INTERNATIONAL STANDARD

ISO 9735-10

Second edition
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Electronic data interchange for administration, commerce and transport (EDIFACT) — Application level syntax rules (Syntax version number: 4, Syntax release number: 2) —

Part 10: Syntax service directories

Échange de données informatisé pour l'administration, le commerce et le transport (EDIFACT) — Règles de syntaxe au niveau de l'application (numéro de version de syntaxe: 4, numéro d'édition de syntaxe: 2) —

Partie 10: Annuaires de syntaxe

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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).

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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 WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

ISO 9735-10 was prepared by Technical Committee ISO/TC 154, *Processes, data elements and documents in commerce, industry and administration*, in collaboration with UN/CEFACT through the Joint Syntax Working Group.

This second edition cancels and replaces the first edition (ISO 9735-10:2002), which has been technically revised. The principle changes are as follows:

— Annex A has been revised to implement all syntax code releases since publication of the first edition;

— the representation of data element 0536 "Certificate reference" has been amended from "an..35" to "an..70".

ISO 9735 consists of the following parts[1], under the general title *Electronic data interchange for administration, commerce and transport (EDIFACT) — Application level syntax rules (Syntax version number: 4, Syntax release number: 2)*[2]*:*

— *Part 1: Syntax rules common to all parts*

— *Part 2: Syntax rules specific to batch EDI*

— *Part 3: Syntax rules specific to interactive EDI*

— *Part 4: Syntax and service report message for batch EDI (message type — CONTRL)*

— *Part 5: Security rules for batch EDI (authenticity, integrity and non-repudiation of origin)*

— *Part 6: Secure authentication and acknowledgement message (message type — AUTACK)*

— *Part 7: Security rules for batch EDI (confidentiality)*

1) Further parts may be added in the future.

2) Publication of this new edition of ISO 9735-10 means that the syntax release number in the general title is increased from "1" to "2".

— *Part 8: Associated data in EDI*

— *Part 9: Security key and certificate management message (message type — KEYMAN)*

— *Part 10: Syntax service directories*

Introduction

This part of ISO 9735 includes the rules at the application level for the structuring of data in the interchange of electronic messages in an open environment, based on the requirements of either batch or interactive processing. These rules have been agreed by the United Nations Economic Commission for Europe (UN/ECE) as syntax rules for Electronic Data Interchange for Administration, Commerce and Transport (EDIFACT) and are part of the United Nations Trade Data Interchange Directory (UNTDID) which also includes both batch and interactive Message Design Guidelines.

This part of ISO 9735 can be used in any application, but messages using these rules can only be referred to as EDIFACT messages if they comply with other guidelines, rules and directories in the UNTDID. For UN/EDIFACT, batch messages comply with the message design rules for batch usage. These rules are maintained in the UNTDID.

Communications specifications and protocols are outside the scope of this part of ISO 9735.

Electronic data interchange for administration, commerce and transport (EDIFACT) — Application level syntax rules (Syntax version number: 4, Syntax release number: 2) —

Part 10: Syntax service directories

1 Scope

This part of ISO 9735 specifies the syntax service directories of all parts of ISO 9735.

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 9735-1, *Electronic data interchange for administration, commerce and transport (EDIFACT) — Application level syntax rules (Syntax version number: 4, Syntax release number: 1) — Part 1: Syntax rules common to all parts*

ISO 9735-2, *Electronic data interchange for administration, commerce and transport (EDIFACT) — Application level syntax rules (Syntax version number: 4, Syntax release number: 1) — Part 2: Syntax rules specific to batch EDI*

ISO 9735-3, *Electronic data interchange for administration, commerce and transport (EDIFACT) — Application level syntax rules (Syntax version number: 4, Syntax release number: 1) — Part 3: Syntax rules specific to interactive EDI*

ISO 9735-4, *Electronic data interchange for administration, commerce and transport (EDIFACT) — Application level syntax rules (Syntax version number: 4, Syntax release number: 1) — Part 4: Syntax and service report message for batch EDI (message type — CONTRL)*

ISO 9735-5, *Electronic data interchange for administration, commerce and transport (EDIFACT) — Application level syntax rules (Syntax version number: 4, Syntax release number: 1) — Part 5: Security rules for batch EDI (authenticity, integrity and non-repudiation of origin)*

ISO 9735-6, *Electronic data interchange for administration, commerce and transport (EDIFACT) — Application level syntax rules (Syntax version number: 4, Syntax release number: 1) — Part 6: Secure authentication and acknowledgement message (message type - AUTACK)*

