

Grundfos EDIFACT D.96.A

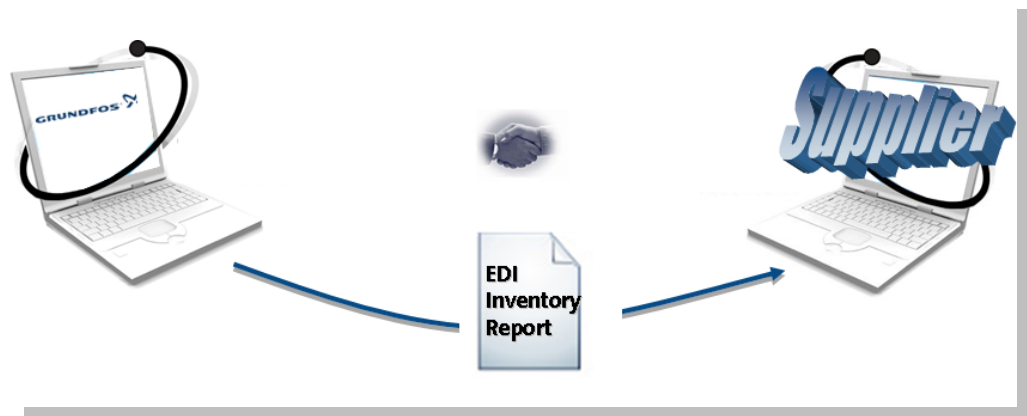
Title **INVRPT - Documentation (Forecast)**

Create Date 29-05-2007

Last Update 31-10-2014, version 1.09

Author Grundfos EDI Team

Owner Grundfos Group EDI Team



Prologue

Introduction The present document defines the EDIFACT **INVRPT** documentation for Grundfos suppliers – the format in which Grundfos expect to send as forecast message when exchanging EDI **INVRPT** documents to Grundfos supplier partners.

Purpose The purpose is to enable Grundfos supplier partners to apply to the EDI standard used when exchanging documents with Grundfos.

Target group EDI consultants implementing the technical EDI set-up at the Grundfos supplier partner.

About document The document takes basis in the structure of EDIFACT D96A, see figure “INVRPT structure”. For each segment in the figure a table lists the sub-element code, sub-element name, EDIFACT notation and Grundfos specific description. For each segment an example is given. At the last page an example of an EDIFACT **INVRPT** is given.

Change log

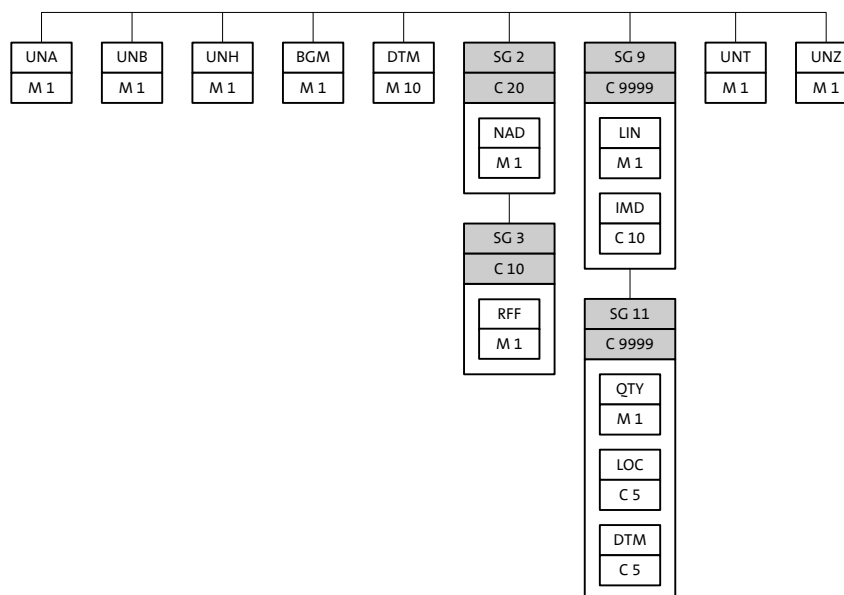
Date	Author	Description	Ver.
31-10-14	HISZ	Added new Sender/ Receiver IDs for GCP,GOE	1.09
09-09-14	HISZ	Added new Sender/ Receiver IDs for GDKI	1.08
14-03-13	HISZ	Added new Sender/ Receiver IDs for MXP,GSI,GMS,PPU,YCC,GMA,GDS	1.07
27-01-12	JAR	EAN location for GBJ updated from 5790000022984 to 5708601000836 in UNB	1.06
17-02-09	JAR	EAN locations added in UNB specifications	1.05
05-02-09	FFR	Requisition information added	1.04
21-07-08	JAR	EAN locations added in UNB specifications	1.03
11-06-08	FFR	Texts in “stock values” matrix changed in QTY description	1.02
30-04-08	JIL	Document adopted to the Proact forecast msg	1.01
29-05-07	FFR	Document created	1.00

