

ELECTRONIC DATA INTERCHANGE WITH FORD for Non Production Industrial Material

EDI BROCHURE



created by **GSEC**, Global Supplier Electronic Communications



Owner: GSEC Spain (jramosgr)
GSEC-N-D-003

Who is GSEC?



Global Supplier Electronic Communications

Mission Statement	GSEC is a single point of contact for trading partners of any kind that delivers reliable, efficient and secure network connections.
Background	<p>The Global Supplier Electronic Communications (GSEC) organization was established to be the primary interface between Ford and its suppliers in matters relating to the transfer of electronic data and external access to Ford applications and servers.</p> <p>We support more than 6,000 trading partners in over 20 countries.</p> <p>GSEC provides communication support for Electronic Data Interchange (EDI) and network connectivity.</p>
Strategic Direction	Ford's strategic direction is to use OFTPv1 and OFTPv2 as the EDI Transmission Protocols in EU and PI-VPN or ENX/ANX as the network connection with their Trading Partners.
GSEC offices	Locations in Europe and USA



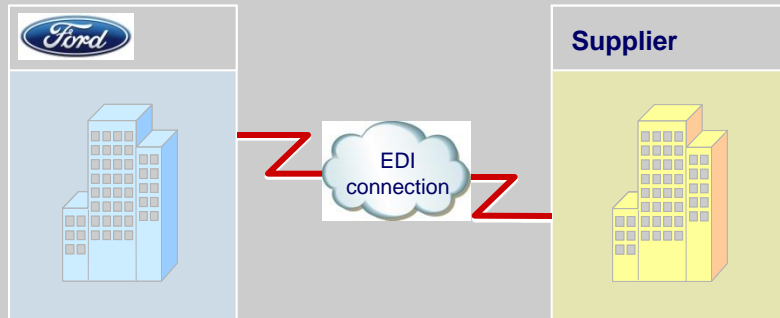
BUSINESS PROCESS

Index:

- ELECTRONIC DATA INTERCHANGE (EDI)
- EDI CONNECTION REQUIREMENTS.
- APPENDIX



What is EDI?



Ford EDI Principles

- ⇒ EDI = Electronic Data Interchange
- ⇒ Mandatory EDI messages:
 - Orders.
 - SBIs.

- ⇒ EDI consists of standardized electronic message formats (called transaction sets) replacing or enhancing common business documents and communications. These electronic transaction sets enable the computer in a company or organization to communicate with a computer in another without human intervention and paper consumption.
- ⇒ EDI is more than a computer-to-computer communication and more than simple freeform electronic mail messages. EDI communications go from one application (business system) to another in a way that information does not have to be retyped. For example, using EDI, orders go directly from one company's purchasing system to another company's order entry system.

Advantages of EDI

- ⇒ Accuracy, visibility of information and reduction of lead times, administration, stocks and costs.
- ⇒ Quick response to avoid disruption in supply chain.
- ⇒ Reduces costs related to business transactions handling. *EDI eliminates manual sorting, matching, filing, reconciling, and mailing tasks. EDI dramatically reduces the number of errors.*
- ⇒ Reduced cycle/pay period. By eliminating use of regular mail and by decreasing the time needed to process an order transaction, products can be shipped and invoiced sooner.



EDI CONNECTION REQUIREMENTS.