ISO 9735-7, *Electronic data interchange for administration, commerce and transport (EDIFACT) — Application level syntax rules (Syntax version number: 4, Syntax release number: 1) — Part 7: Security rules for batch EDI (confidentiality)*

ISO 9735-8, *Electronic data interchange for administration, commerce and transport (EDIFACT) — Application level syntax rules (Syntax version number: 4, Syntax release number: 1) — Part 8: Associated data in EDI*

ISO 9735-9, *Electronic data interchange for administration, commerce and transport (EDIFACT) — Application level syntax rules (Syntax version number: 4, Syntax release number: 1) — Part 9: Security key and certificate management message (message type- KEYMAN)*

3 Terms and definitions

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

4 Conformance

Whereas this part shall use a version number of "4" in the mandatory data element 0002 (Syntax version number), and shall use a release number of "02" in the conditional data element 0076 (Syntax release number), each of which appear in the segment UNB (Interchange header), interchanges continuing to use the syntax defined in the earlier published versions shall use the following Syntax version numbers, in order to differentiate them from each other and from this part:

— ISO 9735:1988: *Syntax version number: 1*

— ISO 9735:1988 (amended and reprinted in 1990): *Syntax version number: 2*

— ISO 9735:1988 and ISO 9735:1988/Amd 1:1992: *Syntax version number: 3*

— ISO 9735:1998 (all parts): *Syntax version number: 4*

Conformance to a standard means that all of its requirements, including all options, are supported. If all options are not supported, any claim of conformance shall include a statement which identifies those options to which conformance is claimed.

Data that is interchanged is in conformance if the structure and representation of the data conform to the syntax rules specified in this part of ISO 9735.

Devices supporting this part of ISO 9735 are in conformance when they are capable of creating and/or interpreting the data structured and represented in conformance with the standard.

Conformance to this part shall include conformance to ISO 9735-1, ISO 9735-2, ISO 9735-3, ISO 9735-4, ISO 9735-5, ISO 9735-6, ISO 9735-7, ISO 9735-8 and ISO 9735-9.

When identified in this part of ISO 9735, provisions defined in related standards shall form part of the conformance criteria.

5 Syntax service directories

5.1 Service segment directory

5.1.1 Service segment specification legend

Function	The function of the segment
POS	The sequential position number of the stand-alone data element or composite data element in the segment table
TAG	The tags for all service segments contained in the segment directory shall start with the letter "U". The tags of all service composite data elements start with the letter "S", and the tags of all service simple data elements start with the figure "0".
Name	Name of a COMPOSITE DATA ELEMENT in capital letters Name of a STAND-ALONE DATA ELEMENT in capital letters Name of a component data element in small letters
S	The status of the stand-alone data element or composite data element in the segment, or of the components in the composite (where M = Mandatory and C = Conditional)

R	The maximum number of occurrences of a stand-alone data element or composite data element in the segment
Repr.	Data value representation of the stand-alone data element or component data elements in the composite:

a	alphabetic characters
n	numeric characters
an	alphanumeric characters
a3	3 alphabetic characters, fixed length
n3	3 numeric characters, fixed length
an3	3 alphanumeric characters, fixed length
a..3	up to 3 alphabetic characters
n..3	up to 3 numeric characters
an..3	up to 3 alphanumeric characters

5.1.2 Dependency note identifiers

Code	Name
D1	One and only one
D2	All or none
D3	One or more
D4	One or none
D5	If first, then all
D6	If first, then at least one more
D7	If first, then none of the others

See ISO 9735-1:2002, 11.5, for the definition of the dependency note identifiers.

5.1.3 Index of service segments by tag

Change indicators (compared with the previous edition of this part of ISO 9735)

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
an X sign (X)	for marked for deletion

Tag	Name
UCD	Data element error indication
UCF	Group response
UCI	Interchange response
UCM	Message/package response
UCS	Segment error indication
UGH	Anti-collision segment group header
UGT	Anti-collision segment group trailer
UIB	Interactive interchange header
UIH	Interactive message header
UIR	Interactive status
UIT	Interactive message trailer
UIZ	Interactive interchange trailer
UNB	Interchange header
UNE	Group trailer
UNG	Group header
UNH	Message header
UNO	Object header
UNP	Object trailer
UNS	Section control
UNT	Message trailer
UNZ	Interchange trailer
USA	Security algorithm
USB	Secured data identification
USC	Certificate
USD	Data encryption header
USE	Security message relation
USF	Key management function
USH	Security header
USL	Security list status

Tag	Name
USR	Security result
UST	Security trailer
USU	Data encryption trailer
USX	Security references
USY	Security on references

5.1.4 Index of service segments by name

Change indicators (compared with the previous edition of this part of ISO 9735)

