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Elements and Automatic Data Interchange (GE.1)
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UN/EDIFACT
RULES FOR PRESENTATION
OF STANDARDIZED MESSAGE AND DIRECTORIES DOCUMENTATION

* * *

Submitted by EDIFRANCE at the request of the ESG

Previous documentation: TRADE/WP.4/R.1023/Rev.2, TRADE/WP.4/CRP.96

This revision is issued following the request of the ESG to incorporate the decision to provide a single directory type from March 1997.

The principal changes to be noted are :

- Replacement of the Status 1 and Status 2 boilerplates with a single boilerplate and renaming of Status 0 to « Message in development ».
- Incorporation of the new rules to handle message version/release procedures as defined in TRADE/WP.4/R.982/Rev.1.
- Improvement in the use of change indicators in Section 4.3 of the boilerplate text .
- Introduction of a means of indicating recast messages.
- Introduction of the new layout for the Interactive EDI segment directory.
- Suppression of Annex 3 containing an issues list, which should be identified elsewhere.

The Group of Experts is requested to review and approve this document.

* The document is reproduced in the form in which it was received by the secretariat.

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1. INTRODUCTION

1.1 Foreword and scope

The requirements for the data transfer of information and the requirements for documentary layout of such information are not the same. This is the case for the UN/EDIFACT set of directories which uses the UN/EDIFACT DIRDEF message for the transfer of the directories and which takes a different form for the transfer of the equivalent information in readable form on magnetic media.

The layout specified in this document may be used for submissions of human readable message documentation to the UN/ECE Secretariat via magnetic media wherever the DIRDEF message is not used.

It shall be used by the UN/ECE Secretariat when publishing message boilerplates and their supporting directories in human-readable format via magnetic media and in producing the printed documentation.

This document shall be applied to the documentation of UN/EDIFACT messages and their supporting directories (segment, composite data element, data element, and code documentation).

1.2 Conventions and formats

In this documentation, the following conventions are defined:

a) Variable fields that correspond to values maintained by a standard code list have their data element tag identified within the brackets [ ]. For example, [0065] refers to the relevant content of data element 0065.

b) Other variable fields which are used in the document layouts are identified by {} and their content is explained at the appropriate place.

c) The use of the version and release data elements for UN/EDIFACT messages is described in the current revision of TRADE/WP.4/R.982.

2. GENERAL REQUIREMENTS

2.1 Requirements for all text in electronic or printed form

a) The number of printable characters per line shall be up to 70 characters. On magnetic media, each line shall be followed by the non printable characters "Carriage Return" (ISO 8859 magnetic 13) immediately followed by "Form Feed" (ISO 8859 magnetic 10).

b) The number of printable lines per page shall be 50 in order to permit compatibility between the US letter (8.5' * 11') format and the ISO A4 standard format.

c) The permitted character set shall be taken from ISO 8859-1 (G0 graphic set only) plus certain IBM graphic characters (see Annex 1). All characters including the space character shall be fixed pitched.

d) Character and line spacing shall be based on ISO 3535 which specifies basic spacing measurements of 1/6 inch or 4.233 mm for line spacing and 1/10 inch or 2.54 mm for character spacing.

e) The type font shall be Courier 10.

f) No tabulation characters shall be used for magnetic media. Instead, where indentions occur, each indention shall be represented by 3 space characters.

g) No page breaks shall be provided in the documents supplied on magnetic media.

h) Printed documents shall have a top and bottom margin of 3 line spaces for page headings and footings.

i) Printed documents shall have a left margin of a Minimum of 2.8 cm (13 char. pos.).

j) No right justification of text is allowed (i.e. no insertion of extra space characters between words).

k) Printed documents shall have no bold, underlined or italic text.

l) Capital letters shall be used only in the following situations:
   - at the beginning of a sentence,
   - as first letter of a name or a heading,
   - main title headings,
   - and in codes, tags and acronyms.

m) Horizontal and vertical starting positions of data items shall be as specified in the layouts and examples given in Part 3 and Part 4 of this document. These examples exclude the spacing required for page

headings and for right and left margins which are not provided on electronic media.

n) documents which are printed recto-verso shall have in the top margin of the page the TRADE document number and page number which shall be right adjusted on odd numbered pages and left adjusted on even numbered pages.

o) All printed pages of the directories shall have the format as shown in Figure 1.

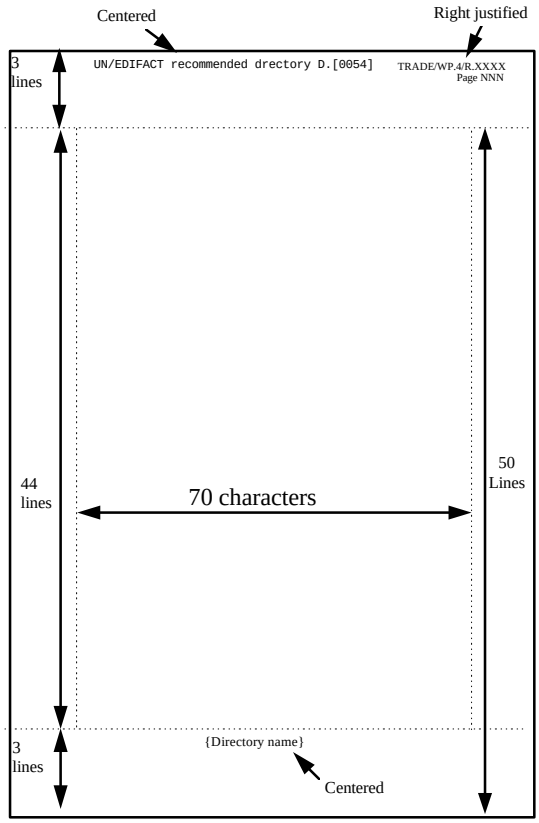


Figure 1

where :

xxxx	is the document number assigned to the directory by the UN.
NNN	is the sequential page number
[0054]	is the directory release.
{Directory name}	is one of the following :

Message type directory
Segment directory
Composite data element directory
Data element directory
Code directory
Service code directory

p) All printed pages of message boilerplates shall have the format as shown in Figure 2 .

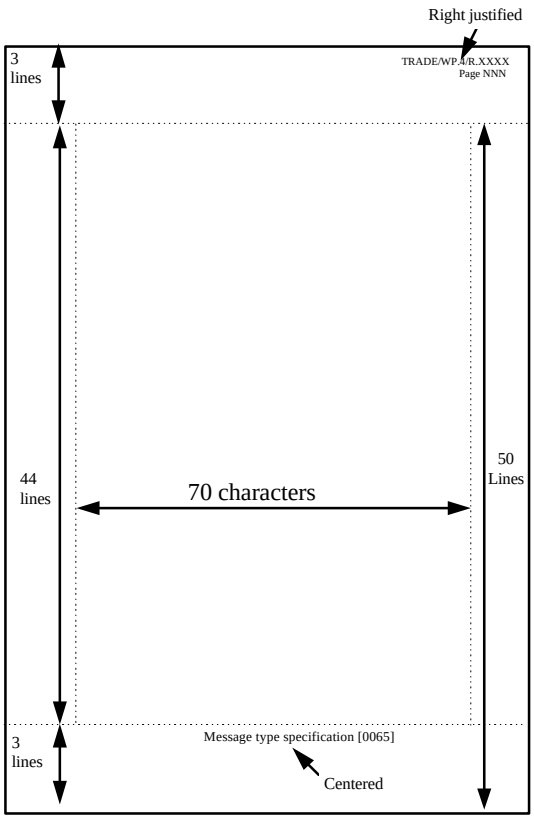


Figure 2

where : xxxx is the document number assigned to the directory by the UN.
NNN is the sequential page number

3. UN/EDIFACT DIRECTORIES

3.1 Requirements for the UN/EDIFACT directories.

The UN/EDIFACT directories and accompanying information are published in a single document. On magnetic media this document is divided into a series of separate files. The content and name of the different files can be obtained from the table of contents of the directory. For convenience this is provided on a specific file with the name "CONTENTD.[0054]", where [0054] represents the release of the directory (i.e. 95A).

3.1.1 Layout of a standard directory cover page.

The cover page of the standard directory has the format shown in Figure 3 .

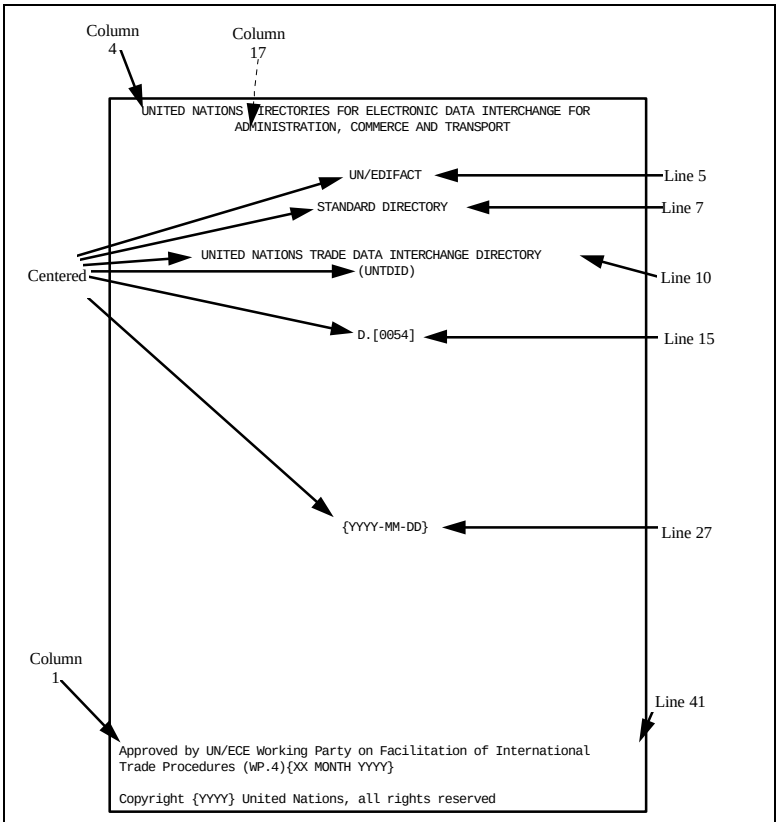


Figure 3

The value of data element [0054] corresponds to the release of the directory (i.e. 95A).

The date {YYYY-MM-DD} in line 27 correponds to the date of preparation of the directories by the UN Secretariat.

The date of approval on line 42 {XX MONTH YYYY} corresponds to the date of approval of the directories by the Working Party 4.

The date {YYYY} in line 44 corresponds to the year of publication.

3.1.2 The table of contents for the UN/EDIFACT directories.

The UN/EDIFACT directories have a table of contents and standard notes. The first page of the table of contents shall contain the information as shown in Figure 4 .

