

UN/EDIFACT

DRAFT DOCUMENT

Directory definition message

Please note that this message may be revised a number of times before it is next submitted to the Working Party. Further information on the development of this message can be obtained from the Rapporteur's EDIFACT Board Secretariat. This revision is issued for information and comment and is not intended for implementation.

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For general information on UN standard message types see UN Trade Data Interchange Directory, UNTDID, Part 4, Section 2.5, UN/ECE UNSM General Introduction.

0. Introduction

This specification provides the definition of a UN/EDIFACT Directory Definition Message (DIRDEF) to be used in Electronic Data Interchange (EDI) between partners involved in administration, commerce and transport.

1. Scope

1.1 Functional Definition

This Directory Definition Message (DIRDEF) permits the transfer of the contents of a UN/EDIFACT Directory set or parts thereof.

1.2 Field of Application

This message is based on the contents of a UN/EDIFACT Directory set and is not dependent on the type of business or industry.

1.3 Principles

The Message allows the transmission of a UN/EDIFACT Directory set or parts thereof. A UN/EDIFACT Directory Set comprises:

- Message type directory
- Segment type directory
- Composite data element type directory
- Simple data element type directory
- Code list directory

One occurrence of the message can contain only one version of a UN/EDIFACT Directory set or parts thereof.

2. References

See UNTDID, Part 4, Section 2.5, UN/ECE UNSM General Introduction, Section 1.

3. Terms and Definitions

See UNTDID, Part 4, Section 2.5, UN/ECE UNSM General Introduction, Section 2.

4. Message Definition

4.1 Data Segment Clarification

This section should be read in conjunction with the Branching diagram and Segment Table which indicate mandatory, conditional and repeating requirements.

UNH, Message header

A service segment starting and uniquely identifying a message.

Note: A Directory Definition Message conforming to this document must contain the following data in UNH, composite S009:

Data element 0065 DIRDEF

0052 (to be defined)

0054 (to be defined)

0051 (to be defined)

BGM, Beginning of message

A segment to indicate the beginning of the message and to transmit function, type and number of the message.

DII, Directory identification

A segment specifying the identity of the directory set and giving its language and maintenance operation.

DTM, Date/time/period

A segment specifying dates related to the directory set, such as date of approval, date of submission or WP.4 acceptance date.

FTX, Free text

A segment providing free text information related to the directory set.

Segment Group 1: NAD-SG2

A group of segments identifying the parties involved in the transaction with associated information.

NAD, Name and address

A segment identifying the parties involved in the transaction, e.g. originator, requestor or secretariat.

Segment Group 2: CTA-COM

A group of segments identifying a person or a department and identifying communication type(s) and number(s).

CTA, Contact information

A segment identifying a person or a department for the party specified in the leading NAD segment to whom the communication should be directed.

COM, Communication contact

A segment identifying communication type(s) and number(s) of person(s) or department(s) specified in the associated CTA segment.

Segment Group 3: MSG-FTX-SG4

A group of segments providing a message type directory.

MSG, Message type identification

A segment identifying a message type to be specified.

FTX, Free text

A segment providing textual information related to the message type, namely: Introduction, Scope, Functional Definition, Principles, References and Terms and Definitions.

Segment Group 4: SGU-FTX-SG5

A group of segments specifying a message type structure and its related functional definition.

SGU, Segment usage details

A segment specifying the usage of a segment in a message type structure.

FTX, Free text

A segment providing textual information about segment usage. This information comprises part of the 'Data Segment Clarification' section.

Segment Group 5: GRU-FTX

A group of segments identifying a segment group and providing details about segment group usage.

GRU, Segment group usage details

A segment specifying the usage of a segment group in a message type structure.

FTX, Free text

A segment providing the textual information about segment group usage. This information comprises part of the 'Data Segment Clarification' section.

Segment Group 6: SEG-FTX-ELU

A group of segments providing a segment directory.

SEG, Segment identification

A segment identifying a segment type and specifying its name, class and maintenance operation.

FTX, Free text

A segment specifying the functional definition of a segment type.

ELU, Data element usage details

A segment specifying the contents of data elements in a segment type.

Segment Group 7: CMP-FTX-ELU

A group of segments providing a composite data element directory.

CMP, Composite data element identification

A segment identifying a composite data element and specifying its name, class and maintenance operation.