Content

GRUNDFOS EDIFACT D.96.A	1
PROLOGUE	2
CONTENT	3
GRUNDFOS EDIFACT - INVRPT STRUCTURE	4
UNA - SERVICE STRING ADVISE	5
UNB - INTERCHANGE HEADER (ENVELOPE)	6
UNH - MESSAGE HEADER	8
BGM - BEGINNING OF MESSAGE	9
DTM - DATE/TIME/PERIOD	10
NAD- NAME AND ADDRESS	11
RFF – REFERENCE (ADE)	13
LIN - LINE ITEM	14
IMD- ITEM DESCRIPTION	15
QTY - QUANTITY	16
LOC – PLACE / LOCATION IDENTIFICATION	18
DTM - DATE/TIME/PERIOD	19
UNT- MESSAGE TRAILER	20
UNZ - INTERCHANGE TRAILER	21
INVENTORY REPORT MESSAGE EXAMPLE	22

Grundfos EDIFACT - INVRPT structure

Branching diagram of inventory report message



****IMPORTANT****

!! IMPORTANT !!

It is the supplier's responsibility to keep track of any changes when a new forecast is delivered, since Grundfos' ERP system doesn't offer a history log of changes.

In other words - the recently received delivery forecast should replace the previously received forecast.

Communication information

Grundfos supports following communication methods:

- VAN
- FTP

FTP is the preferred communication protocol

FTP instructions will be provided on individual basis.

The VAN mailbox's are located at **Information Exchange** and are as follows:

Test environment: DKGRFOS/GBJ002

Production environment: DKGRFOS/GBJ028

UNA - Service string advise

Description To define the characters selected for use as delimiters and indicators in the rest of the interchange

Definitions	Element	EDIFACT	Grundfos specifics
	Component data element separator	M an..1	Constant = : (colon)
	Data element separator	M an..1	Constant = + (plus sign)
	Decimal notation	M an..1	Constant = , (comma) or . (period)
	Release indicator	M an..1	Constant = ? (question mark)
	Reserved	M an..1	Blank / Space
	Segment terminator	M an..1	Constant = ' (apostrophe)

Notation in EDIFACT column:

- M= Mandatory and C= Conditional
- AN=alphanumeric and N=numeric
- X= X char and ..X=max X chars

Example:

M an..15 = Field is **M**andatory, **alpha numeric** and max **15** char

Example Example:
UNA:+.?'

UNB - Interchange header (envelope)

Description To identify and specify the sender and receiver of a message.

Definitions

	Element	EDIFACT	Grundfos specifics
S001	Syntax identifier	M	
0001	Syntax identifier	M a..4	UNOC
0002	Syntax version number	M n..1	3
S002	Interchange sender	M	
0004	Sender identification	M an..35	ID's, see table below
0007	Partner identification code qualifier	C an..4	14 = EAN number
0008	Address for reverse routing	C an..14	Not used
S003	Interchange recipient	M	
0010	Recipient identification	M an..35	XXXXXXXXXXXXXXXXXXXX.....
0007	Partner identification code qualifier	C an..4	XXXX
0014	Routing address	C an..14	Not used
S004	Date/time of preparation	M	
0017	Date	M n..6	YYMMDD
0019	Time	M n..4	HHMM
0020	Interchange control reference	M an..14	Unique reference assigned by sender
S005	Recipient's reference password	C	
0022	Recipient's reference / password	M an..14	Not used
0025	Recipient's reference / password qualifier	C an..2	Not used
0026	Application reference	C an..14	INVRPT
0029	Processing priority code	C a..1	Not used
0031	Acknowledgement request	C n..1	Not used
0032	Communications agreement	C an..35	Not used
0035	Test indicator	C n..1	1 = test, blank = production.

Example

Example:

**UNB+UNOC:3+5708601000126:14+057421000:01+080411:0931+49059122
++INVRPT++++1'**

**Table of
Grundfos
Sender/receiver
ID's**

!! IMPORTANT !!

