

VOLVO

Applications of ODETTE

9308-2
(970723)

Volvo Data Corp.

Dept 2650

405 08 Göteborg

Preface

General

This document describes Volvo's application of the ODETTE data communications standard.

The name " Volvo " refers throughout the document to:

- Volvo Truck Corporation
- Volvo Car Corporation
- Volvo Penta
- Volvo Aero
- Volvo Transport
- Volvo Wheel Loaders
- Volvo Buss
- Volvo Articulated Haulers

and all companies owned by these corporations.

This document is a more detailed and precise version of previously issued ODETTE information. The intention is that information in this document is to form the basis for practical application by suppliers and Volvo.

Volvo's suppliers can use the document to obtain the following detailed information:

- Setting-up of COMMUNICATION
- Application of " ISO/EDIFACT SYNTAX "
- Application of " TRANSPORT LABEL "
- Application of " DELIVERY SCHEDULE "
- Application of " CALL-OFF "
- Application of " DESPATCH ADVICE "
- Application of " COMMERCIAL INVOICE "
- Application of " SYNCRO "
- Application of " KANBAN "
- Application of " ENGDAT "

Additional information and amendments will be distributed whenever necessary.

Explanation of M and C

In detailed applications in this documentation we are using M and C to describe which segments and data elements that are mandatory (M) and conditional (C).

Each data element's length and representation is also described. Descriptions within brackets, are in accordance with the Odette's specification.

See example below.

CDT CONSIGNOR DETAILS M(M)

Volvo's identity of the supplier.

3296 Internal ID. No

M(C) an..10(an..17)

VOLVO	1
PREFACE	1
1.0 GENERAL AGREEMENT	8
2.0 COMMUNICATION	8
2.1 SPECIFICATIONS	8
2.2 AGREEMENT REGARDING COMMUNICATION.....	9
2.3 SECURITY.....	11
COMMUNICATION AGREEMENT (X25).....	12
COMMUNICATION AGREEMENT (ISDN).....	13
3.0 APPLICATION OF ISO/ EDIFACT AND OFTP	14
3.1 GENERAL	14
3.2 TRANSFER STRUCTURE	15
3.2.1 SERVICE SEGMENT.....	16
3.2.2 SEPARATORS.....	16
3.2.3 CHARACTER SETS.....	16
3.2.4 IDENTIFICATION OF PARTNERS	17
3.3 DETAILED APPLICATION	20
3.4 EXPLANATION OF THE EDI FORM. (APPLICATION AGREEMENT)	24
<i>Example of Volvo Truck Corp. Göteborg form</i>	25
<i>Application Agreement</i>	26
VOLVO TRUCK CORPORATION GOTHENBURG, VOLVO BUS CORP. BORÅS	26
<i>Application Agreement</i>	27
VOLVO BUS CORP. BORÅS.....	27
<i>Application Agreement</i>	28
VOLVO PARTS CORPORATION	28
<i>Application Agreement</i>	29
VOLVO TRUCK COMPONENTS FLEN.....	29
<i>Application Agreement</i>	30
VOLVO TRUCK COMPONENTS KÖPING.....	30
<i>Application Agreement</i>	31
VOLVO TRUCK COMPONENTS SKÖVDE.....	31
<i>Application Agreement</i>	32
VOLVO TRUCK CORP. UMEÅ	32
<i>Application Agreement</i>	33
VOLVO AERO TRUCK ENGINE PARTS DIVISION.....	33
<i>Application Agreement</i>	34
VOLVO EUROPE TRUCK	34
APPLICATION AGREEMENT.....	35
VOLVO TRUCK CORPORATION SCOTLAND	35
<i>Application Agreement</i>	36
VOLVO GM HEAVY TRUCK CORPORATION	36
<i>Application Agreement</i>	37
VOLVO TRUCK AUSTRALIA LTD	37
<i>Application Agreement</i>	38
VOLVO DO BRASIL	38
<i>Application Agreement</i>	39
VOLVO CAR CORPORATION	39
<i>Application Agreement</i>	40
VOLVO CAR CORPORATION AFTERSALES	40
<i>Application Agreement</i>	41

VOLVO CAR CORPORATION KÖPING	41
<i>Application Agreement</i>	42
VOLVO CAR CORPORATION OLOFSTRÖM.....	42
<i>Application Agreement</i>	43
VOLVO CAR CORPORATION SKÖVDE	43
<i>Application Agreement</i>	44
VCC ENGINE CENTRE GENT - ECG.....	44
<i>Application Agreement</i>	45
VCC ENGINE CENTRE TORSLANDA - ECT.....	45
<i>Application Agreement</i>	46
VOLVO WHEEL LOADERS AB	46
<i>Application Agreement</i>	47
VOLVO WHEEL LOADERS AB	47
<i>Application Agreement</i>	48
VOLVO WHEEL LOADERS AB	48
<i>Application Agreement</i>	49
VOLVO ARTICULATED HAULERS AB	49
<i>Application Agreement</i>	50
VOLVO PENTA PARTS	50
<i>Application Agreement</i>	51
ALL OTHER COMPANIES	51
4.0 VOLVO'S APPLICATION OF ODETTE TRANSPORT LABEL VERS.1 REV. 3.1.....	52
4.1 SUMMARY OF THE ELEMENTS OF THE LABEL.....	52
4.2 SIZE, MATERIALS AND PRINT	54
4.3 DATA AREA CHARACTERISTICS	55
<i>Type of font</i>	55
<i>Data Areas and Titles</i>	55
<i>Data Identifier Codes</i>	55
<i>Receiver area</i>	55
<i>Dock and Gate area</i>	55
<i>Document number area</i>	55
<i>Supplier's address area</i>	55
<i>Net weight area</i>	56
<i>Gross weight area</i>	56
<i>Number of boxes area</i>	56
<i>Part number area</i>	56
<i>Quantity area</i>	56
<i>Description area</i>	56
<i>Logistics reference area</i>	57
<i>Supplier code area</i>	57
<i>Date area</i>	57
<i>Engineering change area</i>	57
<i>Serial number area</i>	57
<i>Batch number</i>	57
<i>Indicators</i>	58
4.4 BAR CODE SYMBOLOGY	58
<i>Code Configuration</i>	58
<i>Code Density and Dimensions</i>	58
<i>Inter-character gap</i>	59
<i>Quiet zones</i>	59
<i>Quality Assurance Requirements</i>	59
4.5 TRANSPORT LABEL STRUCTURE	60
<i>Master Label for transport unit "S"</i>	61
<i>Master Label Multiple, Common Item Pack "M"</i>	62
<i>Master Label Mixed Item Pack "G"</i>	63
4.6 COMPARISON BETWEEN DATA ELEMENTS IN REVISION 2 AND 3.1.....	64
<i>Key to Summary of Transport Label Data</i>	65

4.7 AFFIXING AND PLACING OF THE LABEL.....	65
<i>Placing</i>	65
5.0 APPLICATION OF DELIVERY SCHEDULE (DELINS VERSION 3) WITHIN VOLVO.....	67
5.1 GENERAL.....	67
5.2 FILE STRUCTURE.....	68
5.3 DETAILED MESSAGE APPLICATION.....	69
5.4 EXAMPLE OF VOLVO TRUCK CORP'S APPLICATION.....	77
5.5 EXAMPLE OF VOLVO CAR'S APPLICATION.....	78
6.0 APPLICATION OF CALL-OFF (CALL-OFF VERSION 3) WITHIN VOLVO.....	79
6.1 GENERAL.....	79
6.2 CALL-OFF CONTENTS AND DEVELOPMENT.....	79
6.3 CALL-OFF SCHEDULE CONTRA DELIVERY SCHEDULE.....	80
6.4 FILE STRUCTURE.....	81
6.5 DETAILED MESSAGE APPLICATION.....	82
6.6 EXAMPLE OF APPLICATION.....	90
7.0 APPLICATION OF DESPATCH (AVIEXP VERSION 3) WITHIN VOLVO.....	91
7.1 GENERAL.....	91
7.2 THE PURPOSE AND BASIC FUNCTION OF THE MESSAGE.....	91
7.3 DESPATCH ADVICE VIS.A.VIS DOCUMENT.....	92
7.4 CREATION OF A DESPATCH ADVICE.....	92
7.5 STRUCTURE AND BASIS OF THE AVIEXP.....	93
7.6 DETAILED APPLICATION.....	94
<i>Conditional segments</i>	94
<i>Conditional data elements</i>	94
7.7 EXAMPLES OF APPLICATION.....	112
8.0 APPLICATION OF COMMERCIAL INVOICE (INVOIC) FOR PRODUCTION MATERIAL WITHIN VOLVO.....	115
8.1 GENERAL.....	115
8.2 PURPOSE AND BASIC FUNCTION OF MESSAGE.....	115
8.3 DOCUMENTATION REQUIREMENTS IN CONNECTION WITH ELECTRONIC INVOICING.....	116
8.4 CREATION AND ISSUE OF INVOICE.....	116
8.5 STRUCTURE AND BASIS OF THE INVOIC.....	117
8.6 DETAILED APPLICATION.....	118
<i>Conditional segments</i>	118
<i>Conditional data elements</i>	118
8.7 EXAMPLES OF APPLICATION.....	130
9.0 APPLICATION OF SYNCRO MESSAGE WITHIN VOLVO.....	131
9.1 GENERAL.....	131
9.2 FILE STRUCTURE.....	132
9.3 DETAILED APPLICATION.....	133
9.4 EXAMPLE OF APPLICATION.....	138
10.0 APPLICATION OF KANBAN MESSAGES WITHIN VOLVO.....	139
10.1 GENERAL.....	139
10.2 CONTENTS AND DEVELOPMENT.....	139
10.3 FILE STRUCTURE.....	140
10.4 DETAILED APPLICATION.....	141
10.5 EXAMPLE OF APPLICATION.....	144
11.0 APPLICATION OF ENGINEERING DATA (ENGDAT VERSION 1) WITHIN VOLVO.....	145
11.1 GENERAL.....	145
11.2 THE PURPOSE OF THE MESSAGE.....	146
11.3 STRUCTURE OF THE FILE NAMES.....	146

11.4 FILE STRUCTURE	147
11.5 DETAILED APPLICATION OF ENGDAT.....	148
11.6 EXAMPLE OF APPLICATION	156
APPENDIX 1.....	157
VOLVO'S IDENTIFICATION OF CONSIGNEE.....	157
APPENDIX 2.....	162
<i>Detailed description of how DELINS and SYNCRO are used.....</i>	<i>162</i>
1.0 VOLVO TRUCK INDUSTRIAL, GÖTEBORG AND VOLVO BUS, BORÅS IMPLEMENTATION.....	162
1.1 DELINS	162
1.1.1 Delivery schedule subdivisions.....	162
1.1.2 Creation of a delivery schedule.....	162
1.1.3 Specification of delivery schedule call-offs	162
1.2 SYNCRO	163
1.2.1 Sequence.....	163
1.2.3 Direct 2.....	163
2.0 VOLVO TRUCK UMEÅ'S APPLICATION.....	164
2.1 DELINS	164
2.2 SYNCRO	165
3.0 VOLVO CAR CORPORATION IMPLEMENTATION	166
3.1 DELINS	166
3.1.1 Principle subdivision of delivery schedules.....	166
3.1.2 Creation of delivery schedules	166
3.1.3 File structure	166
3.2 SYNCRO	167
4.0 VOLVO CAR CORPORATION, AFTERSALES IMPLEMENTATION OF THE DELINS MESSAGE.....	168
4.1 CREATION OF THE DELIVERY SCHEDULE	168
4.2 REVISION OF THE CURRENT DELIVERY SCHEDULE?	168
4.3 THE DELIVERY SCHEDULE CALL-OFFS ARE SPECIFIED AS FOLLOWS:	168
4.4 CONFIRMATION OF DELIVERY SCHEDULES	169
5.0 VOLVO TRUCK PART'S IMPLEMENTATION OF THE DELINS MESSAGE.....	170
5.1 CREATION OF A DELIVERY SCHEDULE	170
5.2 REVISION OF A CURRENT DELIVERY SCHEDULE?	170
5.3 DELIVERY SCHEDULE CALL-OFFS ARE SPECIFIED AS FOLLOWS:	170
5.4 CONFIRMATION OF DELIVERY SCHEDULES	171
6.0 VOLVO WHEEL LOADERS IMPLEMENTATION OF THE DELINS MESSAGE.....	172
6.1 DELIVERY SCHEDULE.....	172
6.2 CREATION OF A DELIVERY SCHEDULE	172
6.3 FILE STRUCTURE	173
7.0 VOLVO ARTICULATED HAULER'S IMPLEMENTATION OF THE DELINS MESSAGE.....	174
7.1 DELIVERY SCHEDULE.....	174
7.2 CREATION OF A DELIVERY SCHEDULE	174
APPENDIX 3.....	175
CONTACT PERSONS	175
APPENDIX 4.....	179
CODE OF CARRIER	179
APPENDIX 5.....	187
COUNTRY CODES AND CURRENCY CODES	187
SORT CODES.....	187
CODES FOR ADDITIONAL EXPENSES	188
CODES FOR FILE FORMAT	188
DATA CODE.....	189
FILE STATUS CODES.....	189
CODES FOR LINK PURPOSE.....	189

APPENDIX 6.....	190
ENGDAT VERSION 1	190
AVIEXP	190
INVOIC.....	191
SYNCRO	191
<i>Amendment of text.....</i>	<i>191</i>
APPENDIX 7	192
CONSIGNMENT DOCUMENT	192
<i>Despatch note / Invoice copy</i>	<i>192</i>
<i>General.....</i>	<i>192</i>
<i>Documentation</i>	<i>192</i>
<i>Consignment.....</i>	<i>193</i>
<i>Paper documents vs AVIEXP</i>	<i>193</i>
<i>Information in documents.....</i>	<i>193</i>
<i>Despatch note / Invoice copy</i>	<i>194</i>
APPENDIX 8.....	195
VOLUME INFORMATION FOR FREQUENT STANDARD PACKAGING	195
<i>Standard pallet.....</i>	<i>195</i>
<i>Combitainers</i>	<i>196</i>
APPENDIX 9	197
PACKAGING REPORTS	197

1.0 General Agreement

Volvo intend to implement EDI communication in accordance with the ODETTE standard with their suppliers, and between the various companies within Volvo.

The technology will be progressively introduced and will basically apply to all suppliers and companies within Volvo.

Establishment of computer-to-computer communication will take place in two stages:

- 1 Establishment of communication
- 2 Implementation of Odette messages

Stage 1 COMMUNICATION

All Volvo companies communicate via Volvo Data.

In normal circumstances, ONE of Volvo's companies tests the communication with your company. Before this communication test takes place, a number of identities and parameters must be finalised and documented. Detailed information is given under inserts 2 and 3.

When the technical preparations for EDI communication have been completed and the agreed information has been registered in each system, a communication test will be performed. The test consists of:

Communications test

Test files are transmitted or received for formal checks of both syntax and agreed message content.

the relevant company within Volvo will test for approval before activation (production) starts.

Stage 2 APPLICATIONS

The ODETTE message which are implemented at Volvo are currently:

DELINS Delivery schedule

CALL-OFF Call-off schedule

AVIEXP Despatch advice

INVOIC Commercial invoice

SYNCRO Sequence/direct delivery

KANBAN Despatch order

ENGDAT Engineering data

In theory, it is sufficient if a message has been tested and approved by one company within Volvo, to permit the message to be used in production for all companies in the groups, but we would recommend that all suppliers should always test together with each individual company in Volvo before a message is taken into production. This is to give the individual companies at Volvo the opportunity of testing the application in their internal systems.

The messages that are used at individual companies can be found at the end of Section 3, where there is an Application Agreement for each company.

When the first contact is made, it is a good idea to pass on information about and discuss the messages which are going to be implemented between the parties. At this time, the sender and recipient should make a note of details such as:

file names and

versions handled in each message

In normal circumstances, DELINS is implemented first, followed by AVIEXP and INVOIC. When the implementation of a message has been completed, either the Volvo company or the supplier can take the initiative and conduct a test and implement the next message.

Delivery schedule DELINS

Implementation of the delivery schedule is primarily aimed at ensuring that data from the various companies in Volvo can directly update the supplier's order system via computer-to-computer communication. Each supplier is of course free to perform a complete implementation of such direct updating in stages.

Call-off CALL-OFF

This message, which is a special implementation of DELINS, is used to update the delivery schedule with call-off information and changes in quantity and/or delivery date. The call-off schedule can update a varying number of weeks in the delivery schedule and should not replace the entire delivery schedule, it only updates within the specified time interval.

The message can be sent with optional frequency, but transmissions are usually made weekly.

Despatch advice AVIEXP

Despatch advice shall normally be sent within an hour of goods consignment.

Implementation of the AVIEXP message is normally done once the delivery schedule is in production.

Commercial invoice INVOIC

Implementation of the INVOIC message is normally done once delivery schedule DELINS and despatch note AVIEXP have been put into production.

Sequence/direct control SYNCRO

This message is normally only implemented after special agreement. The message is implemented in parallel with the DELINS message.

Despatch order KANBAN

Use of the KANBAN message is agreed individually with each supplier as appropriate. The KANBAN message can either be used in parallel with DELINS or as the only call off information.

Engineering data ENGDAT

This message is only implemented after special agreement with the different Volvo Companies. The ENGDAT message is used as a delivery note for the different technical documents that are distributed in an exchange between a Volvo Company and its partners.

2.0 Communication

2.1 Specifications

Network service and protocol

Volvo communicates point-to-point over the public switched network service based on X.25. As file transfer protocol, OFTP will be used (Odette ref: OD.G4/86/090).

Asynchronous access (X28) may be used in exceptional cases. This should be approved by the suppliers client within Volvo. If a partner prefers to use a third party, e.g. a clearing centre or a VAN, he may do so but the partner must then accept sole responsibility for his relationship with the third party. Volvo stipulates however, that the third party must communicate to Volvo using X.25 and OFTP, i.e. the same principles which govern direct communications.

To the commercial agreement between the supplier and Volvo is appended a part, which specifies that the supplier takes the total cost within the VAN.

File names

Volvo will base file transmission on predefined file names, specific for each application. Defining these names is part of the necessary preparation before an application can be used. The file names will be registered at Volvo, so Volvo is not able to receive file names with other names than those agreed upon.

Note:

Please note that the ENGDAT application is exception from the above rule. Odette's ENGDAT specification stipulates that only the first 3 positions in the file name can be defined in advance. These 3 positions are **always** 'ENG'. For a more detailed description of file names, see Chapter 11 and Odette's ENGDAT specification Version 1.

File format

Volvo supports different file formats. The standard format is fixed blocked 80 positions, but those partners who wish to use another format may choose among:

- Fixed (F) record format of arbitrary length.
- Variable (V) record format of arbitrary length. Each record should contain one segment.
- Undefined (U) format.

Code representation

Both ASCII and EBCDIC standards are supported by Volvo. ASCII is the standard option, so those partners who wish to use EBCDIC have to stipulate this.

2.2 Agreement regarding communication

The enclosed form is intended as a basis for an agreement relating to communication. Suppliers wishing to initiate Odette communication with Volvo are requested to fill in the form and return it to:

Volvo Data Corporation
"Communication Agreement"
Dept. 2650
S - 405 08 Göteborg
Sweden

We will then contact the supplier and arrange for a communication test.

Volvo has chosen to coordinate all communication through Volvo Data. Therefore it is enough to return only one communication agreement, irrespective of how many Volvo companies a supplier wants to communicate with.

Comments regarding the form:

Physical address

Odette's implementation group has developed recommendations for so-called physical addressing. Each country works out its own addresses based on these recommendations. In Sweden, where the physical address is based on the tax authority's company code, it looks like:

PHYSICAL ADDRESS 00942000099999999999XXXXXX
where, O = Qualifier for Odette.
0942 = Number for the Swedish Tax Board company
code.
0000999999999999 = The Swedish Tax Board company
code.
XXXXXX = Internal code per company.

This syntax for the physical address must be used. If necessary, ask your software supplier for help. For other countries, please contact your national Odette organisation.

Network user identification (NUA)

This is the user's subscription number in X.25 network. The layout is defined in the X.121 standard by CCITT. The first four digits is a network identifier (DNIC), e.g. the Swedish Datapak 2 has 2403. The DNIC is followed by the network terminal number (NTN) with a maximum length of 10, sub-address included.

Stand-by

The stand-by are the hours that the communication system is available. Volvo has a 24 hour stand-by, and if possible, we want the partner to have the same. If not, it is important that a stand-by is agreed upon with Volvo. For instance, the partner might be available every night between 1700-0700. Files shall not be queued up for several days at Volvo.

Password

For communication using OFTP there are two passwords defined, one for each partner. These are alphanumeric with a maximum length of 8 characters. On the form Volvo's send password is already filled in. The partner shall fill in his password in the corresponding space.

2.3 Security

A few comments about access violation when using Odette and X.25. There are, of course, some risks in using a public network for communication, but we believe that the security level in the OFTP is enough for the time being. The OFTP makes it possible to use both user identifications and passwords. Volvo's application also checks the NUA of the incoming call. Even if someone should be able to access an Odette system the possible damages are small. It is only possible to pick up files or to send false files. To be able to make any sense of the contents of a file, it is necessary to know both Odette syntax and some specific information concerning the companies involved. To have a good stand-by in the application thereby avoiding that files are queued for a long time, improves the security a great deal.

Some applications, like customs data handling, carry rigorous requirements in the form of seals and so on. In such cases, these requirements are met by applications outside Volvo Data's central EDI system.

Communication agreement (X25)

	Volvo	Communication partner
Company Name Address	Volvo Data S-405 08 Göteborg Sweden Fax No +46 31 66 26 26	Supplier Number
Physical address	O094200005561032698000RVD	
Network Service	DATAPAK 2 (The Swedish public X 25 service)	
Network address (NUA)	24037221208	
Communication Product name	RVS	
Communication Product, Origin	Volkswagen Germany	
Stand-by	00-24 Sunday 00-17	
Contact Name	EDI-support Department 2650	
Phone No/ Fax No	+46 31 66 22 00 / +46 31 66 22 01	
Test Contact Name	EDI-support Department 2650	
Phone No/ Fax No	+46 31 66 22 00 / +46 31 66 22 01	
Password to be received		VOLRVD
General		Test Report
Network standard	X 25, native	
Protocol standard	OFTP	
Test start date		
Prod start date		
Remarks		

Communication Agreement (ISDN)

	Volvo	Communication partner
Company Name Address	Volvo Data S-405 08 Göteborg Sweden Fax No +46 31 66 26 26	Supplier Number
Physical address	00942000055610326980ISDN1	
Network Service	ISDN	
Network address (NUA)	+46 31 649852	
Communication Product name	RVS	
Communication Product, Origin	Volkswagen Germany	
Stand-by	00-24 Sunday 00-17	
Production contact	EDI Support Department 2650	
Phone No/ Fax No	+46 31 66 22 00 / +46 31 66 22 01	
Test Contact Name	EDI Support Department 2650	
Phone No/ Fax No	+46 31 66 22 00 / +46 31 66 22 01	
Password to be received		VOLCAD
General		Test Report
Network standard		
Protocol standard	OFTP	
Test start date		
Prod start date		
Remarks		

3.0 Application of ISO/ EDIFACT and OFTP

3.1 General

At the end of 1987, the ISO (International Standardisation Organisation) adopted a general set of rules for the construction of standardized data messages between the industrial, commercial and transport sectors. The rules and syntax were presented in ISO/EDIFACT DIS 9735.

Odette has decided to apply certain ISO/EDIFACT recommendations. This application is presented in the document entitled " Odette application of ISO/EDIFACT - June 1988 Version 3 " .

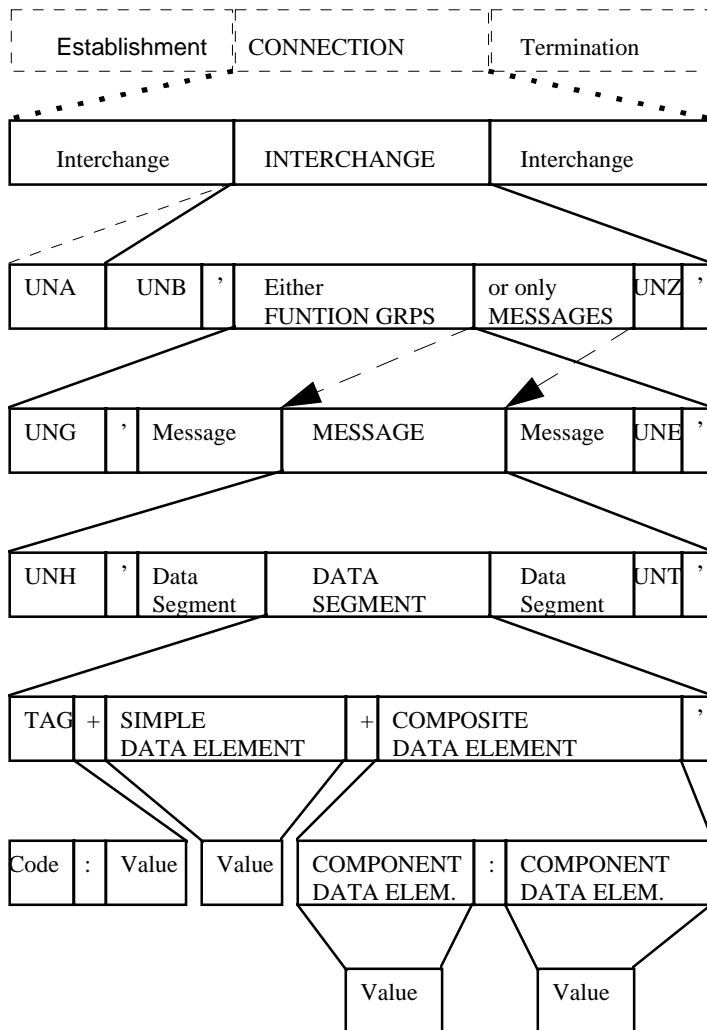
Among the cornerstones of the syntax we find the following:

- Transfer structure
- Service segment (UNB, UNH, UNT, UNZ etc.)
- Separators
- Character sets (abc, ABC)
- Partner Identification

For further information, we recommend you to study the ISO/EDIFACT specification.

3.2 Transfer structure

Transfer according to ISO/EDIFACT follow a hierarchical pattern. The diagram below is from the ISO/EDIFACT specification.



3.2.1 Service segment

Only UNB and UNH and the corresponding final trailer segments UNZ and UNT are used. For a better understanding of the details below, please refer to ISO/EDIFACT 9735 or Odette's implementation of ISO/EDIFACT.

3.2.2 Separators

The following characters are reserved for special use in ISO/EDIFACT:

- + Segment tag and data element separator
- : Component data element separator
- ‘ Segment terminator
- ? Release character

3.2.3 Character sets

Volvo supports both level A and level B. Level A only involves UPPER CASE letters. The character sets are specified in section 5 in ISO/EDIFACT. It is crucial that only internationally recognised characters (A-Z) are used.