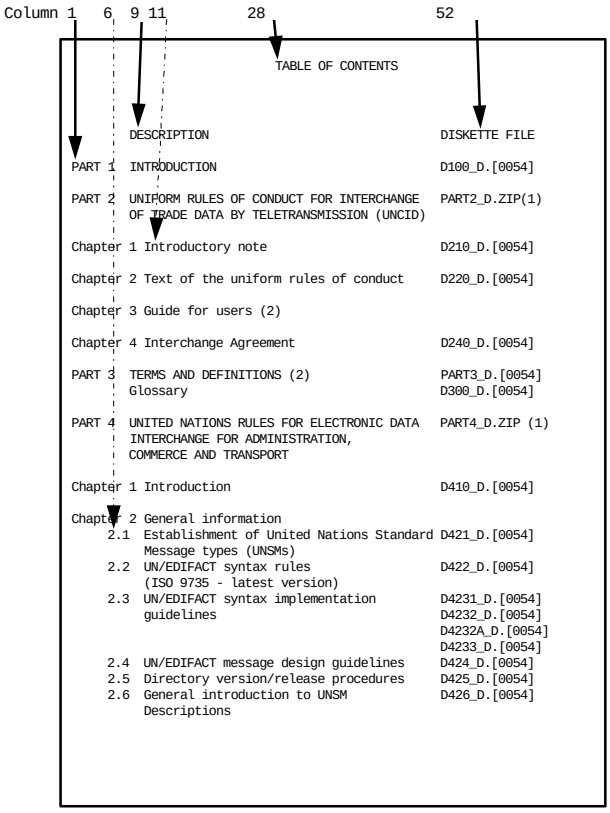


Figure 4

This document describes the rules of presentation for the information/files/data listed under part 5 of the table of contents. It does not cover the presentation of information/files/data found in parts 1 through 4.

The value of data element [0054] corresponds to the release of the directory (i.e. 95A).

The second page of the table of contents shall contain the information as shown in Figure 5 .

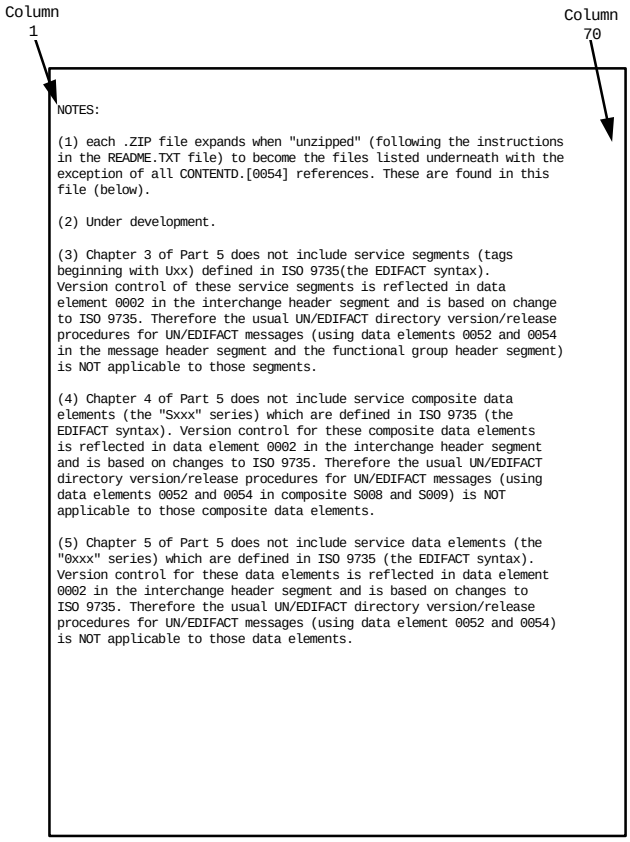
```
Column 1   6  9 11                                  52

PART 5  UNITED NATIONS DIRECTORIES FOR ELECTRONIC DATA INTERCHANGE
        FOR ADMINISTRATION, COMMERCE AND TRANSPORT

Chapter 1 Introduction                          CONTENTD.[0054]

Chapter 2 Message type directory xDMD           xDMD.ZIP (1)
     1.   Indexes
     1.1  Index of message types by code        xDMDI1.[0054]
     1.2  Index of message types by name        xDMDI2.[0054]
     2.   Message type specifications           XXXXXX_D.[0054]
          (XXXXXX = message type; for example,
          INVOIC_D.[0054] contains the
          specification for the invoice message)

Chapter 3 Segment directory xDSD                xDSD.ZIP (1)(3)
     1.   Indexes
     1.1  Index of segments by tag              xDSDI1.[0054]
     1.2  Index of segments by name             xDSDI2.[0054]
     2.   Segment specifications                xDSD.[0054]

Chapter 4 Composite data element directory xDCD    xDCD.ZIP (1)(4)
     1.   Indexes
     1.1  Index of composites by tag            xDCDI1.[0054]
     1.2  Index of composites by name           xDCDI2.[0054]
     2.   Composite specifications              xDCD.[0054]

Chapter 5 Data element directory EDED           EDED.ZIP (1)(5)
     1.   Indexes
     1.1  Index of data elements by tag         EDEDI1.[0054]
     1.2  Index of data elements by name        EDEDI2.[0054]
     2.   Data element specifications           EDED.[0054]

Chapter 6 Code lists
     1.   Code list UNCL                        UNCL.ZIP (1)
                                                UNCL.[0054]
     2.   Service code list UNSL                UNSL.ZIP (1)
                                                UNSL.[0054]

Where : x = E for the batch directory set and
            I for the intercative directory set
```

Figure 5

The values to be replaced are the same as for the first page of the table of contents.

After the table of contents, there follows a page of standard text which contains the notes referring to the numbers found in brackets against certain sections of the table of contents.

The standard text of these notes is shown in Figure 6 .



NOTES:

(1) each .ZIP file expands when "unzipped" (following the instructions in the README.TXT file) to become the files listed underneath with the exception of all CONTENTD.[0054] references. These are found in this file (below).

(2) Under development.

(3) Chapter 3 of Part 5 does not include service segments (tags beginning with Uxx) defined in ISO 9735(the EDIFACT syntax). Version control of these service segments is reflected in data element 0002 in the interchange header segment and is based on change to ISO 9735. Therefore the usual UN/EDIFACT directory version/release procedures for UN/EDIFACT messages (using data elements 0052 and 0054 in the message header segment and the functional group header segment) is NOT applicable to those segments.

(4) Chapter 4 of Part 5 does not include service composite data elements (the "Sxxx" series) which are defined in ISO 9735 (the EDIFACT syntax). Version control for these composite data elements is reflected in data element 0002 in the interchange header segment and is based on changes to ISO 9735. Therefore the usual UN/EDIFACT directory version/release procedures for UN/EDIFACT messages (using data elements 0052 and 0054 in composite S008 and S009) is NOT applicable to those composite data elements.

(5) Chapter 5 of Part 5 does not include service data elements (the "0xxx" series) which are defined in ISO 9735 (the EDIFACT syntax). Version control for these data elements is reflected in data element 0002 in the interchange header segment and is based on changes to ISO 9735. Therefore the usual UN/EDIFACT directory version/release procedures for UN/EDIFACT messages (using data element 0052 and 0054) is NOT applicable to those data elements.

Figure 6

The fields [0054] contain the values as described on the first page of the table of contents.

3.1.3 Introduction to PART 5 of the UN/EDIFACT directories.

The standard text for the introduction to part 5 of the UN/EDIFACT directories is shown in Figure 7 .

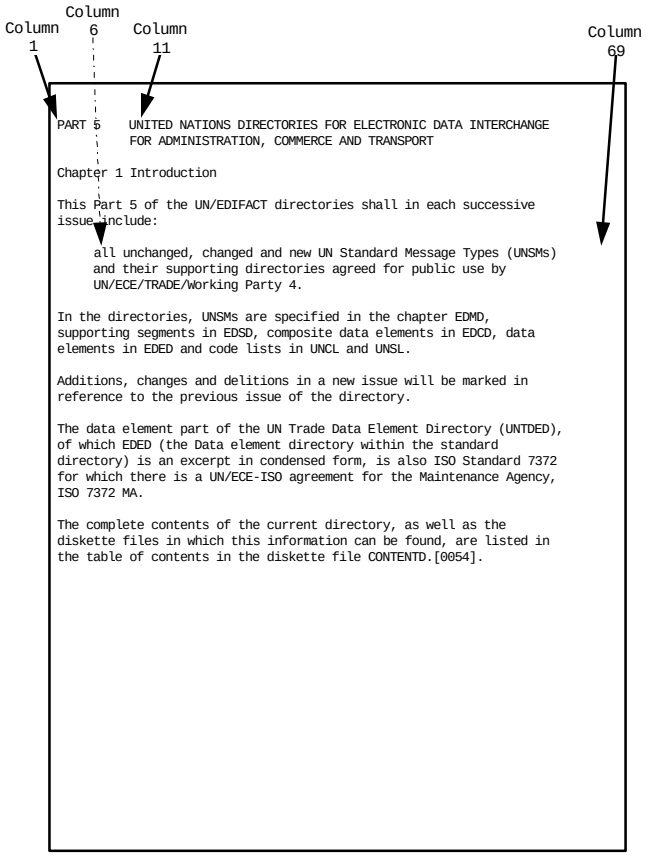


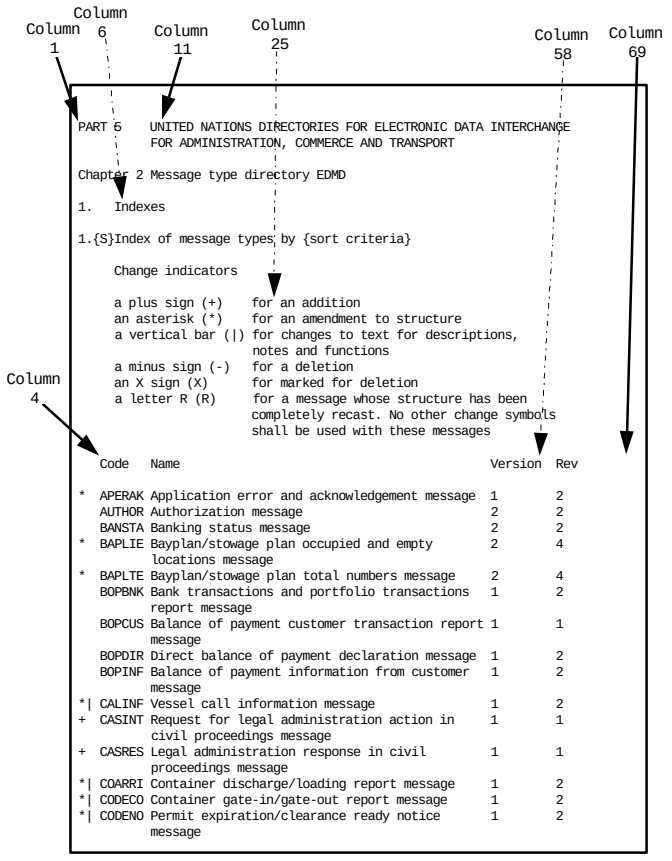
Figure 7

The field [0054] contains the value as described on the first page of the table of contents.

