

UN/EDIFACT

UNITED NATIONS STANDARD MESSAGE (UNSM)

EDI data tracking message

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For general information on UN standard message types see UN Trade Data  
Interchange Directory, UNTDID, Part 4, Section 2.6, UN/ECE UNSM  
General Introduction  
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## 0. INTRODUCTION

This specification provides the definition of the EDI data tracking message (DATRAK) to be used in Electronic Data Interchange (EDI) between trading partners involved in administration, commerce and transport.

## 1. SCOPE

### 1.1 Functional Definition

The EDI data tracking message (DATRAK) permits the exchange of data tracking information between both trading partners and service providers.

### 1.2 Field of Application

The EDI data tracking message 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.

### 1.3 Principles

The DATRAK message provides a method to query and report on the transmission status of a previously transmitted message or set of messages contained in a single set of envelopes. It can be used for data tracking and location between trading partners, and between service providers.

The DATRAK message provides for both single status query and response, and for audit trail composition and routing responses.

The DATRAK message is intended to be used by two categories of users: end-users and service handlers/providers.

When DATRAK is used between service handlers, it may be used in query or response mode, but will often operate in response mode only - such a response will be generated as if the service party to receive the report had generated the appropriate query. This mode is also expected to be only the single status query and response.

When DATRAK is used by an end-user, it should be submitted either to the end-user's own service handler/provider, or in the normal way to a trading partner. The response characteristics will depend on whether the query is single status or for a full route. In single status mode, a response will be generated by the party that last handled the interchange, giving the status of the interchange. If from an intermediate service handler/provider, the party identification need not include an EDI-usable address, and is not intended to encourage contact or further traffic between the end-user and any intermediate service handler/provider, with whom they may have no contractual relationship. Although the contents of the response may be provided by a third party, the actual reply envelope of the response will always reflect those used to submit the query. This will maintain the contractual relationships between the parties involved.

In the full route mode, each service handler/provider or end-user

that handled the transaction will insert a report of the action that they took on the interchange into the query, and forward it along the same route as the original transaction. As with the single status mode, the response will be generated, including all the inserted reports, by the party that last handled the transaction, and finally delivered by the party to whom the initial request was directed.

The Interchange header shall specify character set level C.

2. REFERENCES

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

4. MESSAGE DEFINITION

4.1 Data Segment Clarification

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

0010 UNH, Message header  
A service segment starting and uniquely identifying a message. The message type code for the EDI data tracking message is DATRAK.

Note: EDI implementation guide definition messages conforming to this document must contain the following data in segment UNH, composite S009:

Data element 0065 DATRAK  
0052 D  
0054 99A  
0051 UN

0020 BGM, Beginning of message  
A segment to indicate the beginning of the message and to transmit function, type and number of the message.

0030 Segment group 1: DSI-DTM-IRQ-STSG2  
A group of segments identifying an interchange and either a type of query or a result together with intermediate results.

When the message is being used to originate a status request, the IRQ segment will carry the request, the STS will be absent, and one or more iterations of SG2 may carry reports from intermediate service providers/handlers.

When the message is being used to return a status report to the originator, the IRQ will be absent, the STS will be present, and there will be at least one instance of SG2 detailing the response from the last or addressed service provider/handler or trading partner. There may also be other iterations of SG2 carrying reports from intermediate service providers/handlers.

0040 DSI, Data set identification  
A segment identifying an interchange.

0050 DTM, Data/time/period  
A segment further identifying an interchange by specifying its original transmission date and time.

0060 PNA, Party identification  
A pair of segments to identify the sender and receiver of the interchange that is being tracked.

0070 IRQ, Information requested  
A segment identifying the type of request being made. This may be a point-to-point request, in which case the receiving party will respond by inserting an STS segment and return a single iteration of SG2 specifying the status of the interchange at the recipient and any actions taken; it may also be a trace-route

request, in which case it will be sent to the first service provider/handler who will add an instance of SG2 and forward the request in the same way as the interchange being tracked - the current holder of the interchange will then return the message to the originator as if a point-to-point request, retaining the intermediate instances of SG2.