FTX, Free text

A segment specifying the functional definition of a composite data element type.

ELU, Data element usage details

A segment specifying component data elements in a composite data element and its related information.

Segment Group 8: ELM-FTX

A group of segments providing a data element directory.

ELM, Simple data element details

A segment identifying a simple data element and giving related information.

FTX, Free text

A segment specifying the functional definition of a simple data element.

Segment Group 9: VLI-FTX-SG10

A group of segments providing a code list directory.

VLI, Value list identification

A segment specifying a code set.

FTX, Free text

A segment providing textual information related to the code list.

Segment Group 10: CDV-FTX

A group of segments specifying a code value and its functional definition.

CDV, Code value definition

A segment specifying a code value.

FTX, Free text

A segment specifying the functional definition of a code value.

UNT, Message trailer

A service segment ending a message, giving the total number of segments in the message and the control reference number of the message.

4.2 Message Structure

4.2.1 Branching Diagram

* * * **M* 1 *
.)2))))-.)2))))-.)2))))- * * *
* * * *.)2))))-
* * * *
+)))2))), +)))2))), +)))2))), +)))2))),
*Gr. 6 * *Gr. 7 * *Gr. 8 * *Gr. 9 *
/0))))1 /0))))1 /0))))1 /0))))1
C 9999* *C* 9999* *C* 9999* *C* 9999*
G4N4444I G4N4444I G4N4444I G4N4444I
* DTM ** FTX ** NAD * * MSG *
* SEG * * CMP * * ELM * * VLI *
1 /0))))1 /0))))1 /0))))1 /0))))1
C 9 **C* 9 *M* 1 *M* 1 *
M 1 * *M* 1 * *M* 1 * *M* 1 *
.)20)))- .)20)))- .)20)))- .)20)))-
/)))))), /)))))), /)))))),
+)))2))), * * * * * *
+)))2))), * * * * * *
* * * * * * *Gr. 2 * * *Gr. 4
* * * * * * *Gr. 10 *
/0))))1 * * * * * *
/0))))1 * * * * * *
* * * * * * *C* 9 * * *C* 999
* * * * * * *C* 9999*
G4N4444I +)))2))),
G4N4444I +)))2))),+)))2))), +)))2))),+)))2))), +)))2))), +)))2))),
G4N4444I
* CTA * * FTX ** SGU
* * FTX ** ELU * * FTX ** ELU * * FTX * * FTX ** CDV *
2 /0))))1 /0))))1
/0))))1 /0))))1 /0))))1 /0))))1 /0))))1 /0))))1 /0))))1 /0))))1
/0))))1
M 1 * *C* 999 *M* 1
* *C* 9 **C* 99 * *C* 9 **C* 99 * *C* 9 * *C* 9 **M* 1 *
.)20)))- .)20)))-
.)20)))- .)20)))-.)20)))- .)20)))- .)20)))- .)20)))- .)20)))-
.)20)))-
*

/))))))		*
+))2))	*	*
*Gr. 5 *	*	*
/)0))))1	*	*
C 1 *	*	*
	+))2))	
+))2)), G4M4444I		
+))2))		
** GRU *	* COM *	* FTX
3		* FTX *
/)0))))1 /)0))))1	/)0))))1	
/)0))))1		
**M* 1 *	*C* 9 *	*C* 99
		C 9 *
.)2))))- .)2)0))-	.)2))))-	
.)2))))-		
*		
+))2))		
* FTX *		
4		
/)0))))1		
C 99 *		
.)2))))-		