Index

- Connection to Ford EDI
 - Direct OFTP connection.
 - Connection through a VAN

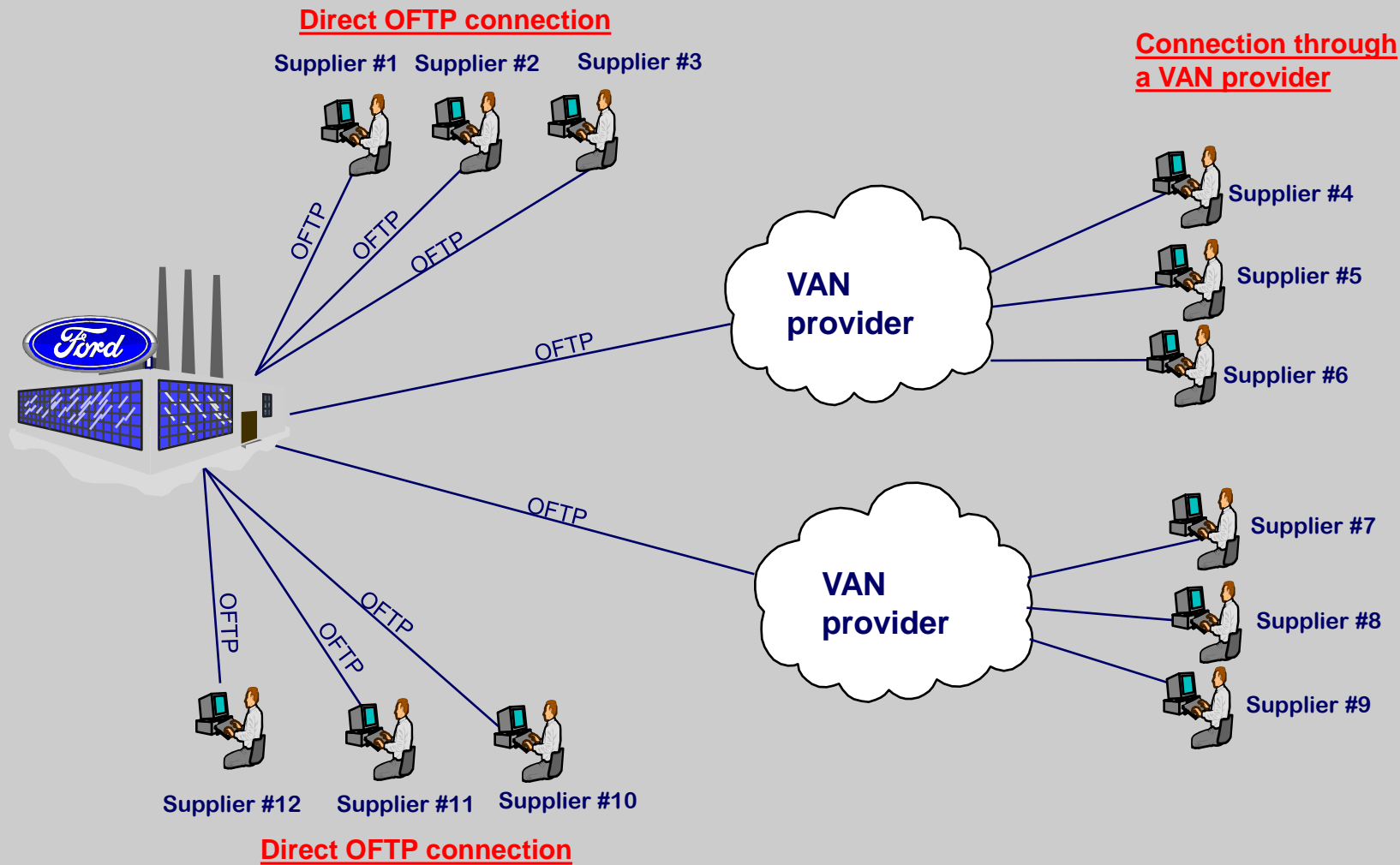
- Hints to choose a connection.

- Connection Process.

- Message types (ORDER and SBI)