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
an X sign (X)	for marked for deletion

Tag	Name
UGH	Anti-collision segment group header
UGT	Anti-collision segment group trailer
USC	Certificate
UCD	Data element error indication
USD	Data encryption header
USU	Data encryption trailer
UNG	Group header
UCF	Group response
UNE	Group trailer
UIB	Interactive interchange header
UIZ	Interactive interchange trailer
UIH	Interactive message header
UIT	Interactive message trailer
UIR	Interactive status
UNB	Interchange header
UCI	Interchange response

Tag	Name
UNZ	Interchange trailer
USF	Key management function
UNH	Message header
UNT	Message trailer
UCM	Message/package response
UNO	Object header
UNP	Object trailer
UNS	Section control
USB	Secured data identification
USA	Security algorithm
USH	Security header
USL	Security list status
USE	Security message relation
USY	Security on references
USX	Security references
USR	Security result
UST	Security trailer
UCS	Segment error indication

5.1.5 Service segment specifications

Change indicators (compared with the previous edition of this part of ISO 9735)

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
an X sign (X)	for marked for deletion

UCD DATA ELEMENT ERROR INDICATION						
Function: To identify an erroneous stand-alone, composite or component data element, and to identify the nature of the error.						
Pos	TAG	Name	S	R	Repr.	Notes
010	0085	SYNTAX ERROR, CODED	M	1	an..3	

020	S011	DATA ELEMENT IDENTIFICATION	M	1		
	0098	Erroneous data element position in segment	M		n..3	
	0104	Erroneous component data element position	C		n..3	
	0136	Erroneous data element occurrence	C		n..6	

UCF GROUP RESPONSE

Function: To identify a group in the subject interchange and to indicate acknowledgement or rejection (action taken) of the UNG and UNE segments, and to identify any error related to these segments. It can also identify errors related to the USA, USC, USD, USH, USR, UST, or USU security segments when they appear at the group level. Depending on the action code, it may also indicate the action taken on the messages and packages within that group.

Pos	TAG	Name	S	R	Repr.	Notes
010	0048	GROUP REFERENCE NUMBER	M	1	an..14	
020	S006	APPLICATION SENDER IDENTIFICATION	C	1		7
	0040	Application sender identification	M		an..35	
	0007	Identification code qualifier	C		an..4	
030	S007	APPLICATION RECIPIENT IDENTIFICATION	C	1		7
	0044	Application recipient identification	M		an..35	
	0007	Identification code qualifier	C		an..4	
040	0083	ACTION, CODED	M	1	an..3	
050	0085	SYNTAX ERROR, CODED	C	1	an..3	1,2,3,4
060	0135	SERVICE SEGMENT TAG, CODED	C	1	an..3	1,2,3,4,5
070	S011	DATA ELEMENT IDENTIFICATION	C	1		2
	0098	Erroneous data element position in segment	M		n..3	
	0104	Erroneous component data element position	C		n..3	
	0136	Erroneous data element occurrence	C		n..6	
080	0534	SECURITY REFERENCE NUMBER	C	1	an..14	3,4,6
090	0138	SECURITY SEGMENT POSITION	C	1	n..6	3,4,6

DEPENDENCY NOTES:

1. D5(060, 050) If first, then all

2. D5(070, 060, 050) If first, then all

3. D5(080, 060, 050, 090) If first, then all

4. D5(090, 080, 060, 050) If first, then all

OTHER NOTES:

5. 0135, may only contain the values UNG, UNE, USA, USC, USD, USH, USR, UST, or USU.

6. This data element shall be present when reporting an error in a security segment.

7. This data element shall be present if it was present in the subject interchange.

UCI INTERCHANGE RESPONSE

Function: To identify the subject interchange, to indicate interchange receipt, to indicate acknowledgement or rejection (action taken) of the UNA, UNB and UNZ segments, and to identify any error related to these segments. It can also identify errors related to the USA, USC, USD, USH, USR, UST, or USU security segments when they appear at the interchange level. Depending on the action code, it may also indicate the action taken on the groups, messages, and packages within that interchange.

