
**Freight containers — Container
equipment data exchange (CEDEX) —**

**Part 6:
Message sets for data transfer
between local computer and host
computer**

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

*Partie 6: Ensembles de messages pour le transfert de données entre
l'ordinateur local et l'ordinateur hôte*



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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 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.

The committee responsible for this document is ISO/TC 104, *Freight containers*, Subcommittee SC 4, *Identification and communication*.

This first edition of ISO 9897-6, together with ISO 9897-1, ISO 9897-2 and ISO 9897-5, cancels and replaces ISO 9897:1997, which has been technically revised with the following change:

- It has been split into parts to simplify and relate the technical content of each part to each type of container and also to harmonize the parts of ISO 9897 with the order of container types as contained in the parts of ISO 1496.

It also incorporates the Technical Corrigendum ISO 9897:1997/Cor 1:2001.

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

- *Part 1: General communication codes for general purpose containers*
- *Part 2: Refrigerated containers*
- *Part 5: General communication codes for chassis*
- *Part 6: Message sets for data transfer between local computer and host computer*

Freight containers — Container equipment data exchange (CEDEX) —

Part 6:

Message sets for data transfer between local computer and host computer

1 Scope

This part of ISO 9897 specifies the general communication elements for container equipment data exchange (CEDEX).

This part of ISO 9897 establishes a guideline of data elements for transmission between container terminal or container depot computer systems and host computer systems. The purpose is to provide transmission of accurate and complete container maintenance and repair data to ensure efficiency and accountability (audit trail) related to such activities. The guidelines are also intended to provide seamless integration with any other standard data format for transmission to single or multiple remote host(s), as well as simple ex-/import processes within a system and/or between systems.

NOTE The data elements contained in this part of ISO 9897 are supplement to the generic codes as contained in other parts of ISO 9897 and includes therefore the necessary data for the transmission of specific information related to refrigerated containers, tank containers, chassis, etc. These data elements are provided to control data transmission, as well as to identify equipment manufacturer, model designation, serial number, spare part number, etc. This allows the users of ISO 9897 to designate same component codes for different manufacturer's equipment and to co-relate with each manufacturer's specific spare part numbers, as an example.

It consists of the following:

- data element directory for the development of messages;
- message structure guideline for data transmission.

This part of ISO 9897 is applicable to all freight containers covered by ISO 668, ISO 1496-1, ISO 1496-2, ISO 1496-5 and ISO 8323 and is intended, wherever appropriate and practicable, to also be applied to freight containers other than those covered by these International Standards, as well as other types of container-related equipment, such as chassis, etc.

This part of ISO 9897 is to be used in conjunction with ISO 9897-1, ISO 9897-2 and ISO 9897-5.

It is intended for business entities for use in communications relating to freight container transactions.

The content of the message sets in this part of ISO 9897 are designed to provide simple interface with the UN/CEFACT messages published as the United Nations Directories for Electronic Data Interchange for Administration, Commerce and Transport (UN/EDIFACT message sets), Joint Transport Group (JM4). The relevant Directory is DESTIM.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6346, *Freight containers — Coding, identification and marking*

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

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

ISO 9897-2, *Freight containers — Container equipment data exchange (CEDEX) — Part 2: Refrigerated containers*

ISO 9897-5, *Freight containers — Container equipment data exchange (CEDEX) — Part 5: General communication codes for chassis*

UN/C-FACT Draft Directory and Standard Directory

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6346, ISO 9897-1, ISO 9897-2, ISO 9897-5 and ISO 9735 apply.

4 Principle

This part of ISO 9897 is intended to provide guidance for those parties intending to introduce or enhance the current data interchange in their commercial transactions related to container maintenance and repair including spare part management, as well as container repair depot/terminal gate transactions.

The following message sets are part of a total set of container industry-related messages. These messages serve to facilitate the overall data exchange related to container equipment or alternatively serve as a guide only, of elements which may be used entirely or partly in the exchange of information related to maintenance and repair of containers.

The message sets included in this part of ISO 9897 are the following:

- WESTIM: container repair estimate header details;
- WESTIMDT: container repair estimate cost item details.

5 Message description and file structure

5.1 Message description

5.1.1 General

The messages sets provide a record structure based on a simple position oriented flat file.

5.1.2 Position column

Represents the first position of the data element in the flat file.

5.1.3 Width column

Represent the size of the data element in the flat file. If the data element has no value, it will be represented in the flat file by blanks.