4. MESSAGE TYPE DIRECTORY

4.1 Message type directory index.

The message type directory index comes in two forms which have exactly the same layout. One index is sorted by message type and the other is sorted by message name. The layout for the index is shown in Figure 8 .




```
PART 5    UNITED NATIONS DIRECTORIES FOR ELECTRONIC DATA INTERCHANGE
          FOR ADMINISTRATION, COMMERCE AND TRANSPORT

Chapter 2 Message type directory EDMD

1.   Indexes

1.{S}Index of message types by {sort criteria}

     Change indicators

     a plus sign (+)    for an addition
     an asterisk (*)    for an amendment to structure
     a vertical bar (|) for changes to text for descriptions,
                        notes and functions
     a minus sign (-)   for a deletion
     an X sign (X)      for marked for deletion
     a letter R (R)     for a message whose structure has been
                        completely recast. No other change symbols
                        shall be used with these messages

   Code   Name                                          Version  Rev

*  APERAK Application error and acknowledgement message  1        2
   AUTHOR Authorization message                          2        2
   BANSTA Banking status message                         2        2
*  BAPLIE Bayplan/stowage plan occupied and empty        2        4
          locations message
*  BAPLTE Bayplan/stowage plan total numbers message     2        4
   BOPBNK Bank transactions and portfolio transactions   1        2
          report message
   BOPCUS Balance of payment customer transaction report 1        1
          message
   BOPDIR Direct balance of payment declaration message  1        2
   BOPINF Balance of payment information from customer   1        2
          message
*| CALINF Vessel call information message                1        2
+  CASINT Request for legal administration action in     1        1
          civil proceedings message
+  CASRES Legal administration response in civil         1        1
          proceedings message
*| COARRI Container discharge/loading report message     1        2
*| CODECO Container gate-in/gate-out report message      1        2
*| CODENO Permit expiration/clearance ready notice       1        2
          message
```

Figure 8

The value for {sort criteria} shall be "code" when the index is sorted by the message type and shall be "name" when the index is sorted by message name.

The value for {S} is "1" for the index sorted by code and "2" for the index sorted by name.

A change indicator may be provided in column one opposite the message it affects.

On magnetic media the index which is sorted by name is placed on a separate file. This file does not contain the title information which are shown at the top of the sample page. It starts with the title "1.2 Index of message types by name" beginning in column 1 of the first line.

The rules for the change indicators are as follows:

"+"	New message added in this release.
"*"	Message structure changed in this release. A change to the message structure is defined as any change which has been made to the segment table.
"|"	Changes have been made to sections 1, 2, 3, and 4.1 in this release based on textual change requested by a DMR and which does not affect the segment table.
"-"	Message has been deleted in this release.
"X"	The message has been marked for deletion.
"R"	The structure of the message has been completely recast. No other change indicators are provided in the message.

The values in the « Version » and « Rev » columns shall follow the rules defined in the current revision of TRADE/WP.4/R.982.

4.2 Requirements for all message boilerplate text.

Every UN/EDIFACT message is published as a separate document.

On magnetic media each message can be found on a separate file which shall be identified by its message type, the underline character ("_"), followed by "D", followed by a file extension which indicates the release number (e.g. 95A). An example of a complete message file name is "INVOIC_D.95A".

4.3 Message boilerplate cover pages

4.3.1 Messages in development.

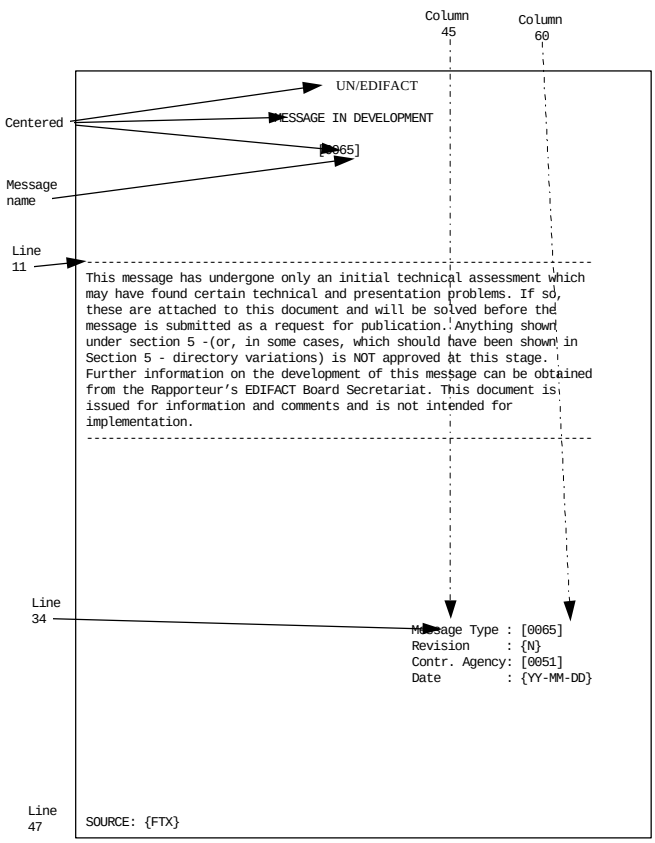


Figure 9

A message in development (MID) is not intended to be used for transmission as it may contain non approved data elements, composites and segments. It can be completely changed from one revision to the next.

On the cover page of a message in development boilerplate, the following information shall be supplied :

1) The message name shall correspond to the name of the message type submitted for the code list of Data Element 0065.
2) The message type shall correspond to that submitted for the code list of Data Element 0065.
3) The value after "Revision" {N} is a sequential number as defined by the current revision of TRADE/WP.4/R.982.
4) after "Date", the YY-MM-DD shall be replaced with the date of preparation by the UN Secretariat.
5) after "SOURCE", the field {FTX} shall be replaced with:
   the name of Rapporteurs Board eventually followed by the identification of specific message design group responsible for the

message (example : "European Board for EDI Standardisation - EEG1").

4.3.2 UN/EDIFACT standard messages in the standard directory.

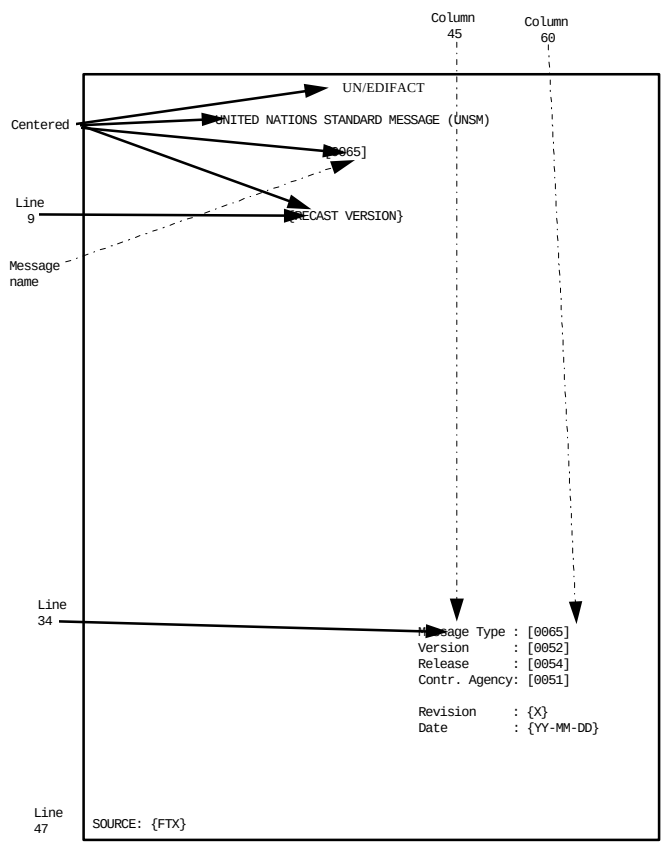


Figure 10

the cover page of the message boilerplate, the following information shall be supplied :

1) The message name shall correspond to the name of the message type submitted for the code list of Data Element 0065.
2) The message type shall correspond to that submitted for the code list of Data Element 0065.
3) The term « RECAST VERSION » shall appear on the cover page of standard messages in cases where it has been completely restructured and the responsible message development group has requested its insertion. This term shall appear only in the directory release where the restructuring has occured.
4) The version (data element 0052), release (data element 0054) and revision number {X} contents are to be determined based on the directory version/release procedures in the current revision of TRADE/WP.4/R.982.
5) after "Date", the YY-MM-DD shall be replaced with the date of preparation.
6) after "SOURCE", the field {FTX} shall be replaced with:

for joint development:
"Joint Rapporteurs Message Design Group JMXX", where XX is the number of the joint development team,

for non-joint development:
the name of Rapporteurs Board eventually followed by the identification of specific message design group responsible for the message (example : "European Board for EDI Standardisation - EEG1").