Volvo recommends the use of only level A wherever possible.

3.2.4 Identification of partners

ODETTE has tried to use existing code systems for identification of partners. This applies to both physical and logical addresses. However, the various data messages make use of current methods of identifying partners. This means for instance, that each supplier receives a supplier number from each customer and that it is the responsibility of the supplier to keep track of this number.

As regards physical and logical addressing, the rules defined for each country participating in Odette are to apply. For Sweden, the Mechanical engineering Association has defined the following structures, one for the Physical and two for the Logical Address.

```
PHYSICAL ADDRESS 00942000099999999999XXXXXX
```

```
where,          O = (letter O) for Odette  
                0942 = Code for the Swedish National Tax  
                   Board  
0000999999999999 = National Tax Board company code  
                XXXXXX = Internal code/company
```

```
(The Physical Address is used in the OFTP software)
```

Logical address (UNB 0004/0010)

Together with the qualifier, these data elements produce a unique global identity for the sender or recipient. It is important that the logical address is based on the recommendations specified by the national Odette organisations.

Qualifier (UNB 0007)

Refers to the logical address (0004/0010). A level of significance is given to the logical address, depending on the value allocated to the qualifier. A value of OD or 30 shows that Odette's rules apply to the logical address.

Logical addresses with the qualifier OD are in accordance with the former rules for the logical address. This qualifier have been replaced by qualifier = 30. If the software or the network restrict the use of qualifier 30, shall a special agreement established. Volvo will use the latter for new installations.

Internal code per company (UNB 0008(0014))

Can be used to address a unit/business process within a company.

Examples of logical addresses

```
LOGICAL ADDRESS UNB 0004/0010 using qualifier UNB 007 =OD
09420000999999999999YYYYYY
```

where, 0942 = Code for the Swedish National Tax Board
0000999999999999 = National Tax Board company code
YYYYYY = Internal code per company

```
LOGICAL ADDRESS UNB 0004/0010 using qualifier UNB 0007 =30
09420000999999999999
```

where, 0942 = Code for the Swedish National Tax Board
0000999999999999 = National Tax Board company code

```
UNB 0008/0014 using qualifier UNB 0007 = 30
YYYYYY = Internal code per company
```


3.3 Detailed application

Here follows a detailed example of the relevant service segments (UNB, UNH, UNT and UNZ). The example refers to the delivery schedule for the Volvo Truck Corporation (VTC).

The syntax follows the same principles when dealing with application of despatch advice and invoices. The difference is that the sender and receiver change places, and also that other application references are used. For more detailed information see message description.

UNB	INTERCHANGE HEADER	(M)
	The first record in a data file relating to VTC should have the following layout: UNB+UNOA:1+094200005560139700:30:001001+094200005566778899:30:YYYYYY+940614:1735+1'	
S001	SYNTAX IDENTIFIER M(M)	
0001	Syntax identifier	M(M) a4(a4)
	Format UNOA or UNOB. UNO, standing for Edifact syntax, followed by a code for character set level A or B.	
0002	Syntax Version number	M(M) n1(n1)
	Syntax version. So far version 1.	
S002	INTERCHANGE SENDER M(M)	
0004	Sender Identification	M(M) an..24(an..35)
	Logical Address, detailed information see Chapter 3.2.4.	
0007	Partner identification code qualifier	M(C) an2(an..4)
	Detailed information see Chapter 3.2.4	

0008	Address for reverse routing	C(C) an14(an..14)
	Detailed information see Chapter 3.2.4.	
S003	INTERCHANGE RECIPIENT	(M)
0010	Recipient Identification	M(M) an..24(an..35)
0007	Partner Identification code qualifier	M(C) an2(an..4)
	Detailed information see Chapter 3.2.4.	
0014	Routing Address	C(C) an14(an..14)
	Detailed information see Chapter 3.2.4.	
S004	DATE/TIME OF PREPARATION	(M)
0017	Date	M(M) n6(n6)
	Date of preparation (YYMMDD).	
0019	Time	M(M) n4(n4)
	The time when interchange was prepared. The time is written HHMM.	
0020	INTERCHANGE CONTROL REFERENCE	M(M) an..14(an..14)
	Unique serial no./recipient and interchange type.	
0026	APPLICATION REFERENCE	C(C)an..14(an..14)

UNH	MESSAGE HEADER	(M)
	<p>The beginning of every message in a transferred data file must have a UNH segment. The introduction for the DELINS message would look like this: UNH+1+DELINS:3::OD'</p>	
0062	MESSAGE REFERENCE NUMBER	M(M) an..14(an..14)
	<p>Unique serial number within the interchange. If the same type of message occurs several times during the transfer, each new occurrence of the message will get the next serial no. In the sequence.</p>	
S009	MESSAGE IDENTIFIER	(M)
0065	Message type	M(M) an..6(an..6)
0052	Message version number	M(M) n..3(n..3)
	<p>Current version of the message.</p>	
0051	Controlling agency	M(M) an..2(an..2)
	<p>For Odette use OD.</p>	

UNT	ESSAGE TRAILER	(M)
	Every message in the transmission is concluded with a trailer segment. This segment contains the following information: UNT+657+1'	
0074	NUMBER OF SEGMENTS IN THE MESSAGE	M(M) n..6(n..6)
	No. of segments in the message (incl. UNH and NT).	
0062	MESSAGE REFERENCE NUMBER	M(M) an..14(an..14)
	Unique serial number within the interchange. Must match corresponding reference in UNH (see above).	
UNZ	INTERCHANGE TRAILER	(M)
	Every transmission is concluded with a trailer segment. This segment contains the following information UNZ+2+1'	
0036	INTERCHANGE CONTROL COUNT	M(M) n..6(n..6)
	No. Of messages in the transmission (irrespective of message type).	
0020	INTERCHANGE CONTROL REFERENCE	M(M) an..14(an..14)
	Must match corresponding reference in UNB (see above).	

3.4 Explanation of the EDI form. (Application Agreement)

The EDI form shall be filled in when the supplier wishes to send or receive EDI messages. There are forms for several different companies, as well as one for those companies who have not yet started with Odette, but where Volvo Transport needs the despatch advices. It is important that the form is correctly filled in, to avoid delayed installation.

Contact person Existing contact persons.

Phone No. Fax No. Fill in the contact persons
phone No and Fax No.

Identity of the supplier Fill in Volvo's supplier number
on your company.

Logical address See Chapter 3.

Code representation See Chapter 2.

Format See Chapter 2.

Virtual File Name One suggestion of the virtual file name is already written, if another file name is desired, this must be altered. Volvo Car Corp. file name must be completed with four characters of your own choice.

Message type and version Mark a cross, message type
and ONE version.

Code on Volvo Write your company's identity
of the Volvo company.

See example on next page.

Application Agreement**Example of Volvo Truck Corp. Göteborg form**

Send this form to:								
Volvo Truck Corporation Dept 29912 LA32 405 08 Göteborg Fax No + 46 31 66 44 10								
Supplier name	Supplier Corporation							
address	Supplier Road 30							
	1234 56 Supplierville							
Contact name	John Doe							
Phone No. Fax No.	+ 44 123 123456 + 44 123 654321							
Volvos ID on supplier (Supplier No)	12345							
Technical details:								
Logical Address	UNB 0004/0010	094200005566778899						
Qualifier	UNB 0007	30						
Internal Address	UNB 0008/0014	LEVAB1						
Code representation	ASCII							
File format	F/80							
Virtual file name for:								
Delins	Aviexp	Invoice	Syncro					
VTC/DELINS *	AVIEXP	INVOIC	VTC/SYNCRO					
Message type and version that should be transferred between companies:								
DEL V3	AVI V3	INV V3	SYN V2	Code on Volvo (BDT 3296)	Logical Address	Qual	Internal Address	Volvos fa No
X	X		X	ABCD1234	094200005560139700	30	001001	1001
X	X		X	ABCD1234	094200005560139700	30	001001	1024

* Test runs, i.e. e paper schedules and Ode transmission, for a maximum of 10 weeks, thereafter the paperschedules will be withdrawn.

Application Agreement

Volvo Truck Corporation Gothenburg, Volvo Bus Corp.Borås

Send this form to:									
Volvo Truck Corporation Dept 29910 LA13 405 08 Göteborg Fax No + 46 31 551963									
Supplier name									
address									
Contact name									
Phone No. Fax No.									
Volvos ID on supplier (Supplier No)									
Technical details:									
Logical Address		UNB 0004/0010							
Qualifier		UNB 0007							
Internal Address		UNB 0008/0014							
Code representation				ASCII/EBCDIC					
File format				F/80 V/recl U/recl					
Virtual file name for:									
Delins			Aviexp			Invoice		Syncro	
VTC/DELINS*			AVIEXP			INVOIC		VTC/SYNCRO....	
Message type and version that should be transferred between companies:									
DEL V3	AVI V3	INV V3	SYN V2	Code on Volvo (BDT 3296)	Logical address	Qual	Internal Address	Volvo s fa No	
					094200005560139700	30	001001	1001	
					094200005560139700	30	001001	1024	

* Test runs, i.e. paper schedules and Odette transmission, for a maximum of 10 weeks, thereafter the paperschedules will be withdrawn.

Application Agreement***Volvo Bus Corp. Borås***

Send this form to:							
Volvo Bus Corporation							
Dept 87130							
510 04 Borås							
Fax No + 46 33 254058							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical UNB							
Address 0004/0010							
Qualifier UNB 0007							
Internal UNB							
Address 0008/0014							
Code representation		ASCII/EBCDIC					
File format		F/80 V/recl U/recl					
Virtual file name for:							
						Syncro	
						BUS/SYNCRO...	
Message type and version that should be transferred between companies:							
SYN			Code on Volvo (BDT 3296)	Logical Address	Qual	Internal Address	Volvos fa No
V2				094200005560139700	30	001024	1024

Application Agreement***Volvo Parts Corporation***

Send this form to:							
Volvo Trucks							
Dept 30610 ARH7							
405 08 Göteborg							
Fax No + 46 31 66 10 50							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical Address		UNB 0004/0010					
Qualifier		UNB 0007					
Your internal address		UNB 0008/0014					
Code representation		ASCII/EBCDIC					
File format		F/80 V/recl U/recl					
Virtual file name for:							
Delins			Aviexp			Invoice	
PARTS/DELINS*			AVIEXP			INVOIC	
Message type and version that should be transferred between companies:							
DEL V3	AVI V3	INV V3	Code on Volvo (BDT 3296)	Logical Address	Qual	Internal address	Volvos fa No
				094200005560139700	30	004173	4173
				094200005560139700	30	014489	14489
				094200005560139700	30	005011	5011

* After agreed production start of this message, papercopies will be distributed inparallel with maximum 10 transmissions.

Application Agreement*Volvo Truck Components Flen*

Send this form to:							
Volvo Truck Components							
Box 300							
642 28 Flen							
Fax No + 46 157 12486							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical Address UNB 0004/0010							
Qualifier UNB 0007							
Your internal address UNB 0008/0014							
Code representation		ASCII/EBCDIC					
File format		F/80 V/recl U/recl					
Virtual file name for:							
Delins		Aviexp		Invoice			
VLFL/DELI NS*		AVIEXP		INVOIC			
Message type and version that should be transferred between companies:							
DEL	AVI	INV	Code on Volvo	Logical Address	Qual	Internal	Volvos
V3	V3	V3	(BDT 3296)			address	fa No
				094200005560000753	30	001680	1680

* Test runs, i.e. paper schedules and Odette transmission, for a maximum of 10 weeks, thereafter the paperschedules will be withdrawn.

Application Agreement***Volvo Truck Components Köping***

Send this form to:							
Volvo Truck Components							
Dept 7470							
73129 Köping							
Fax No + 46 221 16560							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical Address UNB 0004/0010							
Qualifier UNB 0007							
Your internal address UNB 0008/0014							
Code representation		ASCII/EBCDIC					
File format		F/80 V/recl U/recl					
Virtual file name for:							
Delins		Aviexp		Invoice			
VLKV/DELINS		AVIEXP		INVOIC			
*							
Message type and version that should be transferred between companies:							
DEL	AVI	INV	Code on Volvo	Logical Address	Qual	Internal	Volvos fa
V3	V3	V3	(BDT 3296)			address	No
				094200005560000753	30	001164	1164
				094200005560000753	30	001165	1165

* Test runs, i.e. paper schedules and Odette transmission, for a maximum of 10 weeks, thereafter the paperschedules will be withdrawn.

Application Agreement***Volvo Truck Components Skövde***

Send this form to:									
Volvo Truck Components									
Dept. 305207									
541 87 Skövde									
Fax No + 46 500 47 54 50									
Supplier name									
address									
Contact name									
Phone No. Fax No.									
Volvos ID on supplier (Supplier No)									
Technical details:									
Logical Address UNB 0004/0010									
Qualifier UNB 0007									
Your internal address UNB 0008/0014									
Code representation						ASCII/EBCDIC			
File format						F/80 V/recl U/recl			
Virtual file name for:									
Delins			Aviexp			Invoice		Call-Off	
VLKM/DELINS *			AVIEXP			INVOIC		VLKM/CALLOFF	
Message type and version that should be transferred between companies:									
DEL V3	AVI V3	INV V3	C-O V3	Code on Volvo (BDT 3296)	Logical Address	Qual	Internal address	Volvo s fa No	
					094200005560000753	30	001622	1622	

* Test runs, i.e. paper schedules and Odette transmission, for a maximum of 10 weeks, thereafter the paperschedules will be withdrawn.

Application Agreement***Volvo Truck Corp. Umeå***

Send this form to:								
Volvo Truck Corporation								
AVD 4230								
Box 1416								
901 24 Umeå								
Fax No + 46 90 70 76 00								
Supplier name								
address								
Contact name								
Phone No. Fax No.								
Volvos ID on supplier (Supplier No)								
Technical details:								
Logical Address UNB 0004/0010								
Qualifier UNB 0007								
Your internal address UNB 0008/0014								
Code representation			ASCII/EBCDIC					
File format			F/80 V/recl U/recl					
Virtual file name for:								
Delins			Aviexp		Invoic		Syncro	
VTCU/DELINS*			AVIEXP		INVOIC		VTCU/SYNCRO	
Message type and version that should be transferred between companies:								
DEL V3	AVI V3	INV V3	SYN V2	Code on Volvo (BDT 3296)	Logical Address	Qual	Internal address	Volvos fa No
					094200005560139700	30	001540	1540

* Test runs, i.e. paper schedules and Odette transmission, for a maximum of 10 weeks, thereafter the paperschedules will be withdrawn.

Application Agreement***Volvo Aero Truck Engine Parts Division***

Send this form to:							
Volvo Aero Truck Dept 3410 461 81 Trollhättan Fax No + 46 520 98562							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical Address UNB 0004/0010							
Qualifier UNB 0007							
Your internal address UNB 0008/0014							
Code representation		ASCII/EBCDIC					
File format		F/80 V/recl U/recl					
Virtual file name for:							
Delins		Aviexp			Call-Off		
VACP/DELINS*		AVIEXP			CALLOFF		
Message type and version that should be transferred between companies:							
DEL V3	AVI V3	C-O V3	Code on Volvo (BDT 3296)	Logical Address	Qual	Interna l addres s	Volvos fa No
				094200005560290347	30	001099	1099

* Test runs, i.e. paper schedules and Odette transmission, for a maximum of 10 weeks, thereafter the paperschedules will be withdrawn.

Application Agreement***Volvo Europe Truck***

Send this form to:								
Volvo Europe Truck afd. 55100 - BTA3 Smalleheerweg 31 Postbus 10 B-9041 GENT Belgium Fax No + 32 9 2516224								
Supplier name								
address								
Contact name								
Phone No. Fax No.								
Volvos ID on supplier (Supplier No)								
Technical details:								
Logical Address UNB 0004/0010								
Qualifier UNB 0007								
Your internal address UNB 0008/0014								
Code representation			ASCII/EBCDIC					
File format			F/80 V/recl U/recl					
Virtual file name for:								
Delins			Aviexp		Invoice		Syncro	
VET/DELINS*			AVIEXP		INVOIC		VET/SYNCRO	
Message type and version that should be transferred between companies:								
DEL V3	AVI V3	INV V3	SYN V2	Code on Volvo (BDT 3296)	Logical Address	Qual	Internal Address	Volvos fa No
					094200005560139700	30	004645	4645

* Test runs, i.e. paper schedules and Odette transmissions, for a maximum of 10 weeks, thereafter the paperschedules will be withdrawn.

*Application Agreement**Volvo Truck Corporation Scotland*

Send this form to:							
Volvo Truck and Bus Assembly							
Kilwinning Road							
Irvine							
Scotland KA12 8TB							
Fax No + 44 1294 272840							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical Address UNB 0004/0010							
Qualifier UNB 0007							
Your internal address UNB 0008/0014							
Code representation				ASCII/EBCDIC			
File format				F/80 V/recl U/recl			
Virtual file name for:							
Delins		Aviexp		Invoice			
VTGB/DEL INS*		AVIEXP		INVOIC			
Message type and version that should be transferred between companies:							
DEL	AVI	INV	Code on Volvo	Logical Address	Qual	Internal	Volvos fa
V3	V3	V3	(BDT 3296)			address	No
				094200005560139700	30	005071	5071

* Test runs, i.e. paper schedules and Odette transmission, for a maximum of 10 weeks, thereafter the paperschedules will be withdrawn.

Application Agreement***Volvo GM Heavy Truck Corporation***

Send this form to:							
Volvo Trucks							
Dept 30610 ARH7							
405 08 Göteborg							
Fax No + 46 31 66 10 50							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical Address UNB 0004/0010							
Qualifier UNB 0007							
Your internal address UNB 0008/0014							
Code representation				ASCII/EBCDIC			
File format				F/80 V/recl U/recl			
Virtual file name for:							
Delins		Aviexp		Invoice			
VGHT/DELINS*		AVIEXP		INVOIC			
Message type and version that should be transferred between companies:							
DEL V3	AVI V3	INV V3	Code on Volvo (BDT 3296)	Logical Address	Qual	Internal address	Volvos fa No
				094200005560139700	30	004042	4042
				094200005560139700	30	004388	4388

* Test runs, i e paper schedules and Odette transmission, for a maximum of 10 weeks, thereafter the paperschedules will be withdrawn.

Application Agreement***Volvo Truck Australia Ltd***

Send this form to:							
Volvo Trucks							
AVD 30610 ARH7							
405 08 Göteborg							
Fax No + 46 31 661050							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical Address UNB 0004/0010							
Qualifier UNB 0007							
Your internal address UNB 0008/0014							
Code representation		ASCII/EBCDIC					
File format		F/80 V/recl U/recl					
Virtual file name for:							
Delins			Aviexp			Invoice	
VAPL/DELINS			AVIEXP			INVOIC	
Message type and version that should be transferred between companies:							
DEL	AVI	INV	Code on Volvo	Logical Address	Qual	Internal	Volvos
V3	V3	V3	(BDT 3296)			address	fa No
				094200005560139700	30	007826	7826

Application Agreement***Volvo Do Brasil***

Send this form to:							
Volvo Trucks							
AVD 30610 ARH7							
405 08 Göteborg							
Fax No + 46 31 661050							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical Address UNB 0004/0010							
Qualifier UNB 0007							
Your internal address UNB 0008/0014							
Code representation				ASCII/EBCDIC			
File format				F/80 V/recl U/recl			
Virtual file name for:							
Delins			Aviexp			Invoice	
VTCB/DELINS			AVIEXP			INVOIC	
Message type and version that should be transferred between companies:							
DEL V3	AVI V3	INV V3	Code on Volvo (BDT 3296)	Logical Address	Qual	Internal address	Volvos fa No
				094200005560139700	30	002800	2800

Application Agreement

Volvo Car Corporation

Send this form to:									
Volvo Car Corporation Dept 53770 PVH53 405 08 Göteborg Fax No + 46 31 59 71 90									
Supplier name									
address									
Contact name									
Phone No. Fax No.									
Volvos ID on supplier (Supplier No)									
Technical details:									
Logical Address UNB 0004/0010									
Qualifier UNB 0007									
Your internal address UNB 0008/0014									
Code representation					ASCII/EBCDIC				
File format					F/80 V/recl U/recl				
Virtual file name for:									
Delins		Aviexp		Invoice		Call-Off		Syncro	
CADS/....		VCDA/...		VCCI/...		VCCO/....		SYNCRO/...	
*									
Message type and version that should be transferred between companies:									
DEL V3	AVI V3	INV V3	C-O V3	SYN V2	Code on Volvo (BDT 3296)	Logical Address	Qual	Internal address	Volvos fa No
						094200005560743089	30	001003	1003
						094200005560743089	30	001004	1004
						094200005560743089	30	001013	1013
						094200005560743089	30	001014	1014
						094200005560743089	30	001019	1019
						094200005562320142	30	001127	1127
						094200005561974931	30	001625	1625
						094200005560743089	30	004509	4509

* Test runs, i.e. paper schedules and Odette transmission, for a maximum of 10 weeks, thereafter the paperschedules will be withdrawn.

Application Agreement***Volvo Car Corporation Aftersales***

Send this form to:							
Volvo Car Corp. Aftersales							
DEPT 57571 RA02							
405 08 Göteborg							
Fax No + 46 31 59 71 90							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical Address UNB 0004/0010							
Qualifier UNB 0007							
Your internal address UNB 0008/0014							
Code representation				ASCII/EBCDIC			
File format				F/80 V/recl U/recl			
Virtual file name for:							
Delins		Aviexp		Invoice			
VCCPARTS/DEL INS*		VCDA/....		VCCI/....			
Message type and version that should be transferred between companies:							
DEL V3	AVI V3	INV V3	Code on Volvo (BDT 3296)	Logical Address	Qual	Internal address	Volvos fa No
				094200005560743089	30	001441	1441
				094200005560743089	30	001441	3324

* Test runs, i.e. paper schedules and Odette transmission, for a maximum of 10 weeks, thereafter the paperschedules will be withdrawn.

Application Agreement***Volvo Car Corporation Köping***

Send this form to:								
Volvo Car Corp. Köping								
Dept 6042								
731 29 Köping								
Fax No + 46 221 22 246								
Supplier name								
address								
Contact name								
Phone No. Fax No.								
Volvos ID on supplier (Supplier No)								
Technical details:								
Logical Address UNB 0004/0010								
Qualifier UNB 0007								
Your internal address UNB 0008/0014								
Code representation	ASCII/EBCDIC							
File format	F/80 V/recl U/recl							
Virtual file name for:								
Delins	Aviexp	Invoic	Call-off					
TADS/PVKOPI NG *	VCDA/....	VCCI/....	TCCO/PVKOPING					
Message type and version that should be transferred between companies:								
DEL V3	AVI V3	INV V3	C-O V3	Code on Volvo (BDT 3296)	Logical Address	Qual	Internal address	Volvos fa No
					094200005561974931	30	001614	1614

* Test runs, i.e. paper schedules and Odette transmission, for a maximum of 10 weeks, thereafter the paperschedules will be withdrawn.

Application Agreement

Volvo Car Corporation Olofström

Send this form to:								
Volvo Car Corporation								
Dept AB								
S-293 84 Olofström								
Fax No + 46 454 42856								
Supplier name								
address								
Contact name								
Phone No. Fax No.								
Volvos ID on supplier (Supplier No)								
Technical details:								
Logical Address UNB 0004/0010								
Qualifier UNB 0007								
Your internal address UNB 0008/0014								
Code representation						ASCII/EBCDIC		
File format						F/80 V/recl U/recl		
Virtual file name for:								
Delins			Aviexp			Invoice		
OADS/OLOFSTROM			VCDA/.....			VCCI/.....		
Message type and version that should be transferred between companies:								
DEL V3	AVI V3	INV V3		Code on Volvo (BDT 3296)	Logical Address	Qual	Internal address	Volvos fa No
					094200005560743089	30	001555	1555
					094200005560743089	30	001071	1071
					094200005560743089	30	001890	1890
					094200005560743089	30	001893	1893
					094200005560743089	30	001984	1984

Application Agreement***Volvo Car Corporation Skövde***

Send this form to:							
Volvo Car Corp. Skövde							
Dept 9330							
541 87 Skövde							
Fax No + 46 500 47 41 99							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical Address UNB 0004/0010							
Qualifier UNB 0007							
Your internal address UNB 0008/0014							
Code representation		ASCII/EBCDIC					
File format		F/80 V/recl U/recl					
Virtual file name for:							
Delins		Aviexp		Invoice			
EADS/PVSKOVDE*		VCDA/....		VCCI/....			
Message type and version that should be transferred between companies:							
DEL V3	AVI V3	INV V3	Code on Volvo (BDT 3296)	Logical Address	Qual	Internal address	Volvos fa No
				094200005561974931	30	001621	1621

* Test runs, i.e. paper schedules and Odette transmission, for a maximum of 10 weeks, thereafter the paperschedules will be withdrawn.