CONNECTION TO FORD EDI



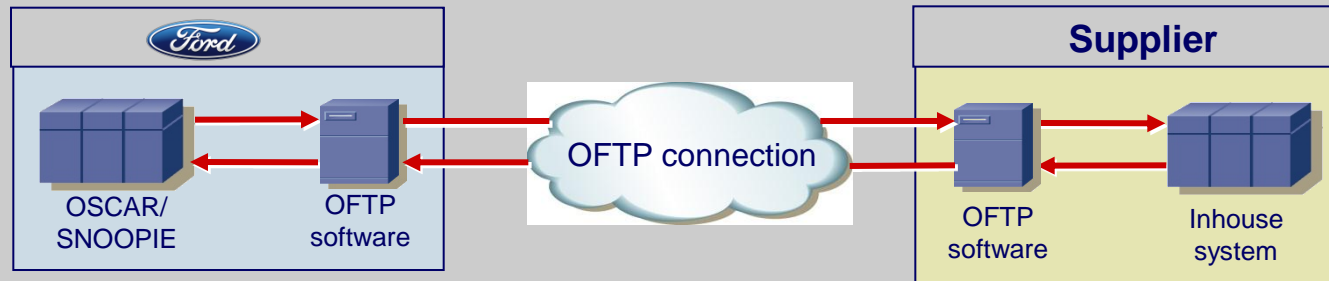
Direct OFTP connection

What is OFTP?

Odette File Transfer Protocol (OFTP) is a protocol used for automated EDI transmission between two Trading Partners. It is a high level protocol applied to the way in which files and messages are sent. It is not involved in defining the physical communications channel the data travels through.

Further information:

- Odette official site: <https://forum.odette.org/OFTP/oftp2>
- Ford site: <https://www.suppcomm.ford.com/europe/NetworkProtocols/OFTPv2.aspx?Tip=N#Description>



Requisites

- Obtain an OFTP2 standard-compliant software.
Please visit following link with a list of recommended OFTP2 software providers:
<https://forum.odette.org/repository/OFTP2%20Software%20Products.pdf>

Note: OFTP1 is also valid, although it will require to configure a secure link with Ford (VPN or ENX).

How to request the connection:

Please fill out the OFTP licence document with your OFTP parameters and send it back to GSEC (scommssp@ford.com). We will set up once received.



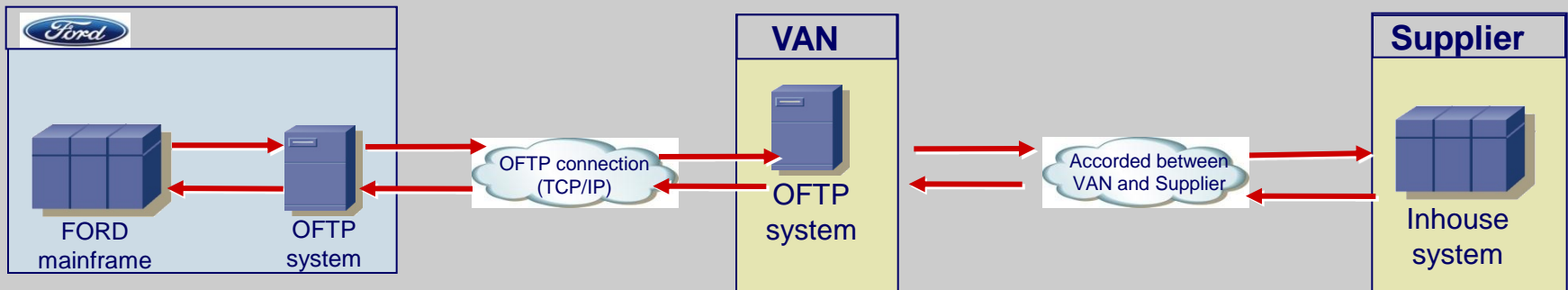
Connection via VAN

What is a VAN (Value Added Network)?

It is a hosted service that acts as an intermediary between business partners sharing EDI data. The connection between the VAN and Ford will be through OFTP (or OFTP2). The connection between VAN and the Trading Partner must be agreed between them.

Further information:

- Ford site: <https://www.supcomm.ford.com/europe/NetworkProtocols/Van.aspx?Tip=N>



Some of the VANs that are already working with NPIM suppliers are:

- EDICOM: <http://www.edicom.es/>
- GXS: <http://www.gxs.com/>
- Easylink: <http://www.easylink.com/>
- Data Interchange Plc: <http://www.dip.co.uk/>
- Retarus: <http://www.retarus.com>
- Indra: <http://www.indra.es/>

Note: If you want to use another VAN not listed above, please contact us (scommssp@ford.com). We will connect them.