4.4 Message table of contents

4.4.1 Message in development boilerplate table of contents

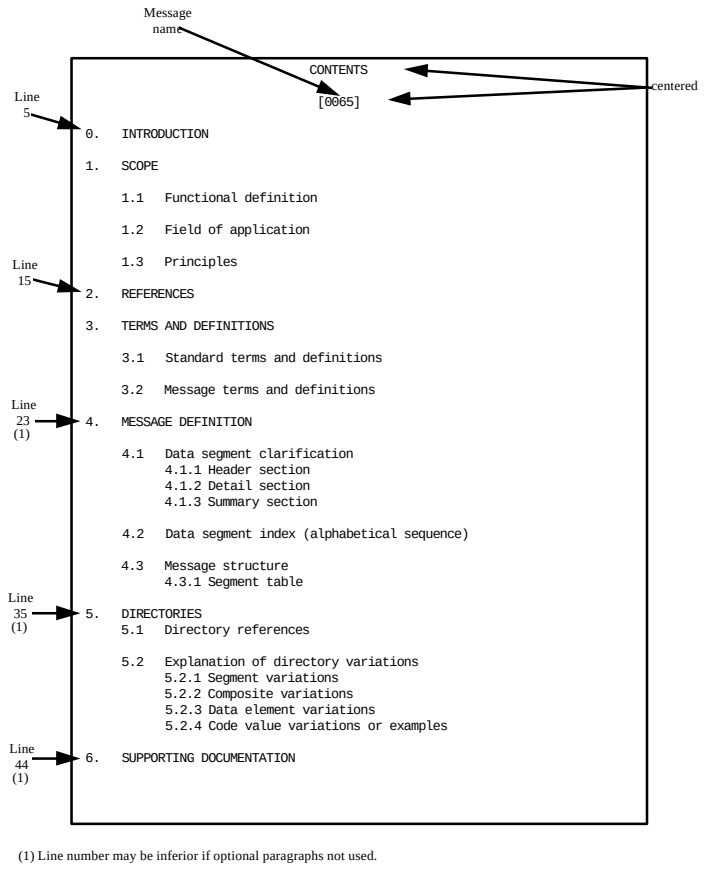


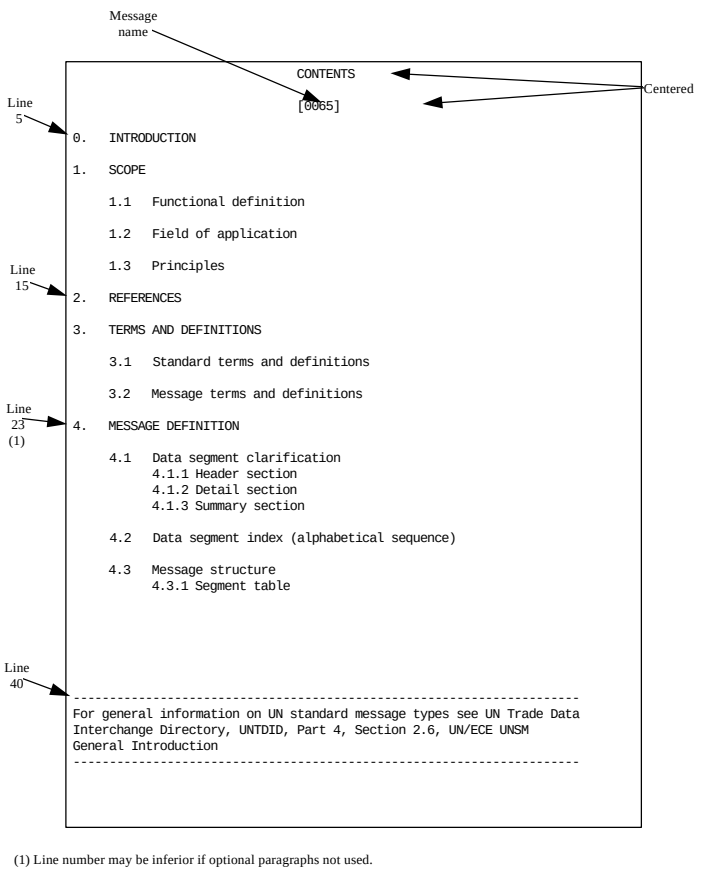
Figure 11

All the sections outlined in the table of contents shall be used with the exception of the following :

1. [0065], message name, shall be replaced by the name of the message as found in the UNSL code list for data element 0065.
2 Sections 4.1.1, 4.1.2, and 4.1.3 only appear in the table of contents if an equivalent header, detail or summary section appear in the message design.
3. If a header, detail, summary breakdown is not used in the message design then no sub-division of section 4.1 shall occur.
4. Sections 5.2.1, 5.2.2, or 5.2.3 shall be provided only if a change is required to the segment, composite or data element directories for the message.

5. Section 5.2.4 shall be provided to indicate code values required for new data elements or to provide examples of codes values which could be used.
6. Any changes which are required in the directories shall be individually requested on separate Data Maintenance Requests.
7. Section 6 may be used to provide any supporting documentation which can help in understanding the business requirements and use of the message in development.

4.4.2 UN/EDIFACT standard message boilerplate table of contents



(1) Line number may be inferior if optional paragraphs not used.

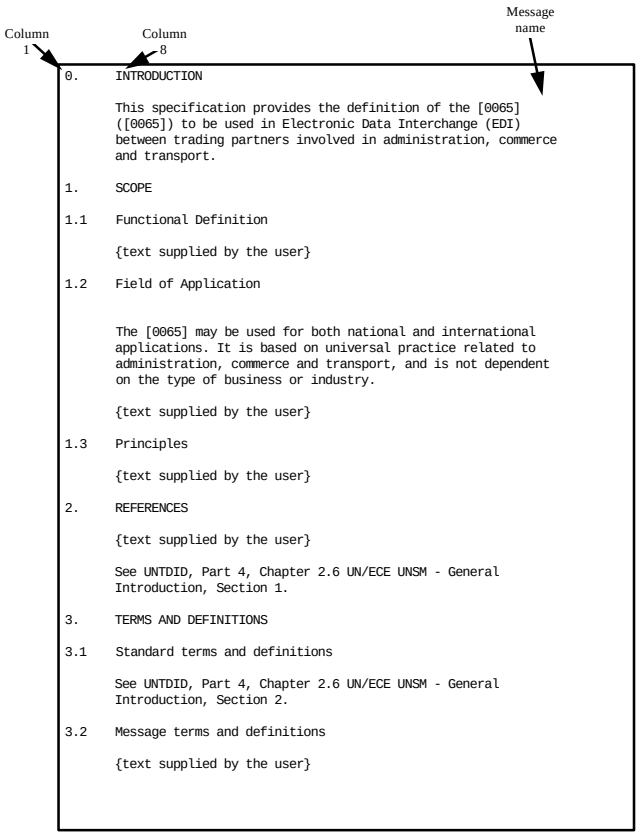
Figure 12

All the sections outlined in the table of contents shall be used with the exception of the following :

1. [0065], message name, shall be replaced by the name of the message as found in the UNSL code list for data element 0065.
2. Section 3.2 is optional and only appears in the table of contents if specific message definitions have been provided.
3. Sections 4.1.1, 4.1.2, and 4.1.3 only appear in the table of contents if an equivalent header, detail or summary section appear in the message design.

4. If a header, detail, summary breakdown is not used in the message design then no sub-division of section 4.1 shall occur.

4.5 Introduction, section 0, section 1, section 2, and section 3 of the message boilerplate.




```
0.      INTRODUCTION

        This specification provides the definition of the [0065]
        ([0065]) to be used in Electronic Data Interchange (EDI)
        between trading partners involved in administration, commerce
        and transport.

1.      SCOPE

1.1     Functional Definition

        {text supplied by the user}

1.2     Field of Application


        The [0065] may be used for both national and international
        applications. It is based on universal practice related to
        administration, commerce and transport, and is not dependent
        on the type of business or industry.

        {text supplied by the user}

1.3     Principles

        {text supplied by the user}

2.      REFERENCES

        {text supplied by the user}

        See UNTDID, Part 4, Chapter 2.6 UN/ECE UNSM - General
        Introduction, Section 1.

3.      TERMS AND DEFINITIONS

3.1     Standard terms and definitions

        See UNTDID, Part 4, Chapter 2.6 UN/ECE UNSM - General
        Introduction, Section 2.

3.2     Message terms and definitions

        {text supplied by the user}
```

Figure 13

1. All section numbers shall begin in column 1.
2. Column 6 may contain the change indicator "|" to indicate a change in the content of a section. It can only appear in column 6 of the lines containing the section numbers "0", "1.1", "1.2", "1.3", "2", "3.1" and "3.2". It should be noted that sections "0" and "1.2" may not be changed.
3. Section 1.3 shall include all information concerning further message clarification.
4. All explicit text indicated in sections 2 and 3 is mandatory and may not be modified.
5. {text supplied by the user} in section 2 provides references which are specific to the message.
6. {text supplied by the user} in section 3.2 provides terms and definitions which are specific to the message.
7. All text for each of the above sections shall begin in column 8 and may continue on a line up to and including column 70.

8. All text indicated in these sections, other than those contained between "[]" and "{}" is mandatory and shall not be modified.
9. [0065], message name, shall be replaced by the name of the message as found in the UNSL code list for data element 0065.
10. the second occurrence of [0065] shall be replaced by the six character code value for the message as found in the UNSL code list for data element 0065.
11. {text supplied by the user} in section 1.1 provides the functional definition of the message as provided by the message designers.
12. {text supplied by the user} in section 1.3 provides the principles by which the message is to be used as supplied by the message designers.

4.6 Section 4 of the message boilerplate .

```
Column        Column
  1             8
4.     MESSAGE DEFINITION

4.1    Data Segment Clarification

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

       {text supplied by the user}

4.1.1  Header section

       Information to be provided in the Header section:

0010   UxH, Message header
       A service segment starting and uniquely identifying a message.
       The message type code for the [0065] is [0065].

       Note: [0065]s conforming to this document must contain the
       following data in segment UxH, composite S009:

       Data element  0065 [0065]
                     0052 [0052]
                     0054 [0054]
                     0051 [0051]

       {segment and segment group clarification supplied by the user}

4.1.2  Detail section

       Information to be provided in the Detail section:

       {segment and segment group clarification supplied by the user}

4.1.3  Summary section

       Information to be provided in the Summary section:

       {segment and segment group clarification supplied by the user}

AAAA   UxT, 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.
                                                              Column
                                                                70
```

Note : UxH and UxT represent UNH and UNT for batch messages and UIH and UIT for interactive messages.

Figure 14

4.6.1 Section 4.1 (Data segment clarification)

The following list of requirements shall be considered as a generic implementation guideline:

A) For each segment, the line identifying the segment shall respect the following format:

```
AAAA C STG, DDD..DD
                                  These values can alter with indention
                                  (three spaces) depending on the segment or
1    6 8    13                    segment group position.
```

Where:

AAAA is the segment position indicator, and shall always begin in column 1. The segment position indicator shall begin with the value "0010" against the message header of the segment clarification section. It shall be incremented by 10 for each of the following segments or segment groups.

C is a permitted change indicator, which is provided when required. It shall always begin in column 6.

STG is the segment tag, level 0 segment tags shall begin in column 8. Segment tags which are contained in a segment group shall be indented 3 spaces from the start position of the segment group tag. The Segment tag is always followed immediately by a comma.

DDD..DD is the segment name and shall begin in the sixth character position after the start position of the segment tag.

(refer to the UxH segment definition in `Figure 14` for a model).

B) For each segment group, the line identifying the segment group shall respect the following format in a similar manner to the segment identification line :

```
AAAA C Segment Group EE: SSS-...-SSS-SGhh-...-SGhh
```

Where:

AAAA is the segment group position indicator, and shall always begin in column 1. Its value depends on the relative position of the segment group from the message header segment.

C is a permitted change indicator, which is provided when required. It shall always begin in column 6.