- 0080 STS, Status  
A segment identifying the status of the tracking request. This segment is inserted into the message by the final service provider/handler that is currently holding the interchange being tracked if it has not yet been delivered to the final recipient, or by the receiving trading partner to confirm receipt.
- 0090 Segment group 2: PNA-ADR-SG3-RFF-CED-SG4  
A group of segments identifying the parties who have handled the interchange, and detailing actions taken by the parties or the status of the interchange at each of the parties.
- 0100 PNA, Party identification  
A segment identifying a party involved in processing or handling the transaction, e.g., originator, recipient, service handler or provider. Use C082 to carry the sender/receiver identification from the UNB header, or C816 to carry another form of identification.
- 0110 ADR, Address  
A segment identifying the address of the party.
- 0120 Segment group 3: CTA-COM  
A group of segments identifying a person or a department and identifying communication type and number.
- 0130 CTA, Contact information  
A segment identifying a person or a department for the party to whom the communication should be directed.
- 0140 COM, Communication contact  
A segment identifying communication type and number of the person.
- 0150 RFF, Reference  
A segment providing reference numbers for the party.
- 0160 CED, Computer environment details  
A segment describing the computer environment of the party.
- 0170 Segment group 4: GIS-DTM-PNA-RFF  
A group of segments to describe the action taken by the party upon receipt of the interchange; it details the action itself, the date and time of the action, the party identification of a subsequent handler or recipient and any applicable reference numbers.
- 0180 GIS, General indicator  
A segment identifying the action taken by the service handler or message receiver.

- 0190 DTM, Date/time/period  
A segment reporting when the action took place.
- 0200 PNA, Party identification  
A segment indicating another party to whom the interchange has been forwarded, or error reporting has been made. Use C082 to carry the sender/receiver identification that would appear in the UNB header, or C816 to carry another form of identification.
- 0210 RFF, Reference  
A segment identifying any additional reference numbers relating to the interchange in the context of this party.
- 0220 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 Data segment index (Alphabetical sequence by tag)

ADR Address  
BGM Beginning of message  
CED Computer environment details  
COM Communication contact  
CTA Contact information  
DSI Data set identification  
DTM Date/time/period  
GIS General indicator  
IRQ Information requested  
PNA Party identification  
RFF Reference  
STS Status  
UNH Message header  
UNT Message trailer

4.3 Message structure

4.3.1 Segment table

Pos	Tag Name	S	R
0010	UNH Message header	M	1
0020	BGM Beginning of message	M	1
0030	----- Segment group 1 -----	C	99
0040	DSI Data set identification	M	1
0050	DTM Data/time/period	M	1
0060	PNA Party identification	M	2
0070	IRQ Information requested	M	1
0080	STS Status	C	1
0090	----- Segment group 2 -----	C	99
0100	PNA Party identification	M	1
0110	ADR Address	C	1
0120	----- Segment group 3 -----	C	5
0130	CTA Contact information	M	1
0140	COM Communication contact	C	5
0150	RFF Reference	C	9
0160	CED Computer environment details	C	9
0170	----- Segment group 4 -----	C	9
0180	GIS General indicator	M	1
0190	DTM Date/time/period	M	1
0200	PNA Party identification	C	1
0210	RFF Reference	C	9
0210	UNT Message trailer	M	1

5. DIRECTORIES

5.1 Segment Directory

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ADR ADDRESS

Function: To specify an address.