How to request the connection:

Please fill out the OFTP licence document with your OFTP parameters and send it back to GSEC (scommssp@ford.com). We will set up once received.



Hints to choose a connection

If you do not know which is the most suitable connection for you, please check the questions below.

1.-Are you already using EDI with other Trading Partners?

If so, maybe your current solution could be suitable with Ford too. Please contact GSEC and provide the details of your connection.

2.-Do you want to integrate the Ford Orders in your systems? Or you just want to receive the Orders in a readable/printable format?

If you do not want to integrate the files, please choose a VAN. Some of them have “WebEDI” options that will allow you to access a Website where you can check/print the Ford Orders in a readable format.

If you want to integrate the Orders into your systems, please check next slides for information about the file layouts. In that case, both OFTP2 or VAN are valid options.

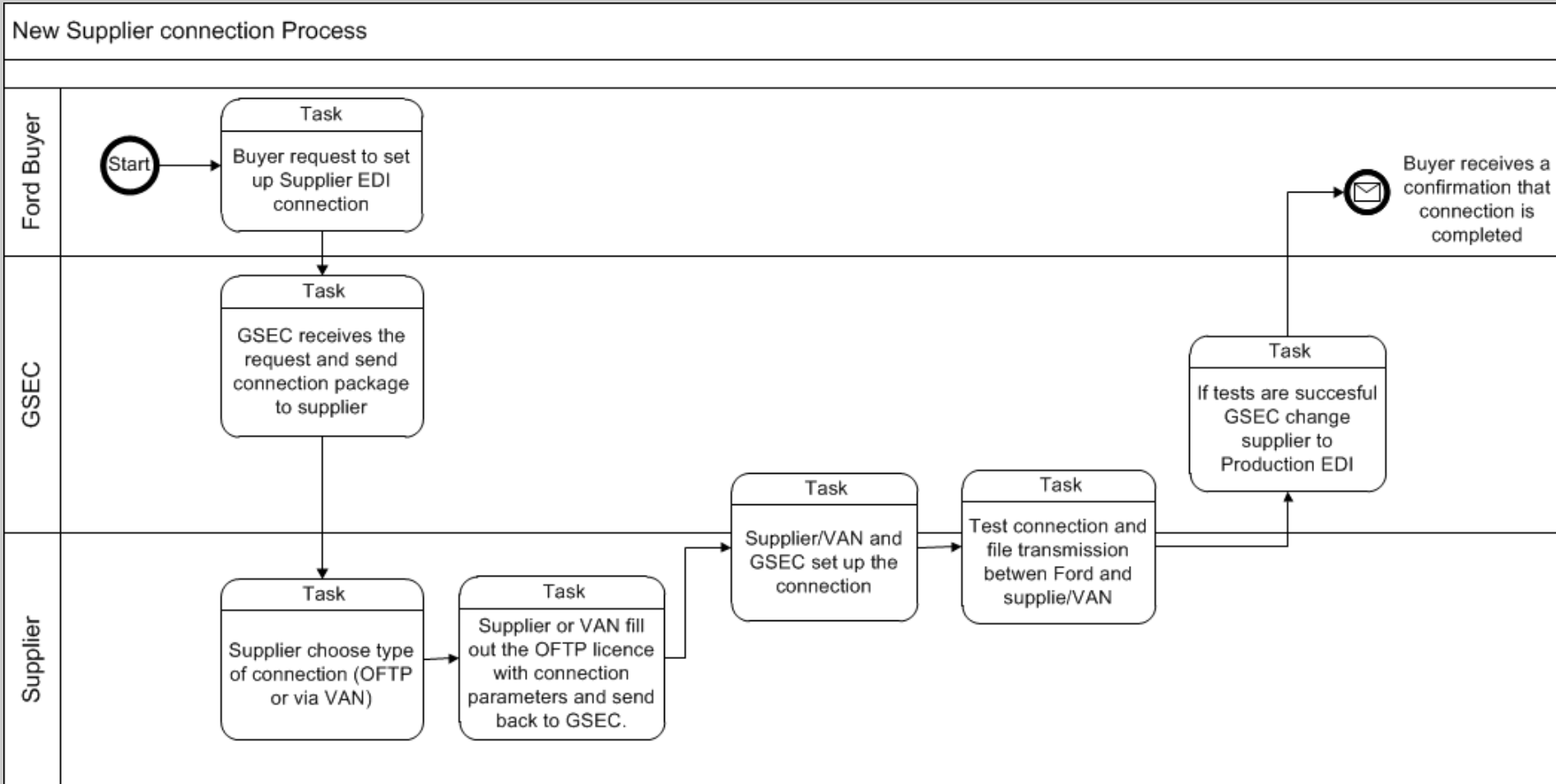
In case of integration you can do the integration by yourself (or using your IT support company) or you can ask the VAN to convert the EDI file format into another file that can be integrated into your ERP system.