Segment Group EE is the segment group identification, where "EE" corresponds to the segment group number. Level 1 segment groups shall always begin in column 8. All dependant segment groups shall be indented 3 spaces from the start position of the parent segment group identification. The segment group identification is always immediately followed by a colon.

SSS-...-SSS is the list of the segment tags immediately dependent on the segment group. The list respects the order in which the segments appear. Each segment tag is separated by a hypen.

SGhh-...-SGhh is the list of segment groups immediately dependent on the segment group being described. Each segment group shall be identified with the characters "SGhh"

where "hh" represent the number of the segment group in question. The list respects the order in which the segment groups appear. Each segment group is separated by a hypen.

The segment list and segment group list may be intermingled as dictated by the message structure. Segment tags are separated from segment group tags by a hypen.

If the list of segments and segment groups exceeds the 70th character in a line, it shall be terminated by a hypen and the list continued on the following line directly under the list on the preceeding line.

C) The use of all segments and segment groups shall be explained in the order they appear in the message;
D) The explanatory text for a segment or a segment group shall begin on a new line directly under the start position of the segment or segment group tag to which it refers.
E) The explanation of a segment or segment group contained within a parent segment group shall be indented by three space characters from the start position of its parent segment group.
F) Before each segment there shall be 1 blank line and before each Segment group there shall be 2 blank lines.
G) The text for the service segments « message header » and « message trailer » is standard.
H) The values of the two occurences of data element 0065 (code value and name) which apply to the message being described shall be used in the standard explanation of the message header segment.
I) The values for data elements 0065, 0052, 0054 and 0051 in the note under the message header segment explanation shall be assigned according to whether or not the message is in development or standard and in conformity with current revision of TRADE/WP.4/R.982.
J) The introductory text for sections 4.1.1, 4.1.2, and 4.1.3 shall be used whenever a message is designed using header, detail or summary sections.

Please refer to the example in Figure 15 for further clarification of the above mentioned rules.

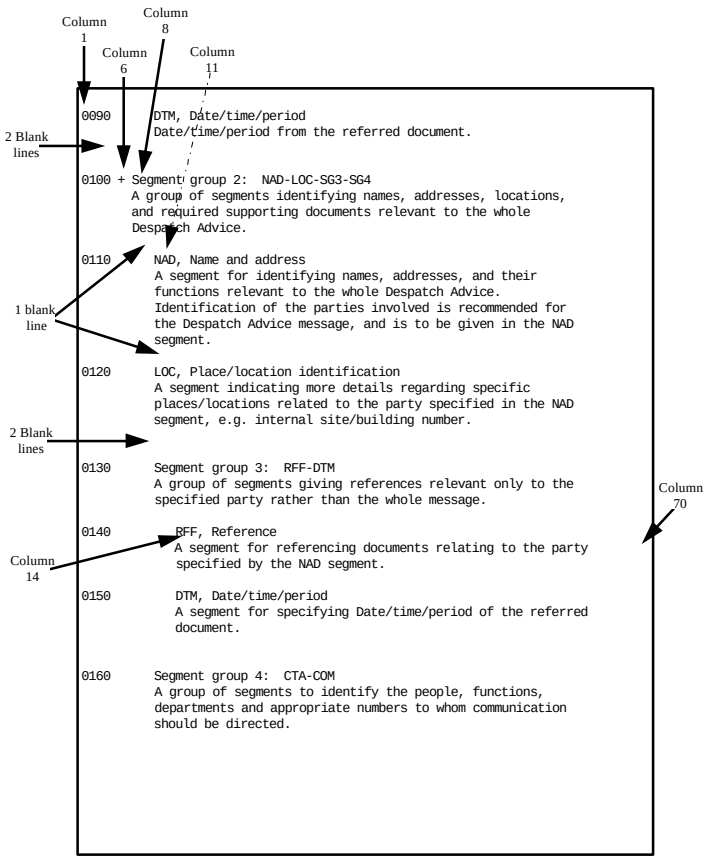


Figure 15

Changes to the documentation section 4.1 of a message shall use the following indications in column 6 :

a plus sign (+)	to indicate the addition of a segment or a segment group to the segment table.
a vertical bar (|)	to indicate a change to the explanatory text of a segment or of a segment group.
	The indicators are placed in column 6 immediately before the segment tag or the segment group tag concerned by the change.

The explanatory text for the message header segment does not have a change indicator in column 6, as this is systematically changed with each directory release.

4.6.2 Section 4.2 (Data segment index)

The list of segments shall show all the segments used in the message sorted alphabetically by tag.

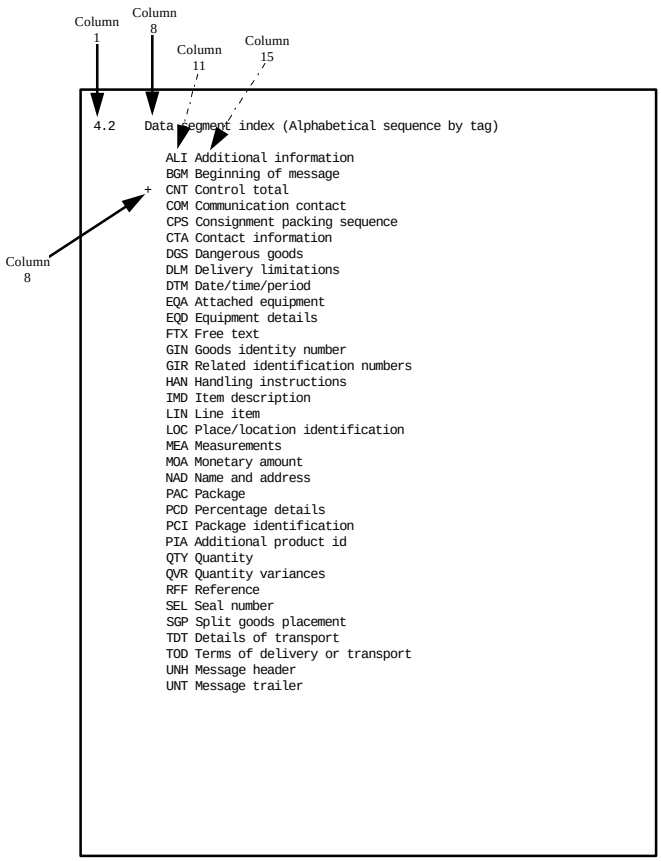


Figure 16

In this section, the only indicator which may be used is the plus sign (+) to indicate the addition of a segment to the segment list which did not previously figure in the list.

4.6.3 Section 4.3.1 (Segment table)

All layouts for the Segment table shall correspond to the following example :

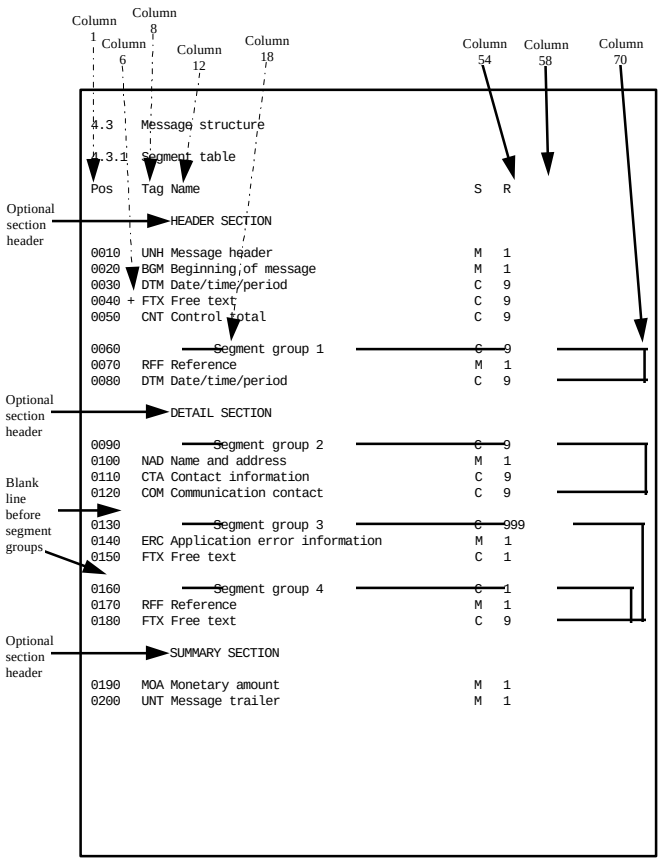


Figure 17

A) The status of segment or a segment group shall be either "C" for conditional, or "M" for mandatory.
B) The number of repetitions shall be left justified beginning in column 58.
C) The only indicators which may be used are :

- The plus sign (+) to indicate the addition of a segment or segment group.
- The asterisk (*) to indicate a change in the status or the number of repetitions of a segment or a segment group.

4.6.4 Section 5 (Messages in development only).

Column 1 | Column 8

```
5.      DIRECTORIES

5.1     Directory references

        UN/EDIFACT recommended directory D.[0054]

5.2     Explanation of directory variations

5.2.1   Segment variations

        {new or modified segment definitions}

5.2.2   Composite variations

        {new or modified composite definitions}

5.2.3   Data element variations

        {new or modified data element definitions}

5.2.4   Code value variations or examples

        {new or modified code value definitions or examples}


6.      SUPPORTING DOCUMENTATION

        {any relevant documentation for clarification}
```

Figure 18

A) The value [0054] will comply with the release of the directory set used as reference.

B) Sections 5.2.1, 5.2.2, 5.2.3 and 5.2.4 shall be formatted in compliance with the format of the segment, composite, data element and code value supporting directories respectively. (Refer to sections 5, 6, and 7 of this document).

4.6.5 Section 6 (Messages in development only).

Section 6 shall only be used for messages in development to provide any complimentary information which will help in the understanding of the message in development.

5. SEGMENT DIRECTORY

5.1 Segment directory index.

The segment directory index comes in two forms which have exactly the same layout. One index is sorted by segment tag and the other is sorted by segment name. The layout for the index is shown in Figure 19 .