Company	Short	Test ID	Production ID
GRUNDFOS Pumps Suzhou Ltd	GPC/CN	5708601000614	5708601000621
Grundfos A/S	GBJ/DK	5708601000836	5708601000126
Grundfos Sensor	SEN/DK	5708601000812	5708601000553
Grundfos Bio Booster A/S	GBB/DK	5708601000744	5708601000515
Grundfos Holding A/S	GMA/DK	5708601000775	5708601000461
Grundfos SC Denmark	GDK/DK	5708601000768	5790000010639
Grundfos Corporate Purchase AG	GCP/CH	5708601001857	5708601001840
Grundfos Operations Europe	GOE/DK	5708601001833	5708601001826
Grundfos Manufacturing Ltd.	GBW/GB	5708601000560	5708601000485
Grundfos Environment Finland Oy Ab	GEF/FI	5708601000577	5708601000355
Pompes Grundfos S.A.S	PGF/FR	5708601000683	5708601000423
Grundfos Pumpenfabrik GmbH	GWP/DE	5708601000645	5708601000065
Grundfos Distribution Service BV	GDS /NL	5708601000768	5708601000362
Grundfos Hungary Manufacturing Ltd.	GMH/HU	5708601000652	5708601000409
Bombas GRUNDFOS de Mexico	GMX/MX	5708601000669	5708601000676
Bombas GRUNDFOS de Mexico	MPX/MX	5708601000669	5708601000676
Grundfos Russia Manufact	GMR/RU	5708601000591	5708601000737
Grundfos Serbia d.o.o	GMS/RS	5708601001680	5708601001635
GRUNDFOS (Singapore) Pte. Ltd	GSI/SG	5708601001697	5708601001222
Grundfos Handels AG Taiwan Branch	GTW/TW	5708601000638	5708601000331
Grundfos CBS Inc.	GCB/US	5708601000690	5708601000706
Grundfos Manufacturing Corp.	GMU/US	5708601000607	5708601000072
Peerless Pump Company	PPU/US	5708601001772	5708601001017
Yeomans Chicago Corporation	YCC/US	5708601001796	5708601001789

UNH - Message header

Description To head, identify and specify a message.

Definitions

	Element	EDIFACT	Grundfos specifics
0062	Message reference number	M an..14	Sender's unique message reference. Sequence number of the message in the interchange.
S009	Message identifier	M	
0065	Message type identifier	M an..6	INVRPT = Inventory report message
0052	Message type version number	M an..3	D
0054	Message type release number	M an..3	96A
0051	Controlling agency	M an..2	UN
0057	Association assigned code	C an..6	Not used
0068	Common access reference	C an..35	Not used
S010	Status of the transfer	C	
0070	Sequence message transfer number	M n..2	Not used
0073	First/last sequence message transfer indication	C a1	Not used

Example

Example:

UNH+49059122+INVRPT:D:96A:UN'

BGM - Beginning of message

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

Definitions

	Element	EDIFACT	Grundfos specifics
C002	Document/Message	M	
1001	Document/Message name, coded	M an..3	35 = Inventory report
1131	Code list qualifier	C an..3	Not used
3055	Code list responsible agency, coded	C an..3	Not used
1000	Document/Message name	C an..35	Not used
1004	Document/Message number	C an..35	Inventory report number assigned by document sender.
1225	Message function, coded	C an..3	Not used
4343	Response type, coded	C an..3	Not used

Example

Example:
BGM+35+49059122'

DTM - Date/time/period

Description To specify date, and/or time, or period.

Definitions

	Element	EDIFACT	Grundfos specifics
C507	Date/time/period	M	
2005	Date/time/period qualifier	M an..3	137 = Document date/time.
2380	Date/time/period	C an..35	Document date
2379	Date/time/period format qualifier	C an..3	102 = CCYYMMDD

Example

Example:

DTM+137:20080408:102'

NAD- Name and address

To specify the name and address and their related functions.