010	C817	ADDRESS USAGE	C	
	3299	Address purpose, coded	C	an..3
	3131	Address type, coded	C	an..3
	3475	Address status, coded	C	an..3
020	C090	ADDRESS DETAILS	C	
	3477	Address format, coded	M	an..3
	3286	Address component	M	an..70
	3286	Address component	C	an..70
	3286	Address component	C	an..70
	3286	Address component	C	an..70
	3286	Address component	C	an..70
030	3164	CITY NAME	C	an..35
040	3251	POSTCODE IDENTIFICATION	C	an..9
050	3207	COUNTRY, CODED	C	an..3
060	C819	COUNTRY SUB-ENTITY DETAILS	C	
	3229	Country sub-entity identification	C	an..9
	1131	Code list qualifier	C	an..3
	3055	Code list responsible agency, coded	C	an..3
	3228	Country sub-entity	C	an..35
070	C517	LOCATION IDENTIFICATION	C	
	3225	Place/location identification	C	an..25
	1131	Code list qualifier	C	an..3
	3055	Code list responsible agency, coded	C	an..3
	3224	Place/location	C	an..70

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BGM BEGINNING OF MESSAGE

Function: To indicate the type and function of a message and to transmit the identifying number.

010	C002	DOCUMENT/MESSAGE NAME	C	
	1001	Document/message name, coded	C	an..3
	1131	Code list qualifier	C	an..3
	3055	Code list responsible agency, coded	C	an..3
	1000	Document/message name	C	an..35
020	C106	DOCUMENT/MESSAGE IDENTIFICATION	C	
	1004	Document/message number	C	an..35
	1056	Version	C	an..9
	1060	Revision number	C	an..6
030	1225	MESSAGE FUNCTION, CODED	C	an..3
040	4343	RESPONSE TYPE, CODED	C	an..3

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CED COMPUTER ENVIRONMENT DETAILS

Function: To give a precise definition of all necessary elements belonging to the configuration of a computer system like hardware, firmware, operating system, communication (VANS, network type, protocol, format) and application software.

010	1501	COMPUTER ENVIRONMENT DETAILS QUALIFIER	M	an..3
020	C079	COMPUTER ENVIRONMENT IDENTIFICATION	M	
	1511	Computer environment, coded	C	an..3
	1131	Code list qualifier	C	an..3
	3055	Code list responsible agency, coded	C	an..3
	1510	Computer environment	C	an..35
	1056	Version	C	an..9
	1058	Release	C	an..9
	7402	Identity number	C	an..35
030	9448	FILE GENERATING COMMAND	C	an..35

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COM COMMUNICATION CONTACT

Function: To identify a communication number of a department or a person to whom communication should be directed.

010	C076	COMMUNICATION CONTACT	M	
	3148	Communication number	M	an..512
	3155	Communication channel qualifier	M	an..3

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CTA CONTACT INFORMATION

Function: To identify a person or a department to whom communication should be directed.

010	3139	CONTACT FUNCTION, CODED	C	an..3
020	C056	DEPARTMENT OR EMPLOYEE DETAILS	C	
	3413	Department or employee identification	C	an..17
	3412	Department or employee	C	an..35

-----  
DSI DATA SET IDENTIFICATION

Function: To identify a data set.

010	C782	DATA SET IDENTIFICATION	M	
	1520	Data set identifier	M	an..35
	7405	Identity number qualifier	C	an..3
020	C082	PARTY IDENTIFICATION DETAILS	C	
	3039	Party identification	M	an..35
	1131	Code list qualifier	C	an..3
	3055	Code list responsible agency, coded	C	an..3
030	4405	STATUS, CODED	C	an..3
040	C286	SEQUENCE INFORMATION	C	
	1050	Sequence number	M	an..10
	1159	Sequence number source, coded	C	an..3
	1131	Code list qualifier	C	an..3
	3055	Code list responsible agency, coded	C	an..3

050 1060 REVISION NUMBER C an..6

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DTM DATE/TIME/PERIOD

Function: To specify date, and/or time, or period.

010 C507 DATE/TIME/PERIOD M  
2005 Date/time/period qualifier M an..3  
2380 Date/time/period C an..35  
2379 Date/time/period format qualifier C an..3

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GIS GENERAL INDICATOR

Function: To transmit a processing indicator.

010 C529 PROCESSING INDICATOR M  
7365 Processing indicator, coded M an..3  
1131 Code list qualifier C an..3  
3055 Code list responsible agency, coded C an..3  
7187 Process type identification C an..17

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IRQ INFORMATION REQUIRED

Function: To indicate which information is requested in a responding message.