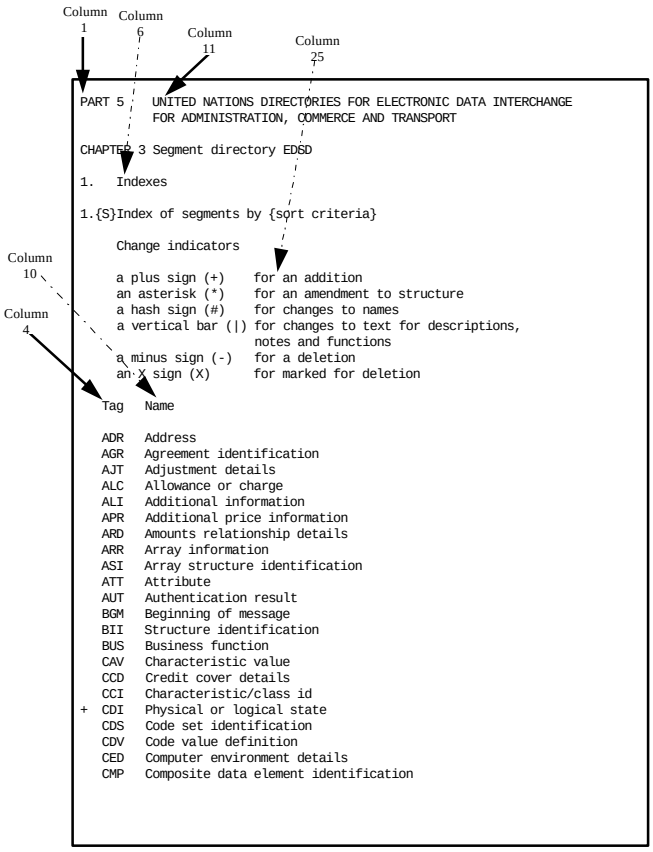


Figure 19

The value for {sort criteria} shall be "tag" when the index is sorted by the segment tag and shall be "name" when the index is sorted by segment name.

The value for {S} is "1" for the index sorted by tag and "2" for the index sorted by name.

Up to two change indicators may be provided in columns one and two respectively against a segment. The change indicators that figure in this list correspond to those which figure against the segments in the segment directory. There is only one exception to this rule and that concerns a segment which has been deleted from the segment directory. It no longer figures in the directory but it is flagged with the change indicator "-" in the index.

On magnetic media the index which is sorted by name is placed on a separate file. This file does not contain the title information which are shown at the top of the

sample page. It starts with the title "1.2 Index of segments by name" beginning in column 1 of the first line.

5.2 Batch segment directory specifications

The segment specification for each segment shall be defined as shown in Figure 20.

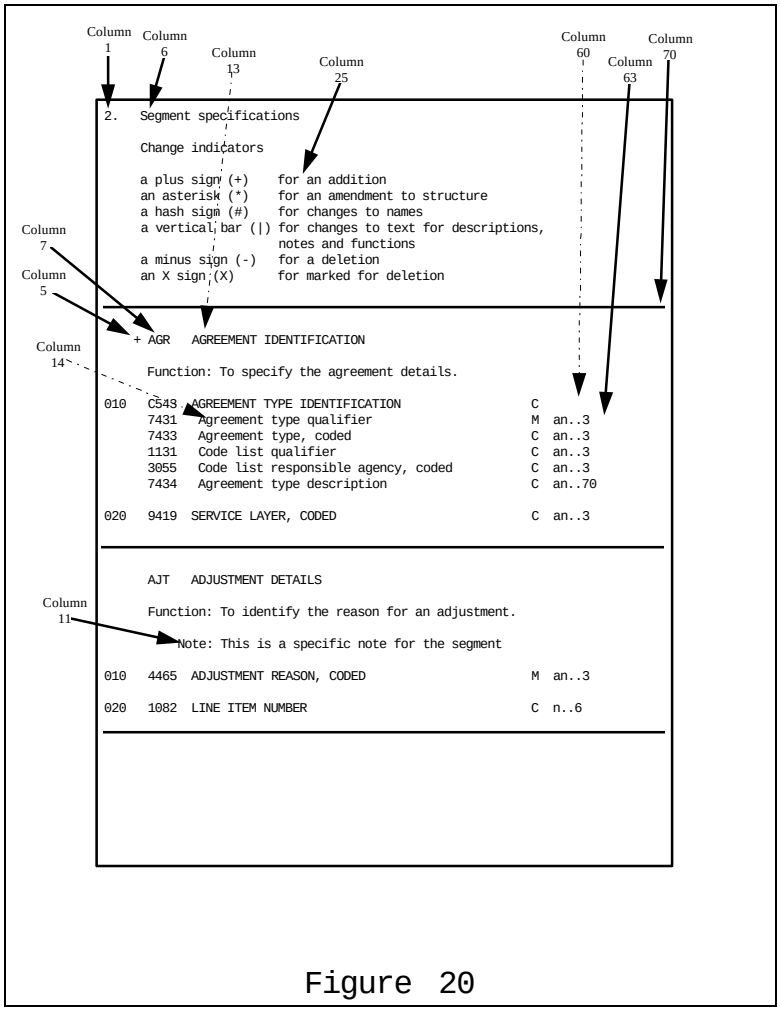


Figure 20

The change indicator is placed in column 5 if there is only one. For two change indicators columns 4 and 5 shall be used. The change indicators may appear against the segment tag, the function, any eventual note, and the composite or simple data elements.(Note : these indications, with the exception of the indication "marked for deletion", are kept local to the directory and do not permiate throughout the directories).

The specific meaning of the change indicators within the segment directory is as follows :

"+" : This signifies that a segment has been added to the directory and is indicated immediately before the segment tag. It can also be used to indicate the addition of an simple data element or a composite data element

to an existing segment in which case it is indicated immediately before the data element tag which has been added.

"*" : This sign is used to indicate that a data element (simple or composite) has been added to or suppressed from the segment. It is also used if a data element within the segment has been marked for deletion or if the status of a data element within the segment has changed. The sign is marked immediately before the segment tag and immediately before the simple or composite data elements if there is a change of status.

"|" : This sign is used to indicate changes in the functional description and note sections of a segment. If such a case occurs then the vertical bar is marked immediately before the segment tag as well as immediately before the section modified.

"#" : The hash sign is used to indicate a change in the name of the segment. If such a case occurs then the hash sign is marked immediately before the segment tag.

"X" : The X sign is used to indicate segments which have been marked for deletion after an interval of three years. At the end of the three year period, the segments so marked will be automatically deleted from the directories. (The X sign should be permiated throughout the different directories to ensure that all effected information is identified). The X is marked immediately before the segment tag.

If a data element has been marked for deletion in the ED or CD an X sign shall be marked before the data element tag in the segment.

The position indicator in column 1 starts at « 010 » and is incremented by 10 for every composite and simple data element in the segment.

The status shall be "M" for mandatory data elements of the segment and "C" for conditional data elements of the segment. The component data elements within a composite must indicate the same status as found in the composite directory.

The format representation shall conform to the specification in ISO 9735.

The segment, stand-alone data element and composite data element names shall use only capital letters. Component data element names shall only have the first letter of the name in capitals.

There should be one blank line between each stand-alone data element and composite data element, but no blank lines between component data elements or between a component data element and the composite data element to which it belongs. There should also be a blank line between two stand-alone data elements or two composite data elements.

If the functional description exceeds 53 characters then it should be continued on the following line in column 17.

In a similar manner if a note exceeds 63 characters then it should be continued on the following line in column 17.

If the names of composite data elements or stand-alone data elements exceed 47 characters they shall be continued on the following line in column 13. If the names of component data elements exceed 46 characters they shall be continued on the following line in column 14.

The condition and format specifications, in the case where a data element name exceeds the line limit, shall always appear on the first line.

5.3 Interactive EDI segment directory specifications

The segment specification for each segment shall be defined as shown in Figure 21.

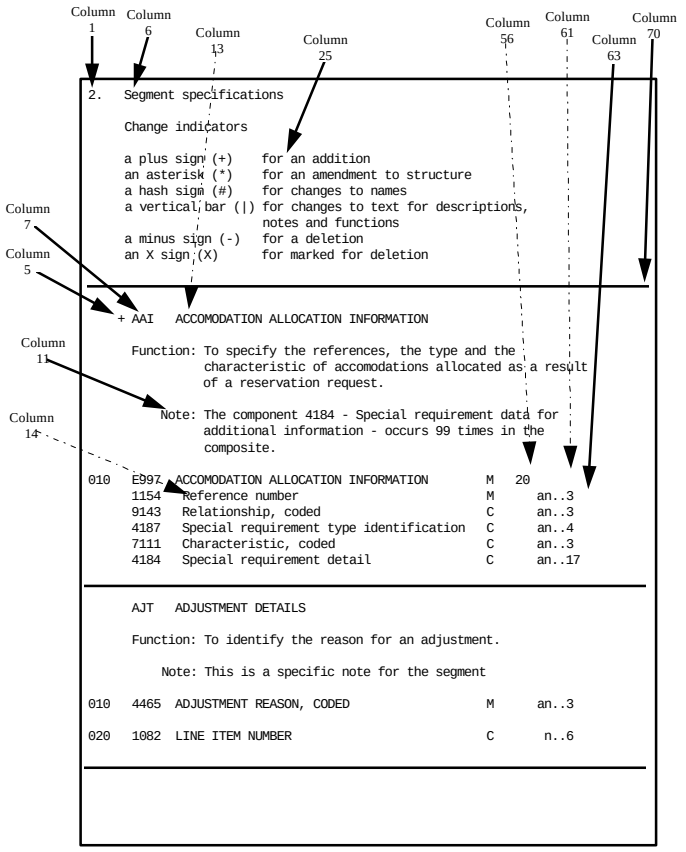


Figure 21

The change indicator is placed in column 5 if there is only one. For two change indicators columns 4 and 5 shall be used. The change indicators may appear against the segment tag, the function, any eventual note, and the composite or simple data elements.(Note : these indications, with the exception of the indication "marked for deletion", are kept local to the directory and do not permiate throughout the directories).

The specific meaning of the change indicators within the segment directory is as follows :

"+" : This signifies that a segment has been added to the directory and is indicated immediately before the segment tag. It can also be used to indicate the addition of an simple data element or a composite data element to an existing segment in which case it is indicated immediately before the data element tag which has been added.

"*" : This sign is used to indicate that a data element (simple or composite) has been added to or suppressed from the segment. It is also used if a data element within the segment has been marked for deletion or if the status of a data element within the segment has changed. The sign is marked immediately before the segment tag and immediately before the simple or composite data elements if there is a change of status.

"|" : This sign is used to indicate changes in the functional description and note sections of a segment. If such a case occurs then the vertical bar is marked immediately before the segment tag as well as immediately before the section modified.

"#" : The hash sign is used to indicate a change in the name of the segment. If such a case occurs then the hash sign is marked immediately before the segment tag.

"X" : The X sign is used to indicate segments which have been marked for deletion after an interval of three years. At the end of the three year period, the segments so marked will be automatically deleted from the directories. (The X sign should be permiated throughout the different directories to ensure that all effected information is identified). The X is marked immediately before the segment tag.

If a data element has been marked for deletion in the ED or CD an X sign shall be marked before the data element tag in the segment.

The position indicator in column 1 starts at « 010 » and is incremented by 10 for every composite and simple data element in the segment.

The repetition count shall begin in column 61 and shall be right justified from that column (i.e. a two digit number begins in column 60).

The repetition count shall only be shown against a composite data element or a stand-alone data element. It shall not be shown against component data elements.