Application Agreement***VCC Engine Centre Gent - ECG***

Send this form to:								
Volvo Car Corp. Skövde								
Dept 9330								
541 87 Skövde								
Fax No + 46 500 474199								
Supplier name								
address								
Contact name								
Phone No. Fax No.								
Volvos ID on supplier (Supplier No)								
Technical details:								
Logical UNB								
Address 0004/0010								
Qualifier UNB 0007								
Internal UNB								
Address 0008/0014								
Code representation			ASCII/EBCDIC					
File format			F/80 V/recl U/recl					
Virtual file name for:								
Delins		Aviexp		Invoice			Calloff	
ECG/DELINS		VCDA/.....		VCCI/.....			ECG/CALL OFF	
Message type and version that should be transferred between companies:								
DEL	AVI	INV	C-O	Code on Volvo	Logical Address	Qual	Internal	Volvos
V3	V3	V3		(BDT 3296)			address	fa No
					094200005560743089	30	014625	14625

Application Agreement***VCC Engine Centre Torslanda - ECT***

Send this form to:									
Volvo Car Corp. Skövde									
Dept 9330									
541 87 Skövde									
Fax No + 46 500 474199									
Supplier name									
address									
Contact name									
Phone No. Fax No.									
Volvos ID on supplier (Supplier No)									
Technical details:									
Logical Address			UNB 0004/0010						
Qualifier			UNB 0007						
Internal Address			UNB 0008/0014						
Code representation			ASCII/EBCDIC						
File format			F/80 V/recl U/recl						
Virtual file name for:									
Delins			Aviexp			Invoice		Calloff	
ECT/DELINS			VCDA/.....			VCCI/.....		ECT/CALLOFF	
Message type and version that should be transferred between companies:									
DEL V3	AVI V3	INV V3	CALL OFF	Code on Volvo (BDT 3296)	Logical Address	Qual	Internal address	Volvos fa No	
					094200005560743089	30	001225	1225	

Application Agreement***Volvo Wheel Loaders AB***

Send this form to:							
Volvo Wheel Loaders AB							
AVD IEU							
681 85 Eskilstuna							
Fax No + 46 16 152943							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical Addr. UNB 0004/0010							
Qualifier UNB 0007							
Your internal address UNB 008/0014							
Code representation				ASCII/EBCDIC			
File format				F/80 V/recl U/recl			
Delins		Aviexp		Invoice			
Virtual file name for Volvo Wheel Loaders Plant No. 101							
WLOARV/DELINS		AVIEXP		WLO/INVOIC			
Virtual file name for Volvo Wheel Loaders Plant No. 2511							
WLOESK/DELINS		AVIEXP		WLO/INVOIC			
Message type and version that should be transferred between companies:							
DEL V3	AVI V3	INV V3	Code on Volvo (BDT 3296)	Logical Address	Qual	Internal address	Volvos fa No
				094200005563101319	30	000101	101
				094200005563101319	30	002511	2511

Application Agreement***Volvo Wheel Loaders AB***

Send this form to:							
Volvo Wheel Loaders AB							
AVD IEU							
681 85 Eskilstuna							
Fax No + 46 16 152943							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical Addr. UNB							
0004/0010							
Qualifier UNB 0007							
Your internal address UNB 008/0014							
Code representation				ASCII/EBCDIC			
File format				F/80 V/recl U/recl			
Delins		Aviexp		Invoice			
Virtual file name for Volvo Wheel Loaders Plant No. 258							
CABHAL/DELINS		AVIEXP		CAB/INVOIC			
Message type and version that should be transferred between companies:							
DEL	AVI	INV	Code on Volvo	Logical Address	Qual	Internal address	Volvos fa No
V3	V3	V3	(BDT 3296)				
				094200005565276838	30	000258	258

Application Agreement***Volvo Wheel Loaders AB***

Send this form to:							
Volvo Wheel Loaders AB							
AVD IEU							
681 85 Eskilstuna							
Fax No + 46 16 152943							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical Addr.		UNB 0004/0010					
Qualifier		UNB 0007					
Your internal address		UNB 008/0014					
Code representation		ASCII/EBCDIC					
File format		F/80 V/recl U/recl					
Delins		Aviexp		Invoice			
Virtual file name for Volvo Wheel Loaders Plant No. 259							
CMPEBK/DELINS		AVIEXP		CMP/INVOIC			
Message type and version that should be transferred between companies:							
DEL V3	AVI V3	INV V3	Code on Volvo (BDT 3296)	Logical Address	Qual	Internal address	Volvo s fa No
				094200005565276820	30	000259	259

Application Agreement

Volvo Articulated Haulers AB

Send this form to:							
Volvo Articulated Haulers AB Bo Hammarström Västra Esplanaden 9A 351 83 Växjö Fax No + 46 470 779598 Tel No + 46 470 779583							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical Address UNB 0004/0010							
Qualifier UNB 0007							
Your internal address UNB 0008/0014							
Code representation		ASCII/EBCDIC					
File format		F/80 V/recl U/recl					
Virtual file:							
Delins		Aviexp					
VART/DELINS *		AVIEXP					
Message type and version that should be transferred between companies:							
DEL V3	AVI V3	INV V3	Code on Volvo (BDT 3296)	Logical Address	Qual	Internal address	Volvos fa No
				094200005563601615	30	INKART	1222

* Test runs, i.e. paper schedules and Odette transmission, for a maximum of 10 weeks, thereafter the paperschedules will be withdrawn.

Application Agreement***Volvo Penta Parts***

Send this form to:							
Volvo Trucks							
Dept 30610							
405 08 Göteborg							
Fax No + 46 31 661050							
Supplier name							
address							
Contact name							
Phone No. Fax No.							
Volvos ID on supplier (Supplier No)							
Technical details:							
Logical UNB							
Address 0004/0010							
Qualifier UNB 0007							
Internal UNB							
Address 0008/0014							
Code representation		ASCII/EBCDIC					
File format		F/80 V/recl U/recl					
Virtual file name for:							
Delins		Aviexp		Invoic			
VPG/DELINS		AVIEXP		INVOIC			
Message type and version that should be transferred between companies:							
DEL V3			Code on Volvo (BDT 3296)	Logical address	Qual	Internal address	Volvos fa No
				094200005560341330	30	001618	1618

Application Agreement

All other companies

Send this form to:											
Volvo Data AB AVD 2650 405 08 Göteborg Fax No + 46 31 66 26 26											
Supplier name											
address											
Contact name											
Phone No. Fax No.											
Volvos ID on supplier (Supplier No)											
Technical details:											
Logical Address UNB 0004/0010											
Qualifier UNB 0007											
Your internal address UNB 0008/0014											
Code representation					ASCII/EBCDIC						
File format					F/80 V/recl U/recl						
Virtual file name:											
Aviexp											
AVIEXP											
Message type and version that should be transferred between companies:											
AVI					Code on Volvo (BDT 3296)	Logical Address	Qual	Internal address	Volvos fa No		
V3						094200005560341330	30	001437	1437		
						094200005560341330	30	001613	1613		
						094200005560341330	30	001619	1619		
						094200005560341330	30	001626	1626		
						094200005560341330	30	083027	83027		

4.0 Volvo's application of Odette Transport Label Vers.1 Rev. 3.1

4.1 Summary of the elements of the label

The Odette Transport Label is intended to be used on all transport packages shipped with production material to Volvo. It is expected that the label will be used in conjunction with advance shipping information i.e. The Despatch Advice (AVIEXP) message which is transmitted between the parties electronically.

Odette Transport Label Format

The Transport Label is divided into two sections: Shipping section and Parts Identification section.

Shipping section

Information about the destination of the Goods.

Bar Code Identifier
receiver
Volvo's unloading location.

Dock/Gate
Volvo's final delivery point.

Document NoN
Supplier's advice note number.

Gross Weight
Total transport unit weight.

Net Weight
Material weight within transport unit.

No. of boxes
Number of packages within one transport unit.

Supplier Address
Supplier's name and address, country of origin.

Parts Identification section

The parts identification section is divided in two sections used for information related to the product.

- a) One section with Bar Codes for: Part No., Quantity, Supplier number and Serial Number

	Bar Code Identifier
Part No. Volvo's Part number	P
Quantity Package or transport unit Quantity	Q
Supplier Supplier number	V
Serial Number Supplier package or transport unit identification number.	S, M, G

Note: For a detailed explanation of varying bar code identifiers for Serial Number, see Chapter 4.5.

- b) One section with Special Data: Description, Logistics ref, Engr. Change, Date and Batch No.

Description
Volvo's part description.

Logistics ref.
See Chapter 4.3.

Engr. Change
Buyer's engineering change number.

Date
Material production date (P) or despatch date (D).

Batch no **H**
The supplier's identification of documentation items.

Alternative data items within the Shipping Section and Special Data Area are to be agreed between supplier and Volvo.

4.2 Size, materials and print

The format of the Odette Transport Label is A5 (210 x 148 mm). This format may, if required, be printed on larger paper size, e.g. A4.

The label paper must be white with black printing, with minimum (Print Contrast) PCS = 75.

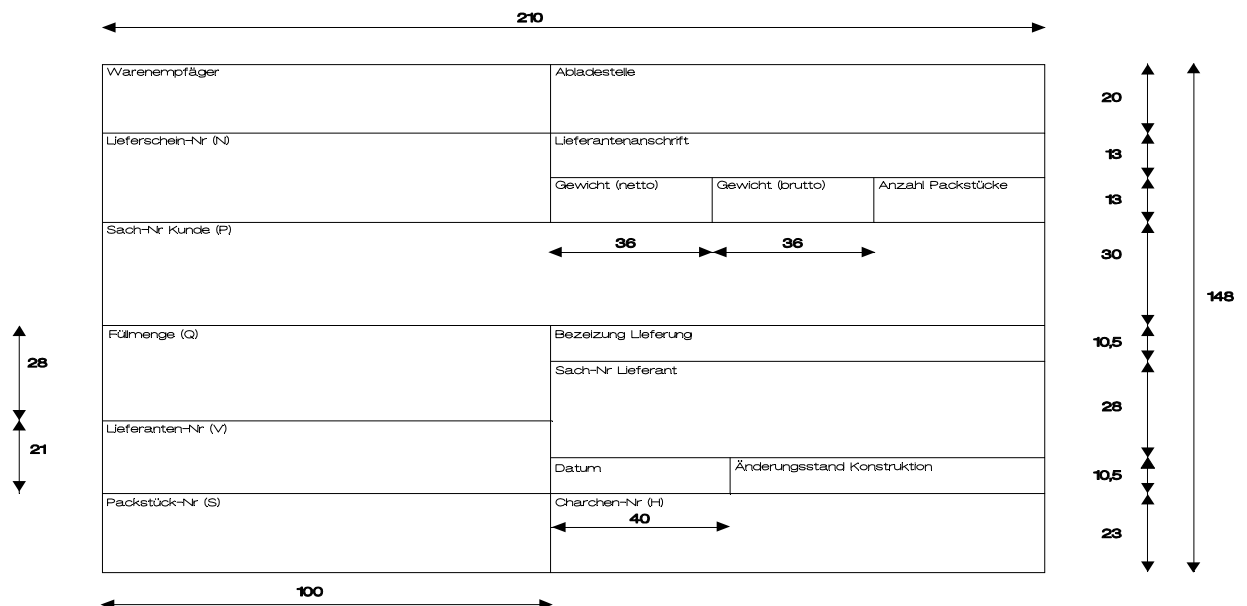
To minimise the risks of distortion it is recommended that label paper - or in the case of composite paper, adhesive and release paper together - is 160-170 g/m² and weather-resistant. If the adhesive label is glued on a surface, paper may be of lower weight (e.g. 80 g/m²).

The label must be durable enough to ensure readability at its destination.

Adhesive labels may be pressure-sensitive or dry-gummed as long as adherence to the package substrate is assured and removable from the Smallboxes (Volvo plastic container).

To ensure readability, a very high print quality is demanded. To achieve this quality Laser-, Thermo- or Thermo- transfer- printers are highly recommended. Most Matrix (impact) printers can NOT fulfil the quality demands.

The illustration below is not shown to actual size.



4.3 Data area characteristics

Data contained on the Transport Label must be consistent with data covered in the Despatch Advice message. Conditional data fields which are not required by agreement between supplier and Volvo must be left blank. Non-significant zeros and blanks in the data string must be suppressed, when the bar codes are printed. The human readable characters must be bold and printed above the bar code symbol.

Type of font

Any readable character set can be used, but Odette recommends one of the following:

- Helvetica bold
- ISO 3098 Part 1, standard character set, lettering B vertical.

Data Areas and Titles

Each data area is to be separated by thin lines and must contain its title and data identifier, if appropriate, in the upper left hand corner, as shown in the illustrations. Outer border lines should not be printed within the active A5 format area. Titles of data areas may be printed in the supplier's language with 1.5 mm high characters.

Data Identifier Codes

The Data Identifier, as the name implies, identifies the data element, and is obviously essential when more than one element of data is being scanned. The Data Identifier is omitted from the human readable characters but is printed to the right of the title for each data area.

Receiver area

The destination name and address as designated by Volvo. Human readable characters only.

See Appendix number 1.

Dock and Gate area

Final unloading point. At Volvo's request, information may be printed in one of the following ways:

- Human readable characters only, 13 mm high, 12 characters maximum.
- Human readable characters and bar code. May be used in the future.
-

Document number area

Within Volvo the Advice Note Number is used. The number may not be repeated within one year.

Supplier's address area

Name and shipping address of the supplier, and country of origin designated by the supplier.

Net weight area

Weight of goods in (kg) excluding transport packaging. Unit of measurement must be printed in the title of the field in brackets.

Gross weight area

Weight of goods in (kg) including transport packaging.

Number of boxes area

Number of boxes on the transport unit. Is mainly used on Smallbox shipments.

Part number area

Part number designated by Volvo for the product in the package.

Quantity area

Quantity in the package, usually according to Volvo's packing instruction. When the unit of measurement is pieces, no notation is required. However, if it is kg, pairs, meters and so on, the type code is to be given in human readable form. When used, the unit of measurement must be directly to the right of the human readable quantity.

Description area

Mandatory description of articles or products, designated by Volvo according to the description on the drawing.

Logistics reference area

Information for the improvement of logistics between supplier and Volvo.

This area is normally reserved for the supplier's part number. The area may be used for alternative data as specified by Volvo. Volvo do not demand that the Odette specification is fulfilled.

Supplier code area

The supplier code is defined by Volvo.

Date area

Date of despatch (stated at first hand) or production. The date must be printed in the format YYMMDD (Y = year, M = month, D = day) preceded by the character " P " (Production date), or " D " (Despatch date).

Engineering change area

Designated by Volvo to specify engineering changes. Information may be coded (e.g. P-04) or in clearer (e.g. " pre serial " etc).

Serial number area

The serial number must be a unique number (not necessarily in sequential order) assigned by the supplier. The number may not be repeated within one year. Identifiers S, M or G are assigned according to label usage, see Chapter 4.5

Batch number and Indicators area**Batch number**

Reference number assigned by the manufacturer to designate grouping of products of VSP- parts within the same production batch. The batch number is printed in bar code. The bar code symbol must be directly below the human readable characters.

Indicators

Marks may be printed as graphic symbols or applied as stickers. Stickers must be affixed so as not to impair reading of printed bar codes (quiet zones and bar codes).

Information about:

- Mandatory and Compulsory information
- TDED-elements
- Field lengths
- Dimensions of human readable characters
- Data identifiers

See Chapter 4.6.

4.4 Bar code symbology

Bar codes must be of the 3-of-9 (code 39) type with the following requirements:

Code Configuration

The format for each bar code-element is: start sign, data identifier, data and stop sign. All bar coded areas are printed left justified (see illustrations). The four (4) characters (\$, /, +, %) of the 3-of-9 Symbology must NOT be used.

Code Density and Dimensions

The bar heights must be 13 mm high, or as near as possible depending on printer capability. For each bar code symbol, the average width of the narrow elements must be:

$$(X) = 0.33 \pm 0.11 \text{ mm to } 0.43 \pm 0.15 \text{ mm}$$

The ratio of the nominal width of the wide elements to the nominal width of the narrow elements must be 3:1 with an allowable range of 2.8:1 to 3.2:1.

To achieve maximum first time read rates, the code height must be at least 15 % of overall code length.

Inter-character gap

The space between two characters in code 39 (the inter-character gap) should be as close to the average narrow element width as is practical.

Quiet zones

Begin and end margins (quiet zones) must be at least 6.4 mm.

Quality Assurance Requirements

It is the responsibility of the supplier to provide bar coded Labels that meet the specifications. To verify that the Transport Label meets the requirements, the supplier must submit samples of the Label to Volvo for verification in good time before using it on the first shipment. The same is valid when there has been a change in the system which in any way effects the printing of the Label.



4.5 Transport label structure







The Parts Identification label contains only the product information.

The bar coded Serial Number on the label must be prefixed by " S ". Is only to be used on Smallbox packing.



Master Label for transport unit "S"

Transport label to be used on all transport units containing the same part number or separate packages with the same part number when each package is not labelled with a "Parts Identification" label (see above). Is to be used on standard pallets etc.

Receiver VOLVO AB STORSTADEN	Dock / Gate 045		
Advice Note No (N) 31595529 	Sendname and address BCM Ltd, Bigcity		
	Net Weight (Kg) 82	Gross Weight (Kg) 90	No of boxes 1
Part Number (P) 3500302 			
Quantity (Q) 42 	Description Carmart, right		
	Supplier Part Number 135792468		
Supplier Number (V) 6316 	Date D921224	Eng. Change P1A	
Serial Number (S) 53510 	Charge-No (H) 40508 		




Master Label Multiple, Common Item Pack "M"

Master labels must be used where a number of common item packages are loaded within the same transport unit. Each package is previously labelled with a " Parts Identification " label. The quantity on the " Master " Label must be the sum of the quantities within all the packages. The transport unit must be labelled with the full Transport Label. The bar coded Serial Number on the label must be prefixed by " M ". Individual packages may have a prefix of " S ". Must be used on all Smallbox shipments. The Master label is affixed to a special holder.

Receiver VOLVO AB STORSTADEN	Dock / Gate 045		
Advice Note No (N) 31595529 	Senders name and address BCM Ltd, Bigcity		
	Net Weight (Kg) 82	Gross Weight (Kg) 90	No of boxes 16
Part Number (P) 3500302 			
Quantity (Q) 42 	Description Carmart, right		
Supplier Number (V) 6316 	Supplier Part Number 135792468		
Serial Number (M) 53510 	Date D921224	Eng. Change P1A	
	Charge-No (I-I) 40508 		

Master Label Mixed Item Pack "G"

Mixed Item Loads labels must be used where a number of packages with different part numbers are loaded within the same transport unit. Each package must be labelled with a " Parts Identification " label. The transport unit must be labelled with the full Transport label on which the Part Number and Quantity fields are left blank. The Serial Number on the label must be prefixed by a " G ". Individual packages may have a prefix of " S ". Must be used on all Smallbox shipments. The Master label is affixed to a special holder.

Receiver VOLVO AB STORSTADEN	Dock / Gate 045		
Advice Note No (N) 31595529 	Sendername and address BCM Ltd, Bigcity		
Part Number (P)	Net Weight (Kg) 82	Gross Weight (Kg) 90	No of boxes 16
Quantity (Q)	Description		
Supplier Number (V) 6316 	Supplier Part Number		
Serial Number (G) 53510 	Date D921224	Eng. Change	
	Charge-No (H)		

4.6 Comparison between data elements in revision 2 and 3.1

Data element	TDED	Revision 3.1				Revision 2			
		M/C	Field length	Size (mm)	ID Code	M/C	Field length	Size (mm)	ID Code
Receiver		M	2 x an..20	7			3 x an35		
				5					
Dock/Gate	3923/(3921)	M	1 x an..12	13			2 x an35	4	
		M	1 x an..17	7					
		M	1 x an..5	13	2L*		Not Rev 2		
Document No.	1004	C	1 x an..8	7	N		1 x an10	7	N
Senders Name and Address		C	1 x an..29	5			1 x an40	4	
Net Weight	6160	C	1 x n..5	7			1 x an3	4	
Gross Weight	6292	C	1 x n..5	7			1 x an3	4	
No. of boxes	-	C	1 x n..5	7			1 x an5	4	
Part No.	7304	M	1 x an..24	13	P	M	1 x an24	13	P,C
Quantity	6853	M	1 x n..10	13	Q	M	1 x an10	13	Q
Unit of Measur.	6410	C	1 x an..3	5			Unspec.	4	
Description		M	1 x an..22	7			1 x an30	4	
Logistics Reference Area	7194(7810)	C	1 x an..22	7			Not Rev. 2		
Supplier Number	3296(3803)	M	1 x an..5	5	V	M	1 x an13	4	V
Date		C	1 x an6	7			YYMMDD	7	
Eng. Change	7860	C	1 x an..14	7			1 x an14	7	
Hazard Code			Not Rev. 3.1				1 x an10	7	
Serial Number	7102 7246(7812)	M	1 x n..9	5	S M,G		1 x n9	7	N
Batch Number	7338	C	1 x n..9	5	H		1 x an10	4	H
(human readable)	7338	C	1 x n..12	13			1 x an10	13	

Key to Summary of Transport Label Data

M Mandatory information

C Conditional information which is agreed about between the parties.

Data elements shown in brackets e.g. 1022 (1804) indicate provisional tag numbers formerly assigned by Odette, now renumbered in the TDED.

Data Identifiers marked with (*) are in compliance with the FACT Data Identifiers Standard.

Because space is limited, there are differences between the characters specified for label fields and those specified in the UN Trade Data Element Directory (referred to within this publication as the TDED) which is the basis of field lengths specified in the Despatch Advice message (AVIEXP) or any other related Odette messages. The TDED tag numbers used in this document are intended to relate label data to AVIEXP data. It is envisaged that the permissible label field lengths are sufficient to satisfy most requirements

4.7 Affixing and placing of the label

On wooden packing material the Transport Label is horizontally secured with staples in each corner and in the middle. If self-adhesive Transport Labels is used the Label may not be separated from the back paper and be affixed with staples.

Securing methods, e.g. staples or the addition of stickers (VSP-symbol...) must be used in such a way that readability is not impaired. N.B. There may be no stripes over or underneath the label.

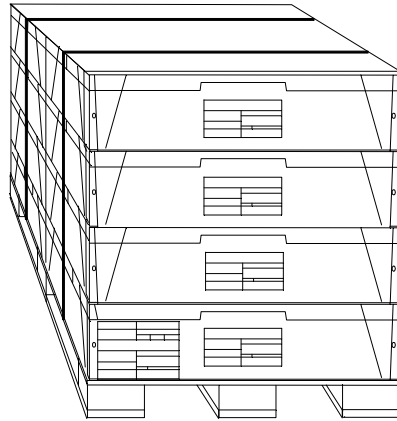
Placing

To facilitate manual and automatic reading, the Transport Label must be placed horizontally on the accurate indicated place (see below).

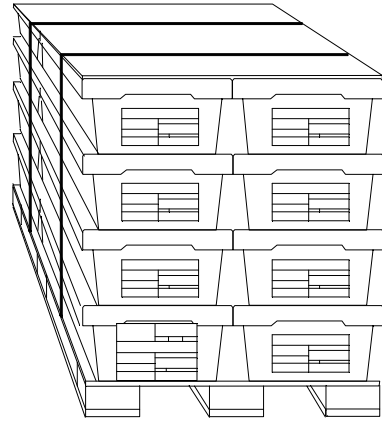
For all pallet-types, except 'K-pallets', the Transport Label is placed on the left side of the lowest frame from the side where it is handled by the fork-lift truck. On 'K-pallets', in the middle between the stripes.

Some exceptions may occur after agreement between supplier and each Volvo factory respectively.

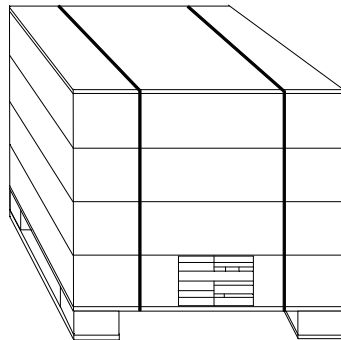
For other types of packing material, see the 'Packing Material Catalogue'.



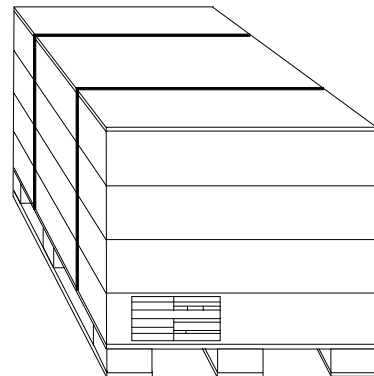
Placing of Transport Label on big Smallbox



Placing of Transport Label on small Smallbox



Placing of Transport Label on K-pallet



Placing of Transport Label on L-pallet

5.0 Application of delivery schedule (DELINS Version 3) within Volvo

5.1 General

This document describes Volvo's application of the Odette DELINS message.

The specification offers a detailed description of those data elements which will be used.

The basis of this application is the Odette message entitled DELINS version 3, issued by the secretariat in June 1990.

The frequency and scope of the delivery schedules are specific for each company within Volvo.

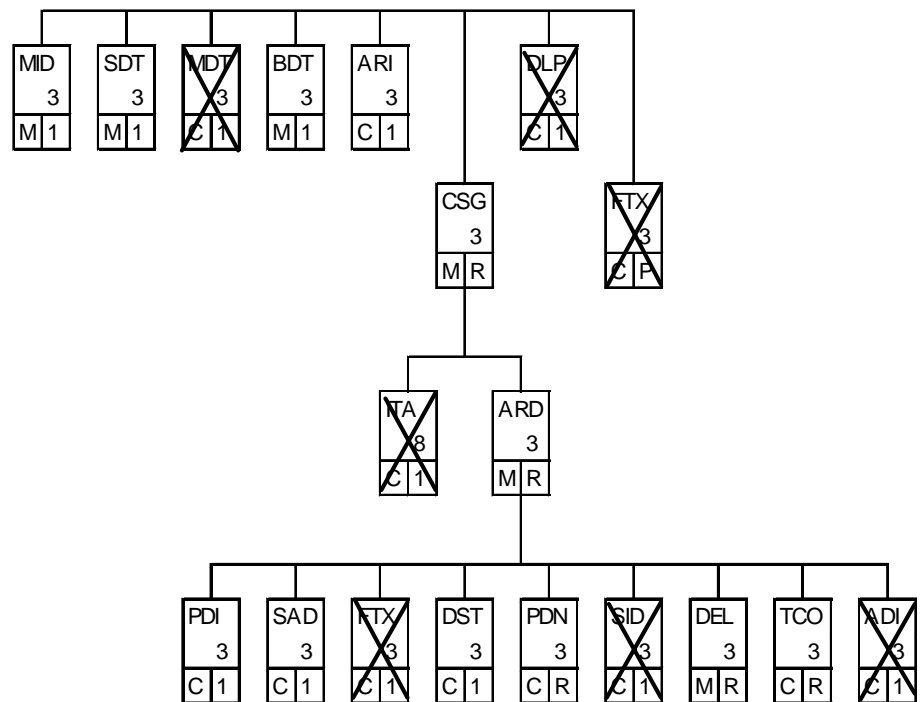
See Appendix number 2 for more detailed information.

5.2 File structure

Initial and closing service segments are included in the data file which contains Volvo's delivery schedules.

The detailed application of the ISO/EDIFACT syntax standard is presented in Chapter 3.

The following structure has been taken from Odette's international specification.



Crossed out segments will not be used by Volvo.

5.3 Detailed message application

MID	MESSAGE IDENTIFICATION	M(M)
	The unique identification of the message.	
1004	Document Number	M(M) an..17(an..17)
	Delivery schedule number (DELINS-number).	
2007	Document Date, coded	M(C) n6(n6)
	The date on which the message was created. Format YYMMDD.	
	Example of the MID-segment: MID+9407011307+940701'	
SDT	SELLER DETAILS	M(M)
	Volvo's identification of the supplier.	
3296	Internal ID. No	M(C) an..10(an..17)
	The supplier number, which has been given to the seller, without leading zeros.	
	Example of the SDT-segment: SDT+:::2288'	
BDT	BUYER DETAILS	M(M)
	Supplier's identification of Volvo.	
3296	Internal ID.No.	M(C) an..17(an..17)
	The customer number issued by the supplier.	
	Example of the BDT-segment: BDT+:::80001'	

ARI	ADDITIONAL RELEASE INFORMATION	M(C)
	Delivery schedules distributed differently within Volvo. Specified by each company in Appendix number 2.	
7903	Release Type Code	M(C) n1(n1)
	The method by which the call-off times are to be interpreted.	
	<ol style="list-style-type: none">1 Ship by2 Receive by3 In manufacturing by4 Availability date at freight distribution centre	
2069	Effective From Date, coded	M(M) n6(n6)
	The date from which the new schedule is valid. Format YYMMDD.	
2073	Effective to Date, Coded	C(C) n6(n6)
	The delivery schedule's en date, i.e. the date which indicates the delivery schedule's planning horizon. Format YYMMDD.	
	Conditions: This data element will only be used after special agreement.	
	Example of the ARI-segment: ARI+1+940705'	

CSG	CONSIGNEE DETAILS	M(M)
	Volvo's identification of the consignee.	
3036	Party Name	C(C) an..35(an..35)
	Consignee, clear text, shall be printed on the transport label.	
3296	Internal ID. No	M(C) an..10(an..17)
	Volvo's plant or warehouse number. See Appendix number 1.	
3921	Final Delivery Point, coded	M(C) an..8(an..17)
	Delivery address, which is not stated on the transport label.	
3923	Additional Destination Details, coded	C(C) an..17(an..17)
	Final delivery point, which shall be printed on the transport label in the " Dock and Gate " field.	