4.2.2 Segment Table

TAG	NAME	S	REPT
UNH	Message header	M	1
BGM	Beginning of message	C	1
DII	Directory identification	M	1
DTM	Date/time/period	C	9
FTX	Free text	C	9
)))) Segment Group 1)))))))))))))))))))) C 9))))))))))),			
NAD	Name and address	M	1 *
)))) Segment Group 2)))))))))))))))))))) C 9))))))))))), *			
CTA	Contact information	M	1 **
COM	Communication contact	C	9))))))))))2)-
)))) Segment Group 3)))))))))))))))))))) C 9999))))))))))),			
MSG	Message type identification	M	1 *
FTX	Free text	C	999 *
)))) Segment Group 4)))))))))))))))))))) C 999))))))))))), *			
SGU	Segment usage details	M	1 **
FTX	Free text	C	99 **
)))) Segment Group 5)))))))))))))))))))) C 1))))))))))), **			
GRU	Segment group usage details	M	1 ***
FTX	Free text	C	99))))))))))2)2)-
)))) Segment Group 6)))))))))))))))))))) C 9999))))))))))),			
SEG	Segment identification	M	1 *
FTX	Free text	C	9 *
ELU	Data element usage details	C	99)))))))))))-
)))) Segment Group 7)))))))))))))))))))) C 9999))))))))))),			
CMP	Composite data element identificatio	M	1 *
FTX	Free text	C	9 *
ELU	Data element usage details	C	99)))))))))))-
)))) Segment Group 8)))))))))))))))))))) C 9999))))))))))),			
ELM	Simple data element details	M	1 *
FTX	Free text	C	9)))))))))))-
)))) Segment Group 9)))))))))))))))))))) C 9999))))))))))),			
VLI	Value list identification	M	1 *
FTX	Free text	C	9 *

TAG NAME S REPT

)))) Segment Group 10))))))) C 9999))))))) , *

CDV Code value definition M 1 * *

FTX Free text C 9)))))))2)-

UNT Message trailer M 1

4.3 Data Segment Index (Alphabetic Sequence)

BGM Beginning of message
CDV Code value definition
CMP Composite data element identification
COM Communication contact
CTA Contact information
DII Directory identification
DTM Date/time/period
ELM Simple data element details
ELU Data element usage details
FTX Free text
GRU Segment group usage details
MSG Message type identification
NAD Name and address
SEG Segment identification
SGU Segment usage details
UNH Message header
UNT Message trailer
VLI Value list identification

5. Directories

5.1 Directory References

5.2 Explanation of Directory Variations

5.2.1 Segment Variations

+ CDV CODE VALUE DEFINITION AD

Function: To provide information related to a code value.

9900 CODE VALUE M an..35

9868 CODE NAME C an..70

4815 MAINTENANCE OPERATION, CODED C an..3

+ CMP COMPOSITE DATA ELEMENT IDENTIFICATION AD

Function: To identify a composite data element and to give its name, class and maintenance operation.

9860 COMPOSITE DATA ELEMENT TAG M an4

9904 COMPOSITE DATA ELEMENT NAME C an..70

9871 CLASS DESIGNATOR, CODED C an..3

4815 MAINTENANCE OPERATION, CODED C an..3

+ DII DIRECTORY IDENTIFICATION AD

Function: To identify a directory and to give its release, status, controlling agency, language and maintenance

operation.

9896	DIRECTORY VERSION	M an..3
9898	DIRECTORY RELEASE	M an..3
9866	DIRECTORY STATUS	C an..3
1707	CONTROLLING AGENCY	C an..2
3453	LANGUAGE, CODED	C an..3
4815	MAINTENANCE OPERATION, CODED	C an..3

+ ELM SIMPLE DATA ELEMENT DETAILS AD

Function: To identify a simple data element and give related details.

9858	SIMPLE DATA ELEMENT TAG	M an4
9873	SIMPLE DATA ELEMENT CHARACTER TYPE, CODED	C an..3
9875	SIMPLE DATA ELEMENT LENGTH INDICATOR, CODED	C a1
9876	SIMPLE DATA ELEMENT MAXIMUM LENGTH	C n..3
9880	SIMPLE DATA ELEMENT MINIMUM LENGTH	C n..3
9906	SIMPLE DATA ELEMENT NAME	C an..70
9883	CODE SET INDICATOR, CODED	C an..3
9871	CLASS DESIGNATOR, CODED	C an..3
4815	MAINTENANCE OPERATION, CODED	C an..3

+ ELU DATA ELEMENT USAGE DETAILS AD

Function: To specify the usage of a data element.

9862	DATA ELEMENT TAG	M an4	
9885	REQUIREMENT DESIGNATOR, CODED		C an..3
1050	SEQUENCE NUMBER	C an..6	
4815	MAINTENANCE OPERATION, CODED		C an..3

+ GRU SEGMENT GROUP USAGE DETAILS AD

Function: To specify the usage of a segment group within a message type structure and maintenance operation.

9890	GROUP ID	M an..4	
9885	REQUIREMENT DESIGNATOR, CODED		C an..3
9886	MAXIMUM NUMBER OF OCCURENCES		C n..7
4815	MAINTENANCE OPERATION, CODED		C an..3
1050	SEQUENCE NUMBER	C an..6	

+ MSG MESSAGE TYPE IDENTIFICATION AD

Function: To identify a message type and to give its name, class and maintenance operation.