Definitions

	Element	EDIFACT	Grundfos specifics
3035	Party qualifier	M an..3	BY = Buyer SU = Supplier GY = Inventory reporting partner
C082	Party identification details	C	
3039	Party id, identification	M an..35	When 3035 = BY then Party identification
1131	Code list qualifier	C an..3	Not used
3055	Code list responsible agency, coded	C an..3	When 3035 = BY then 9 = EAN or ZZZ = Mutually defined
C058	Name and address	C	
3124	Name and address line	M an..35	When 3035 = SU then Company name
3124	Name and address line	C an..35	Additional company information
3124	Name and address line	C an..35	Additional company information
3124	Name and address line	C an..35	Additional company information
3124	Name and address line	C an..35	Not used
C080	Party name	C	
3036	Party name	M an..35	When 3035 = GY then Company name
3036	Party name	C an..35	Not used
3036	Party name	C an..35	Not used
3036	Party name	C an..35	Not used
3036	Party name	C an..35	Not used
3045	Party name format, coded	C an..3	Not used
C059	Street	C	

3042	Street and number / p.o box	M an..35	When 3035 = GY then Street and number
3042	Street and number / p.o box	C an..35	Not used
3042	Street and number / p.o box	C an..35	Not used
3164	City name	C an..35	When 3035 = GY then City name
3229	Country sub-entity identification	C an..9	When 3035 = GY then Country sub-entity
3251	Postcode identification	C an..9	When 3035 = GY then Postal / Zip code
3207	Country code, coded	C an..3	When 3035 = GY then Country code ISO 3166

Example

Example:

NAD+BY+5708601000126::9'**NAD+SU++TTI Electronics Denmark ApS'****NAD+GY+BJ15++GRUNDFOS A/S:EL factory+Birkevænget 2-10+Bjerringbro++8850+DK'**

RFF – Reference (ADE)

Description To specify a reference.

Definitions

Element		EDIFACT	Grundfos specifics
C506	Reference	M	
1153	Reference qualifier	M an..3	ADE = Account number
1154	Reference number	M an..35	Grundfos account number
1156	Line number	M an..6	Not used
4000	Reference version number	M an..35	Not used

Example

Example:
RFF+ADE:334483'

LIN - Line item

Description To identify a line item and configuration..

Definitions

	Element	EDIFACT	Grundfos specifics
1082	Line item number	C n..6	Application generated number of the count of order response lines
1229	Action request / notification, coded	C an..3	Not used
C212	Item number identification	C	
7140	Item number	C an..35	The number of the article being ordered. Grundfos' item number.
7143	Item number type, coded	C an..3	IN = Buyer's item number
1131	Code list qualifier	C an..3	Not used
3055	Code list responsible agency, coded	C an..3	Not used
C829	Sub-line information	C	
5495	Sub-line indicator, coded	C an..3	Not used
1082	Line item number	C n..6	Not used
1222	Configuration level	C n..2	Not used
7083	Configuration, coded	C an..3	Not used

Example

Example:

LIN+10++00L60247:IN'

IMD- Item description

Description To describe an item in either an industry or free format.

Definitions

	Element	EDIFACT	Grundfos specifics
7077	Item description type, coded	C an..3	F = Free form
7081	Item characteristic, coded	C an..3	Not used
C273	Item description	C	
7009	Item description identification	C an..7	Not used
1131	Code list qualifier	C an..3	Not used
3055	Code list responsible agency, coded	C an..3	Not used
7008	Item description	C an..35	Item description 1
7008	Item description	C an..35	Item description 2
7383	Surface/layer indicator, coded	C an..3	Not used

Example

Example:

IMD+F++:::SMD MODST 0805 5% 100MW E2 22R'

QTY - Quantity

Description To specify a pertinent quantity..

Definitions

Element		EDIFACT	Grundfos specifics
C186	Quantity details	M	
6063	Quantity qualifier	M an..3	17 = Quantity on hand 20 = Unusable quantity 89 = Quality control held 99 = Estimated quantity 187=The quantity scheduled for delivery
6060	Quantity	M n..15	Quantity
6411	Measure unit qualifier	C an..3	Common code from UN/CEFACT Recommendation 20

Example

Example:

QTY+99:2576.000:PCE'

Demand: The quantity which are expected to be consumed from the Grundfos stock (Told as quantity and date for each material)

QTY+187:1288.000:PCE'

Requisition: The quantity that the system has calculated must enter Grundfos, in order to meet the demands (Told as quantity and date for each material) In this calculation, values for minimum, lot size etc. agreed with the vendor is taken into consideration.

****IMPORTANT****

!! IMPORTANT !!

Stock: The quantity which are physical on Grundfos stock.