Example of the CSG-segment:

CSG+: VOLVO TRUCK CORP.TUVE:::::1001+020+F-11 020'

ARD ARTICLE DETAILS**M(M)****7304 Buyers Article Number****M(M) an..24(an..35)**

Volvo's article number, without leading zeros.

Note:

The supplier is responsible for converting Volvo's article number to the supplier's own internal article number.

1022 Order Number**M(M) an..17(an..17)**

The order number of the article.

7860 Design Revision Number**C(C) an..14(an..35)**

This is used to specify the technical status of the drawing document.

Conditions:

This data element will only be used after special agreement.

Example of the ARD-segment:

ARD+181278++371902288020'

PDI REFERENCE TO PREVIOUS DELIVERY INSTRUCTION C(C)**Conditions:**

The segment will not be available within the first delivery schedule.

1004 Document Number**M(M) an..17(an..17)**

Previous delivery schedule number
(DELINS-number).

Ref MID-segment element 1004.

Example of the PDI-segment:

PDI+9406241220+940624'

SAD SUPPLEMENTARY ARTICLE DETAILS	M(C)
7807 Instruction Update Action Code	M(M) n1(n1)
1 Replaces preceding delivery plan.	
Example of the SAD-segment: SAD+1'	
DST DELIVERY STATUS	M(C)
2253 Calculation Date, coded	M(M) n6(n6)
Reconciliation date for delivery schedule. Format YYMMDD.	
6804 Actual Cumulative Quantity Received	M(C) n..10(n..10)
Accumulated deliveries from 1/1.	
Conditions: If no deliveries, gives zero.	
6812 Quantity Balance	C(C) n..10(n..10)
Outstanding orders. For contract orders, the quantity ordered.	
Example of the DST-segment: DST+940701+:6939+6840'	

PDN PREVIOUS DESPATCH NOTES

C(C)

Conditions:

The segment can be omitted if no despatch is received.

The latest received deliveries are presented here. The segment can occur several times. The latest received despatch will be stated in the first PDN segment.

1128 Despatch Note Number

C(C) an..8(an..17)

Despatch note number.
Ref AVIEXP, MID segment - data element 1004.

2219 Despatch Note Date, Coded

C(C) n6(n6)

Date of Despatch.
Format YYMMDD.

6270 Quantity Delivered

C(C) n..10(n..10)

The quantity delivered according to AVIEXP/delivery note.

6872 Actual Quantity Received

C(C) n..10(n..10)

Actual received quantity.

Conditions:

This data element can be used when received quantity differ from delivered quantity according to despatch note.

Example of the PDN-segment:

PDN+52575:940621+720:600'

DEL	DELIVERY DETAILS	M(M)
2803	First Date, coded Format YYMMDD.	M(C) n6(n6)
2002	Time Time for delivery. Format HHMM. Conditions: This data element will be used when there is more than one call-off during one day.	C(C) n4(n4)
2805	Last Date, Coded Format YYMMDD. Conditions: This data element will only be used for deliveries for which the day is not specified.	C(C) n6(n6)
6060	Quantity Delivered quantity. Note: On the first occasion an article entirely lacks a call-of, a delivery schedule with quantity = 0 is sent. After this, no new delivery schedule will be sent until a new requirement occurs for this article.	M(M) n..15(n..15)
1310	Part Consignment Number Reference number. Conditions: After special agreement with Volvo, a reference is made here to an order line or other customer-oriented reference concept.	C(C) an..17(an..17)

7803 Delivery Instruction Reasoned, Coded C(C) n1(n1)

Conditions:

This data element will be used when one of following reasons to call off applies:

- 1** Extra unplanned delivery, extra deliveries within agreed lead time.
- 3** Back order, not received at reconciliation.

6811 Schedule Status Indicator M(M) n1(n1)

Type of quantity:

- 1** Firm order.
- 2** Fabrication.
- 3** Raw material only.
- 4** Forecast
- 9** Reference to commercial agreement between partners.

Example of the DEL-segment:

DEL+940701+340::3:1'

TCO TYPE OF PACKAGES C(C)

Conditions:

This segment will only be used after special agreement.

1906 Package Reference Number C(C) an..35(an..35)

Volvo's reference number for the type of packaging which is to be used for delivery.

Example of the TCO-segment:

TCO+:2114641'

5.4 Example of Volvo Truck Corp's application

A delivery schedule for supplier 2288 for delivery of article 181278 and 181279 to Volvo Truck Corp., Tuve Plant, warehouse 1.

With the existing syntax rules and following the above Volvo specification, the message is described as follows:

```
--- Initial service segment according to ISO/EDIFACT ---  
--  
MID+9407011307+940701'  
SDT+:::::2288'  
BDT+:::::80001'  
ARI+1+940705'  
CSG+:VOLVO TRUCK CORP., TUVE:::::1001+020+F-11 020'  
ARD+181278++371902288020'  
PDI+9406241220+940624'  
SAD+1'  
DST+940701+:6939+6840'  
PDN+52575:940621+720:600'  
PDN+52430:940614+340'  
PDN+52120:940607+720'  
DEL+940701+340::3:1'  
DEL+940705+720:::1'  
DEL+940802+720:::3'  
DEL+940809+340:::3'  
DEL+940816+720:::3'  
DEL+940823+340:::3'  
DEL+940830+720:::4'  
DEL+940906+720:::4'  
DEL+940913+340:::4'  
DEL+940920+720:::4'  
DEL+940927+340:::4'  
ARD+181279++371902288020'  
PDI+9406241220+930624'  
SAD+1'  
DST+940701+:5340+5330'  
PDN+52565:940621+200'  
PDN+52420:940614+100'  
PDN+52130:940607+400'  
DEL+940705+300:::1'  
DEL+940802+100:::3'  
DEL+940809+100:::3'  
DEL+940816+100:::3'  
DEL+940823+200:::3'  
DEL+940830+300:::4'  
DEL+940906+300:::4'  
DEL+940913+300:::4'  
DEL+940920+200:::4'  
DEL+940927+200:::4'  
  
---Ending service segment according to ISO/EDIFACT ---
```

5.5 Example of Volvo Car's application

A delivery schedule for supplier 826 for delivery of article 3545524 to Volvo Cars Industry, Ghent. The first DEL-post contents Back-order (= not received at reconciliation) and remaining call-off contents needs, with code 9 (= Reference to commercial agreement between partners).

With existing syntax rules and following the above Volvo specification, the message is described as follows:

```
--- Initial service segment according to ISO/EDIFACT
---
MID+9407001+940617'
SDT+:::::826'
BDT+:::::79855'
ARI+1+940621'
CSG+:VOLVO CARS EUROPE INDUSTRY,GENT:::::4509+086+GI
GESLOT'
ARD+3545524++245900826086'
PDI+9406001'
SAD+1'
DST+940621+:6846'
PDN+712284:940610+240'
PDN+712177:940608+360'
PDN+712080:940604+120'
DEL+940617+384::3:1'
DEL+940622+420::9'
DEL+940629+240::9'
DEL+940702+780::9'
DEL+940803+240::9'
DEL+940817+180::9'
DEL+940820+240::9'
DEL+940824+360::9'
DEL+940827+240::9'
DEL+940831+420::9'
DEL+940903+240::9'
DEL+940907+420::9'
DEL+940910+240::9'
DEL+940913::940919+840::9'
DEL+940920::940926+720::9'
DEL+940927::941003+720::9'
DEL+941004::941010+600::9'
DEL+941011::941017+720::9'
DEL+941018::941024+780::9'
DEL+941025::941031+420::9'
DEL+941101::941107+660::9'
DEL+941108::941114+660::9'
-
-
-
----Ending service segment according to ISO/EDIFACT----
```

6.0 Application of Call-off (CALL-OFF Version 3) within Volvo

6.1 General

This document describes Volvo's application of the Odette Call-off message/ "CALL-OFF" (DELINS).

The specification describes Volvo's interpretation and use of the Odette standard for short-term, weekly and/or daily Call-off schedules (Call-off).

The basis of this application is the Odette message entitled DELINS version 3, issued by the secretariat in June 1990.

The frequency and scope of the CALL-OFF are specific for each company within Volvo.

6.2 Call-off contents and development

The Call-off schedule defines short-term material release information. It is issued directly from Volvo's plant to a supplier and is based upon fully specified production orders received by that plant.

A Call-off schedule should always be regarded as a replacement of the contents in a time interval in a previously issued delivery schedule. All the information indicated in data elements ARI/2069 and ARI/2073 therefore replaces the corresponding intervals in the delivery schedule. The Call-off schedule should always be regarded as an update of an existing delivery schedule.

Under the circumstances, Volvo's material programme is revised once a month (industrial month). The Call-off plan is based on the planned production sequence in which the plant's weekly production orders are executed, and not as a result of changes in Volvo's material programme.

Date/time figures quoted in the Call-off schedule should always be interpreted as the supplier's despatch date/time. The implication is that Volvo takes into account the time taken to transport the goods from the supplier to the respective Volvo plant. All call-offs are specified in multiple or stipulated unit loads.

6.3 Call-off schedule contra delivery schedule

Volvo's delivery schedules are issued as a result of the monthly programme process. The delivery schedule describes Volvo's material requirements for a period of 60 weeks, based on the order and the forecast figures supplied by the market. This comprises a significant prerequisite for the above process.

On the other hand, the Call-off schedule originates from each plant's materials and production control system, reflecting the true assembly sequence in the production plant.

The introduction of Volvo's Call-off schedules will take place after direct agreement between the supplier and the plant concerned.

Transmitted and received Call-off schedules will take place after direct agreement between the supplier and the plant concerned.

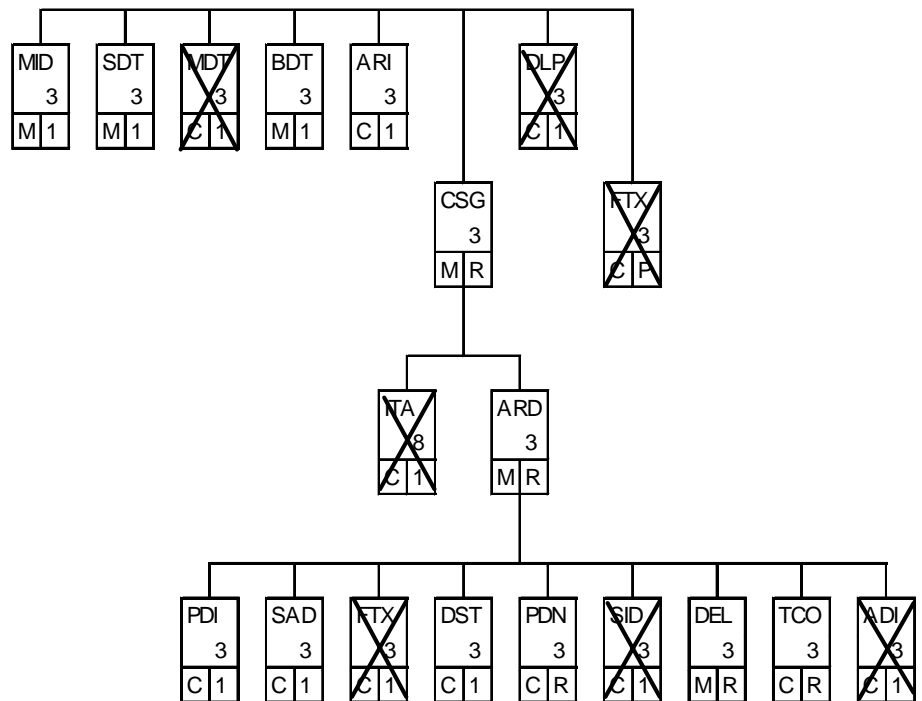
Observe that the delivery schedule and the Call-off schedule can be transmitted to a supplier the same day without a relative sequence, but it is ALWAYS the Call-off schedule (Call-off) which contains the most recent information and the one which is valid.

6.4 File structure

Initial and closing service segments are included in the data file which holds Volvo's Call-off schedules.

The detailed application of this ISO/EDIFACT syntax standard is presented in Chapter 3.

The following structure has been taken from Odette's international specification.



Crossed out segments will not be used by Volvo.

6.5 Detailed message application

MID	MESSAGE IDENTIFICATION	M(M)
	The unique identification of the message.	
1004	Document Number	M(M an..17(an..17)
	Call-off schedule number (CALL OFF-number).	
2007	Document Date, coded	M(C) n6(n6)
	The date which the Call-off schedule was finally created. Format YYMMDD.	
	Example of the MID-segment: MID+9307101+930617'	
SDT	SELLER DETAILS	M(M)
	Volvo's identification of the supplier.	
3296	Internal ID. No	M(C) n..10(an..17)
	The supplier number, which has been given to the seller, without leading zeros.	
	Example of the SDT-segment: SDT+:::6680'	
BDT	BUYER DETAILS	M(M)
	Supplier's identification of Volvo.	
3296	Internal ID. NO	M(C) n..17(an..17)
	The customer number issued by the supplier.	
	Example of the BDT-segment: BDT+:::924001509'	

ARI ADDITIONAL RELEASE INFORMATION**M(C)**

Call-off schedules are distributed differently within Volvo. See Appendix number 2.

Note

The interval between the data elements 2069 and 2073 is the time period whose contents are to be replaced in the valid delivery schedule. This is to take place even if no changes have occurred. The Call-off schedule is issued even if the quantities in the interval are zero.

7903 Release Type Code**M(C) n1(n1)**

The method by which the Call-off schedule's data should be interpreted.

- 1 Ship by.
- 2 Receive by.
- 3 In manufacturing by.
- 4 Availability date at freight distribution centre.

2069 Effective from date, coded**M(M) n6(n6)**

Call-off schedule starting date.
Format YYMMDD.

2073 Effective to date, coded**M(C) n6(n6)**

Call-off schedule's end date, i.e. the date which indicates the Call-off schedule's planning horizon.
Format YYMMDD.

Example of the ARI-segment:
ARI+1+940621:940705'

CSG	CONSIGNEE DETAILS	M(M)
	Volvo's identification of the consignee.	
3036	Party Name	C(C)an..35(an..35)
	Consignee, clear text. Shall be printed on the transport label.	
3296	Interval ID. No	M(C)an..10(an..17)
	Volvo's plant or warehouse number. See Appendix number 1.	
3921	Final Delivery Point , coded	M(C) an..8(an..17)
	Delivery address, which is not stated on the transport level.	
3923	Additional Details, coded	M(C)an..17(an..17)
	Final delivery address, which should be stated on the transport label in the " Dock and Gate " field.	
	Example of the CSG-segment: CSG+:VOLVO CARS EUROPE INDUSTRY;GENT::::::4509+086 +GI DISPAT'	

ARD ARTICLE DETAILS**M(M)****7304 Buyer's Article Number****M(M)an..24(an..35)**

Volvo's article number, without leading zeros.

Note:

The supplier's system is responsible for converting Volvo's article number to the supplier's own article number.

1022 Order Number**M(M) an..17(an..17)**

The order number of the article.

Example of the ARD-segment:

ARD+6849395++263906680086'

PDI REFERENCE TO PREVIOUS DELIVERY INSTRUCTIONS C(C)**Conditions:**

The segment will be omitted at the first delivery schedule.

1004 Document Number**M(M) an..17(an..17)**

Previous delivery schedule number (DELINS-number), which is referred to by the Call-off schedule.

Ref MID segment - data element 1004.

Example of the PDI-segment:

PDI+9407001'

SAD SUPPLEMENTARY ARTICLE DETAILS**M(C)****7807 Instruction Update Action Code****M(M) n1(n1)**

2 Change of delivery schedule.

Replace the entire interval specified by data element 2069 and 2073 in the ARI-segment.

Example of the SAD-segment:
SAD+2'

DST DELIVERY STATUS M(C)**2253 Calculation Date, coded****M(M) n6(n6)**

Reconciliation date for the Call-off.
Format YYMMDD.

6804 Actual Cumulative Quantity Received**M(C)n..10(n..10)**

Accumulated deliveries from 1/1.

Conditions:
If no deliveries, gives zero.

Example of the DST-segment:
DST+940621+:9855'

PDN PREVIOUS DESPATCH NOTES**C(C)****Conditions:**

The segment will be omitted if no delivery is received. The latest received deliveries are presented here. The segment can occur several times. The latest received delivery is stated in the first PDN-segment.

1128 Despatch Note Number M(C) an..8(an..17)

Despatch note number. Ref AVIEXP, MID segment -data element 1004.

2219 Despatch Note Date, coded MC) n6(n6)

Date of despatch.
Format YYMMDD.

6270 Quantity Delivered M(C) n..10(n..10)

Quantity received according to despatch note.

6872 Actual Quantity Received C(C) n..10(n..10)

Actual received quantity.

Conditions:

This data element can be used when received quantity differs from delivered quantity according to despatch note.

Example of the PDN-segment:

PDN+1514725:940614+135'

DEL DELIVERY DETAILS**M(M)**

Call-offs are specified only for the period which is stipulated in the segment ARI, data element 2069-2073. Call-offs are given in quantities which are calculated to unit loads.

2803 First Date, coded M(C) n6(n6)

Format YYMMDD.

2002 Time C(C) n4(n4)

Time for deliveries.
Format HHMM.

Conditions:

This data element will be used when there is more than one call-off during day.

6060 Quantity M(M) n..15(n..15)

The quantity to be delivered.

7803 Delivery Instruction Reason, coded C(C) n1(n1)

Conditions:

This data element will be used when one of following reasons to call off applies:

- 1 Extra unplanned delivery.
- 3 Back order.

6811 Schedule Status Indicator M(C) n1(n1)

Type of call

- 1 Firm order
- 2 Fabrication
- 3 Raw material only
- 4 Forecast
- 9 Reference to commercial agreement between partners

Example of the DEL-segment:

DEL+940607+0600+540::3'

TCO TYPE OF PACKAGES**C(C)****Conditions:**

This segment will only be used after special agreement.

1906 Package Reference Number**C(C) an..35(an..35)**

Volvo's reference number for the type of packages which is to be used for delivery.

Example of the TCO-segment:

TCO+:2114641'

6.6 Example of application

A delivery schedule (Call-off) from Volvo Europe Ghent, Belgium to supplier 6680 for delivery of the articles 6849395 and 6849396. The delivery address is internal in Ghent, labelled GE DISPATCH.

With existing syntax rules and following the above Volvo specification, the message is described as follows:

```
--- Initial service segment according to ISO/EDIFACT
MID+9407101+940617'
SDT+:::::6680'
BDT+:::::924001509'
ARI+1+940621:940705'
CSG+:VOLVO CARS EUROPE INDUSTRY, GENT:::::4509+086+GI
DISPAT'
ARD+6849395++263906680086'
PDI+9407001'
SAD+2'
DST+940621+:9855'
PDN+1514725:940614+135'
PDN+5246:940609+270'
PDN+1506113:940607+135'
DEL+940607+0600+270:::3:1'
DEL+940621:0600+135:::9'
DEL+940623:0600+135:::9'
DEL+940628:0600+135:::9'
DEL+940630:0600+74:::9'
ARD+6849396++263906680086'
PDI+9407001'
SAD+2'
DST+940621+:20385'
PDN+1514724:940614+405'
PDN+5245:940609+675'
PDN+5243:940609+135'
DEL+940621:0600+405:::9'
DEL+940623+0600+540:::9'
DEL+940628:0600+405:::9'
DEL+940630:0600+270:::9'
-
-
--- Ending service segment according to ISO/EDIFACT --
```

7.0 Application of despatch (AVIEXP Version 3) within Volvo

7.1 General

This document describes Volvo's application of ODETTE message for despatch advice (AVIEXP).

The specification offers a detailed description of those data elements which will be used.

The basis of this application is the ODETTE message entitled AVIEXP version 3 issued by the secretariat in June 1990.

The frequency and scope of the AVIEXP are specific for each company within Volvo.

For more detailed information see Appendix number 2.

7.2 The purpose and basic function of the message

The purpose of the Despatch Advice is to provide the final consignee of the goods with detailed information relating to the actual contents of a consignment sent by a consignor.

The message is based upon the definition of a consignment as a specified amount of goods sent by a specified consignor to a specified consignee on a specific occasion.

Notification is to be given of deliveries to all Volvo units.

The message gives the following information:

- To state the actual time for despatch.
- To provide specific information concerning transportation.
- To specify the actual packages included in the consignment.
- To specify the contents of the consignment.
- To provide the necessary documentation for customs clearance.

7.3 Despatch advice vis.a.vis document

When it comes to deliveries within the EU, Volvo requires following documents to accompany the goods:

- Despatch Advice
- Way bill

For border-crossing consignments, i.e. import and/or export, the following documents must accompany the goods:

- Invoice/ Despatch advice
- Way bill
- and goods certificate or invoice declaration, where appropriate

The contents and structure of the AVIEXP message corresponds to the Despatch Advice document for domestic consignments, and to the invoice/despatch advice for bordercrossing consignment.

Despatch advice will progressively replace the paper documents as the operative source of information, but during a transition period, despatch advice and the corresponding documents will be used in parallel.

Volvo requirements relating to delivery documents are specified in Appendix 7.

7.4 Creation of a despatch advice

A despatch advice shall state the actual contents of a shipment.

Notification must therefore not be made until the actual loading procedure is completed and no later than one hour after the goods have been despatched.

The consignor is free to let consignment consist of one or several articles. Volvo however consider it as an advantage, if all articles and packages, which are delivered to one and the same final delivery point - on one and the same occasion - are specified on one and the same despatch advice (AVIEXP).

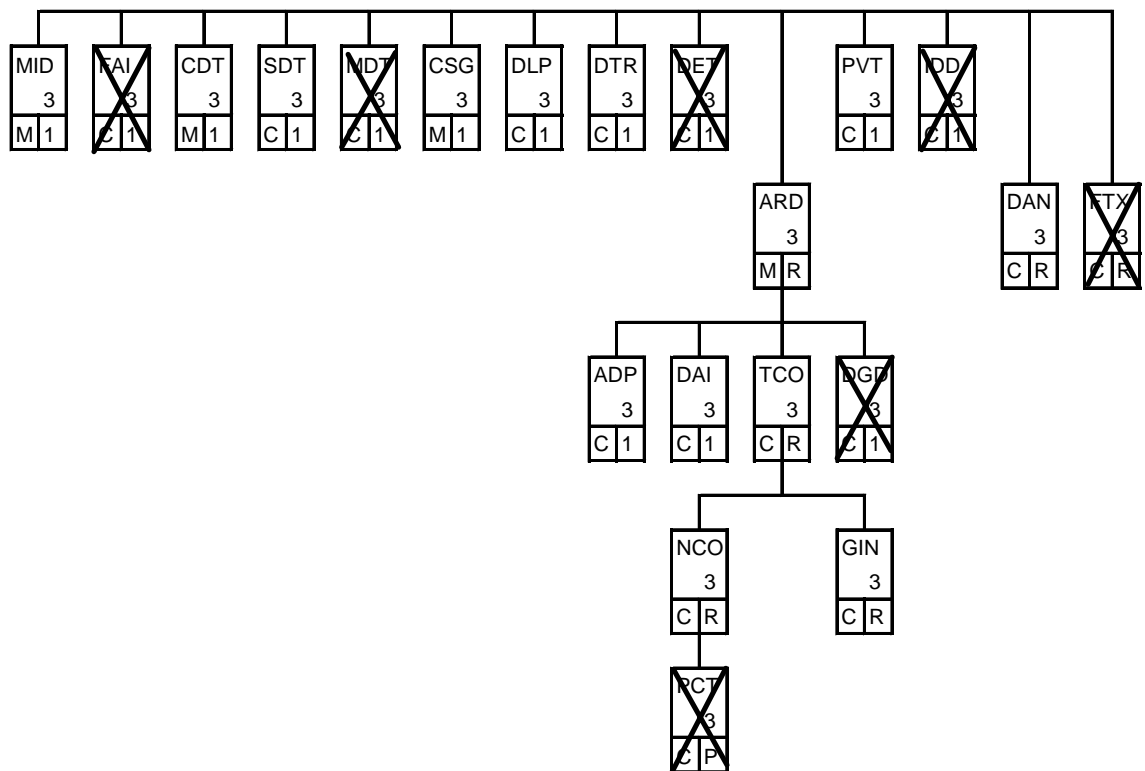
In the event that the quantity of goods defined in a particular consignment is too large to be accommodated in its entirety on one vehicle/trailer/container etc., it is necessary to redefine the consignment so it relates only to the vehicle/trailer/container etc. on which it is being transported.

7.5 Structure and basis of the AVIEXP

Initial and closing service segments shall be included in the data file which gives the suppliers Despatch Advice.

Within Volvo we have the following segment structure and detailed contents in this segment.

The following structure has been taken from Odette’s international specification.



Crossed out segments will not be used by Volvo.

7.6 Detailed application

The following section includes only those segments and data elements, which are included in Volvo's requirements.

The supplier may of course include any other additional information he considers necessary. Such information will, however, not be processed by Volvo.

Conditional segments

Under each segment heading, we are giving instructions of when to use the segments.

Some segments will only be used after special agreement.

Any individual Volvo company is free to make such agreement with any supplier or group of suppliers. The Volvo company is then responsible for giving detailed instructions of how to use the segment.

Conditional data elements

Under each data element heading we specify the valid conditions.

Many data elements are subject to special agreements and any Volvo company is free to make an individual agreement with any supplier in order to fulfil the needs for information of the company.

MID	MESSAGE IDENTIFICATION	M(M)
	The unique identification of the message.	
1004	Document Number	M(M) an..8(an..17)
	Unique number for the Despatch Advice (AVIEXP). The number must correspond to the Despatch Note number. The number must not be repeated within one year.	
2007	Document Date, coded	M(M) n6(n6)
	The date on which the message (AVIEXP) was created. It should always match the actual date of despatch. Format YYMMDD.	
2002	Time	M(C) n4(n4)
	The moment in time at which the message was created. Format HHMM.	
	Example of the MID-segment: MID+222111+950114:1429'	
CDT	CONSIGNOR DETAILS	M(M)
	Volvo's identity of the supplier.	
3296	Internal ID. No	M(C)an..10(an..17)
	The supplier number allocated to the consignor, actually sending the goods. The number must be given without leading space or zeros.	
	Example of the CDT-segment: CDT+:::1234'	

SDT SELLER DETAILS**C(C)**

Volvo's identification of the supplier.