5.1.4 Type column

CHARACTER	(C)	alpha/numeric text
NUMERIC	(N)	numeric field
LOGICAL	(L)	True or false (to support software validation flags)
DATE/TIME	(D)	CCYYMMDDHHMM

5.1.5 Value column

The value indicators, M and F, in the following table represent the minimum requirements to fulfil the needs of the message structure. They may not be sufficient for all implementations. The value indicator O represents the optional data elements for messaging control and accountability purposes.

Value indicators description:

Value	Description
M	Mandatory data element.
F	Functional data element depending on a condition as defined in ISO 18185-2.
O	Optional data element indicates that this item is to be used at the discretion of the supporting systems.

5.1.6 Party addresses

Addresses in accordance with [Annex A](#) and as published by the Bureau International des Containers et du Transport Intermodal (BIC).

5.1.7 Disallowed characters

The + : ' and ? characters are not allowed in any data elements, as they are reserved UN/EDIFACT characters and can cause the message failure when mapped to such message types.

5.2 Message file structure

5.2.1 Work ESTIMate header (WESTIM)

#	Name	Position	Width	Type	Description
1	COMPLETE	1	1	L	Confirms document completed
2	SENT_EIR	2	1	L	Flags F/T before/after send session
3	SENT_DATE	3	8	D	Date message sent
4	REC_EIR	11	1	L	Flags F/T before/after send session
5	REC_DATE	12	8	D	Date received
6	REC_ADDR	20	9	C	9 digit code of receiving party
7	REC_TYPE	29	1	C	1 digit type code of receiving party
8	EXPORTED	30	1	L	Default F, flags T after export
9	EXPOR_DATE	31	8	D	Date of export
10	IMPORTED	39	1	L	Default F, flags T after import
11	IMPOR_DATE	40	8	D	Date of import
12	TRNSXN	48	14	C	Estimate number

#	Name	Position	Width	Type	Description
13	PTY_RSPONS	62	1	C	To identify party responsible for repair
14	REVISION	63	1	C	Revision number of estimate
15	ESTIM_DATE	64	8	D	Date of estimate
16	UNIT_ID_A	72	4	C	e.g. CONU – prefix
17	UNIT_ID_N	76	6	C	e.g. 123456 – unit number
18	UNIT_ID_C	82	1	C	e.g. 1 – check digit
19	REFERENCE	83	35	C	Customer reference
20	EQUIP_TYPE	118	3	C	CON, CHZ or GEN
21	EQUIP_CODE	121	4	C	ISO code
22	EQUIP_DESC	125	30	C	Text description
23	TERM_LOCA	155	9	C	Location of redelivery (depot code)
24	TERM_DATE	164	8	D	Date of redelivery
25	TERM_TIME	172	5	C	Time of redelivery (24 h – local time)
26	LASTOHLOC	177	9	C	Last on hire location (depot code)
27	LASTOHDAT	186	8	D	Last on hire date
28	STATUS	194	10	C	Container status
29	MANU_DATE	204	5	C	Date of manufacture (MM/YY)
30	CSC_REEXAM	209	5	C	ACEP or MM/YY
31	LOAD	214	1	C	1 digit status indicator
32	SENDER	215	15	C	Person sending the message
33	ATTENTION	230	15	C	Person to whom message is sent (text)
34	LSR_OWNER	245	9	C	Lessor code
35	SEND_ED1_1	254	1	L	T/F for send
36	SSL_LSE	255	9	C	Lessee code
37	SEND_ED1_2	264	1	L	T/F for send
38	HAULIER	265	9	C	Trucker code
39	SEND_ED1_3	274	1	L	T/F for send
40	DPT_TRM	275	9	C	Depot code
41	SEND_ED1_4	284	1	L	T/F for send
42	INSURER	285	9	C	Code for insurance company
43	SURVEYOR	294	9	C	Code for survey company
44	OTHER1	303	9	C	Other EDI addressee
45	TAX_RATE	312	6,3	N	Tax rate
46	FILLER	318	3	C	Special use
47	NOTE1	321	70	C	Free text
48	NOTE2	391	70	C	Free text
49	NOTE3	461	70	C	Free text
50	BAS_CURR	531	3	C	Base currency for estimates
51	LABOR_RATE	534	12,2	N	Labour rate
52	DPP_CURR	546	3	C	Currency for DPP
53	DPP_AMT	549	10	N	Actual DPP coverage amount
54	WEIGHT	559	10	N	e.g. 24000
55	MEASURE	569	3	C	e.g. MGW – Maximum gross weight
56	UNITS	572	3	C	e.g. KGM
57	MATERIAL	575	2	C	Material