3.-I want to integrate the files but I need to start doing EDI with Ford asap.


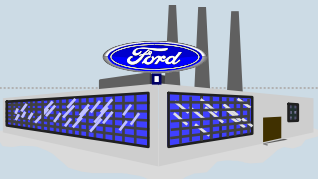
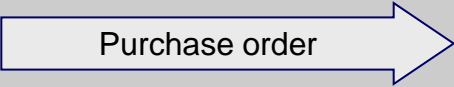
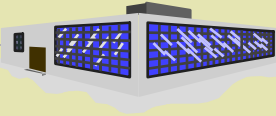
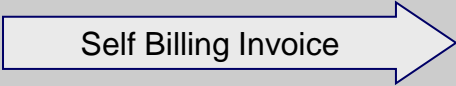
Since an integration process can take some time you may need to have the EDI connection asap. An option would be to choose a WebEDI solution from a VAN and do the integration later on.



Connection process



Message types

	Message	Supplier	Format	Explanation
			EDIFACT D.93A	
			EDIFACT D.93A	Self Billing Invoice, i.e. invoice generated by Ford based on goods arrival

WHAT IS AN SBI (SELF BILLING INVOICE)?

A DOCUMENT / MESSAGE WEEKLY PREPARED BY FORD SHOWING DETAILS OF MATERIALS RECEIVED AND PROCESSED FOR PAYMENT ON THE DUE DATE.

WHAT IS AN ORDER ?

AN ELECTRONIC MESSAGE PREPARED BY FORD SHOWING THE PARTS REQUIREMENTS.

Message Guidelines

SBI (Self Billing Invoice): NPIM EDI Self Billing Invoice Message from Ford Accounting (EDIFACT D.93A).

<https://www.supppcomm.ford.com/europe/Documents/SelfBilling.PDF>

ORDER: OSCAR and SNOOPIE are the Ford systems that generate the Orders. The layout of both Orders is practically the same.

OSCAR Order. EDI Purchase order Message for Ford OSCAR system (EDIFACT D.93A).

<https://www.supppcomm.ford.com/europe/Documents/OSCAR.PDF>

SNOOPIE Order: EDI Purchase order Message for Ford SNOOPIE system (EDIFACT D.93A).

<https://www.supppcomm.ford.com/europe/Documents/SNOOPIE.PDF>



APPENDIX

- APPENDIX 1.- Sample of EDI ORDER and SBI. EANCOM EDIFACT D93A .

- APPENDIX 2.- Abbreviations.