The status shall be "M" for mandatory data elements of the segment and "C" for conditional data elements of the segment. The component data elements within a composite must indicate the same status as found in the composite directory.

The format representation shall conform to the specification in ISO 9735.

The segment, stand-alone data element and composite data element names shall use only capital letters. Component data element names shall only have the first letter of the name in capitals.

There should be one blank line between each stand-alone data element and composite data element, but no blank lines between component data elements or

between a component data element and the composite data element to which it belongs. There should also be a blank line between two stand-alone data elements or two cmposite data elements.

If the functional description exceeds 53 characters then it should be continued on the following line in column 17.

In a similar manner if a note exceeds 53 characters then it should be continued on the following line in column 17.

If the names of composite data elements or stand-alone data elements exceed 41 characters they shall be continued on the following line in column 13. If the names of component data elements exceed 40 characters they shall be continued on the following line in column 14.

The condition, repeat and format specifications, in the case where a data element name exceeds the line limit, shall always appear on the first line.

6. COMPOSITE DATA ELEMENT DIRECTORY

6.1 Composite directory index.

The composite directory index comes in two forms which have exactly the same layout. One index is sorted by composite tag and the other is sorted by composite name. The layout for the index is as described in Figure 22 .

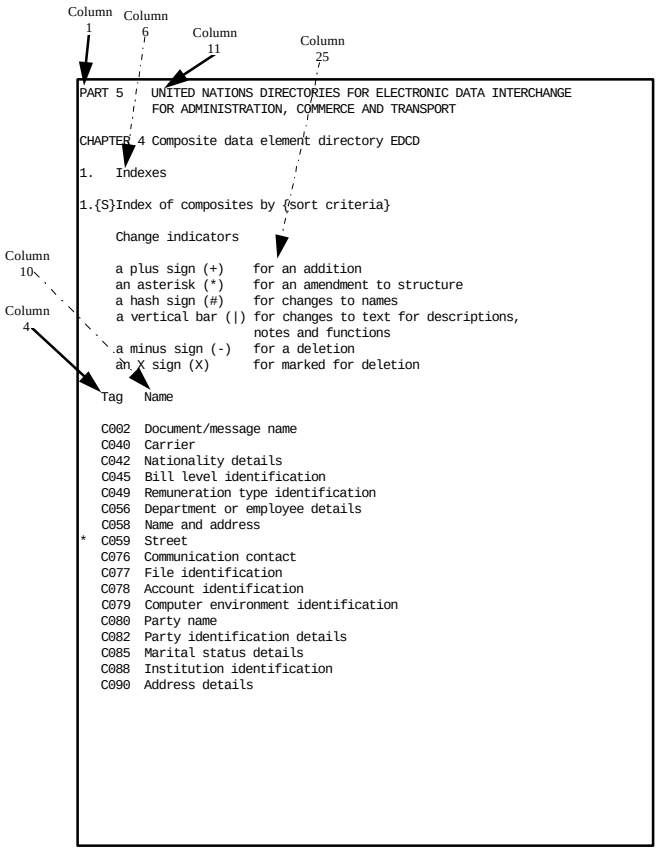


Figure 22

The value for {sort criteria} shall be "tag" when the index is sorted by the composite tag and shall be "name" when the index is sorted by composite name.

The value for {S} is "1" for the index sorted by tag and "2" for the index sorted by name.

Up to two change indicators may be provided in columns one and two respectively against a composite data element. The change indicators that figure in this list correspond to those which figure against the composites in the composite data element directory. There is only one exception to this rule and that concerns a composite which has been deleted from the composite data element directory. It no longer figures in the directory but it is flagged with the change indicator "-" in the index.

On magnetic media the index which is sorted by name is placed on a separate file. This file does not contain the title information which are shown at the top of the sample page. It starts with the title "1.2 Index of composites by name" beginning in column 1 of the first line.

6.2 Composite data element directory specifications

The composite specification for each composite data element shall be defined with the layout and content as shown in Figure 23 .

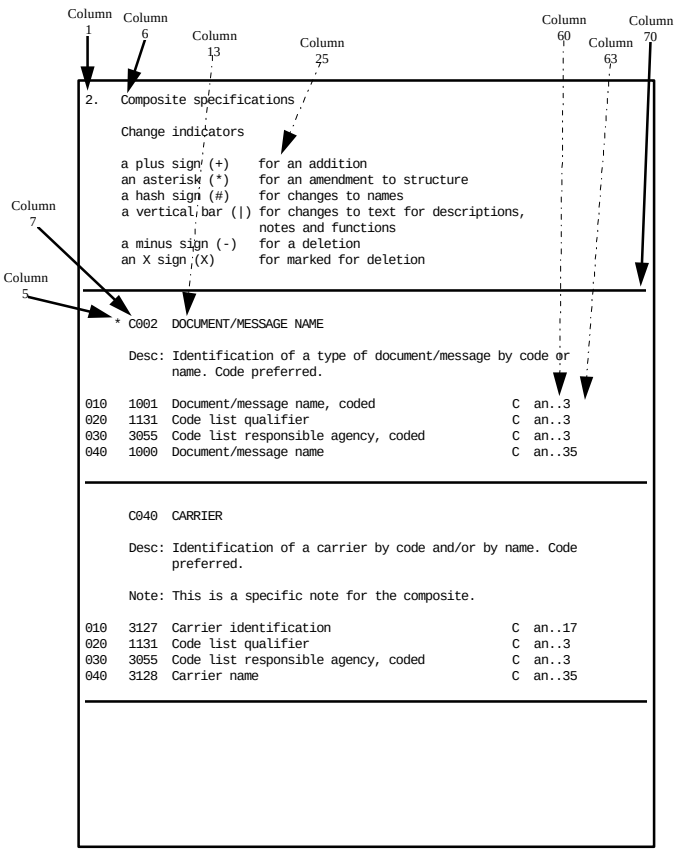


Figure 23

The change indicator is placed in column 5 if there is only one. For two change indicators columns 4 and 5 shall be used. The change indicators may appear against the composite tag, the description, any eventual note, and the component data elements.(Note : these indications, with the exception of the indication "marked for deletion", are kept local to the directory and do not permiate throughout the directories).

The specific meaning of the change indicators within the composite directory is as follows :

"+" : This signifies that a composite data element has been added to the directory and is indicated immediately before the composite data element

tag. It can also be used to indicate the addition of a component data element to an existing composite data element in which case it is indicated immediately before the component data element tag which has been added.

"*" : This sign is used to indicate that a component data element has been added to or suppressed from the composite data element . It is also used if a component data element within the composite data element has been marked for deletion or if the status of a component data element within the composite data element has changed. The sign is marked immediately before the composite data element tag and before the component data element tag if there is change of status.

"|" : This sign is used to indicate changes in the description and note sections of a composite data element. If such a case occurs then the vertical bar is marked immediately before the composite data element tag as well as immediately before the section modified.

"#" : The hash sign is used to indicate a change in the name of the composite data element. If such a case occurs then the hash sign is marked immediately before the composite data element tag or before the component data element tag if it changes status.

"X" : The X sign is used to indicate composite data elements which have been marked for deletion after an interval of three years. At the end of the three year period, the composite data elements so marked will be automatically deleted from the directories. (The X sign should be permiated throughout the different directories to ensure that all effected information is identified). The X is marked immediately before the composite data element tag.

If a component data element has been marked for deletion in the ED an X sign shall be marked immediately before the component data element tag in the composite.

The position indicator in column 1 starts at « 010 » and is incremented by 10 for every component data element in the composite.

The status shall be "M" for mandatory components of the composite and "C" for conditional components of the composite.

The format representation shall conform to the specification in ISO 9735.
If the names of the component data elements in the composite exceed 46 characters they shall be continued on the following line in column 14.

The composite data element name shall use only capital letters. Component data element names shall only have the first letter of the name in capitals.

If the functional description exceeds 57 characters then it should be continued on the following line in column 13.

In a similar manner if a note exceeds 57 characters then it should be continued on the following line in column 13.

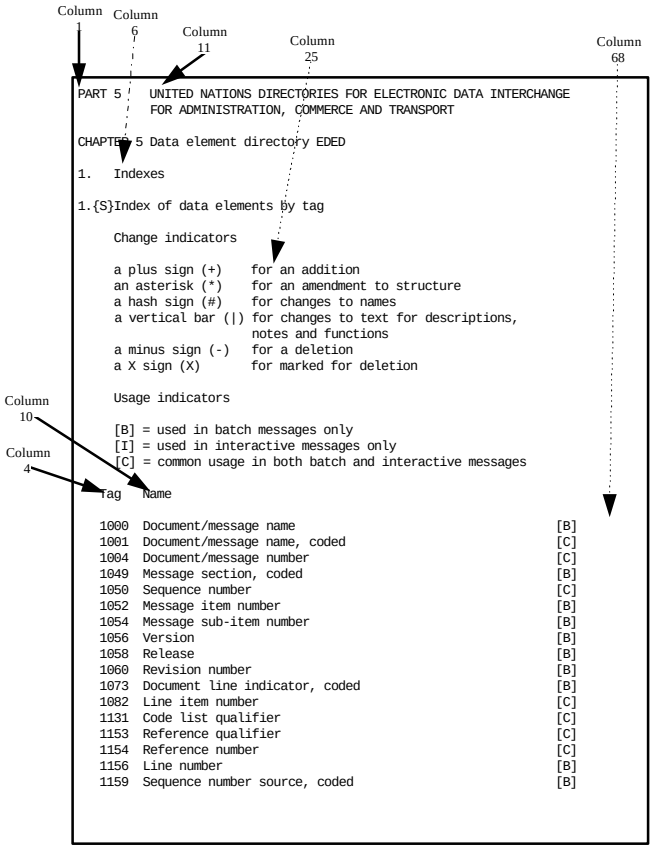
If the name of a data element exceeds 47 characters it shall be continued on the following line in column 13.

The condition, repeat and format specifications, in the case where a data element name exceeds the line limit, shall always appear on the first line.