Pos	TAG	Name	S	R	Repr.	Notes

010	0020	INTERCHANGE CONTROL REFERENCE	M	1	an..14	
020	S002	INTERCHANGE SENDER	M	1		
	0004	Interchange sender identification	M		an..35	
	0007	Identification code qualifier	C		an..4	
	0008	Interchange sender internal identification	C		an..35	
	0042	Interchange sender internal sub-identification	C		an..35	
030	S003	INTERCHANGE RECIPIENT	M	1		
	0010	Interchange recipient identification	M		an..35	
	0007	Identification code qualifier	C		an..4	
	0014	Interchange recipient internal identification	C		an..35	
	0046	Interchange recipient internal sub-identification	C		an..35	
040	0083	ACTION, CODED	M	1	an..3	
050	0085	SYNTAX ERROR, CODED	C	1	an..3	1,2,3,4
060	0135	SERVICE SEGMENT TAG, CODED	C	1	an..3	1,2,3,4,5
070	S011	DATA ELEMENT IDENTIFICATION	C	1		2
	0098	Erroneous data element position in segment	M		n..3	
	0104	Erroneous component data element position	C		n..3	
	0136	Erroneous data element occurrence	C		n..6	
080	0534	SECURITY REFERENCE NUMBER	C	1	an..14	3,4,6
090	0138	SECURITY SEGMENT POSITION	C	1	n..6	3,4,6
DEPENDENCY NOTES: 1. D5(060, 050) If first, then all 2. D5(070, 060, 050) If first, then all 3. D5(080, 060, 050, 090) If first, then all 4. D5(090, 080, 060, 050) If first, then all OTHER NOTES: 5. 0135, may only contain the values UNA, UNB, UNZ, USA, USC, USD, USH, USR, UST, or USU. 6. This data element shall be present when reporting an error in a security segment.						

UCM MESSAGE/PACKAGE RESPONSE						
Function: To identify a message or package in the subject interchange, and to indicate that message's or package's acknowledgement or rejection (action taken), and to identify any error related to the UNH, UNT, UNO, and UNP segments. It can also identify errors related to the USA, USC, USD, USH, USR, UST, or USU security segments when they appear at the message or package level.						
Pos	TAG	Name	S	R	Repr.	Notes
010	0062	MESSAGE REFERENCE NUMBER	C	1	an..14	1,2
020	S009	MESSAGE IDENTIFIER	C	1	2	
	0065	Message type	M		an..6	
	0052	Message version number	M		an..3	
	0054	Message release number	M		an..3	
	0051	Controlling agency, coded	M		an..3	
	0057	Association assigned code	C		an..6	
	0110	Code list directory version number	C		an..6	
	0113	Message type sub-function identification	C		an..6	

030	0083	ACTION, CODED	M	1	an..3	
040	0085	SYNTAX ERROR, CODED	C	1	an..3	4,5,6,7
050	0135	SERVICE SEGMENT TAG, CODED	C	1	an..3	4,5,6,7,8
060	S011	DATA ELEMENT IDENTIFICATION	C	1		5
	0098	Erroneous data element position in segment	M		n..3	
	0104	Erroneous component data element position	C		n..3	
	0136	Erroneous data element occurrence	C		n..6	
070	0800	PACKAGE REFERENCE NUMBER	C	1	an..35	1,3
080	S020	REFERENCE IDENTIFICATION	C	99		3
	0813	Reference qualifier	M		an..3	
	0802	Reference identification number	M		an..35	
090	0534	SECURITY REFERENCE NUMBER	C	1	an..14	6,7,9
100	0138	SECURITY SEGMENT POSITION	C	1	n..6	6,7,9

DEPENDENCY NOTES:

1. D1(010, 070) One and only one
2. D2(010, 020) All or none
3. D2(070, 080) All or none
4. D5(050, 040) If first, then all
5. D5(060, 050, 040) If first, then all
6. D5(090, 050, 040, 100) If first, then all
7. D5(100, 090, 050, 040) If first, then all

OTHER NOTES:

8. 0135, may only contain the values UNH, UNT, UNO, UNP, USA, USC, USD, USH, USR, UST, or USU.
9. This data element shall be present when reporting an error in a security segment.

UCS SEGMENT ERROR INDICATION

Function: To identify either a segment containing an error or a missing segment, and to identify any error related to the complete segment.

Pos	TAG	Name	S	R	Repr.	Notes
010	0096	SEGMENT POSITION IN MESSAGE BODY	M	1	n..6	
020	0085	SYNTAX ERROR, CODED	C	1	an..3	1

NOTES:

1. 0085, shall contain a value only if the error pertains to the segment identified by data element 0096.

UGH ANTI-COLLISION SEGMENT GROUP HEADER

Function: To head, identify and specify an anti-collision segment group.

Pos	TAG	Name	S	R	Repr.	Notes
010	0087	ANTI-COLLISION SEGMENT GROUP IDENTIFICATION	M	1	an..4	1

NOTES:

1. 0087, the value shall be the segment group number of the UGH/UGT segment group as stated in the message specification. It shall be identical to the value in 0087 in the corresponding UGT segment.

UGT ANTI-COLLISION SEGMENT GROUP TRAILER