010 C333 INFORMATION REQUEST M  
4511 Requested information, coded C an..3  
1131 Code list qualifier C an..3  
3055 Code list responsible agency, coded C an..3  
4510 Requested information C an..35

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PNA PARTY IDENTIFICATION

Function: To specify information necessary to establish the identity of a party.

010 3035 PARTY QUALIFIER M an..3

020 C206 IDENTIFICATION NUMBER C  
7402 Identity number M an..35  
7405 Identity number qualifier C an..3  
4405 Status, coded C an..3

030 C082 PARTY IDENTIFICATION DETAILS C  
3039 Party identification M an..35  
1131 Code list qualifier C an..3  
3055 Code list responsible agency, coded C an..3

040 3403 NAME TYPE, CODED C an..3

050 3397 NAME STATUS, CODED C an..3

060 C816 NAME COMPONENT DETAILS C  
3405 Name component qualifier M an..3  
3398 Name component C an..70  
3401 Name component usage, coded C an..3  
3295 Name component original representation, coded C an..3

070 C816 NAME COMPONENT DETAILS C

	3405	Name component qualifier	M	an..3
	3398	Name component	C	an..70
	3401	Name component usage, coded	C	an..3
	3295	Name component original representation, coded	C	an..3
080	C816	NAME COMPONENT DETAILS	C	
	3405	Name component qualifier	M	an..3
	3398	Name component	C	an..70
	3401	Name component usage, coded	C	an..3
	3295	Name component original representation, coded	C	an..3
090	C816	NAME COMPONENT DETAILS	C	
	3405	Name component qualifier	M	an..3
	3398	Name component	C	an..70
	3401	Name component usage, coded	C	an..3
	3295	Name component original representation, coded	C	an..3
100	C816	NAME COMPONENT DETAILS	C	
	3405	Name component qualifier	M	an..3
	3398	Name component	C	an..70
	3401	Name component usage, coded	C	an..3
	3295	Name component original representation, coded	C	an..3
110	1229	ACTION REQUEST/NOTIFICATION, CODED	C	an..3

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RFF REFERENCE

Function: To specify a reference.

010	C506	REFERENCE	M	
	1153	Reference qualifier	M	an..3
	1154	Reference number	C	an..35
	1156	Line number	C	an..6
	4000	Reference version number	C	an..35
	1060	Revision number	C	an..6

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STS STATUS

Function: To specify the status of an object or service, including its category and the reason(s) for the status.

010	C601	STATUS CATEGORY	C	
	9015	Status category, coded	M	an..3
	1131	Code list qualifier	C	an..3
	3055	Code list responsible agency, coded	C	an..3
020	C555	STATUS	C	
	4405	Status, coded	M	an..3
	1131	Code list qualifier	C	an..3
	3055	Code list responsible agency, coded	C	an..3
	4404	Status	C	an..35
030	C556	STATUS REASON	C	
	9013	Status reason, coded	M	an..3
	1131	Code list qualifier	C	an..3
	3055	Code list responsible agency, coded	C	an..3
	9012	Status reason	C	an..35
040	C556	STATUS REASON	C	
	9013	Status reason, coded	M	an..3

	1131	Code list qualifier	C	an..3
	3055	Code list responsible agency, coded	C	an..3
	9012	Status reason	C	an..35
050	C556	STATUS REASON	C	
	9013	Status reason, coded	M	an..3
	1131	Code list qualifier	C	an..3
	3055	Code list responsible agency, coded	C	an..3
	9012	Status reason	C	an..35
060	C556	STATUS REASON	C	
	9013	Status reason, coded	M	an..3
	1131	Code list qualifier	C	an..3
	3055	Code list responsible agency, coded	C	an..3
	9012	Status reason	C	an..35
070	C556	STATUS REASON	C	
	9013	Status reason, coded	M	an..3
	1131	Code list qualifier	C	an..3
	3055	Code list responsible agency, coded	C	an..3
	9012	Status reason	C	an..35

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## 5.2 Code Directory (significant codes)

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\* 1501 Computer environment details qualifier [B]

Desc: A code to identify the computer environment details.