Conditions:

The segment is mandatory when the Consignor and the Seller have been allocated different supplier numbers by Volvo.

3296 Internal Id. No**M(C) an..10(an..17)**

The supplier number, which has been allocated to the seller. The number must be given without leading space or zeros.

Example of the SDT-segment:

SDT+::::::67890'

CSG CONSIGNEE DETAILS**M(M)**

Volvo's identity of the consignee.

3296 Internal Id. No**M(C) an..10(an..17)**

Volvo's plant or warehouse number.
See Appendix number 1.

3921 Final Delivery Point, coded**M(C) an..8(an..17)**

State the delivery point indicated in message
DELINS/SYNCRO/KANBAN.

3923 Additional Destination Details, coded**M(C) an..17(an..17)**

Final unloading point. State the code indicated in message
DELINS/SYNCRO/KANBAN.

Conditions:

This data element will only be used after special agreement.

Example of the CSG-segment:

CSG+::::::1001+020'

DLP DELIVERY PARTY DETAILS**C(C)**

Volvo's identity of goods terminals.

Conditions:

The segments is only mandatory when a supplier is requested by Volvo to deliver the goods via a goods terminal, chosen by Volvo.

3296**Internal ID. No****M(M) an..17(an..17)**

Code for the consolidating point.

SEVTA Volvo Transport Terminal Arendal, Sweden
BEVTR Volvo Transport Terminal Ghent, Belgium
GBIMM Volvo Terminal Immingham, England
FIHEL Scansped Terminal Helsinki Finland

Example of the DLP-segment:

DLP+:::SEVTA'

DTR DATA ON TRANSPORT**M(C)****8212****Identification of the Means of Transport****C(C) an..17(an..17)**

Identification/registration number of the actual means of transport.

Conditions:

This data element will only be used after special agreement.

8164**Trailer Number****C(C) an..17(an..17)**

Identification number of the equipment used for the transport.

Conditions:

This data element will only be used after special agreement.

8028**Conveyance Reference Number****C(C) an..17(an..17)**

Reference number.

Conditions:

This data element will only be used after special agreement.

3296 Internal Id. No M(M) an..17(an..17)

Code for the actual carrier
See Appendix number 4.

1188 Transport Document Number C(C) an..17(an..17)

The identification number of the freight document. The reference number of the transport valid between Supplier - Carrier - and Volvo.

Conditions:

Mandatory information for all transport to Volvo's plants and facilities in Sweden.

Note:

The unique reference number on the transport document must be given in data element 1188 and on the consignment note.

In the case of consignment notes without a unique reference number, such as CMP consignment notes, we recommend that the supplier creates a unique reference number or uses the following method for unique reference numbers:

type of transport document
supplier (consignor) number
date YYMMDD

Example: CMR1234941030

Note:

The reference number must be clearly shown on the document and be identical to the number given to the data element 1188 in the DTR-segment and in the Transport Document.

Example of the DTR-segment:

DTR+++:::ASG+9490016040'

ARD ARTICLE DETAILS**M(M)****Note:**

If in one consignment, an article delivered is related to different order numbers (ARD 1022) or if one article is delivered under different technical statuses (ARD 7860), several occurrences of the ARD-segment are required, one for each order number or technical status.

7304 Buyer's Article Number**M(M) an..24(an..35)**

Volvo's article number. Must be given without leading spaces or zeros.

Note:

The supplier is responsible for converting his own internal article number to Volvo's article number.

6270 Quantity Delivered**M(M) n..10(n..10)**

The number or units of the article.

Note:

The quantity indicated here must correspond to the total sum of packed quantity, which will be indicated in the subordinate TCO segment: i.e. number of S-marked units (7224) x packed quantity per S-marked unit (6853).

6410 Measure Unit Specifier**C(C) an..3(an..3)**

Sort code according to ISO standard.
See Appendix number 5 or ODDC 25.

Conditions:

Default value is PCE (piece).

1022 Order Number**M(M) an..17(an..17)**

Order number for the specific article.
Can be obtained from DELINS.

3239 **Country of Origin, coded** **M(C) a2(a2)**

Code for country of origin. Code values according to ISO standard, see Appendix number 5, or ODDC 6.

7860 **Design Revision Number** **C(C) an..14(an..35)**

The technical status of drawing documentation.

Conditions:

This data element will only be used after special agreement.

Example of the ARD-Segment:

ARD+1234567+300+123901234020+++P03'

Exp/Imp:

ARD+1234567+450+222901234086+SE++P03'

ADP LINE ITEM SPECIFIC DATA**C(C)****Conditions:**

This segment will only be used after special agreement.

Note:

Because there is a one-to-one relationship between the ADP-segment and the ARD-segment, it is necessary to repeat the ARD-segment each time there is change in the content of the corresponding ADP-segment.

7338 Article Batch Number**C(C) an..9(an..17)**

Batch numbers.

Conditions:

This data element is used when special traceability is required - Document Obligation. Volvo will provide code values individually to suppliers concerned.

1310 Part Consignment Number**C(C) an..17(an..17)**

Reference number.

Conditions:

This data element is used to give special references to an order line. Volvo will provide instructions to suppliers concerned.

1420 Kanban Card Number**C(C) an..3(an..3)**

Reference number.

Example of the ADP-segment:

ADP++56789'

DAI GENERAL ARTICLE INFORMATION**C(C)****Conditions:**

Conditional segment for deliveries within the EU.

Mandatory segment for all other deliveries.

6160 Net Weight**M(M) n..11(n..11)**

The total net weight for the delivered quantity of the article number stated in the preceding ARD-segment.

The supplier's inner packaging material, if any, shall be included. Weight shall be given with decimals when it is less than one kilogram.

5116 Item Amount**M(M) n..15(n..15)**

The total invoiced amount for the article (quantity x price). The value can be stated with a maximum of two decimals.

An amount having a decimal separator, must have at least one digit before and after the separator. Ending zeros should be omitted.

Example:

5555:55 is stated 5555.55 or 5555,55

5555:50 is stated 5555.5 or 5555,5

5555:00 is stated 5555.0 or 5555,0 or 5555

6345 Currency, coded**M(M) a3(a3)**

Code for the currency used in the invoice. Code values according to ISO standard.

See Appendix number 5 or ODDC 7.

9213 **Type of Duty Regime, coded** **C(C) an1(an..8)**

Conditions:

Mandatory information for trade between EFTA countries (Iceland, Liechtenstein, Norway, Switzerland) and the EU. In this case, confirmation is to be given if the delivered article complies with the terms for origin goods specified in the current free trade agreement.

Note:

Only origin goods can be exempted from customs duty when imported to EU countries. The fact that an article is produced/assembled in a country covered by a free trade agreement does not automatically entitle the article to be exempted from customs duty. The article must comply with the current rules of origin to be exempt from customs duty.

Quote one of the following alternative values to confirm that the article complies with the rules of origin specified in current free trade agreements.

0 No preference origin

1 Origin subject to EC/EFTA preference.

Example of the DAI-segment:

DAI+100++1500:NOK++1'

TCO TYPE OF PACKAGES**M(C)****Note:**

The TCO-segment shall be repeated:

- when an article number, shown in the preceding ARD-segment, is packed in different types of packages
- when a package contains an odd quantity which differs from standard or recommended quantity

7064 Type of packages**C(C) an..35(an..35)****Conditions:**

Used for contract packing.

1906 Package Reference Number**M(M) an..35(an..35)**

Volvo's reference number for the type of packaging used in the delivery.

Note:

Consult the special instructions in Appendix number 9.

7224 Number of Packages**M(M) n..6(n..6)**

Number of packages = number of S-labelled units (standard pallets or small boxes). Empty packages should not be included.

6853 Quantity of Articles in Package**M(C) n..10(n..10)**

The number of units or the article per S-marked package (standard pallets or small box).

Note:

If the number of packages differs, the TCO-NCO segments should be repeated.

The sum of packed quantity given here, shall correspond to the quantity delivered indicated in the ARD segment in tag 6270.

= number of S-marked units (7224) x packed quantity of S-marked units (6853).

6410 Measure Unit Specifier**C(C) an..3(an..3)**

Sort code according to ISO standard. See Appendix number 5 or ODDC 25.

Conditions:

Default value is PCE (piece).

Example of the TCO-segment:

TCO+:112131+2+150'

NCO PACKAGE IDENTIFICATION NUMBERS**M(C)****Note:**

These segments should contain information which identifies the goods, i.e. identifiers + shipping marks.

Shipping marks

Identification number on supplier packaging or transport units consisting of no more than nine digits, excluding the introductory zeros. This number should be unique during a calendar year and should be chosen by the supplier.

Separate sequences, not necessarily consecutive (in order), can be used for goods labelled with S, M or G.

If the consignment contains more than 98 S-labelled units (NCO 7102) per article number, the segment should be repeated.

Volvo uses three principal types of transport units for its material handling and each type has a special design and labelling.

Standard pallets

Goods labelling = S + unique shipping marks

The standard pallet is a simple handling unit, containing a fixed quantity of ONE article number.

Any inside packages are to be labelled with the article number, quantity and, wherever possible, supplier's number.

Unit loads

Goods labelling = M + unique shipping marks

A uniform load contains a number of small boxes with the same article number.

Every small box has an individual goods label = S + unique shipping marks.

Mixed loads

Goods labelling = G + unique shipping marks

The mixed load is a handling unit containing a number of different article numbers packed in one or more small-boxes

Each small-box is individually labelled = S + unique number.

7246 **Transport Label Number** **C(C) an..10(an..17)**

Label number on M or G-packages.

Conditions:

This data element is only used when the article is included in an uniform load (M) or in a mixed load (G) package.

7102 **Shipping Marks** **M(M) an..10(an..17)**

Label number of S-marked package (standard or small-box).

Example of the NCO-segment:

NCO++S1001:S1002'

NCO+M10+S11:S12'

GIN GOODS IDENTITY NUMBER**C(C)**

The segment is to be used to information about the serial number, manufacturing number etc. for those components which are identified as individual units:

cabs
engines
gearboxes
etc.

Conditions:

This segment will only be used after special agreement.

Note:

In the case that more than 10 individuals of one article number are present in each package, further GIN-segment should be created.

7402 Identity Number**M(M) an..35(an..35)**

Individual number.

Example of the GIN-segment:
GIN+12345:12346'

PVT WEIGHT AND VOLUME TOTALS**M(C)**

Total gross weight and volume of the consignment.

Note:

The weight and volume quoted here must match the information on the consignment note and, wherever applicable, the delivery note/invoice.

6012 Consignment Gross Weight**M(M) n..12(n..12)**

Gross weight expressed in KGM (kilogram), without decimals.

Note:

This weight can be obtained by adding together the gross weights of all the parcels in the consignment, including empty filler units.

6422 Consignment Cube**M(C) n..9(n..9)**

Volume expressed in MTQ (cubic meter) with maximum if three decimals.

Note:

This volume can be obtained by adding together the volumes of all the parcels in the consignment, including empty filler units.

An amount having a decimal separator, must have at least one digit before and after the separator. Ending zeros should be omitted.

Example:

15.000 is indicated 15 15.0 or 15,0

15.500 is indicated 15.5 or 15,5

5.550 is indicated 15.55 or 15,55

15.555 is indicated 15.555 or 15,555

Volume information for the most common standard packaging can be found in Appendix number 8.

Example of the PVT-segments:

PVT+720++1.94'

DAN DOCUMENT REFERENCES**C(C)**

The consignor's data relating to the type of the shipping document, its identity number and date.

Conditions for information relating to the invoice (code 380):

Conditional information for deliveries from EU countries to Volvo's plants and facilities in Sweden.

Mandatory information for deliveries from EU countries to Volvo's plants and facilities in Belgium.

Mandatory information for all deliveries outside the EU.

Conditions for requirements relating to declaration of origin (code 861/862):

Mandatory information for all deliveries from an EFTA country to an EU country.

Note:

A declaration of origin can be made either through an EUR-1 certificate (code 861) or an invoice declaration (code 862).

Observe:

Information about the invoice and the declaration of origin for the consignment for which notification has been given is required for all deliveries from an EFTA country to one of Volvo's plants or facilities in an EU country.

The DAN segment should therefore be repeated twice:

once to provide information about the invoice (code 380) and the date of the invoice and

once to provide information about the declaration of origin (code 861 or 862) and the date.

1001 Document Name, coded M(C) n(n3)

Code for the document referred to:

380 Commercial Invoice

861 EUR certificate **or**

862 Invoice Declaration

1004 Document Number M(M) an..17(an..17)

The identity number of the document to which reference is made.

For Commercial Invoice (code 380) we ask for: invoice number

For EUR-Certificate (code 861) we ask for: certificate number

For the Invoice Declaration (code 862) we ask for: code value EXPDECL

2007 Document Date, coded M(M) n6(n6)

Issuing date for the document to which reference is made,

For Commercial (Code 380) we ask for: invoice date

For the EUR-Certificate (code 861) we ask for: issuing date

For Invoice Declaration (code 862) we ask for: invoice date

Format YYMMDD.

Example of the DAN-segment:

DAN+380+5420001+940414'

DAN+862+EXPDECL+940114'

7.7 Examples of application

In the following examples only segments and data elements according to Volvo's requirements have been included.

Example 1 (less complicated)

On January 14th, Volvo's supplier 1234 (within the EU) has two outgoing deliveries of a product with Volvo number 1234567, 300 of which are going to be delivered to Volvo Trucks in Gothenburg, delivery address Plant 1001, goods address F-11 020, and 400 of which are going to be delivered to Volvo Cars in Ghent, Belgium, delivery address Plant 4509, consignee BBS.

The products are packed in lots of 150 on an L-pallet with two frames and a spacer. Every parcel weights 360 kilos and has a volume of 0.55 cubic metres.

Deliveries to Volvo Trucks are made directly to the specified delivery address by carrier ASG.

Deliveries to Volvo Cars in Ghent are made by Bilspedition to Volvo's terminal in Arendal to be loaded with other goods bound for Ghent.

With the current syntax rules and in accordance with Volvo's specification, the notification is as follows:

Despatch Advice - within EG

```
    ---Initial service segments according to ISO/EDIFACT--  
MID+222111+950114:1429'  
CDT+:::::1234'  
CSG+:::::1001+020'  
DTR+++:::::ASG+9490016040'  
ARD+1234567+300+123901234020+++P03'  
TCO+:112131+2+150'  
NCO++S1001:S1002'  
PVT+720++1.10'  
  
    ---Ending service segments according to ISO/EDIFACT---
```

Despatch advice - export

---Initial service segments according to ISO/EDIFACT---

```
MID+111333+940114:1429'  
CDT+:::::1234'  
CSG+:::::4509+086'  
DLP+:::::SEVTA'  
DTR++++:::::BSP+8490066035'  
ARD+1234567+450+222901234086+SE++P03'  
TCO+:112131+3+150'  
NCO++S2001:S2002:S2003'  
PVT+1080++1.65'  
DAN+380+5420001+950114'
```

---Ending service segments according to ISO/EDIFACT---

Example 2 (complicated)

A consignment from supplier 301 in Norway (outside the EU) directly to Belgium by truck, trailer number NV256, carrier ASG.

The customs information is given in the form of net weight, price, declaration of origin and invoice declaration.

The consignment comprises four article numbers on a total of two pallets. These products are safety components and have unique production numbers.

- Pallet 1 (G100005) is a mixed small box pallet and contains 2 small boxes with 250 products with article number 1271666 in each box, 2 small boxes with 300 products with article number 3546625 in each box.

The products have a net weight of 0.20 kg and a price of 3 Norwegian kronor.

The small boxes is labelled S3000-S3007.

- Pallet 2 (S50001) contains 4.000 products on an L-pallet with 4 frames and 1 spacer with article number 3512235.

The products have a net weight of 0.10 kg and a price of 5 Norwegian kronor.

The message will be described as follows

---Initial service segments according to ISO/EDIFACT--

-

MID+909218+950114:1221'
CDT+:::::301'
CSG+:::::4509+086'
DTR++NV256+:::::ASG+8894078784'
ARD+1271666+500+2381903301028+NO++P02'
ADP++100'
DAI+100++1500:NOK++1'
TCO+:100780+2+250'
NCO+G100005+S3000:S30001'
ARD+1271890+600+238900301086+NO++P01
APD++101'
DAI+120++1800:NOK++1'
TCO+100780+2+300'
NCO+G10005+S3002:S3003'
ARD+3512235+4000+238900301086+NO++P01'
ADP++102'
DAI+400++20000:NOK++1'
TCO+:114141+1+4000'
NCO++S50001'
ARD+3546625+3200+213900301086+NO++P02'
ADP++103'
DAI+640++9600:NOK++1'
TCO+:100780+4+800'
NCO+G100005+S3004:S3005:S3006:S3007'
PVT+1540++1.54'
DAN+380+645511+950114'
DAN+862+EXPDECL+950114'

--- Ending service segments according to ISO/EDIFACT ---

8.0 Application of commercial invoice (INVOIC) for production material within Volvo

8.1 General

This document describes Volvo's application of the ODETTE message INVOIC.

The specification offers a detailed description of those data element which will be used.

In the following description the general notation invoice is used.

The basis of this application is the ODETTE message INVOIC, version 3, issued by the secretariat in June 1990.

The frequency and scope of the INVOIC are specific for each company within Volvo.

See Appendix number 2 for more detailed information.

8.2 Purpose and basic function of message

The purpose of the invoice is to issue a request for payment concerning executed shipments sent to the consignee, according to the conditions agreed upon.

An invoice must always refer to at least one Despatch Note/Despatch Advice to be accepted by Volvo.

An Despatch Note/Despatch Advice should always correspond to a consignment defined as a certain quantity of goods despatched from a certain consignor to a certain consignee on a certain occasion. For further information, please study the Volvo application for AVIEXP.

8.3 Documentation requirements in connection with electronic invoicing

Current legislation in Sweden does not require the existence of an invoice document any longer. There are no claims for invoice documents for the electronic transmitted invoices. Each Volvo company notifies the supplier when paper invoices will cease to be sent.

Note:

For import and export paper invoice are required as Transport Documents.

Obviously there is a need for placing high demands on the internal invoicing systems of both sellers and buyers. The original invoice transactions must be saved and be able to be presented by both parties for a period regulated by national laws. The supplier's system has to be able to re-transmit an invoice file.

The information contained within an invoice must correspond with the issuer as well as the receiver. Volvo will not accept any incorrectness in the invoice and will not change its content in any way. The document must be complete and correct before the payment can be executed.

8.4 Creation and issue of invoice

An invoice is based on an accomplished delivery/despatch.

The invoice shall contain the same information as a regular invoice document, i.e. both information for payment and complete specification over the invoiced items.

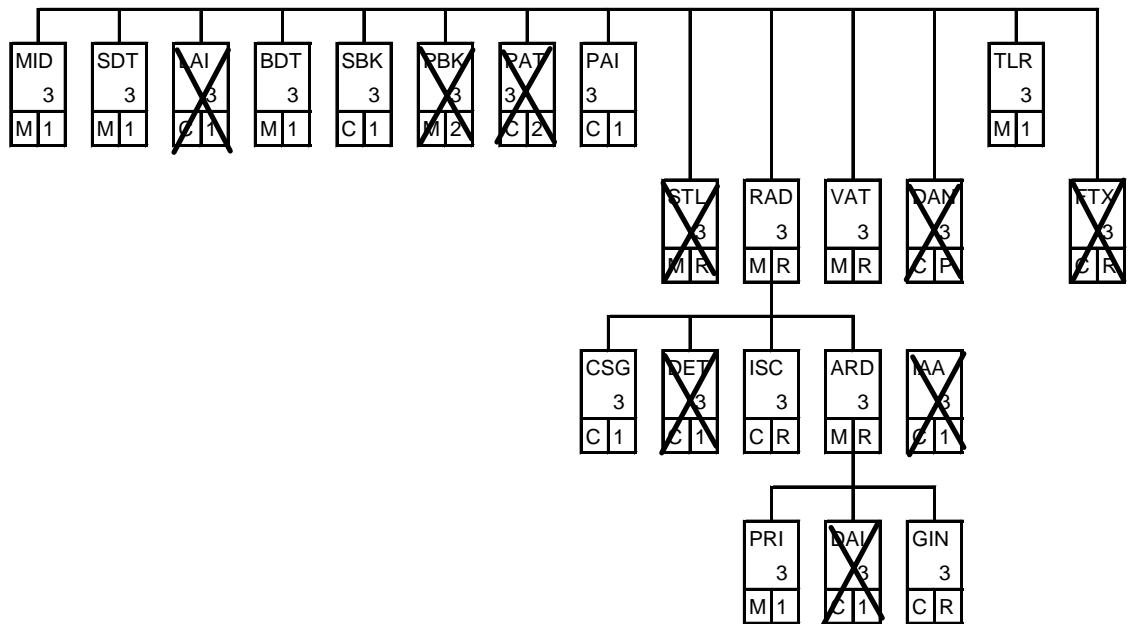
The details of Volvo's requirements are shown below. Volvo's application contains a high degree of mandatory information. Only a limited number of segments/data elements are conditional. The use of conditional information is determined after direct agreement with each individual supplier.

8.5 Structure and basis of the INVOIC

Initial and closing service segments shall be included in the data file which gives the supplier's invoice.

Within Volvo we have the following segment structure and etailed contents in this segment.

The following structure has been taken from Odette's international specification.



Crossed out segments will not be used by Volvo.

8.6 Detailed application

The following section includes only those segments and data elements, which are included in Volvo's requirements.

The supplier may of course include any other additional information he considers necessary, such information will however not be processed by Volvo.

Conditional segments

Under each segment heading, we are giving instructions of when to use the segment.

Some segments will only be used after special agreement.

Any individual Volvo company is free to make such agreement with any supplier or group of suppliers. The Volvo company is then responsible for giving detailed instructions of how to use the segment.

Conditional data elements

Under each data element heading we specify the valid conditions.

Many data elements are subject to special agreements and any Volvo company is free to make an individual agreement with any supplier in order to fulfil the needs for information of the company.

MID MESSAGE IDENTIFICATION**M(M)**

The unique identification of the message.

1004 Document Number**M(M) an..8(an..17)**

Unique number for the invoice. It may not be repeated within one year.

2007 Document Date, coded**M(M) n6(n6)**

The date on which the invoice was created.
Format YYMMDD.

Example of the MID-segment:
MID+902333+940705'

SDT SELLER DETAILS**M(M)**

Volvo's identity of the supplier/seller i.e. the unit which is responsible for the commercial activities.

3036 Party Name**M(C) an..35(an..35)**

Supplier's name and address.

3296 Internal ID. No**M(M) an..10(an..17)**

The supplier number, which has been allocated to the seller. The number should be given without leading space or zeros.

3808 VAT Registration Number**C(C) an..17(an..17)**

The buyer's VAT registration number.

Conditions:

Mandatory information for deliveries within the EU.

Example of the SDT-segment:
SDT+:DYNOPLAST AB:::::1335+++SE556074308901'

BDT BUYER DETAILS	M(M)
The supplier's identity of the company, within Volvo, acting as legal buyer.	
3036 Party Name	M(C) an..35(an..35)
The buyer's name and address.	
3296 Internal ID.No	M(M) an..17(an..17)
The customer number issued by the supplier.	
3808 VAT Registration Number	C(C) an..17(an..17)
The buyer's VAT registration number.	
Conditions: Used according to the legislation in each country.	
Example of the BDT-segment: BDT+:VOLVO CAR CORP:::::299300002+++SE556074308901'	
SBK SELLER'S BANK DETAILS	M(C)
Information relating to the customer's bank and bank account.	
3434 Financial Institution Number	C(C) an..17(an..17)
Code for the payee bank or other financial institution.	
Conditions: Mandatory if field 3432 is not specified.	
3432 Financial Institution Name	C(C) an..35(an..35)
Name and address of payee bank etc.	
Conditions: Mandatory if field 3434 is not specified.	
3194 Account Holder Number	M(C) an..17(an..17)
Identification of payee, payee number, according to agreement with Volvo.	
Example of the SBK-segment: SBK+:SV HANDELSBANKEN+1277649'	

PAI	PAYMENT INSTRUCTIONS	M(C)
	The invoiced currency is to be stated here.	
6345	Currency, coded	M(M) a3(a3)
	ISO currency code, see Appendix number 5.	
2481	Payment Due Date, coded	C(C) n6(n6)
	Format YYMMDD.	
	Conditions:	
	The data element is only to be used after special agreement.	
	Example of the PAI-segment:	
	PAI+SEK'	

RAD	REFERENCE	M(M)
	Note:	
	This segment is used for information about the despatch notes, which are in the invoice. The segment is repeated as many times as there are despatch notes in the invoice.	
1004	Document Number	M(M) an..8(an..17)
	Identification of Despatch Note/Despatch Advice referred to in the invoice.	
2007	Document Date, coded	M(M) n6(n6)
	Date of Despatch Note/Despatch Advice. Format YYMMDD.	
	Example of the RAD-segment:	
	RAD+72481+940705'	

CSG CONSIGNEE DETAILS**M(C)****3296 Internal ID. No****M(M) an..10(an..17)**

Volvo's plant or warehouse number.
See Appendix number 1.

Example of the CSG-segment:
CSG+:::1003'

ISC SUNDRY CHARGES**C(C)****Conditions:**

This segment is only to be used after special agreement.

Possible extra costs for the given delivery are indicated here in the RAD segment.

Note:

The segment is repeatable if several extra costs occur for the same delivery note.

5803 Allowance/Charge Type, coded**M(M) n4(n4)**

Extra costs.

The first two positions indicate category, the last two types of cost within respective category.

0100 Sundry charges

0200 Transportation

0300 Packing costs

0800 Setting costs

1200 Treatment costs

5164 Invoice Additional Cost Spec**C(C) an..35(an..35)**

Description of extra costs.

Conditions:

This data element is used to declare the cost more precisely.

5804 **Charge Item Amount** **M(M) n..15(n..15)**

Total extra costs per category of sundry charges.

The value is given with maximum of two decimals. When decimals are used the decimal signs must be preceded and followed by at least one digit. Concluding zeros must be omitted.