C709	MESSAGE IDENTIFIER	M	
1705	Message type identifier	M an..6	
1706	Message type version number	M an..3	
1708	Message type release number	M an..3	
1707	Controlling agency	M an..2	
1709	Association assigned code	C an..6	
9878	MESSAGE TYPE NAME		C an..70
9871	CLASS DESIGNATOR, CODED		C an..3
4815	MAINTENANCE OPERATION, CODED		C an..3

+ SEG SEGMENT IDENTIFICATION AD

Function: To identify a segment and give its name, class and maintenance operation.

9864	SEGMENT TAG	M an3	
9902	SEGMENT NAME		C an..70
9871	CLASS DESIGNATOR, CODED		C an..3
4815	MAINTENANCE OPERATION, CODED		C an..3

+ SGU SEGMENT USAGE DETAILS AD

Function: To specify the details of the usage of a segment within a message type structure.

9864	SEGMENT TAG	M an3	
9885	REQUIREMENT DESIGNATOR, CODED		C an..3
9886	MAXIMUM NUMBER OF OCCURENCES		C n..7
9888	LEVEL NUMBER	C n1	
1050	SEQUENCE NUMBER		C an..6

9895	SECTION IDENTIFICATION, CODED	C an..3
4815	MAINTENANCE OPERATION, CODED	C an..3

+ VLI	VALUE LIST IDENTIFICATION	AD
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Function: To identify a coded or non coded value list.

C780	VALUE LIST IDENTIFICATION	M
5792	Value list identifier	M an..35
7405	Identity number qualifier	C an..3
3039	Party id identification	C an..17
1131	Code list qualifier	C an..3
3055	Code list responsible agency, coded	C an..3
4405	Status, coded	C an..3
5724	VALUE LIST NAME	C an..70
9871	CLASS DESIGNATOR, CODED	C an..3
5791	VALUE LIST TYPE, CODED	C an..3
C240	PRODUCT CHARACTERISTIC	C
7037	Characteristic identification	M an..17
1131	Code list qualifier	C an..3
3055	Code list responsible agency, coded	C an..3
7036	Characteristic	C an..35
7036	Characteristic	C an..35
4815	MAINTENANCE OPERATION, CODED	C an..3

5.2.2 Composite Variations

+ C709	MESSAGE IDENTIFIER	AD
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Desc: Identification of the type, version etc. of the message being interchanged.

Cont: 1705	Message type identifier	M an..6
Cont: 1706	Message type version number	M an..3
Cont: 1708	Message type release number	M an..3

Cont: 1707 Controlling agency M an..2
Cont: 1709 Association assigned code C an..6

+ C780 VALUE LIST IDENTIFICATION

AD

Desc: The identification of a coded or non coded value list.

Cont: 5792 Value list identifier M an..35
Cont: 7405 Identity number qualifier C an..3
Cont: 3039 Party id identification C an..17
Cont: 1131 Code list qualifier C an..3
Cont: 3055 Code list responsible agency, coded C an..3
Cont: 4405 Status, coded C an..3

5.2.3 Element Variations

+ 1705 Message type identifier

AD

Desc: Code identifying a type of message and assigned by its controlling agency.

Repr: an..6 Min: 1 Max: 6 Datatype: an

+ 1706 Message type version number AD

Desc: Version number of a message type.

Repr: an..3 Min: 1 Max: 3 Datatype: an

+ 1707 Controlling agency AD

Desc: Code identifying the agency controlling the specification, maintenance and publication of the message type.

Repr: an..2 Min: 1 Max: 2 Datatype: an

+ 1708 Message type release number AD

Desc: Release number within the current message type version number (0052).

Repr: an..3 Min: 1 Max: 3 Datatype: an

+ 1709 Association assigned code AD

Desc: Code, assigned by the association responsible for the design and maintenance of the message type concerned, which further identifies the message.

Repr: an..6 Min: 1 Max: 6 Datatype: an

+ 4815 Maintenance operation, coded AD

Desc: To indicate the type of data maintenance operation for an object, such as add, delete, replace

Repr: an..3 Min: 1 Max: 3 Datatype: an

+ 4815 Maintenance operation, coded AD

Desc: To indicate the type of data maintenance operation for an object, such as add, delete, replace

Repr: an..3 Min: 1 Max: 3 Datatype: an

+ 5724 Value list name AD

Desc: The name of a value list.