Repr: an..3

1 Hardware platform

Code to identify the type of hardware installed in a computer environment e.g. PC, Mac, UNIX-Workstation, Mini, Mainframe.

2 Operating system

Code to identify the operating system, like DOS, VMS, etc. used in a computer environment.

3 Application software

Code to identify an application software, like AutoCad, WinWord, etc. used in a computer environment.

4 Network

Code to identify a network like Ethernet, Token Ring, etc. implemented in a computer environment.

5 Sending system

Code to identify the system, which acts as a sending system in an interchange.

+ 6 Translator

Code to identify an EDI translator

+ 7 VAN software

Code to identify VAN software being used in a computer environment

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\* 2005 Date/time/period qualifier [C]

Desc: Code giving specific meaning to a date, time or period.

Repr: an..3

243 Transmission date/time of document

Self explanatory.  
402 Document received date/time  
Date/time on which the document was actually received.  
+ 540 Action date/time  
Date and time an action occurred

---

3035 Party qualifier [C]

Desc: Code giving specific meaning to a party.

Repr: an..3

AK Acknowledgement recipient  
Party to whom acknowledgement should be sent.  
BU Service bureau  
Party carrying out service bureau processing work, (e.g.  
a payroll bureau).  
FA Operator, communication channel  
Operator of a communication channel.  
FR Message from  
Party where the message comes from.  
FX Current receiver  
Current receiver of the goods in a multi-step  
transportation process (indirect flow) involving at least  
one grouping centre.  
FY Current sender  
Current sender of the goods in a multi-step  
transportation process (indirect flow) involving at least  
one grouping centre.  
HN Service performer  
The party who is performing a service.  
MR Message recipient  
Self explanatory.  
MS Document/message issuer/sender  
Issuer of a document and/or sender of a message.  
OJ Third party  
Another party besides the two principals.  
RF Received from  
Name of a person or department which actually delivers  
the goods.

---

4405 Status, coded [C]

Desc: Code indicating the relative standing, condition or position.

Repr: an..3

2 Done  
The instruction has been completed.  
3 Passed on  
The information has been passed on.  
35 Started  
To specify an event has started.  
36 Revised  
To indicate a revision has been made.  
41 Rejected  
Item is rejected.  
46 Does not exist  
Non existent.

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4511 Requested information, coded [B]

Desc: To specify the information requested in a responding message in a coded form.

Repr: an..3

- + 20 Interchange status  
Information about the status of the interchange is requested
- + 21 Interchange routing status  
Information about the routing and status of the interchange is requested

-----  
\* 7365 Processing indicator, coded [C]

Desc: Identifies the value to be attributed to indicators required by the processing system.

Repr: an..3

- 1 Message content accepted  
Content of message is accepted.
- 2 Message content rejected with comment  
Content of message is rejected, with comment.
- 3 Message content rejected without comment  
Content of message is rejected, without comment.
- 12 Sender not allowed the message type  
The sender is not allowed to send the message type which was sent.
- 13 Message type not supported  
The message type is not supported by the recipient.
- 17 Message received  
Message has been received.
- + 94 Interchange forwarded to third party  
The interchange has been forwarded to a third party.
- + 95 Interchange rejected  
The interchange has been rejected.
- + 96 Interchange delivered to recipient's mailbox  
The interchange has been delivered to the recipient's mailbox, but not picked up by the recipient.
- + 97 Interchange held for forwarding  
The interchange is held pending forwarding
- + 98 Interchange received  
The interchange has been received
- + 99 Interchange headers rejected  
The interchange has been rejected because there are errors in the envelope segments

-----  
\* 7405 Identity number qualifier [C]

Desc: Code specifying the type/source of identity number.

Repr: an..3

- + IN Interchange control number  
Control number assigned to an EDI interchange in the UNB header segment
-