Exampel:

5555:00 is given 5555 alt 5555.0 or 5555,0

5555:50 is given 5555.5 or 5555,5

5555:55 is given 5555.55 or 5555,55

Example of the ISC-segment:

ISC+0300+PACKAGES+325.55'

ARD	ARTICLE DETAILS	M(M)
7304	Buyer's Article Number	M(C) an..24(an..35)
	Volvo's article number. Without leading spaces or zeros.	
	Note: The supplier is responsible for converting Volvo's article number to the supplier's own internal article number.	
6270	Quantity Delivered	M(M) n..10(n..10)
	Delivered quantity of the article.	
6410	Measure Unit Specifier	C(C) an..3(an..3)
	Sort code according to ISO, see Appendix.	
	Conditions: Default value is PCE (pieces).	
1022	Order Number	M(C) an..17(an..17)
	The order number for the specific article.	
	Note: This should be the purchaser's complete order number for the product, but without hyphens.	
	Example of the ARD-segment: ARD+1338574+340:PCE+215901335005'	

PRI LINE ITEMS INVOICE PRICE DETAILS**M(M)**

The segment comprises price and amount per article line.

5110 Unit Price M(M) n..15(n..15)

Price per article unit.

The value is given with maximum of two decimals. When decimals are used the decimal signs must be preceded and followed by at least one digit.

Example:

55:00 is given 55.0 alt 55,0 or 55

55.50 is given 55.5 or 55,5

55.55 is given 55.55 or 55,55

5284 Unit Price Basis C(C) n..9(n..9)

Price Unit, i.e. the multiple of the presented price.

Volvo are permits the following values:

price per 1 unit of an article

price per 100 units of articles

price 1000 units of articles

Conditions:

Default value is Unit = 1.

5116 Item Amount**M(M) n..15(n..15)**

The total invoiced value for the article (line amount). It is possible to use 2 decimals.

Example of the PRI-segment:

PRI+2.69+914.60'

GIN GOODS IDENTITY NUMBER**C(C)**

The segment is to be used for information about the serial number, manufacturing number etc., for those components which are identified as individual units.

cabs
engines
gearboxes
etc.

Conditions:

This segment will only be used after special agreement.

Note:

In case the package contains more than 10 individuals of one article number, another GIN-segment shall be created.

7402**Identity Number****M(M) an..35(an..35)**

Individual number.

Example of the GIN-segment:

GIN+12345:12346'

VAT VAT/TAX TRAILER**M(M)**

The specification for Value Added Tax (VAT).

Note:

For invoices not subjected to VAT, zero is entered in data element 5338, 5122 and 5490.

If there are articles with different VAT rates in the invoice, one segment per VAT rate shall be created.

5338 Amount Subject to Tax**M(M) n..15(n..15)**

The total amount which is the basis for the Value Added Tax calculation. The value is given by a maximum of two decimals.

Note:

Check that the sum of the amounts in VAT 5338 should be greater then or equal to the sum of amounts specified in TLR 5214 plus TLR 5140.

Formlua: $\text{Sum VAT 5338} \geq (\text{TLR 5214} + \text{TLR 5140})$

Check that the sum of the amounts, which are specified in VAT 5338 are equal to the sum of ISC 5804 plus Sum PRI 5116.

Formula: $\text{Sum VAT 5338} = \text{Sum (ISC 5804 PRI 5116)}$

The value is given with maximum of two decimals.

5122 Value Added Tax Rate**M(M) n..7(n..7)**

VAT rate expressed as a percentage.
It is possible to use 3 decimals.

Example:

15,0 % is 15 or 15.0 alt 15,0.

20,5 % is 20.5 or 20,5.

25,125 is 25.125 or 25,125.

5490 Value Added Tax Amount M(M) n..15(n..15)

Total VAT amount. It is possible to use 2 decimals.

Example of the VAT-segment:
VAT+21505.97+25.00+5376.49'

TLR TRANSACTION TRAILER M(M)

5214 Article Items Total M(M) n..15(n..15)

The total amount of the invoice (excluding extra costs and value added tax), i.e. the total value of the goods.

The amount can be specified to a total of two decimals places.

Note:
Check that the sum in TLR 5214 is reconciled with the sum of all PRI 5116.

Formula: TLR 5214 = Sum PRI 5116.

5068 Invoice Amount M(M) n..15(n..15)

The total amount of the invoice (including extra costs and value added tax), i.e. the total value of the goods. The amount can be specified to a total of two decimal places.

Note:
Check that the sum specified here, is equal to the sum of the amounts specified in 5214 plus 5140 plus 5490.

Formula: TLR 5068 = (TLR 5214 + TLR 5140 + TLR 5490)

5490 Value Added Tax Amount C(C) n..15(n..15)

Total VAT amount for the invoice. It is possible to use 2 decimals.

Conditions:

Mandatory only in the cases of VAT obligation.

5140 Invoice Additional Amount C(C) n..15(n..15)

Sum of extra costs.

The sum can be specified to a total of two decimal places.

Conditions:

This data element is only used when extra costs have been reported in ISC 5804.

Note:

Check that the sum, which is specified here, is reconciled with the sum of all the amounts specified in ISC 5804.

Formula: TLR 5140 = Sum ISC 5804

Example of the TLR-segment:

TLR+21505.97+27289.40++5457.88+325.55'

8.7 Examples of application

The examples below include only mandatory segments and data elements which meet Volvo's requirements.

An invoice consist of ONE article number for goods consignee VTV. Price per article is SEK 2.45. The number of articles supplied = 500 pieces. VAT = 25 %. The supplier has also invoiced the packaging cost, SEK 325.55.

According to the valid syntax rules and with regard to the above Volvo requirements, the message will be described as follows:

```
--- Initial service segment according to ISO/EDIFACT ---
MID+902333+940705:1557'
SDT+:DYNOPLAST AB:::::1335+++SE556074308901'
BDT+:VOLVO CAR CORP:::::299300002+++SE556074308901'
SBK+:SV HANDELSBANKEN+1277649'
PAI+SEK'
RAD+72481+940705'
CSG+:::::1003'
ISC+0300+PACKAGES+325.55'
ARD+1338574+340:PCE+215901335005'
PRI+2.69+914.60'
ARD+1338657+1300:PCE+215901335005'
PRI+0.32+416.00'
ARD+1342880+410:PCE+129901335005'
PRI+5.19+2127.90'
ARD+1358737+153:PCE+211901335005'
PRI+14.91+2281.23'
ARD+3537809+357:PCE+272901335005'
PRI+18.90+6747.30'
ARD+3538914+250:PCE+136901335005'
PRI+8.98+2245.00'
ARD+3538918+250:PCE+212901335005'
PRI+8.96+2240.00'
ARD+3538919+100:PCE+212901335005'
PRI+9.49+945.00'
ARD+3538920+80:PCE+212901335005'
PRI+9.45+756.00'
ARD+3544052+400:PCE+241901335005'
PRI+2.27+908.00'
ARD+3544053+400:PCE+241901335005'
PRI+2.27+908.00'
ARD+6848109+51:PCE+274901335005'
PRI+19.94+1016.94'
VAT+21831.52+25.00+5457.88'
TLR+21505.97+27289.40++5457.88+325.55'
--- Ending service segment according to ISO/EDIFACT ---
```

9.0 Application of SYNCRO message within Volvo

9.1 General

This document describes Volvo's application of the Odette SYNCRO message.

The specification includes a detailed description of those data elements which will be used.

The basis of this application is the Odette message entitled SYNCRO version 2, issued by the secretariat in September 1990.

The frequency and scope of the SYNCRO message are specific for each company within Volvo.

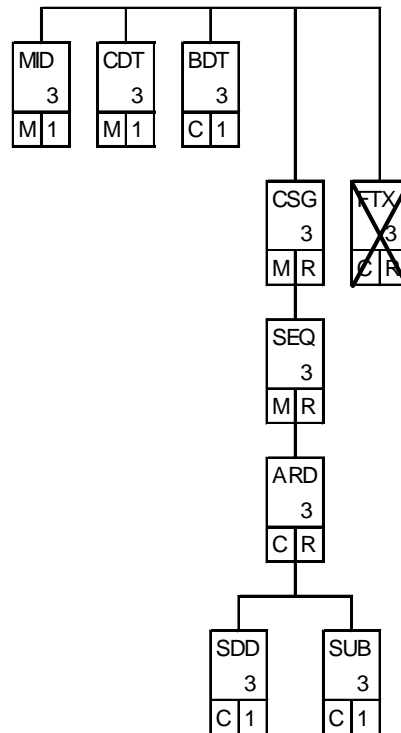
See Appendix number 2 for more detailed information.

9.2 File structure

Initial and closing service segments are included in the data file which contains Volvo's syncro message.

The detailed application of the ISO/EDIFACT syntax standard is presented in section 3.

The following structure has been taken from Odette's international specification.



Crossed out segments are not used within Volvo.

9.3 Detailed application

MID	MESSAGE IDENTIFICATION	M(M)
	The messages unique identification.	
1004	Document Number	M(M) an..17(an..17)
	SYNCRO number.	
2007	Document Date, coded	M(M) n6(n6)
	The date on which the message was created. Format YYMMDD.	
2002	Time	C(C) n4(n4)
	The moment in time at which the message was created. Format HHMM.	
	Example of the MID-segment: MID+9402181025+940218:1250'	
CDT	CONSIGNOR DETAILS	M(M)
	Volvo's identity of the supplier.	
3296	Internal Id. No	M(C) an..10(an..17)
	The supplier number allocated to the consignor, actually sending the goods. The number should be given without leading space or zeros.	
	Example of the CDT-segment: CDT+:::::843'	

BDT BUYER DETAILS**M(C)**

The supplier's identification on Volvo.

3296 Internal ID. No**M(C) an..17(an..17)**

The customer number issued by the supplier.

Example of the BDT-segment:

BDT+:::22500'

CSG CONSIGNEE DETAILS**M(M)**

Volvo's identification of the consignee.

3036 Party Name**C(C) an..35(an..35)**

The name and address of the Volvo plant. Should be printed on the transport label.

3296 Internal ID. No**M(C) an..10(an..17)**

Volvo's plant or warehouse number.

See Appendix number 1.

3921 Final Delivery Point, coded**M(C) an..8(an..17)**

Final delivery point. Should not be printed on the transport label.

3923 Additional Destination Details, coded**C(C) an..17(an..17)**

Final unloading point. Should be printed on the transport label in the " Dock and Gate " field.

Example of the CSG-segment:

CSG+:VOLVO TRUCK CORP TUVE:::1001+020+LB21 15309 020'

SEQ	SEQUENCE DETAILS	M(M)
	Information about sequence and direct delivery.	
1241	Information Status, coded Select one of following values: AM Amendment CC Cancellation CR Creation RP Replacement PR Proposal	M(M) an2(an2)
7910	Production Sequence Number Conditions: Mandatory if sequenced delivery.	C(C) an..8(an..8)
2803	First Date, coded Assembly date. Format YYMMDD. Conditions: Mandatory if direct delivery.	C(C) n6(n6)
2002	Time Assembly time. Format HHMM. Conditions: This data element is used with data element 2803.	C(C) n4(n4)
1844	Vehicle Identification Number Conditions: Mandatory if sequenced delivery,	C(C) an..17(an..35)

7905 **Manufacturing Reference Number** **C(C) an..17(an..17)**

Conditions:

Mandatory for direct delivery.

4440 **Free Text** **C(C) an..70(an..70)**

4440 **Free Text** **C(C) an..70(an..70)**

4440 **Free Text** **C(C) an..70(an..70)**

Conditions:

This data element will only be used after special agreement.

Example of the SEQ-segment:

Sequenced delivery:

SEQ+CR+14+357027'

Direct delivery:

SEQ+CR+:940308+:123456'

ARD ARTICLE DETAILS **C(C)**

7304 **Buyers Article Number** **M(M) an..24(an..35)**

Volvo's article number. Without leading zeros.

Note:

The supplier is responsible for converting Volvo's article number to the supplier's own internal number.

7008 **Article Description** **C(C) an..35(an..35)**

Volvo's description of the article.

6270 **Quantity Delivered** **C(C) n..10(n..10)**

Total quantity called-off.

Conditions:

Mandatory if direct delivery.

Example of the ARD-segment:

Sequenced delivery:

ARD+1665660:SILENCER'

Direct delivery:

ARD+1665330+30

SDD	SEQUENCE DELIVERY DETAILS	C(C)
	Conditions: This segment is only to be used when sequenced delivery.	
2803	First Date, coded	M(M) n6(n6)
	Assembly date within Volvo. To be stated on the transport label. Format YYMMDD.	
2002	Time	C(C) n4(n4)
	Assembly time.	
	Conditions: This data element is used with data element 2803.	
6060	Quantity	M(M) n..10(n..15)
	Quantity called-off.	
	Example of the SDD-segment: SDD+940225+1'	
SUB	SUB ADDRESS	C(C)
	Conditions: This segment will only be used after special agreement.	
3921	Final Delivery Point, coded	M(C) an..8(an..17)
	Delivery address. It is not stated on the transport label.	
3923	Additional Destination Details, coded	C(C) an..17(an..17)
	Final unloading point. Should be stated on the transport label in the " Dock and Gate " field.	
	Example of the SUB-segment: SUB+020+LB21 15309 020'	

9.4 Example of application

Sequenced delivery:

A SYNCRO message for supplier 843 regarding delivery of a silencer 1665660, vehicle identification number 357027, production sequence number 14. The vehicle is to be assembled 930205 on assembly address 15309.

With the existing syntax rules and following the Volvo specification above, the message is described as follows:

```
--- Initial service segment according to ISO/EDIFACT ---  
MID+9402181025+940218:1250'  
CDT+:::::843'  
BDT+:::::22500'  
CSG+:VOLVO TRUCK CORPORATION TUVE:::::1001+020+LB21  
15309 020'  
SEQ+CR+14+357027'  
ARD+1665660:SILENCER'  
SDD+940218:1250+1'  
SUB+020+LB21 15309 020'  
--- Ending service segment according to ISO/EDIFACT ---
```

Direct delivery:

```
--- Initial service segment according to ISO/EDIFACT ---  
MID+94105+940225:2250'  
CDT+:::::12345'  
CSG+:VOLVO TRUCK CORPORATION TUVE:::::1001+020+LB21  
15309 020'  
SEQ+CR+:940308+:123456'  
ARD+1665330+30'  
SUB+020+LB21 15309 020'  
--- Ending service segment according to ISO/EDIFACT ---
```

10.0 Application of KANBAN messages within Volvo

10.1 General

This document describes Volvo's application of the Odette KANBAN message.

The specification includes a detailed description of those data elements which will be used.

The basis of this application of the Odette message entitled KANBAN version 2, issued by the secretariat in September 1990.

The frequency and scope of the Kanban message are specific for each company within Volvo.

See Appendix number 2 for more detailed information.

10.2 Contents and development

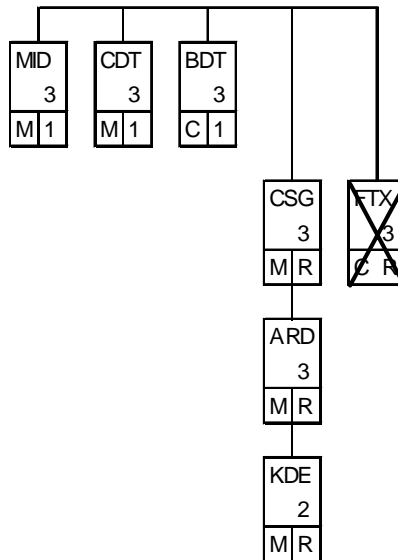
The message KANBAN gives the instruction to the supplier to despatch the specified article and quantity.

10.3 File structure

Initial and closing service segments are included in the data file which contains Volvo's KANBAN message.

The detailed application of the ISO/EDIFACT syntax standard is presented in Chapter 3.

The following structure has been taken from Odette's international specification.



Crossed segments are not used within Volvo.

10.4 Detailed Application

MID	MESSAGE IDENTIFICATION	M(M)
	The messages unique identification.	
1004	Document Number	M(M) an..17(an..17)
	KANBAN document number.	
2007	Document Date, coded	M(M) n6(n6)
	The date on which the message was created. Format YYMMDD.	
2002	Time	C(C) n4(n4)
	The moment in time at which the message was created. Format HHMM.	
	Example of the MID-segment: MID+9406181025+940618:1250'	
CDT	CONSIGNOR DETAILS	M(M)
	Volvo's identity of the supplier.	
3296	Internal ID. No	M(C) an..10(an..17)
	The supplier number allocated to the consignor, actually sending the goods. The number should be given without leading space or zeros.	
	Example of the CDT-segment: CDT+:::::843'	

BDT	BUYER DETAILS	M(C)
	The supplier's identification of the customer.	
3296	Internal ID. No	M(C) an..17(an..17)
	The customer number issued by the supplier.	
	Example of the BDT-segment: BDT+:::22500'	
CSG	CONSIGNEE DETAILS	M(M)
	Volvo's identification of the consignee.	
3036	Party Name	C(C) an..35(an..35)
	The name and address of the Volvo plant. Should be printed on the transport label.	
3296	Internal ID. No	M(C) an..10(an..17)
	Volvo's plant or warehouse number. See Appendix number 1.	
3921	Final Delivery Point, coded	M(C) an..8(an..17)
	Final delivery point. Should not be given on the transport label.	
3923	Additional Destination Details, coded	C(C) an..17(an..17)
	Final unloading point. Should be printed on the transport label in the " Dock and Gate " field.	
	Example of the CSG-segment: CSG+:WLO, ESK:::259+901+901'	

ARD	ARTICLE DETAILS	M(M)
7304	Buyer's Article Number	M(M) an..24(an..35)
	Volvo's article number. Without leading zeros.	
	Note: The supplier is responsible for converting Volvo's article number to the supplier's own internal number.	
1022	Order Number	C(C) an..17(an..17)
	The order number of the article.	
	Example of the ARD-segment: ARD+1675432++900900843901'	
KDE	KANBAN DELIVERY DETAILS	M(M)
1420	Kanban Card Number	M(M) an..3(an..3)
	Reference number	
6853	Quantity of Articles in Package	M(M) n..10(n..10)
	Quantity in packages.	
6410	Measure Unit Specifier	C(C) an..3(an..3)
	ISO sort code, see Appendix number 6.	
	Conditions: Default value is PCE (pieces).	
7064	Type of Packages	C(C) an..35(an..35)
	Type of packages.	
	Conditions: This data element will only be used after special agreement.	
2001	Date, coded	M(M) n(n6)
	Call-off date. Format YYMMDD.	
	Example of the KDE-segment: KDE+1+250:PCE++940810'	

10.5 Example of application

A KANBAN message with card number = 1 to supplier 843 for delivery of article 1675432.

With the existing syntax rules and following the Volvo specification above, the message is described as follows:

```
--- Initial service segment according to ISO/EDIFACT ---  
MID+9406181025+940618:1250'  
CDT+:::::843'  
BDT+:::::22500'  
CSG+::VME, ESK::::259+901+901'  
ARD+1675432++900900843901'  
KDE+1+250:PCE++940810'  
--- Ending service segment according to ISO/EDIFACT ---
```

11.0 Application of Engineering Data (ENGDAT Version 1) within Volvo

11.1 General

This document describes the application by Volvo of the Odette ENGDAT message.

The specification includes a detailed description of the data elements used.

The Odette ENGDAT message version 1, issued by the Odette secretariat in June 1992, will constitute the basis for the application.

11.2 The purpose of the message

The purpose of the message is to provide the end-receiver with information on the technical documents included in the transmission.

The ENGDAT message is distinguishable from other Odette messages by the fact that the information about the constituent documents and the actual information itself are sent as separate files. The technical documents do not include address information, nor any MID segment. The virtual file name is thus used to hold together the logical package, i.e. ENGDAT and associated technical documents.

11.3 Structure of the file names

A virtual file is created as follows:

ENG<EXCHANGE REFERENCE><NUMBER OF FILES>
<FILE NUMBER>

ENG (AN3): Message identification. Only used for the ENGDAT message.

Exchange Reference (AN17): Transmission identification. Set by the sender and must be unique for each transmission between the sender and the receiver.

Number of files (N3): Number of files in the transmission, including ENGDAT

File number (N3): Sequence number, i.e. the serial number that is put on every file. The sequence number of ENGDAT is always 001. Technical documents in a transmission have sequence numbers between 002 and 999.

Example: ENG01015000000009950003001

It is possible to identify this as an ENGDAT file through the sequence number (001).

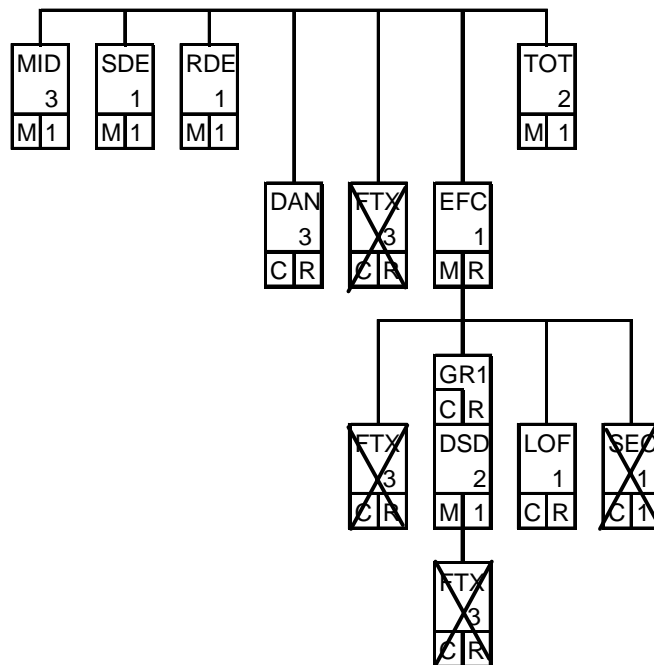
For more detailed information, please refer to ENGDAT specification, version 1.

11.4 File structure

Heading and trailing service segments shall be included in the file that describes the technical documents which are transferred between Volvo and its partners.

Detailed information in how this ISO/EDIFACT syntax standard should be applied, is given in Chapter 3.

The structure below has been taken from the international Odette specification.



Crossed out segments will not be used by Volvo.

11.5 Detailed application of ENGDAT

MID	MESSAGE IDENTIFICATION	M(M)
	The unique identification of the message.	
1004	Document Number	M(M) an17(an..17)
	Unique identification for each transmission. Must be identical to Exchange Reference.	
2007	Document Date, coded	M(M) n6(n6)
	The date on which the message is created. Format of the date is YYMMDD.	
2002	Time	M(C) n4(n4)
	The time at which the message is created. The format of the time is HHMM.	
	Example of the MID-segment: MID+00000000000009550+940524:1125'	

SDE	SENDER DETAILS	M(M)
	Identification of sender.	
3006	Party Name	C(C) an..35(an..35)
	Name of sending organisation.	
3296	Internal ID.No	M(C) an..17(an..17)
	Identification of sender at receiver's end.	
3412	Department or Employee	C(C) an..35(an..35)
	Department of sender.	
3412	Department or Employee	C(C) an..35(an..35)
	Name of sender.	
3928	Telephone Number	C(C) an..17(an..17)
	Format: country code, area code, subscriber number.	
3896	Electronic Mail Address	C(C) an..35(an..35)
	Electronic mail address.	

Conditions:

Where Volvo is the sender, the electronic mail address is always given.

The mail address is an address linked to the ENGDAT application.

Example P101234.

Example of the SDE-segmenen:

SDE+:VOLVO CAR CORPORATION::::::1234 ++53430:

ERIK OLSSON:46 31591235::::::PI01234'

RDE	RECEIVER DETAILS	M(M)
3036	Party Name Name of receiving organisation.	C(C) an..35(an..35)
3296	Internal ID.No Identification of receiver at sender's end.	M(C) an..17(an..17)
3412	Department of Employee Department of receiver.	C(C) an..35(an..35)
3412	Department of Employee Name of receiver.	C(C) an..35(an..35)
3928	Telephone Number Format: country code, area code, subscriber number.	C(C) an..17(an..17)
3896	Electronic Mail Address Electronic mail address.	C(C) an..35(an..35)

Conditions:

Where Volvo is the receiver, the electronic mail address should always be given.
The mail address is an address linked to the ENGDAT application.

Example PC02552

Example of the RDE-segmenten:

RDE+:PLAST OCH PLAT AB:::::987

++CADAM:EVA PERSSON:46 31112233'

DAN	DOCUMENT REFERENCE	C(C)
	Document or project to which ENGDAT refers.	
	Conditions: This segment will only be used after special agreement.	
	Note: The segment should be repeated for each new document type to which reference is made.	
1001	Document Name, coded	C(C) n3(n3)
	Code for document type. See ODDC 1.	
1000	Document Name	C(C) an..17(an..17)
	A document name can denote projects, orders, etc.	
	Conditions: If the code for the document type is absent, this data element should be used.	
1004	Document Number	C(C) an..17(an..17)
	Identification number for the document in question. If it is an Odette document, the number is obtained from data element 1004 in the MID segment from the document in question.	
2007	Document Date, coded	C(C) n6(n6)
	Print-out date of the document referred to. The format of the date is YYMMDD.	
	Example of the DAN-segment: DAN+:PROJECT+9093'	

EFC	ENGINEERING FILE CHARACTERISTICS	M(M)
	Features of documents included in the transmission.	
1899	File Sequence Number	M(M) n..3(n..3)
	Sequence number of documents included in the transmission. The number must correspond to the number specified in the file name. The sequence number is always > 001. See Chapter 11.3.	
6913	File Format, coded	M(C) an3(an..3)
	Translation format of documents included in the transmission. See Appendix number 6 or ODDC 77.	
9906	Format Version	C(C) an..10(an..10)
	Version of translation format.	
	Conditions: This data element must be specified if referring to a CAD/CAM document and the translation format is not Native. Version refers to version of the standard; IGES, VDAFS etc, and not the version of the processor.	
1939	Data Code, coded	M(M) an..3(an..3)
	The character code of the documents included in the transmission. See Appendix number 6 or ODDC 78.	
4882	Generating System	C(C) an..35(an..35)
	System used to generate technical documents.	
	Conditions: The generating system must be specified on those occasions where data 6913 = Native.	
4880	Generating System's Version	C(C) an..35(an..35)
	Version of generating system.	
	Conditions: If data element 4882 is used, data element 4880 must be specified. The method of specifying the version is adapted according to each system's internal (official) way of doing this e.g. V4R1M3 (CATIA), V3R1M0 (CAD/CAM).	

- 4889** **Generating Command** **C(C) an..35(an..35)**
- Command used when the document (file) is created.
- 9909** **File Status, coded** **M(M) an..3(an..3)**
- Describes document status, i.e. the processors in which they may be used.
See Appendix 6 or ODDC 79.
- Note:**
For Volvo, shall all CAD/CAM documents included in the transmission have the same status.
- 4894** **Data Type C(C) an..35(an..35)**
- Document type. Specifies whether the document is a drawing or a model.
- Conditions:**
Document type must be specified when the document is a CAD/CAM document.
- Valid document types for a CAD/CAM document:
- | | |
|--------------|---------------------|
| 2D | DRAW |
| 3D | MODEL |
| 3D/2D | MIXED MODEL/DRAWING |
- 4891** **Compression** **C(C) an..35(an..35)**
- Specifies which of the authorised compression techniques has been used.
- Note:**
A bilateral agreement should be established between Volvo and its partners.
- Example of the EFC-segment:
EFC+2+IGS::4.0+ASC++INF++2D+ODZIP001'
- GR1** **SEGMENT GROUP 1** **C(C)**
- A conditional segment group used to describe the technical documents, models/drawings, included in the transmission.
- Conditions:**
The segment group should only be used on those occasions where CAD/CAM documents are included in the transmission.