Repr: an..70 Min: 1 Max: 70 Datatype: an

+ 5791 Value list type, coded AD

Desc: A code indicating the type of value list.

Repr: an..3 Min: 1 Max: 3 Datatype: id

+ 5792 Value list identifier AD

Desc: The identifier of a coded or non coded value list.

Repr: an..35 Min: 1 Max: 35 Datatype: an

* 7405 Identity number qualifier
 |Desc: Code specifying the type/source of identity number. FU
 |Repr: an..3 Min: 1 Max: 3 Datatype: id

+ 9858 Simple data element tag AD
 Desc: Tag of a simple data element.
 Repr: an4 Min: 4 Max: 4 Datatype: an

+ 9860 Composite data element tag AD
 Desc: Tag of a composite data element.
 Repr: an4 Min: 4 Max: 4 Datatype: an

+ 9862 Data element tag AD
 Desc: Tag of a data element.
 Repr: an4 Min: 4 Max: 4 Datatype: an

+ 9864 Segment tag AD
 Desc: Tag of a segment.
 Repr: an3 Min: 3 Max: 3 Datatype: an

+ 9866 Directory status AD
 Desc: Identification of the status of a directory set.
 Repr: an..3 Min: 1 Max: 3 Datatype: an

+ 9868 Code name AD
 Desc: Name of a code.
 Repr: an..70 Min: 1 Max: 70 Datatype: an

+ 9871 Class designator, coded AD
 Desc: To identify a designated class.
 Repr: an..3 Min: 1 Max: 3 Datatype: an

+ 9873 Simple data element character type, coded AD
 Desc: To specify the type of character of simple data element.
 Repr: an..3 Min: 1 Max: 3 Datatype: an

+ 9875 Simple data element length indicator, coded AD
 Desc: Code identifying the type of length of a simple data element.
 Repr: a 1 Min: 1 Max: 1 Datatype: a

+ 9876 Simple data element maximum length AD
 Desc: To indicate the maximum length of a simple data element.
 Repr: n ..3 Min: 1 Max: 3 Datatype: n

+ 9878 Message type name AD

Desc: Name of a message type.
Repr: an..70 Min: 1 Max: 70 Datatype: an

+ 9880 Simple data element minimum length AD
Desc: To indicate the minimum length of a simple data element
Repr: n..3 Min: 1 Max: 3 Datatype: n

+ 9883 Code set indicator, coded AD
Desc: To indicate if a data element has an associated code set.
Repr: an..3 Min: 1 Max: 3 Datatype: an

+ 9885 Requirement designator, coded AD
Desc: To specify the designated requirement.
Repr: an..3 Min: 1 Max: 3 Datatype: an

+ 9886 Maximum number of occurrences AD
Desc: To specify the maximum number of occurrences.
Repr: n..7 Min: 1 Max: 7 Datatype: n

+ 9888 Level number AD
Desc: To specify the level of a segment in the message branching
diagram.
Repr: n 1 Min: 1 Max: 1 Datatype: n

+ 9890 Group id AD
Desc: To identify a group within a message type structure.
Repr: an..4 Min: 1 Max: 4 Datatype: an

+ 9895 Section identification, coded AD
Desc: To identify the section of a message type.
Repr: an..3 Min: 1 Max: 3 Datatype: an

+ 9896 Directory version AD
Desc: Identification of the version of a directory set.
Repr: an..3 Min: 1 Max: 3 Datatype: an

+ 9898 Directory release AD
Desc: Identification of the release of a directory set.
Repr: an..3 Min: 1 Max: 3 Datatype: an

+ 9900 Code value AD
Desc: Value of the code.
Repr: an..35 Min: 1 Max: 35 Datatype: an

+ 9902 Segment name AD
Desc: Name of a segment.
Repr: an..70 Min: 1 Max: 70 Datatype: an

+ 9904 Composite data element name AD
Desc: Name of a composite data element.
Repr: an..70 Min: 1 Max: 70 Datatype: an

+ 9906 Simple data element name AD
Desc: Name of a simple data element.
Repr: an..70 Min: 1 Max: 70 Datatype: an

Annex A Example