#	Name	Position	Width	Type	Description
58	U_LABOR	577	10,2	N	Labour cost for user/lessee
59	U_MATERIAL	587	10,2	N	Material cost for user/lessee
60	U_HANDLING	597	10,2	N	Handling cost for user/lessee
61	U_TAX	607	10,2	N	Tax for user/lessee
62	U_TOTAL	617	10,2	N	Total cost for user/lessee
63	I_LABOR	627	10,2	N	Labour cost for insurer (DPP)
64	I_MATERIAL	637	10,2	N	Material cost for insurer (DPP)
65	I_HANDLING	647	10,2	N	Handling cost for insurer (DPP)
66	I_TAX	657	10,2	N	Tax for insurer (DPP)
67	I_TOTAL	667	10,2	N	Total cost for insurer (DPP)
68	O_LABOR	677	10,2	N	Labour cost for owner/lessor
69	O_MATERIAL	687	10,2	N	Material cost for owner/lessor
70	O_HANDLING	697	10,2	N	Handling cost for owner/lessor
71	O_TAX	707	10,2	N	Tax for owner/lessor
72	O_TOTAL	717	10,2	N	Total cost for owner/lessor
73	D_LABOR	727	10,2	N	Labour cost for depot
74	D_MATERIAL	737	10,2	N	Material cost for depot
75	D_HANDLING	747	10,2	N	Handling cost for depot
76	D_TAX	757	10,2	N	Tax for depot
77	D_TOTAL	767	10,2	N	Total cost for depot
78	S_LABOR	777	10,2	N	Labour cost for special billing
79	S_MATERIAL	787	10,2	N	Material cost for special billing
80	S_HANDLING	797	10,2	N	Handling cost for special billing
81	S_TAX	807	10,2	N	Tax for special billing
82	S_TOTAL	817	10,2	N	Total cost for special billing
83	X_LABOR	827	10,2	N	Labour cost for deleted item
84	X_MATERIAL	837	10,2	N	Material cost deleted item
85	X_HANDLING	847	10,2	N	Handling cost deleted item
86	X_TAX	857	10,2	N	Tax deleted item
87	X_TOTAL	867	10,2	N	Total cost deleted item
88	EST_TOTAL	877	10,2	N	Estimate grand total
89	ADVICE	887	14	C	Acceptance advice number
90	EIR_NUM	901	14	C	EIR receipt number
91	AUTH_NUM	915	14	C	Work authorization number
92	AUTH_AMT	929	10,2	N	Work authorization amount
93	AUTH_PTY	939	9	C	Authorizing party code
94	AUTH_DATE	948	8	D	Approval date
95	O_ESTIM_DATE	956	8	D	Original date of estimate
96	OTHER2	964	9	C	Send fax to address
97	SEND_ED1_5	973	1	L	T/F for send
98	SEND_ED1_6	974	1	L	T/F for send
99	SEND_ED1_7	975	1	L	T/F for send
100	SEND_ED1_8	976	1	L	T/F for send
101	NOTE	977	70	C	Free text
102	NOTE	1 047	70	C	Free text

#	Name	Position	Width	Type	Description
103	WEIGHT2	1 117	7	N	Weight number 2
104	MEASURE2	1 124	3	C	Measure number 2
105	INVOICE_TYPE	1 127	2	C	P1 = power, T1 = tire, O1 = other
106	ODOMETER_HOURS	1 129	6	N	Odometer reading
107	OUTSVC_DATE	1 135	8	D	Out of service date
108	RETSVC_DATE	1 143	8	D	Return to service date
109	OWN_INSP_DATE	1 151	8	D	Owner inspection date
110	MECHANIC_NAME	1 159	25	C	Mechanics name
111	BILLEE_CODE	1 184	15	C	Code assigned by railroad
112	SUB_REPAIR_TYPE	1 199	1	C	Sub repair type code
113	OUT_SVC_TIME	1 200	5	N	Time unit went out of service
114	RET_SVC_TIME	1 205	5	N	Time unit returned to service
115	EQP_UNIT_MAN	1 210	2	C	Equipment manufacturer
116	EQP_UNIT_TYP	1 212	15	C	Equipment type designation
117	EQP_UNIT_SN	1 227	11	C	Equipment serial no.
118	REEF_COMP_SN	1 238	11	C	Reefer compressor serial no.
119	REEF_CTRL_SN	1 249	16	C	Reefer controller serial no.
120	REEF_MODM_SN	1 265	9	C	Reefer modem serial no.
121	REEF_RLBD-SN	1 274	8	C	Reefer main relay board serial no.
122	EQP_CUR_COND	1 282	20	C	Current equipment condition
123	EQP_PLND_COND	1 302	20	C	Planned equipment condition
124	EST_REP_DURTN	1 322	2	N	Estimated repair duration (no. of days)
125	EST_SERV_TYP	1 324	3	C	Estimate type e.g. in-service, off-hire, emergency repair.
126	ESTIM_TIME	1 327	5	N	Time of estimate (HH:MM)
127	CSC_COMPL	1 332	1	C	CSC compliance (Y/N/U)
128	INSPECTOR	1 333	25	C	Name of inspector
129	TRACK_DEV	1 358	12	C	Container tracking device (CTD) – Permanent, temporary or not present
130	TYP_TRCK_DEV	1 370	20	C	Type of tracking device
131	DEV_ID_NBR	1 390	28	C	Device identification number
**	Total	**	1418		