DSD	DRAWING SPECIFICATION DETAILS	M(M)
	Describes a CAD/CAM document in current transmission.	
	Note: The segment is obligatory when segment group GR1 is used.	
1809	Drawing Number	C(C) an..10(an..35)
	Volvo's document identification (drawing number, model number).	
	Conditions: This data element must be used when there is a unique document identification on the drawing/model.	
1808	Drawing Description	C(C) an..35(an..35)
	Description of drawing.	
	Conditions: When data element 1809 is absent, data element 1808 must be used.	
7860	Design Revision Number	C(C) an..14(an..35)
	Edition of drawing documentation.	
	Conditions: This data element is used together with data element 1809.	
1376	Engineering Change Number	C(C) an..17(an..17)
	Change number.	
2001	Date, coded	C(C) n6(n6)
	Date on which above drawing edition (data element 7860) has been completed. The format of the date is YYMMDD.	
	Example of the DSD-segment: DSD+++01234567+++P06::940120'	

LOF	LINKS TO OTHER FILES	C(C)
	Logical links to other files in the transmission.	
	Conditions: This segment will only be used after special agreement.	
1899	File Sequence Number	M(C) n3(n3)
	File number in the transmission to which there is a logical link.	
	Note: Reference is always made to one of the preceding documents, e.g. a file with sequence number 3 refers to the file with sequence number 2.	
4883	Link Purpose, coded	C(C) an3
	Logical link between documents. See Appendix number 6 or ODDC 80	
	Example of the LOF-segment: LOF+2+DRA'	
TOT	TOTALS	M(M)
6060	Quantity	
	The total number of files, including ENGDAT, included in the transmission.	
	Example of the TOT-segment: TOT+3'	

11.6 Example of application

The example describes a transmission of an ENGDAT message from 1234 Volvo Personvagnar AB to supplier 987. In addition to ENGDAT, transmission 00000000000009950 also includes a drawing (2D) in Iges format and a model (3D) in Native format. The model has been created in a Catia system. ENGDAT refers to project 9093. Both the drawing and the model have document identification '01234567' and the logical link between these can be deduced from the LOF segment.

```
--- Initial service segment according to ISO/EDIFACT ---  
MID+00000000000009950+940524:1125'  
SDE+:VOLVO CAR CORPORATION:::::1234++53430:  
ERIK OLSSON:46 31591235:::::PI01234'  
RDE+:PLAST OCH PLAT AB:::::987++CADCAM:EVA PERSSON:46 31112233'  
DAN+:PROJECT+9093'  
EFC+2+IGS::4.0+ASC++INF++2D+ODZIP001'  
DSD+++01234567+++P03::940101'  
EFC+3+NAT::3.1+BIN+CATIA:V4R1M3+INF++3D+ODZIP001'  
DSD+++01234567+++P06::940120'  
LOF+2+DRA'  
TOT+3'  
--- Ending service segment according to ISO/EDIFACT ---
```

Appendix 1***Volvo's identification of consignee*****Code Name**

101 Volvo Wheel Loaders AB, Arvika, Sweden
Logical Address 094200005563101319 000101
VAT registration number SE556310131901

258 Volvo Construction Equipment Cabs AB, Hallsberg, Sweden
Logical Address 094200005565276838 000258
VAT registration number SE556527683801

259 Volvo Construction Equipment Components AB, Eskilstuna, Sweden
Logical Address 094200005565276820 000259
VAT registration number SE556527682001

1001 Volvo Truck Corp., Göteborg, Sweden
Logical Address 094200005560139700 001001
VAT registration number SE556013970001

1003 Volvo Car Assembly Plant, Torslanda, Göteborg, Sweden
 Logical Address 094200005560743089 001003
VAT registration number SE556074308901

1004 Volvo Car Body Plant, Torslanda, Göteborg, Sweden
Logical Address 094200005560743089 001004
VAT registration number SE556074308901

1013 Volvo Car International, KSO, Göteborg, Sweden
Logical Address 094200005560743089 001013
VAT registration number SE556074308901

1014 Volvo Car Corp., Kungälv, Sweden
Logical Address 094200005560743089 001014
VAT registration number SE556074308901

1015 Volvo Car Corp., Göteborg, Sweden
Logical Address 094200005560743089 001015
VAT registration number SE556074308901

- 1019** Volvo Car Pilot Plant, Göteborg, Sweden
Logical Address 094200005560743089 001019
VAT registration number SE556074308901
- 1024** Volvo Bus Corp., Borås, Sweden
Logical Address 094200005560139700 001001
VAT registration number SE556013970001
- 1080** Volvo Truck Parts AB, Nordenlagret, Arendal, Sweden
Logical Address 094200005560139700 001080
VAT registration number SE556013970001
- 1127** AUTONOVA, Uddevalla, Sweden
Logical Address 094200005562320142 001127
VAT registration number SE556232014201
- 1164** Volvo Truck Components Corp., Lindesberg, Sweden
Logical Address 094200005560000753 001164
VAT registration number SE556000075301
- 1165** Volvo Truck Components Corp., Köping, Sweden
Logical Address 094200005560000753 001165
VAT registration number SE556000075301
- 1222** VME Articulated Haulers, Braås, Sweden
Logical Address 094200005563601615 INKART
VAT registration number SE556360161501
- 1437** Volvo Penta, Köping, Sweden
Logical Address 094200005560341330 001437
VAT registration number SE556034133001
- 1441** Volvo Car Corp., Aftersales, Göteborg, Sweden
Logical Address 094200005560743089 001441
VAT registration number SE556074308901
- 1540** Volvo Truck Corp., Umeå, Sweden
Logical Address 094200005560139700 001540
VAT registration number SE556013970001
- 1555** Volvo Car Corp., Olofström, Sweden
Logical Address 094200005560743089 001555
VAT registration number SE556074308901
- 1614** Volvo Car Components Corp., Köping, Sweden
Logical Address 094200005561974931 001614
VAT registration number SE556197493101

- 1618** Volvo Penta Parts, Göteborg, Sweden
Logical Address 094200005560341330 001618
VAT registration number SE556034133001
- 1619** Volvo Penta, Göteborg, Sweden
Logical Address 094200005560341330 001619
VAT registration number SE556034133001
- 1621** Volvo Car Components Corp., Skövde, Sweden
Logical Address 094200005561974931 001621
VAT registration number SE556197493101
- 1622** Volvo Truck Components Corp., Skövde, Sweden
Logical Address 094200005560000753 001622
VAT registration number SE556000075301
- 1625** Volvo Car Components Corp., Floby, Sweden
Logical Address 094200005561974931 001625
VAT registration number SE556197493101
- 1626** Volvo Penta, Vara, Sweden
Logical Address 094200005560341330 001626
VAT registration number SE556034133001
- 1680** Volvo Lastvagnar Komponenter, Flen, Sweden
Logical Address 094200005560000753 001680
VAT registration number SE556000075301
- 2124** Volvo Truck Corp., Torslanda, Sweden
Logical Address 094200005560139700 001001
VAT registration number SE556013970001
- 2270** Volvo Aero, Trollhättan, Sweden
Logical Address 094200005560290347 002270
VAT registration number SE5560290347
- 2511** Volvo Wheel Loaders AB, Eskilstuna, Sweden
Logical Address 094200005563101319 002511
VAT registration number SE556310131901
- 2800** Volvo Do Brasil Veiculos Ltda, Curitiba, Brasil
Logical Address 094200005560139700 002800
- 3324** Volvo Car Corp., Aftersales, Born, The Netherlands
Logical Address 094200005560743089 001441
VAT registration number SE556074308901

- 4042** Volvo GM Heavy Truck Corp., Orrville, Ohio, USA
Logical Address 094200005560139700 004042
- 4053** Volvo GM Heavy Truck Corp., Orrville, Ohio, USA
Logical Address 094200005560139700 004053
- 4111** Volvo GM Heavy Truck Corp., Westerville, Ohio, USA
Logical Address 094200005560139700 004111
- 4119** Volvo GM Heavy Truck Corp., Westerville, Ohio, USA
Logical Address 094200005560139700 004119
- 4173** Volvo GM Heavy Truck Corp., Westerville, Ohio, USA
Logical Address 094200005560139700 004173
- 4185** Volvo GM Heavy Truck Corp., Orrville, Ohio, USA
Logical Address 094200005560139700 004185
- 4388** Volvo GM Heavy Truck Corp, Dublin, Virginia, USA
Logical Address 094200005560139700 004388
- 4415** Volvo GM Heavy Truck Corp., Portsmouth, Virginia, USA
Logical Address 094200005560139700 004415
- 4509** Volvo Car Europe Industries, Gent, Belgium
Logical Address 094200005560743089 004509
VAT registration number BE420383548
- 4645** Volvo Europe Truck, Gent, Belgium
Logical Address 094200005560139700 004645
VAT registration number BE420383647
- 5011** Volvo Truck Parts Corp., Rugby, England
Logical Address 094200005560139700 005011
VAT registration number GB262872148
- 5071** Volvo Trucks GB, Irvine, Scotland
Logical Address 094200005560139700 005071
VAT registration number GB262872148
- 7633** VTP Support Distribution Center, Vantaa, Finland
Logical Address 094200005560139700 007633
VAT registration number FI09937932
- 13507** Volvo Truck Parts Lyon, Miribel, France
Logical Address 094200005560139700 013507
VAT registration number FR79392374690

14489 Volvo Truck Parts Corp., Gent, Belgium
Logical Address 094200005560139700 014489

Appendix 2

Detailed description of how DELINS and SYNCRO are used

1.0 Volvo Truck Industrial, Göteborg and Volvo Bus, Borås implementation

1.1 DELINS

1.1.1 Delivery schedule subdivisions

Call-offs within the first four weeks are specified in a daily basis, which means that several call-offs can be made in one week, depending on requirements and despatch days.

The remaining weeks, up to 60, are registered with one call-off per week, tied to despatch day.

1.1.2 Creation of a delivery schedule

Delivery schedules are created every week. Distributed on Thursday afternoon.

The plans come into effect on the following Monday morning.

All call-offs which are not arrival noted before the effective date of the new schedule are reported as not delivered.

1.1.3 Specification of delivery schedule call-offs

Undelivered call-offs are reported accumulated as the first quantity, with the same date as the date of issue of the delivery schedule. The call-offs are coded as back orders (3 in 7803).

The call-offs within the agreed time are coded as fixed call-offs (1 in 6811). Call-offs are in the ordering section (3 in 6811). Other call-offs are forecasts (4 in 6811).

1.2 SYNCRO

At the Volvo Truck Corporation, we use the SYNCRO message in Odette to transmit sequence and direct information. SYNCRO is used in three ways:

1.2.1 Sequence

The message is transmitted as sequence control information every day. Only vehicle which have recently been registered on the schedule are included. Information about a vehicle is only sent ONE time. Any adjustments are notified by other means.

The supplier delivers the goods in sequence order. The first and last chassis number on the pallet and the requirement time for the first chassis for which the pallet contains components should be quoted on the goods flag.

1.2.2 Direct 1

The message is transmitted as sequence control information every day. Only vehicles which have recently been registered on the schedule are included. Information about a vehicle is only sent ONE time. Any adjustments are notified by other means. The requirements are summed by the supplier for each consignment address, article and building date, with consideration given to the unit load volume. The first and last chassis number on the pallet and the requirement time for the first chassis for which the pallet contains components should be quoted on the goods flag.

1.2.3 Direct 2

The message is transmitted as direct control information once per week. The message contains requirements per consignee, building date, reference number and article. The transport label includes the reference number.

2.0 Volvo Truck Umeå's application

2.1 DELINS

Odette's schedules are produced twice a week. They are transmitted on Tuesday night and Thursday night.

The days shown on the schedule are the supplier's despatch days.

Each consignment is calculated to be in multiples of unit loads, all articles have their own unit load.

These schedules can be amended from one schedule production time to another as a result of changes in the production programme or balance adjustments occasioned by stock-taking, for example.

We can freeze schedules for a number of days for each supplier. There are however not normally any frozen schedules.

Consignments which remain registered as trailing, i.e. consignments which are in past time will remain there until they are removed manually, or a new inward consignment covers them.

A zero schedule is sent for the product which will not be needed during the next year at the time at which the schedule is produced but which had a schedule the last time a schedule was produced.

Delivery schedules contain the actual requirements for the first two weeks. The schedule for the following 47 weeks is a forecast.

The requirements in the forecasts are summed in various ways:

For the first 12 weeks, the requirements are specified per day, this means that there can be several consignments in one and the same week, depending on the number of despatch days and the size of the unit load.

From the 13th week, and for 12 weeks forward, the requirements are lumped at the week level.

The requirements from week 25 and forward are lumped per month.

2.2 SYNCRO

The message is transmitted every night and contains a forecast for two weeks. When the forecast covers two weeks, it contains both preliminary and definite vehicles, but there is no difference in status between the two.

As the file contains preliminary vehicles, there is a risk that the specifications will be amended when they become definite. As a result, amended and deleted specifications will also be sent via files in order to reduce the risk of mistakes which can otherwise easily occur if amendments and deletions are made manually.

The supplier only packs material for one assembly day in each package. The material in the package must be labelled with the unique identity in the syncrofile. The assembly day which is inside the packaging should be specified on the outside of the packaging.

3.0 Volvo Car Corporation implementation

3.1 DELINS

3.1.1 Principle subdivision of delivery schedules

Delivery schedule call-offs have been specified as follows:

The first two programme periods (8 or 9 weeks) are specified per day. The following 13 programme periods (4 or 5 weeks) are specified per week.

```
I-----I First 8 or 9 weeks, specified per day, if a new
           delivery schedule which starts with new
           programme period.
           I-----I Remaining weekly specified
                           consignment requirements, up
                           to 60 weeks planning
                           horizon.
```

3.1.2 Creation of delivery schedules

Delivery schedules from the assembly plants are issued periodically corresponding to every "industrial month" (4 or 5 weeks).

Consignments known by Volvo Car Corporations and material returns up to the reconciliation date, form the basis of calculation of requirements in the new delivery schedule.

All call-offs which are not arrival reported before the start date of the new schedule are reported as "NOT delivered".

The timetable for planned despatch of delivery schedules is issued for each new calendar year.

3.1.3 File structure

In order to permit the supplier's Order system to identify each Volvo plant as an individual customer, a separate DELINS message is created for each plant. A delivery schedule file is therefore structured in a number of a so-called "interchangers" (UNB segments) corresponding to the number of Volvo plants whose delivery schedules are covered by the data file.

3.2 SYNCRO

At the Volvo Car Corporation, we also use the Odette SYNCRO message to transfer sequence consignment information.

The message is transmitted as sequence control information with varying frequency, depending on the implementation at each assembly plant.

4.0 Volvo Car Corporation, Aftersales implementation of the Delins message

4.1 Creation of the delivery schedule

The delivery schedule has a precision level of weeks and deliveries are made to our central stores in Gothenburg in Sweden or Born in Holland.

The call-offs are presented with a despatch date for each fixed transport day. If several fixed transport days have been agreed, the first of these transport days is specified.

4.2 Revision of the current delivery schedule?

- A check of the current delivery schedule is made every week.
- A change of influencing factors, such as forecasts or stock situation, can result in a new delivery schedule.
- The new delivery schedule is always reconciled and updated with known, received inwards consignment
- A new delivery schedule always replaces the previous, applicable schedule in its entirety.

4.3 The delivery schedule call-offs are specified as follows:

In the normal case, the call-offs are specified for each despatch day from the supplier.

For purchases which include carriage and insurance, the arrival date at Volvo is specified.

In other cases, the call-offs are coded as follows.

TAG 7803 Type of delivery specifier:

Code = 1

Extra delivery in agreed, fixed time. Any extra delivery requested shall always be answered by contact with the responsible acquisition manager, irrespective whether delivery can take place or not.

Code = 3

These call-offs are call-offs in past time, based on our day of reconciliation, which have not yet been arrival reported by us.

The call-offs are reported with their original despatch date and specify back orders, not delivered quantities.

TAG 6811 Schedule status indicator:

Code = 3

Call-offs marked with a number 3 are call-offs covered by our outstanding order (DST segment, tag 6812).

If no subsequent schedule is issued for the article, it is expected that the article will be delivered on the specified day and in the quantity shown on the schedule.

Code = 4 (should only be used when special agreements have been reached)

Call-offs marked with a 4 are only forecasts, and may normally not be delivered before the call-offs are covered by an order issued by us, via a new delivery schedule in which the call-offs are re-coded as a number 3.

Code = 4 is only to be used after special agreement.

4.4 Confirmation of delivery schedules

Volvo Car Corporation, Aftersales, does not want any general confirmations of distributed delivery schedules.

If the supplier can NOT deliver in accordance with the transmitted delivery schedule, contact must be taken with the appropriate acquisition manager **WITHIN A WEEK**, to negotiate any differences.

In other cases, we regard the schedules as being accepted in their entirety by both parties.

5.0 Volvo Truck Part's implementation of the Delins message

5.1 Creation of a delivery schedule

Precision in the delivery schedule is one week, and consignments shall be addressed to our central warehouse in Belgium.

Call-offs are presented with despatch date for each fixed transport day. If several fixed transport days have been agreed, the first of these transport days will be specified.

5.2 Revision of a current delivery schedule?

- A check of the current delivery schedule is made every week.
- A change of influencing factors, such as forecasts or stock situation, can result in a new delivery schedule.
- The new delivery schedule is always reconciled and updated with known, received inwards consignment.
- A new delivery schedule always replaces the previous, applicable schedule in its entirety.

5.3 Delivery schedule call-offs are specified as follows:

In the normal case, the call-offs are specified for each despatch day from the supplier.

For purchases which include carriage and insurance, the arrival date at Volvo is specified.

In other cases, the call-offs are coded as follows:

TAG 7803 Type of delivery specifier:

Code = 3

These call-offs are call-offs in the past. They were not reported by us when making our reconciliation.

The call-offs are reported with their original despatch date and they specify remaining undelivered quantities.

TAG 6811 Schedule status indicator:

Code = 3

Call-offs marked with a number 3 are call-offs covered by our order rest (DST segment, tag 6812).

If no subsequent schedule is issued for the article, it is expected that the article will be delivered on the specified day and in the quantity shown on the schedules.

Code = 4

Call-offs marked with a 4 are only forecasts, and may normally not be delivered before the call-offs are covered by an order.

When the Call-off are covered by an order they are re-coded as Code = 3 in a new schedule.

5.4 Confirmation of delivery schedules

Volvo Truck Parts Corporation does not want any general confirmations of distributed delivery schedules.

If the supplier can NOT deliver in accordance with the transmitted delivery schedule, contact must be taken with the appropriate acquisition manager **WITHIN A WEEK**, to negotiate any differences.

In other cases, we regard the schedules as being accepted in their entirety by both parties.

6.0 Volvo Wheel Loaders implementation of the Delins message

6.1 Delivery schedule

The delivery schedule call-offs are specified as follows:

- Call-offs in the schedule before the first date in the new schedule are from the previous schedule.
- Call-offs are specified per day.
- Call-offs outside the ordering section only constitute forecasts in both time and quantity.

All call-offs in the delivery schedule are specified by the despatch day.

The delivery schedule is issued periodically and covers a period of around 60 weeks.

6.2 Creation of a delivery schedule

The Volvo Wheel Loaders' delivery schedule system produces delivery schedules for users.

- Arvika Plant
- Eskilstuna Plant
- Hallsberg Plant

Delivery schedules are issued at intervals corresponding to each "industrial month" (4 or 5 weeks), and cover about 60 weeks. The plan is based on doing a reconciliation 4 days before the start of the delivery schedule, and that distribution is done progressively during the subsequent four days.

Since the delivery schedule system also contains an on-line function for ongoing registration of incoming consignments, a further reconciliation of known inward consignments is done in conjunction with the actual printout of the final schedule. This means in principle that inward consignments, which are known to Volvo Wheel Loaders the day before printout, are booked off in the distributed delivery schedule.

A certain amount of re-scheduling can be done between the ordinary runs of the delivery schedule system, either manually or with computer support. When this re-scheduling is done, new delivery schedules may be issued, which replace the delivery schedules which were issued in conjunction with the ordinary run.

6.3 File structure

Since the Volvo Wheel Loaders' delivery schedule system covers several consignee delivery schedules, the consignees are distinguished by a CSG segment.

The above must not imply any requirement from the supplier that each consignment should contain delivery schedules for all consignees concerned.

The supplier's order system must be able to distinguish each consignee by means of the appropriate CSG segment.

7.0 Volvo Articulated Hauler's implementation of the Delins message

7.1 Delivery schedule

The schedule contains three sections: fixed sections, material authorisation and forecasts. The first two sections are dependent on agreement with the supplier, whereas the forecasts always covers one calendar year.

The days shown on the schedule are the supplier's despatch days.

7.2 Creation of a delivery schedule

Requirements calculations are run every Tuesday evening. The schedules are produced and distributed on the night between Wednesday and Thursday. In addition to this, we can produce individual schedules at any time.

All suppliers will receive a new schedule for all articles every week.

All inward consignments which have been made up to the instant when requirement calculations start, are taken into consideration in the creation of a new schedule.

Appendix 3***Contact persons***

Contact following persons for further information.

Volvo Data AB

EDI Support +46 31 66 22 00

Fax +46 31 66 26 26

Volvo Aero Corp.

Frank Lärk Johansson +46 520 94 679

Fax +46 520 98 503

Volvo Truck Corp.

P-O Gustavsson +46 31765 40 54

Lars Dimming +46 31 765 28 65

Fax +46 31 55 19 63

Ray Grönlund +46 31 66 58 67 (ENGDAT Endusers)

Fax +46 31 22 62 03

Bo Jung +46 31 66 66 79 (ENGDAT Computer technical)

Fax +46 31 61 33 44

Volvo Truck Parts AB

Ulf Nilsson +46 31 765 25 68

Fax +46 31 66 10 50

Marie Wolmesjö +46 31 765 40 53

Fax +46 31 66 10 50

Dennis Andersson +46 31 765 33 17

Fax +46 31 66 10 50

Volvo Truck Components Corp., Flen

Roland Eriksson +46 157 65 019

Fax +46 157 12 486

Volvo Truck Components Corp., Köping

Göran Sjöberg +46 221 22 539

Fax +46 221 165 60

Volvo Truck Components Corp., Lindesberg

Göran Sjöberg +46 221 22 539
Fax +46 221 165 60

Volvo Truck Components Corp., Skövde

Göran Ivarsson +46 500 47 51 75
Fax +46 500 47 54 50
Jorge Cabrera +46 500 47 46 22
Fax +46 500 48 84 74

Volvo Truck Corp., Umeå

Leif Oskarsson +46 90 70 73 94
Fax +46 90 70 76 00

Volvo Europa Truck

Chris Decadt +32 9 2504593
Fax +32 9 2516224

Volvo Truck Corp., Scotland

Fiona Bannatyne +44 1294 316674
Fax +44 1294 272840

Volvo Do Brasil, Brasil

Lourdes Milder +55 41 317 8030
Fax +55 41 317 8601

Volvo GM Heavy Truck

Kathy Bayer +1 919 2792416

Volvo Penta Corp.

Thomas Asplund +46 3166 84 89
Fax +46 31 22 89 37

Volvo Car Corp.

Anders Grangård 031-59 72 50
Katrín Schaper 031-59 40 25
Peter Hintze 031-765 95 58
Jüri Aadli 031-59 97 50
Anita Brink 031-59 15 87
Fax 031-59 71 90
Else-Marie Malmek 031-59 18 23 (ENGDAT)
Fax 031-59 76 66

Volvo Car Corp., Aftersales

Peter Danielsson +46 31 59 39 33
Lillemor Svensson +46 31 59 19 58
Fax +46 31 53 96 78

Volvo Car Corp., Olofströmsverken

Sigvard Nilsson +46 454 94 906
Fax +46 454 91 791

Volvo Car Components Corp., Köping

Hans Sallanto +46 221 22 543
Fax +46 221 22 246

Volvo Car Components Corp., Skövde

Håkan Ström +46 500 47 60 55/47 40 00
Fax +46 500 47 41 99

Volvo Transport Corp.

Björn Stellan +46 31 66 92 12
Håkan Norström +46 31 66 97 62
Fax +46 31 54 80 24

Volvo Wheel Loaders Corp.

Kjell Sjöberg +46 16 15 13 26
Fax +46 16 15 29 43

Volvo Articulated Haulers Corp.