Stock value example: QTY+17:0.000:PCE'

LOC+18+:::Unrestricted - Consignment stock'

DTM+366:20080408:102'

See also following matrix:

Stock values:	Unrestricted (QTY+17....)	Quality check (QTY+89....)	Blocked (QTY+20....)
Own stock (LOC+19....)	Goods owned by Grundfos and available	Goods owned by Grundfos and planned for production but available to promise	Goods owned by Grundfos not planned for production and not available
Consignment stock (LOC+18....)	Goods owned by supplier but available for Grundfos	Goods owned by supplier and planned for production but available to promise	Goods owned by supplier not planned for production and not available

LOC – Place / Location identification

Description To identify a place or location

Definitions

	Element	EDIFACT	Grundfos specifics
3227	Place location qualifier	M an..3	18 = Warehouse 19 = Factory/plant
C517	Location identification	C	
3225	Place location identification	C an..25	Not used
1131	Code list qualifier	C an..3	Not used
3055	Code list responsible agency, coded	C an..3	Not used
3224	Place location	C an..70	Location description
C519	Related location one identification	C	
3223	Related place/location one identification	C an..3	Not used
1131	Code list qualifier	C an..3	Not used
3055	Code list responsible agency, coded	C an..3	Not used
3222	Related place/location one	C an..70	Not used
C553	Related location two identification	C n..2	
3223	Related place/location two identification	C an..3	Not used
1131	Code list qualifier	C an..3	Not used
3055	Code list responsible agency, coded	C an..3	Not used
3222	Related place/location two	C an..70	Not used
5479	Relation coded	C an..3	Not used

Example

Example:

LOC+18+:::Unrestricted - Consignment stock'

DTM - Date/time/period

Description To specify date, and/or time, or period.

Definitions

	Element	EDIFACT	Grundfos specifics
C507	Date/time/period	M	
2005	Date/time/period qualifier	M an..3	76= Delivery date/time, scheduled for 366 = Inventory report date
2380	Date/time/period	C an..35	Date
2379	Date/time/period format qualifier	C an..3	102 = CCYYMMDD

Example Example:
DTM+76:20080801:102'

UNT- Message trailer

Description To end and check completeness of a message.

Definitions

	Element	EDIFACT	Grundfos specifics
0074	Number of segments in a message	M n..6	The total number of segments in the message is detailed here.
0062	Message reference number	M an..14	The message reference numbered detailed here should equal the one specified in the UNH segment.

Example Example:
UNT+30+49059122'

UNZ - Interchange trailer

Description To separate header, detail and summary sections of a message.

Definitions

	Element	EDIFACT	Grundfos specifics
0036	Interchange control count	M an..6	The count of the number of messages.
0020	Interchange control reference	M an..14	Shall be identical to 0020 in UNB segment.

Example Example:
UNZ+1+49059122'

Inventory report message example

Inventory report message example

UNA:+.? '
UNB+UNOC:3+5708601000126:14+057421000:01+080411:0931+49059122++INVRPT++++1'
UNH+49059122+INVRPT:D:96A:UN'
BGM+35+49059122'
DTM+137:20080408:102'
NAD+BY+5708601000126::9'
NAD+SU++TTI Electronics Denmark ApS'
RFF+ADE:334483'
NAD+GY+BJ15++GRUNDFOS A/S:EL factory+Birkevænget 2-10+Bjerringbro++8850+DK'
LIN+10++00L60247:IN'
IMD+F+++SMD MODST 0805 5% 100MW E2 22R'
QTY+17:0.000:PCE'
LOC+18+++Unrestricted - Consignment stock'
DTM+366:20080408:102'
QTY+17:177410.820:PCE'
LOC+19+++Unrestricted - Own stock'
DTM+366:20080408:102'
QTY+89:0.000:PCE'
LOC+18+++Quality check - Consignment stock'
DTM+366:20080408:102'
QTY+89:5000.000:PCE'
LOC+19+++Quality check - Own stock'
DTM+366:20080408:102'
QTY+20:0.000:PCE'
LOC+18+++Blocked - Consignment stock'
DTM+366:20080408:102'
QTY+20:5000.000:PCE'
LOC+19+++Blocked - Own stock'
DTM+366:20080408:102'
QTY+99:4623.000:PCE'
DTM+76:20080804:102'
QTY+99:2576.000:PCE'
DTM+76:20080801:102'
QTY+99:805.000:PCE'
DTM+76:20080731:102'
QTY+99:644.000:PCE'
DTM+76:20080805:102'
QTY+99:966.000:PCE'
DTM+76:20080806:102'
QTY+99:3059.000:PCE'
DTM+76:20080807:102'
QTY+187:1288.000:PCE'
DTM+76:20080730:102'
UNT+42+49059122'
UNZ+1+49059122'