 is for information only.

Introduction

This part of ISO 9897 specifies rules of communication for use in electronic data interchange. It is intended for use between business entities in communications relating to commercial container transactions on the basis of standardized message types.

Freight containers — Container equipment data exchange (CEDEX) —

Part 3: Message types for electronic data interchange

1 Scope

This part of ISO 9897 establishes a system for computer-to-computer communication in commercial transactions relating to containers.

It consists of

- a data segment directory for the development of messages;
- a directory of message types for container encoded data exchange required for the presentation of information about freight container operations.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 9897. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 9897 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 4217:1990, *Codes for the representation of currencies and funds*.

ISO 6346:1984, *Freight containers — Coding, identification and marking*.

ISO 9735:1988, *Electronic data interchange for administration, commerce and transport (EDIFACT) — Application level syntax rules*.

ISO 9897-1:1990, *Freight containers — Container equipment data exchange (CEDEX) — Part 1: General communication codes*.

UN/EDIFACT, *Standard Data Segments Directory*.

3 Rules of communication for use in electronic data interchange

3.1 General

This part of ISO 9897 is intended to provide guidance for those parties intending to introduce electronic data interchange into their commercial transmitting container transactions.

The procedures for transmitting container data and related information are given in 3.2 and 3.3.

3.2 Data elements

Codes for various characteristics of containers are given in ISO 9897-1, which also includes CEDEX code assignments for certain operating conditions and factors concerning business transactions. Table 1 is reproduced for reference from ISO 9897-1:1990.

Table 1 — Data elements and code sets

Data elements	Code set; see annex ¹⁾
Message type	A
Full/empty indicator (container)	B
Structural condition (container)	B
Repair condition (container)	B
Outside coating (container)	B
Inside coating (container)	B
Damage location	C
Damage type	D
Material type	E
Repair type	F
Measure unit specifier	G
Repair size dimension	G
Work scale (standard time factor)	G
Responsibility (for repair action)	H
Party identification and location	J
Component for container	K
Component for chassis	L

1) Of ISO 9897-1:1990.

These data elements are part of data segments developed for message types used in electronic data interchange (see 3.3.2 and 3.3.3).

3.3 CEDEX transmission

3.3.1 General

Messages for electronic data interchange, described in the following clauses, are developed using the appropriate standards.

3.3.2 Segment directory

Data segments are defined in this subclause as the basis for the development of the message structure diagrams described in 3.3.3.1.

Equivalent data elements are listed for each segment, with the value representation (size) and the status of the segment expressed as follows:

Value representation (size):

- a = alphabetic characters
- n = numeric characters
- an = alpha-numeric characters

EXAMPLE

- a3 = three alphabetic characters, fixed length
- a..3 = three alphabetic characters, maximum length

Status:

- M = mandatory data element
- C = conditional data element

The segments are presented in 3.3.2.1 to 3.3.2.18.

3.3.2.1 UNH: Message header (from UN/EDIFACT Standard Data Segments Directory)

Function: to head, identify and specify a message.

Reference number	Data element	Status	Size	Description
0062	Message reference number	M	an..14	A sender's unique message reference
S009	Message identifier	M		Type of message being transmitted ¹⁾ Version number of message
0065	Message type identifier	M	an..6	
0052	Message type version number	M	n..3	
0054	Message type release number	C	n..3	
0051	Controlling agency, coded	C	an..2	
0057	Association assigned code	C	an..6	
0068	Common access reference	C	an..35	Key to relate all subsequent transfers of data to the same business file
S010	Status of the transfer	C		
0070	Sequence message transfer number	M	n..2	
0073	First/last sequence message transfer indication	C	a1	

1) See annex A of ISO 9897-1:1990.

3.3.2.2 RFF: References (from UN/EDIFACT Standard Data Segments Directory)

Function: to specify identifying numbers associated with a message.

Reference number	Data element	Status	Size	Description
1153	Reference qualifier	M	an..3	For example MCP (see 3.4)
C274	Reference	M	n6	
1154	Reference number	C ¹⁾	an..35	Not used in CEDEX
1156	Line number	C	an..6	
C033	Date/time of reference	C ¹⁾		Message completion date
2001	Date, coded	C	n6	
2002	Time	C	n4	
1) Mandatory in CEDEX.				

3.3.2.3 CUX: Currencies (from UN/EDIFACT Standard Data Segments Directory)

Function: to specify currencies used in the transaction and relevant details for the rate of exchange.

Reference number	Data element	Status	Size	Description
C180	Reference currency	M		See ISO 4217
6345	Currency, coded	M	a3	
6343	Currency qualifier	C	an..3	
C182	Target currency	C		Not used in CEDEX
6345	Currency, coded	M	a3	
6343	Currency qualifier	C	an..3	
5402	Rate of exchange	C	n..12	
6341	Currency market exchange, coded	C	an..3	
C034	Date/time of rate	C		
2005	Date/time qualifier	C	an..3	
2001	Date, coded	C	n6	
2002	Time	C	n4	
2461	Time zone specifier, coded	C	an3	

3.3.2.4 LBR: Labour

Function: to indicate the labour rate.

Reference number	Data element	Status	Size	Description
8578	Labour rate	C	n..15	Labour cost per hour