Bo Hammarström +46 470 77 95 83

Fax +46 470 77 95 98

Appendix 4*Code of carrier***Name of carrier**

ADAMS, THEO	ADAMS
ADENA PICKOS	ADENA
A D R - TRANSPORT	ADR
AER LINGUS	*EI
AIR CANADA	*AC
AIR CAT	AIRCAT
AIR FRANCE	*AF
AIRLAND INTERNATIONAL	AIRLAND
AIRPORT FREIGHT SERVICES	AFS
ALFTA FRAKT	*ALFFR
ALITALIA	*AZ
AMERICAN AIRLINES	*AA
AMERICAN OVERSEAS TRANSPORT	AMTRANS
AMERICAN PRESIDENT LINES	APL
ANDERSEN TRANSPORT, JAN-ERIK	JEA
ANDERSSONS ÅKERI, ARNE	ANDERSSON
ANDERSSON & FLOOD	FLOOD
ANKARSRUMS BUSS & BENSIN	ANKBB
ASECO SERVICES	ASECO
ASG	ASG
ASG CHICAGO	ASGCHI
ASG UK (flygtransporter)	ASGUK
ATLANTIC CONTAINER LINES	ACL
AUTO CARGO INTERNATIONAL	ACI
AUTOCONTEX	AUTOCONT
BACHMANN LUFTFRACHT, J.H.	*BACHMANN
BEAUGIER FRERES TRANSPORT	BEAUGIER
BECKER, PPG	BECKER
BEIJER TOOLS, G & L	BEIJER
BERNTSEN, EDVARD	*BERNTSEN
BERTLING	*BERTLING
BIDDELOO INTERNATIONAL TRANSPORT	BIDDELOO
BILGODSFÖRMEDLINGEN	BGF
BILSPEDITION	BSP
BJÖRKLUNDS ÅKERI, DONALD	*BJORKLUND
BJÖRKMAN & SON AB, TAGE	BJOERKMAN
BL-PLAST	BLPLAST
BOREALIS INDUSTRIER	BOREALIS
BORG-TRANS	BORGTRANS
BORLIND, BERSEN & CO	*BORLIND
BORSOD VOLAN	*VOLAN

BRAAMS VAN VEEN
BRANDSTETTER AIRCARGO SERVICE
BRITISH AIRWAYS
BUDBOLAGET BORÅS
BURGER & ZOON, D.
CABEZA, FRANCISCO
CASE, J.I.
CALEDONIAN FREIGHT FORWARDERS
CARGO CARE INTERNATIONAL
CARGO PARTNERS
CARGOLUX AIRLINES
CCI SCANDINAVIA
CHARLIER TRANSPORTS
CLUGSTON DISTRIBUTION
COBELFRET
COMBI TRANS
COMPAGNIE GENERAL MARITIME
CONCORD FREIGHT SYSTEMS
CONROUTE I GBG AB
CONTERM AB
CONTINEX SPEDITION
COPEX AIR
COUGHLIN, F.X.
CURTIS, G.E. HEAVY HAULAGE
DACONORD
DAHLQVISTS ÅKERI
DANZAS
DAY BY DAY, HEULE
DE BRUIN INTERNATIONAL TRANSPORTS
DELGADO, RE.
DE ROOY & ZOONEN
DE SWAEF TRANSPORT
DENZEL
DFDS TRANSPORT
DHL INTERNATIONAL
DIREKTTRANSPORTER, BERGKVARA
DUX INDUSTRIER
ECOTRANS SHIPPING
EIMSKIP
EKENÅS MEKANISKA
EMERY WORLDWIDE
ERT
ESDIC
ESTLINE
EUROPA TRANSPORT
EUROPA/FATE
EUROTEAM
EUROUTE
EWALS EXPEDITIE
EXPEDITERS INTERNATIONAL
FEDERAL EXPRESS
FERGUSON, MASSEY

BVT
BRANDSTET
***BA**
***BUDBOR**
BURGER
CABEZA
CASE
CALEDON
CARGOCARE
CAP
***CV**
CCI
CHARLIER
CLUGSTON
COBELFRET
***COMBITRAN**
CGM
CONCORD
CONROUTE
CONTERM
CONTINEX
COPEX
COUGHLIN
CURTIS
DACONORD
***DAHLQVIST**
DANZAS
DBD
DEBRUIN
DELGADO
DEROOY
***DESWAEF**
***DENZEL**
DFDS
DHL
DIREKTBER
DUX
ECOTRANS
EIMSKIP
***EKEMEK**
EMERY
ERT
ESDIC
ESTLINE
EUROPA
EURFATE
EUROTEAM
***EUROUTE**
EWALS
EXPEDITER
***FEDEX**
FERGUSON

FERRYMAN
FINNAIR
FINNCARRIERS
FINNVEDENS EXPRESS TRANSPORT
FLUCKINGER TRANSPORT
FLYGBILAR AB LANDVETTER
FORBO FORSHAGA
FORMPLAST
FORSBERGS TRANSPORT
FORSHEDA BUDSERVICE
FRAKTARNA
FRAKTSERVICE I GÖTEBORG
FREIGHT MASTERS
FREIGHTMAN
FRITZ & CO, A.J.
G A ÅKERIERNA
GALLIKER TRANSPORT
GEMINI SHIPPING
GENFREIGHT
GENT HANDLING & DISTRIBUTION
GF TRANSPORT & SPEDITION
GHEMAR
GLOBAL INTERNATIONAL FREIGHT
GNOSJÖ BUDSERVICE
GRAVELLEAU TRANSPORTS
GREENSHIP
GREIFF TRADINA
GRIMALDI SIOSA LINES
GROPENGIESSER, HERBERT
GT SPEDITION
GULF AGENCY CARGO SERVICE
HAAS SPEDITION
HALLENS TRANSPORT
HAMBERGS
HANSA CARGO, HAMBURG
HANSA REGAL, DETROIT
HANSEN SHIPPING, GEORG
HANSSONS ÅKERI, NILS
HENLY HAULAGE, M.
HERRLJUNGA ÅKERI
HILLERSTRÖMS SHIPPING
HN TRANSPORT & DISTRIBUTION
HOFSTEDT, AXEL
HOLMENS ÅKERI
HORATH
HORDA COMPOUND
HOWELL & SONS TRANSPORT, R.
HOYER SVENSKA AB
HULTBERGS INRIKES TRANSPORTER
HW TRANSPORT
HYLTE PARTS
HÖDLMAYR

FERRYMAN
***AY**
FINNCAR
FINEXT
***FLUCKING**
FLYGBLAN
FORBO
FORMPLAST
FORSBERG
***FORBS**
***FRAKTARNA**
FRAKTSERV
***FRMASTER**
***FRMAN**
FRITZ
***GA**
***GALLIKER**
***GEMINI**
GENTLV
GHD
GFTS
GHEMAR
GLOBAL
GNOBS
TRANGRAV
GREENSHIP
GREIFF
***GRIMALDI**
***GROPENG**
RAS
GACS
***HAAS**
***HALLENS**
HAMBERG
HANSA
HARE
***HANSEN**
HANSSON
HENLY
***HERAK**
HFR
HND
HOFSTEDT
HOLMEN
HORATH
HORDA
***HOWELL**
***HOYER**
HIT
HWMUL
HYLPART
***HOEDLMAYR**

HÖEGH UGLAND AUTO LINERS	HUAL
HÖGSÄTERS TAXI	HOGTAXI
HÖRGRENS	*HOERGREN
IBERIA	*IB
ICELANDAIR	*FI
IGELFORS BRUK	IGEBRUK
INCOTRAN	*INCOTRAN
INTERCONTAINER	INTERCONT
INTERLIFT AIR CHARTERS	*INTERLIFT
INTERNATIONAL TRANSPORTS	ITCSEL
ITALIENEXPRESSEN	*ITEXPRESS
IVARAN LINES	IVARAN
JAMES, JOHN S.	*JAMES
JANSSON BUDSERVICE, K-O	JANSSON
JAPAN AIRLINES	*JL
JBF TRAFIK	JBF
JEFFREY BROKERS	*JEFFREY
JENNER'S CUSTOMS & FREIGHT	JENNERS
JENSEN TRANSPORT, BRÖD.	JENSEN
JET AIR	JETAIR
JETPACK	JETPAK
JITAB SPEDITION	JITAB
JIVAIR	*JIVAIR
JOHANSSONS ÅKERI, K & G	KGJ
JOHNSON SHIPPING	JOSHIP
JOHNSSONS ÅKERI, KURT	KJ
JOTEAM UK	JOTEAM
J-TRANS EUROLINE	JTRANS
JÖNSSONS ÅKERI	JOENSSON
JÖNSSON & CO, RUDOLF	RJOENSSON
KARLSSON ÅKERI, ARON	*KARLSSON
KEHRLI & OELER	KEHRLI
KF HANDEL	KF
KINNA LASTBILSTRAFIK	KINLBT
KINTETSU WORLD EXPRESS	*KWE
KJELLBERGS ÅKERI	KJELLBERG
KLM ROYAL DUTCH AIRLINES	*KL
KONTINENTTRANSPORT	*KONTTRAN
KOWLOON MOTOR BUS	KMB
KRUSENSJÖ ÅKERI	KRUSEN
KUEHNE & NAGEL	KUEHNE
KUNGSHOLMS EXPRESS	KUNGSHOLM
LA JAMAYERE, LABY D.	LABY
LALEMANT	*LALEMANT
LANE TRANSPORT, PETER	LANE
LASER AGENCY	LASER
LASTBILSSTATION SKELLEFTEÅ	LBSSKE
LASTBILSÄGARNAS ORDERCENTRAL	LBO
LEMAN INTERNATIONAL TRANSPORTS	LEMAN
LEP/OLSON & WRIGHT	*LEPOW
LEYLAND BUS EXPORTS	LEYLAND
LITTLEOVER TRANSPORT	LITTLE

LIVINGSTONE INTERNATIONAL	LIVINGSTO
LJUNGBERGS EGEN TRANSPORT	LJUNGBERG
LUFTHANSA CARGO	*LH
LUNDBY ÅKERI	*LUNAK
LUNDBY SKEPPSERVICE	LSS
LUNDMARKS LAST	LUNDMARK
LYSANDER SHIPPING	LYSANDER
MAERSK LINE	*MAERSK
MAGNUSSONS ÅKERI, BRÖD.	*MAGNUSSON
MALAYSIAN INTERNATIONAL SHIPPING	MISC
MALENSTEIN	MALEN
MARIESTADS TAXI	MARTAXI
MASERFRAKT	MASER
MATS TRANSPORT, LILLY	MATS
MAUGHAN TRANSPORT, PETER	MAUGHAN
MCC MERCANTILE EUROPE	MCC
MCCANN	MCCANN
MCFEE, E.C.	MCFEE
MCGREGOR SEA & AIR SERVICES	*MCGREGOR
MEFA	MEFA
MELLIN SHIPPING, FINN G.	*MELLIN
MELSHIP	*MELSHIP
MICON AIR CARGO	MICONAIR
MICROTEL	MICROTEL
MORTIER TRANSPORT	MORTIER
MOTOR TRANSPORT NORGE	MTPNO
MSAS CARGO INTERNATIONAL	MSAS
MÅNSSON VIMMERBY	MANSSON
NIPPON YUSEN KAISHA	NYK
NORA LINDE FRAKT	NLF
NORDCARRIER	NORDCARR
NORDÖ LINK	*NORDOLINK
NORFREIGHT	NORFR
NORLENS TRANSPORT	NORLEN
NORTHWEST AIRLINES	*NW
NURMINEN, JOHN	*NURMINEN
NUTALL TRANSPORT, PETER	NUTALL
NYBROK	NYBROK
OESCHGER INTERNATIONAL TRANSPORTS	OESCHGER
OLECH INTERNATIONAL	OLECH
OLEMA IMPORT	OLEMA
OLSKROKENS ÅKERI	*OLSAK
OLSSONS ÅKERI, SKÖVDE	*OLSSONS
ORIENT TRANSPORT	ORIENT
OUGHTRED & HARISSON	HARISSON
PAKETBUDET, HALMSTAD	PAKETBUD
PAN TRANSPORT	PAN
PANALPINA WORLD TRANSPORT	*PANALPINA
PANDORO	PANDORO
P & O EUROPEAN FERRIES	PO
PEKAES MULTI-SPEDYTOR	PEKAES
PETTERSSONS ÅKERI, BRÖD.	PETTER

POL-LINE	*POLLINE
POLAR AIRCARGO	POLAR
POSTEN LÄTTGODS	POSTLATT
QANTAS AIRWAYS	*QF
RADIX	RADIX
RATIONELL SPEDITION	*RATIONELL
RAVE TRANSPORTS	RAVE
RENT & WASH	RAW
RINGBORG	RINGBORG
RITSCHARD & CIE, H.	RITSCHARD
ROAD-LINK	ROADLINK
ROBERTS EXPRESS	ROBERTS
ROBINSON, HARPER	HARPER
ROCKE, E.A. CUSTOMS SERVICE	EAROCKE
ROSELIUS, U.A.	ROSELIUS
SABENA BELGIAN WORLD AIRLINES	*SN
S.A.I.M.A.	SAIMA
SAMFRAKT	SAMFRAKT
SAS SCANDINAVIAN AIRLINE SYSTEM	*SK
CIE SAS AGENCE FRET & DOUANE	CIESAS
SASSE & CO NV	SASSE
SCANDINAVIAN EXPRESS	SCANEX
SCANDINAVIAN FERRY LINES	SFL
SCANDINAVIAN MOTORTRANSPORT	SMT
SCANDLINES	SCANDLINE
SCANFREIGHT	SFT
SCANSOV TRANSPORT	*SCANSOV
SCANSPED	SCANSPED
SCHENKER TRANSPORT	*SCHENKER
SCHNECKENREITHER	SCHNECKEN
SCOT PAC INTERNATIONAL	SCOTPAC
SEKURIT SAINT-GOBAIN	SEKURIT
SHIPCO SHIPPING	SHIPCO
SILJA LINE	*SILJALINE
SIMPAC CUSTOMS CLEARANCE (WILSON)	SIMPAC
SKONVIK SHIPPING	SKONVIK
SMALLER TRANSPORT, CHRIS	*SMALLER
SPEDMAN	SPEDMAN
SPEED CARGO	SPC
STATENS JÄRNVÄGAR	SJ
STENA LINE	*STENALINE
STRANDBERGS FRAKTKONTOR	STR
STÖTFANGER TRANSPORT	*STOTFANG
SUPER FREIGHT INTERNATIONAL	SUPER
SWEDISH MARITIME	SMA
SWEDISH ORIENT LINE	SOL
SWETRAIL	*SWETRAIL
SWISSAIR	*SR
TAP AIR PORTUGAL	*TP
TARIFBUREAU	TAR
TEAMTRANS	TEAMTRANS
TELLUS SHIPPING	TELLUS

THIELMANN	*THIELMANN
TIPP & KRAN TRANSPORT	TIPPKRAN
TNT IPEC	TNT
TOLLPOST GLOBE	TOLLPOST
TONYS BUDBIL	TONY
TRACTO	*TRACTO
TRANSADRIA	ADRIA
TRANSOCEAN AGENCY	TRANS
TRANSPONS	TRANSPONS
TRANSPORTTJÄNST	TRPTJ
TRANSTEC/BURLINGTON EXPRESS	TRANSTEC
TRANSWAGGON	TWG
TRANSWECO	TRANSWECO
TROLLHÄTTEÅKARNAS LAST	TROLLAST
TT LINE	*TTLINE
U.C.B	UCB
UGLAND CAR CARRIERS, ANDREAS	UGL
UNITED PARCEL SYSTEM	UPS
UNIVERSAL AIR EXPRESS	UNIVERS
UNIVERSAL TRANSPORT	UNIVERSAL
VAN DEN EYNDE-GOODMA	VANDENEYN
VAN HOUT	*VANHOUT
VAN HOVE & CO	*VANHOVE
VAN OMMEREN SHIPPING AGENCY	*VANOMMERE
VERCAUTEREN TRANSPORT	VERCAUTER
VERHELST TRANSPORT	VERHELST
VIKING LINE	*VIKING
VIKINGTRANS EXPRESS SCAND.	*VTES
VOEST ALPINE STAHL	VOEST
VOLVO TRANSPORT	VTAB
VOS INTERNATIONAL, HARRY	VOS
VOS INT. TRANSPORTS, WIM	WVOS
V.T.G. NEDERLAND	VETEG
WALLENIUS LINES	*WALLENIUS
WEERST TRANSPORTS	WEERST
WESTHÜRINGER VERKEHRS	WTV
WESTLUND ÅKERI, ARNE	WESTLUND
WIBERGS ÅKERI, ÅKE	*WIBERG
WILHELMSSEN LINES	WILH
WILSON & CO	WILSON
WT WUTHRICH INT. TRANSPORT	WUT
ZELL ÅKERI, BERTIL	ZELL
ZIEGLER TRANSPORT	ZIEGLER
ÅKERIBOLAGET I BILLESOLM	AKBBIL
ÅKERICENTRALEN ALINGSÅS	AKCALI
ÅKERICENTRALEN GÖTEBORG	AKCGOT
ÅKERICENTRALEN TIDAHOLM	AKCTID
ÅMOTSFORS TRANSPORT	AMOTR
ÅSUNDENS ÅKERI	ASUAK

* = code which has changed since 9308.

Appendix 5***Country codes and currency codes***

Extract from ODDC 6 and ODDC 7.

AT	Austria	ATS	Schilling
BE	Belgium	BEF	Belgian Franc
CA	Canada	CAD	Canadian Dollar
CH	Switzerland	CHF	Swiss Franc
DE	Germany	DEM	German Mark
DK	Denmark	DKK	Danish Krone
ES	Spain	ESP	Pesetas
FI	Finland	FIM	Finish Mark
FR	France	FRF	French Franc
GB	United Kingdom	GBP	Pound Sterling
IE	Ireland	IEP	Irish Pound
IT	Italy	ITL	Lire
JP	Japan	JPY	Yen
NL	The Netherlands	NLG	Guilden
NO	Norway	NOK	Norwegian Krone
PT	Portugal	PTE	Escudos
SE	Sweden	SEK	Swedish krone
US	United States	USD	US Dollar

Sort codes

Extract from ODDC 25.

CEN	100 pieces
FTK	Square foot
GRM	Gram
KGM	Kilogram
LTR	Litre
MIL	1000 pieces
MTK	Square meter
MTR	Meter
PCE	Piece

Codes for additional expenses

Volvo's application of ODDC 9.

0100	Sundries
0200	Transports
0300	Packages
0800	Initial expenses
1200	Finish expenses

Codes for file format

Extract from ODDC 77.

	NAT	Native
	IGS	IGES
	VFS	VDAFS
	VIS	VDAIS
	SET	SET
	UNI	UNISURF
	SPA	SPAC
	STP	STEP
	DXF	DXF
	TI4	TIFF CCITT GR4 raster format
	TI3	TIFF CCITT GR3 raster format
	CAP	Cals Type 1 Product CCITT GR4 raster format
	CAT	Cals Type 1 Tech Pub CCITT GR4 raster
format	FOR	FORMTEK GR4 raster format
	FRM	FRAMEMAKER text format
	INL	INTERLEAF text format
	WOW	WORD FOR WINDOW text format
	WOP	WORD PERFECT text format
	EXE	(PC) text format
	CGM	CGM printer format
	TIP	TIFF printer format
	PSC	POSTSCRIPT printer format
	CAL	CALCOMP printer format
	BEN	BENSON printer format
	HPG	HPGL printer format
	DMI	DMIS input
	DMO	DMIS output

Data code

Extract from ODDC 78.

ASC ASCII, 7-bit

646 ISO 646 IRV, (International Reference Version)

885 ISO 8859-1, (Latin-1) used for ASCII 8-bit

EBC EBCDIC

BIN BINARY

OTH Other

File status codes

Extract from ODDC 79.

QUO For offer/quotation

TOD For tool design

TOM For tool manufacturing

MAN For manufacturing

INF For information only

NED New design revision

ENC For engineering consultation

USP Unspecified

Codes for link purpose

Extract from ODDC 80.

PAF Parent file

SUF Sub file

LAY Layer convention

MOD Model

DRA Drawing

TEC Technical regulation

PLF Plot file

COJ Conversion journal

For more information, see Odette codes, ODDC

Appendix 6

ENGDAT Version 1

Volvo ENGDAT Version 9308-2 has been added.

APPENDIX 1	Identities	Supplemented
APPENDIX 2	Application Delins etc.	Supplemented
APPENDIX 3	Contact persons	Supplemented
APPENDIX 4	EDI forms	Supplemented and moved to section 3.
APPENDIX 4	Carrier codes	Supplemented and new appendix number
APPENDIX 5	Various codes	Supplemented and new appendix number
APPENDIX 6	Comparison of versions	Supplemented and new appendix number
APPENDIX 7	Delivery document	Supplemented and new appendix number
APPENDIX 8	Volume information for packaging	New
APPENDIX 9	Packaging	New

Comparison between versions 9308 and 9308-2.

AVIEXP

<u>Volvo version 9308</u>		<u>Volvo version 9308-2</u>		<u>Type of amendment</u>
CSG	3923	M	CSG 3923	C Change of status
DTR	1188	M	DTR 1188	C Change of status Change of conditions
ADR	3239		ARD 3239	Change of conditions
DAI	9213		DAI 9213	Change of conditions
DAN-Segment			DAN-Segment	Change of conditions

INVOIC

<u>Volvo version 9308</u>		<u>Volvo version 9308-2</u>		<u>Type of amendment</u>
SDT	3808	SDT	3808	Change of conditions
BDT	3808	M	BDT 3808	C Change of status Change of conditions

SYNCRO

<u>Volvo version 9308</u>		<u>Volvo version 9308-2</u>		<u>Type of amendment</u>
ADR-Segment	M	SEQ-Segment	C	Change of status

Amendment of text

In addition to the above amendments, the text of all the messages and other instructions has been supplemented and clarified.

Appendix 7

Consignment document

Despatch note / Invoice copy

General

This section describes Volvo's recommendations for consignment documentation. The recommendation follows the guidelines issued by the Maintenance Group in Swedish Odette.

Documentation

Each physical delivery shall be accompanied by the documents required for the parties concerned with a consignment, to permit them to perform their part of the consignment task. The parties in most cases are the consignor, transporter, goods terminal, consignee and in crossborder consignments, the Customs & Excise in each importing an exporting country.

The documents which will always be required are:

- despatch note - goods
- way bill

Additionally, for export consignments:

- invoice copy
- and declaration of origin, where appropriate

Consignment

A consignment is the same as a physical transport of a given quantity of goods from ONE consignor on ONE occasion.

One more consignments can be loaded on one and the same transport unit, but no consignment must ever be split between transport units. If a consignment is too large to load onto a load carrier, the consignment should be divided up into smaller units and re-defined.

A consignment should always be kept together during transport from the consignor to the final consignee, or to Volvo indicated co-loading depot.

Paper documents vs AVIEXP

It is Volvo's ambition to replace paper documents by electronic documents as soon as possible.

The Volvo companies are at various stages of their development, and each individual company will therefore make agreements with the suppliers concerned about when paper documents can be discontinued.

We must however point out that we are dependent on other parties, such as transport companies, Customs Authorities and auditors to reach our goal.

Information in documents

There are many interested parties in the information flow, information needed to ensure a rational flow of material. A more detailed description below about the consignment information requested in the documents:

- despatch note (domestic consignments)
- invoice copy (export/import consignments)

Note:

In the following sections, only information on the invoice relating to it as a delivery document will be described. The function of the invoice as a payment document will be covered in Chapter 8.0 INVOIC.

The requirements for information on way bills will be notified separately by Volvo Transport.

The requirements for packaging despatch advice will also be notified separately by Volvo Transport.

Despatch note / Invoice copy

Description	AVIEXP	INVOIC	Field length	Domestic	Export/Import
CONSIGNOR Name and address			an..35	M	M
			an..35	C	C
Supplier number	CDT3296		an..10	M	M
	SDT3296		an..10	C	C
		SDT3296	an..10	C	M
CONSIGNEE Name and address			an..35	M	M
			an..35	C	C
			an..35	C	C
	CSG3296	CSG3296	an..10	M	M
	CSG3921		an..8	M	M
	CSG3923		an..17	M	M
		BDT3296	an..17	C	C
DESPATCH NOTE Number	MID1004		an..17	M	M
		RAD1004	an..8	C	M
Date	MID2007		n6	M	M
		RAD2007	n6	C	M
INVOICE Number	DAN1004		an..17	C	M
		MID1004	an..8	C	M
Date	DAN2007		n6	C	M
		MID2007	n6	C	M
ARTICLE NUMBER	ARD7304	ARD7304	an..24	M	M
DELIVERED QUANTITY	ARD6270	ARD6270	n..10	M	M
SORT CODE	ARD6410	ARD6410	an..3	C	C
ORDER NUMBER	ARD1022	ARD1022	an..17	M	M
COUNTRY OF ORIGIN	ARD3239		a2	C	M
ITEM AMOUNT	DAI5116	PRI5116	n..15	C	M
CURRENCY	DAI6345	PAI6345	a3	C	M
TYPE OF DUTY REGIME	DAI9213		an1	C	M
NUMBER OF PACKAGES	TCO7224		n..6	M	M
CONSIGNMENT GROSS WEIGHT	PVT6012		n..12	M	M
CONSIGNMENT CUBE	PVT6422		n..9	M	M

Appendix 8***Volume information for frequent standard packaging***

Measurement unit = cubic metres

Standard pallet

L1 consists of 1 L-pallet + 1 L-frames + 1 L-lid

L2 consists of 1 L-pallet + 2 L-frames + 1 L-lid and so on

Packaging	1	2	3	4	5
L	0.356	0.552	0.748	0.944	1.140
K	0.166	0.264	0.363	0.461	0.559
F	0.737	1.125	1.513	1.901	2.288
G	0.422	0.653	0.885	1.117	1.349
H	0.525	0.814	1.102	1.391	1.679
701	0.698	1.082	1.466	1.849	2.233

Small boxes are loaded on either L-pallets or K-pallets in uniform layers. Fill up with empty boxes if necessary.

Packaging 780 / 4 per layer on L-pallets and 2 per layer on K-pallets.

Packaging 790 / 2 per layer on L-pallets and 1 per layer on K-pallets.

Small boxes on L-pallets			Small boxes on K-pallets		
780	1 - 4	0.393	780	1 - 2	0.183
780	5 - 8	0.599	780	3 - 4	0.286
780	9 - 12	0.805	780	5 - 6	0.390
780	13-16	1.011	780	7 - 8	0.493

In packaging 780, lid number 781 is included.

Small boxes on L-pallets			Small boxes on K-pallets		
790	1 - 2	0.393	790	1	0.183
790	3 - 4	0.599	790	2	0.286
790	5 - 6	0.805	790	3	0.390
790	7 - 8	1.011	790	4	0.493

In packaging 790, lid number 791 is included.

Combitainers

Packaging 419 has a volume 2.736

Packaging 422 has a volume 3.134

Packaging 430 has a volume 2.736

Packaging 814 has a volume 3.775, when pallet Nr. 836 is used

Packaging 814 has a volume 3.711, when pallet Nr. 813 is us

Packaging 822 has a volume 3.295

APPENDIX 9

Packaging reports

In order to rationalise packaging reports, Volvo Transport is aiming to encourage suppliers to include information on packaging flows in AVIEXP instead of issuing manual packaging delivery notes.

This can be done by quoting the correct packaging number in TCO 1906 and quoting the correct number of packages in TCO 7224.

One reference number consists of a fixed combination of packaging types and their numbers.

The reference number is a unique identification for a unit load which is used throughout the Volvo Group.

Reference number are supplied by the responsible packaging technician at each company.

When it comes to small boxes, the reference number does not refer to the entire parcel but only to one small box. Volvo Transport then adds the number of small boxes and any additional packaging. Reference numbers for small boxes can be obtained from Volvo Transport.

When it comes to deliveries to Volvo Cars production companies, the code ART can be quoted in TCO 1906 as an alternative to the packaging reference number. If the supplier uses this technique, Volvo Transport ensures that the amount of packaging which surrounds the article automatically corrects the packaging balance.

Regardless of which alternative is used, Volvo Transport will record the packaging flow in the report list, as it has previously done, but with a reference to the delivery note number i.e. AVIEXP number.

For both techniques - reference number and code ART- the following applies:

- that correct reference number - or ART - is quoted in TCO 1906
- that correct number of packages is quoted in TCO 7224
NOTE! In the case of small boxes, the number of small boxes should be specified.
- that the packaging delivery note form is not deleted until Volvo Transport has been informed and given its approval

If/when the above conditions cannot be met, the following applies:

- the designation NIL should be entered in TCO 1906 and a manual packaging delivery note should be issued

Special rule:

When the consignment contains packaging nos. 99, 100, 150, 151, 152 and/or 156, NIL should be entered in TCO 1906 and a manual packaging delivery note should be issued, unless another special agreement has been made with Volvo Transport.

Note:

If/when a unit load cannot be followed for some reason, begin by trying to find out whether there is a reference number for the packaging combination which has been used before a manual packaging delivery note is issued.