7. DATA ELEMENT DIRECTORY

7.1 Data element directory index.

The data element directory index comes in two forms which have exactly the same layout. One index is sorted by data element tag and the other is sorted by data element name. The layout for the index is shown in Figure 24 .




```
PART 5    UNITED NATIONS DIRECTORIES FOR ELECTRONIC DATA INTERCHANGE
          FOR ADMINISTRATION, COMMERCE AND TRANSPORT

CHAPTER 5 Data element directory EDED

1.   Indexes

1.{S}Index of data elements by tag

     Change indicators

     a plus sign (+)    for an addition
     an asterisk (*)    for an amendment to structure
     a hash sign (#)    for changes to names
     a vertical bar (|) for changes to text for descriptions,
                        notes and functions
     a minus sign (-)   for a deletion
     a X sign (X)       for marked for deletion

     Usage indicators

     [B] = used in batch messages only
     [I] = used in interactive messages only
     [C] = common usage in both batch and interactive messages

   Tag   Name

   1000  Document/message name                                  [B]
   1001  Document/message name, coded                           [C]
   1004  Document/message number                                [C]
   1049  Message section, coded                                 [B]
   1050  Sequence number                                        [C]
   1052  Message item number                                    [B]
   1054  Message sub-item number                                [B]
   1056  Version                                               [B]
   1058  Release                                               [B]
   1060  Revision number                                       [B]
   1073  Document line indicator, coded                        [B]
   1082  Line item number                                      [C]
   1131  Code list qualifier                                   [C]
   1153  Reference qualifier                                   [C]
   1154  Reference number                                      [C]
   1156  Line number                                           [B]
   1159  Sequence number source, coded                         [B]
```

Figure 24

The value for {sort criteria} shall be "tag" when the index is sorted by the data element tag and shall be "name" when the index is sorted by data element name.

The value for {S} is "1" for the index sorted by tag and "2" for the index sorted by name.

Up to two change indicators may be provided in columns one and two respectively againt a data element. The change indicators that figure in this list correspond to those which figure against the data elements in the data element directory. There is only one exception to this rule and that concerns a data element which has been deleted from the data element directory. It no longer figures in the directory but it is flagged with the change indicator "-" in the index.

On magnetic media the index which is sorted by name is placed on a separate file. This file does not contain the title information which are shown at the top of the

sample page. It starts with the title "1.2 Index of data elements by name" beginning in column 1 of the first line.

7.2 Data element directory specifications

The data element specification for each data element shall be defined following layout and content as shown in Figure 25 .

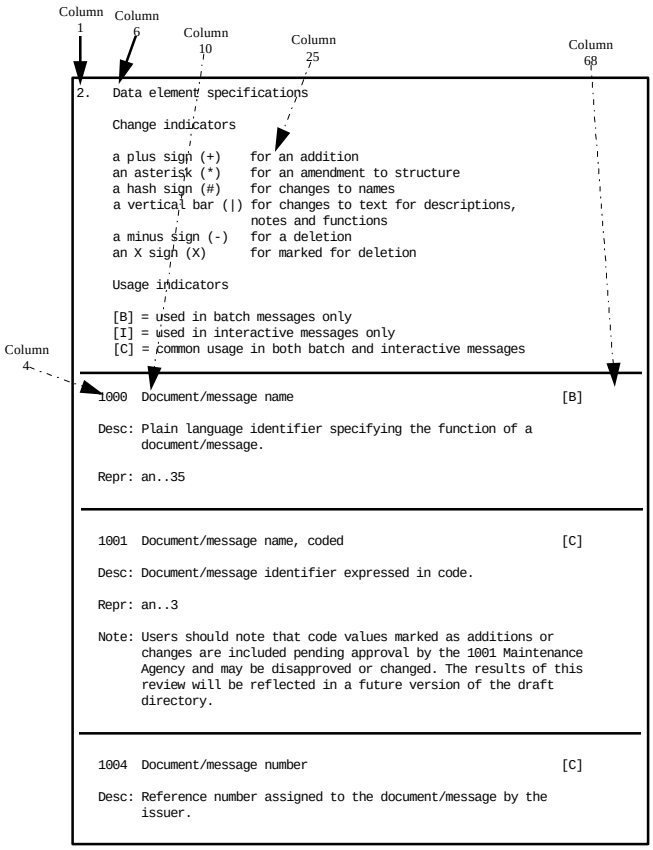


Figure 25

The change indicator is placed in column 1. For successive change indicators columns 2 and 3 shall be used. The change indicators may appear against the data element tag, the description, any eventual note, and the representation of the data element.(Note : these indications, with the exception of the indication "marked for deletion", are kept local to the directory and do not permiate throughout the directories).

The specific meaning of the change indicators within the data element directory is as follows :

"+" : This sign signifies that a data element has been added to the ED directory and is placed immediately before the data element tag.

"*" : This sign is used to indicate that a change has occurred in the representation of the data element and is placed immediately before the data element tag.

"|" This sign is used to identify changes in the description and note sections of a data element. If such a case occurs then the vertical bar is marked immediately before the data element tag as well as immediately before the section changed.

"#" The hash sign is used to indicate a change in the name of the data element. If such a case occurs then the hash sign is marked immediately before the data element tag.

"X" The X sign is used to indicate data elements which have been marked for deletion after an interval of three years. At the end of the three year period, the data elements so marked will be automatically deleted from the directories. (The X sign should be permiated throughout the different directories to ensure that all effected information is identified). The X is marked immediately before the data element tag.

A usage indicator is placed in columns 68-70 of the line containing the data element tag and name. Its purpose is to permit effect control over changes proposed for future directories, particularly where the indicator is "[C]".

A data element currently shown as [B] will change to [C] if it becomes used in an interactive message, and a data element currently shown as [I] will change to [C] if it becomes used in a batch message. The specific meaning of the usage indicators within the data element directory is as follows:

[B] This indicator signifies that a data element is used only in a batch message(s) within this directory

[I] This indicator signifies that a data element is used only in an interactive message(s) within this directory

[C] This indicator signifies that a data element is used in both an interactive and a batch message(s) within this directory

The format representation shall conform to the specification in ISO 9735.

The data element name shall use only capital letters.

If the name of the data element or the functional description exceeds 60 characters then it should be continued on the following line in column 10.

In a similar manner if a note exceeds 60 characters then it should be continued on the following line in column 10.

8. CODE LISTS

8.1 Code list directory specifications

The code list specification for each data element shall be defined following the layout and content as shown in Figure 26 .

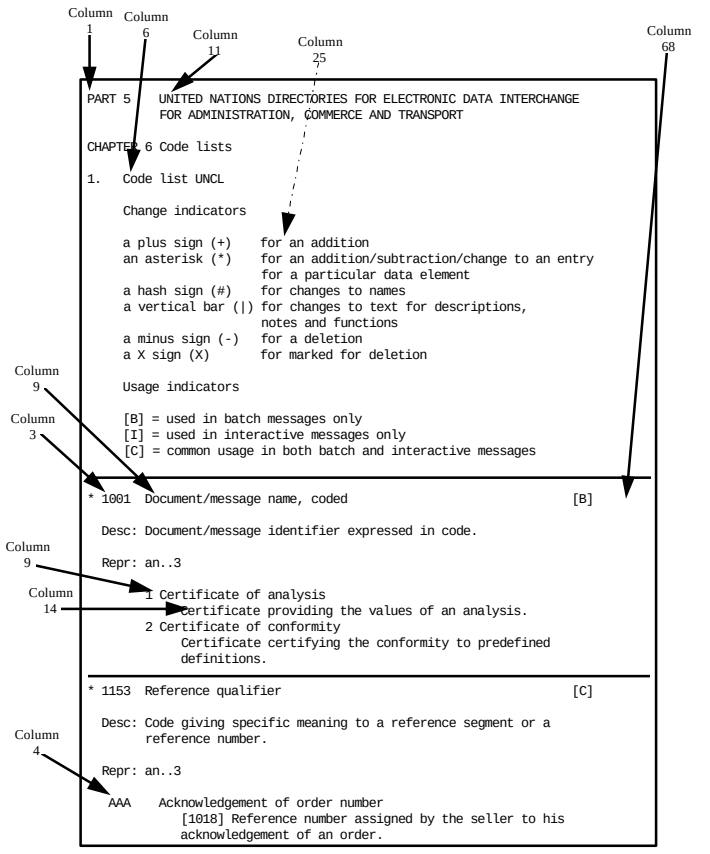


Figure 26

The change indicator is placed in column 1. For successive change indicators columns 2 and 3 shall be used. The change indicators may appear against the data element tag and the code value of the data element.(Note : these indications, with the exception of the indication "marked for deletion", are kept local to the directory and do not permiate throughout the directories).

The specific meaning of the change indicators within the code list directory is as follows :

"+" : This sign is used to indicate the addition of a coded data element to the directory and is marked immediately before the coded data element tag. it may also be used to indicate the addition of a coded value to an existing coded data element in which case the sign is marked immediately before the coded value added.

"*" : This sign is used to indicate that a coded value has been added to or suppressed from the coded data element. It is also used if a coded value

within the coded data element has been marked for deletion or the name or description of the a coded value has been changed. The sign is marked immediately before the coded data element tag.

"|" : This sign is used to indicate a change in the text of a description of a coded value. It is marked immediately before the coded value tag in question.

"#" : The hash sign is used to indicate a modification to the name of a coded value. The sign is marked immediately before the coded value tag in question.

"-" : The minus sign is not used in this directory.

"X" : The X is used to indicate coded values which have been marked for deletion after an interval of three years. At the end of the three year period the coded values so marked will be automatically deleted from the directory. The X marker should only appear immediately before the coded value tag to be deleted.

Numeric codes in a code list shall be right aligned from column 9 all other codes shall left aligned from column 4.

Code lists published by UN/EDIFACT using this layout cannot be more than 6 characters in length.

A coded data element which does not have a code list shall not appear in the code list directory.

Note :

The service code lists shall respect exactly the same layout rules as the UN/EDIFACT code lists.

9. ANNEXES

9.1 Annex 1 Allowed character sets

32	! 33	" 34	# 35	$ 36	% 37
38	! 39	" 40	) 41	* 42	+ 43
, 44	- 45	. 46	/ 47	0 48	1 49
2 50	3 51	4 52	5 53	6 54	7 55
8 56	9 57	: 58	; 59	< 60	= 61
> 62	? 63	@ 64	A 65	B 66	C 67
D 68	E 69	F 70	G 71	H 72	I 73
J 74	K 75	L 76	M 77	N 78	O 79
P 80	Q 81	R 82	S 83	T 84	U 85
V 86	W 87	X 88	Y 89	Z 90	[91
\ 92	] 93	^ 94	_ 95	` 96	a 97
b 98	c 99	d 100	e 101	f 102	g 103
h 104	i 105	j 106	k 107	l 108	m 109
n 110	o 111	p 112	q 113	r 114	s 115
t 116	u 117	v 118	w 119	x 120	y 121
z 122	{ 123	| 124	) 125	~ 126	_ 127

ISO 8859-1 G0 set

│ 179	┐ 191	┘ 217	┴ 193	─ 196

Allowed IBM graphic characters

NOTE : such characters can be printed from the WINDOWS environment using the MS-Linedraw font.

9.2 Annex 2 Data elements used in layouts

TAG	NAME	FORMAT
0051	Controlling agency	an..2
0052	Message version number	an..3
0054	Message release number	an..3
0065	Message type	an..6