APPENDIX 1.- Sample of EDI ORDER and SBI. EANCOM EDIFACT D93A

ORDER

UNB+UNOA:2+5022629010001:14+00000000000000:14+090507:1403+0714001++ORDERS+++EANCOM'UNH+1+ORDERS:D:93A:UN:EAN007'BGM+226+BL0000000'DTM+137:20090507:102'FTX+PUR+++ATTENTION TEST ORDER! DO NOT SUPPLY ANY MATERIAL. TEST TEST TEST TEST +EN'RFF+BO:00000'NAD+DP+5022629012229::9'CTA+OC+:K WILLIAMS'COM+ 1554-821126:TE'CTA+PD+:K WILLIAMS'COM+07971 498262:TE'NAD+BY+5022629013163::9'NAD+SU+00000000000000::9'CUX+2:GBP:10'LIN+1'PIA+5+HF00000000:IN'IMD+F++:::CREAM,BUFFER,HAND STOKOLAN 100M L TU:BE -TOX NO 000000'QTY+21:50:PCE'DTM+2:20090521:102'FTX+DEL+++PLEASE NOTE DE LIVERY DATE:210509:CURRENT PRICED PART PLEASE DO NOT SEND PAF!+EN'FTX+PUR+++EN'PRI+CON:2.22'LOC+7+5022629012229::9'QTY+11:50'DTM+2:20090521:102'UNS+S'UNT+26+1'UNZ+1+0714001'

SBI

UNB+UNOA:2+5022629010027:14+00000000000000:14+060524:2342+253+++++EANCOM+1'UNH+1+INVOIC:D:93A:UN:EAN007'BGM+389+5XB42EA300+9'DTM+137:20060519:102'FTX+ZZZ++001::92'RFF+API:B42EA'RFF+MBE:253'NAD+BY+5022629013309::9'RFF+VA:GB761082738'NAD+SU+5010321000004::9'RFF+VA:GB243510593'TAX+7+VAT+++:::17.5+S'CUX+2:GBP:4'PAT+3'DTM+13:20060619:102'LIN+1'PIA+5+VARIOCUT C486:SA+TF36580604:IN'QTY+47:8000:LTR'DTM+50:20060516:102'MOA+203:6528'PRI+AAA:0.816'RFF+ON:0114173'RFF+CR:042276'RFF+AAK:593592'RFF+IV'LOC+7+5022629030162::9'TAX+7+VAT+++:::17.5+S'MOA+124:1142.4'LIN+2'PIA+5+VARIOCUT B46TC:SA+TF36580466:IN'QTY+47:3000:LTR'DTM+50:20060516:102'MOA+203:1980'PRI+AAA:0.66'RFF+ON:1028983'RFF+CR:042275'RFF+AAK:2203549'RFF+IV'LOC+7+5022629030162::9'TAX+7+VAT+++:::17.5+S'MOA+124:346.5'UNS+S'MOA+86:9996.9'MOA+125:8508'TAX+7+VAT+++:::17.5+S'MOA+176:1488.9'UNT+46+1'UNH+2+TAXCON:D:93A:EN:EAN001'BGM+938+253'DTM+137:20060519:102'RFF+TCP:252'NAD+BY+5022629013309::9++GETRAG FORD TR ANSMISSIONS GMBH+SPEKE BLVD:HALEWOOD+LIVERPOOL++L24 9LE+GB'RFF+VA:GB761082738'NAD+SU+00000000000000::9++CASTROL (UK) LTD+BURMAH CASTROL HOUSEWAY:PIPERS WAY+SWINDON, WILTSHIRE++SN3 1RE+GB'RFF+VA:GB243510593'UNS+D'RFF+MBE:253'DOC+389'MOA+39:8508:GBP'UNT+30:1'TAX+7+VAT+++:::17.5+S'MOA+125:8508:GBP'MOA+124:1488.9:GBP'UNT+17+2'UNZ+2+253'



APPENDIX 2.- Abbreviations

- CMS - COMMODITY MANAGEMENT SUPPLIER
- EAN - INTERNATIONAL ARTICLE NUMBER
- EDI - ELECTRONIC DATA INTERCHANGE
- EDIFACT - EDI FOR ADMINISTRATION COMMERCE AND TRANSPORT
- ERS - EVALUATED RECEIPT SETTLEMENT
- OFTP - ODETTE FILE TRANSFER PROTOCOL
- OSCAR - ONLINE STOCK CONTROL AND REORDERING
- SBI - SELF BILLING INVOICE
- SLA - SERVICE LEVEL AGREEMENT
- SNOOPIE - SYSTEM FOR NON PRODUCTION ON-LINE ORDER PROCESSING IN EUROPE
- VAN - VALUE ADDED NETWORK