5.2.2 Work ESTimate DeTail (WESTIMDT)

#	Name	Position	Width	Type	Description
1	EXPORTED	1	1	L	Default F, flags T after export
2	EXPOR_DATE	2	8	D	Date of export
3	IMPORTED	10	1	L	Default F, flags T after import
4	IMPOR_DATE	11	8	D	Date of import
5	TRNSXN	19	14	C	Estimate number
6	REVISION	33	1	C	Revision number
7	ESTIM_DATE	34	8	D	Date of document
8	UNIT_ID_A	42	4	C	e.g. CONU – prefix
9	UNIT_ID_N	46	6	C	e.g. 123456 – unit number
10	UNIT_ID_C	52	1	C	e.g. 1 – check digit

#	Name	Position	Width	Type	Description
11	REFERENCE	53	49	C	Unused
12	LABOR_RATE	102	15,2	N	Labour rate
13	LINE	117	2	C	Line item number
14	REPAIR	119	2	C	Repair code
15	REPEATS	121	3	N	Quantity – number of damages
16	DAMAGE	124	2	C	Damage code
17	COMPONENT	126	3	C	Component code
18	COMP_MATL	129	2	C	Component material
19	LOCATION	131	4	C	Location code
20	LENGTH	135	8,2	N	Length dimension
21	WIDTH	143	8,2	N	Width dimension
22	HEIGHT	151	8,2	N	Height dimension
23	UNITS	159	3	C	Unit of measure
24	HOURS	162	6,2	N	Hours for line item
25	W_SCALE	168	2	N	Work scale (05, 10, 15, etc.)
26	MAT_COST	170	15,2	N	Line item material cost
27	PTY_RSPONS	185	1	C	Party responsible for line item
28	TAX_RULE	186	1	C	Repair taxation scope
29	AAR_JOB	187	4	C	AAR job code (from component in ISO 9897-5:2016, Annex K)
30	JOB_CODE	191	9	C	Tariff job code
31	DMGREPDESC	200	60	C	Composite damage, repair, component desc
32	OFF_TIRE_SIZE	260	10	C	Size of tire removed
33	OFF_BRAND	270	10	C	Brand of tire removed
34	OFF_SERIAL_NUM	280	15	C	Serial number (DOT) of tire removed
35	OFF_LOT_NUM	295	8	C	Lot number of tire removed
36	OFF_TREAD_DEPTH	303	1	N	Tread depth of tire removed
37	ON_TIRE_SIZE	304	10	C	Size of tire put on
38	ON_BRAND	314	10	C	Brand of tire put on
39	ON_SERIAL_NUM	324	15	C	Serial number (DOT) of tire put on
40	ON_LOT_NUM	339	8	C	Lot number of tire put on
41	ON_TREAD_DEPTH	347	1	N	Tread depth of tire put on
42	SUPPLYTIRE	348	1	L	T if supply tire used
43	SUPPLYTIREAMT	349	8,2	N	Supply tire monetary amount
44	ON_RETREAD_SER	357	15	C	Re-tread serial number of tire put on
45	OFF_RETREAD_SER	372	15	C	Re-tread serial number of tire removed
46	EQUIP_PART_ID	387	16	C	Equipment part no.
47	EQUIP_PART_ST	403	1	C	Equipment part status, e.g. new, rebuilt
48	M_SCALE	404	2	N	Material scale (05, 10, 15, etc.)
**	Total	**	406		

5.3 Updating data elements

The ISO Council has, in accordance with the provisions of the Directives for the technical work of ISO, designated the Bureau International des Containers et du Transport Intermodal (BIC) as the registration authority for the data elements:

Registration authority for ISO 9897

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Additional data elements will be added at the request of international organizations, ISO/TC 104 member bodies and approval of TC 104/SC 4. The actual process of registration will be performed by the TC 104/SC 4 Secretariat in consultation with the experts of TC 104/SC 4.

Each additional data element will be allocated an alphabetic or alphanumeric code, not at present used within the same code list covering a type of data.