3　Examples of syntax check result communication

3.1　Correct data interchange - APERAK message serving as acknowledgment only

In certain cases, it might be useful to generate and send a message as a means of acknowledgment of receipt. This is especially the case in networks where there is no direct connection between the sender of the invoice and its recipient. Such a method is for instance used in VANs (Value Added Networks) where messages might be transferred through multiple networks to reach the recipient. In this case, a message may be useful after the first check (e.g. syntax check only) is completed, even if no errors or warnings occurred.

Structure of original message			Content of APERAK message
UNA			UNA:+.? '
UNB	Interchange 12345		UNB+UNOC:3+O0177X001FINANZ:59+O0013:59:X+150724:1622+20150724153322'
	UNH #1		UNH+1+APERAK:D:08A:UN:GAVJ10'
		BGM	BGM+305:::X01+232221+9'
		Invoice 1001	DTM+137:20150724:102'
	UNT		FTX+ABV+++Acknowledgment of receipt?: Data
	UNH #2		interchange 12345 from 24.07.205 has been received and
		BGM	the syntax check was completed WITHOUT errors or
		Invoice 1002...	warnings. The messages are forwarded for incoming
	UNT		invoice processing.'
	...		CNT+55:0'
UNZ			RFF+INN:12345'
			DTM+171:201507240813:203'
			NAD+MS+87654321::91++Berliner Autobau AG'
			CTA+IC+:Herta Müller'
			COM+030 8978 40999:TE'
			NAD+MR+12345678::92++Supplier Ltd.'
			ERC+M000::10'
			UNT+14+1'
			UNZ+1+20150724153322'

Segments of APERAK message:

Segment	Content
UNA:+.? '	Service string advice
UNB+UNOC:3+O0177X001FINANZ:59+O0013:59:X+150724:1622+20150724153322	Start of interchange, identification of sending and receiving stations, date, time and reference number of interchange file
UNH+1+APERAK:D:08A:UN:GAVJ10'	Start segment of APERAK message
BGM+305:::X01+232221+9'	Message type (305 = application error and acknowledgement), X01 = syntax check, message reference number and code as original
DTM+137:20150724:102'	Date of message
FTX+ABV+++acknowledgment of receipt?: Data interchange 12345 from 24.07.205 has been received and the syntax check was completed WITHOUT errors or warnings. The messages are forwarded for incoming invoice processing.'	Content in the form of text Acknowledgement of receipt: Data interchange 12345 from 24.07.205 has been received and the syntax check was completed WITHOUT errors or warnings. The messages are forwarded for incoming invoice processing.'
CNT+55:0'	Number of errors: 0
RFF+INN:12345'	Reference number of checked interchange file: 12345
DTM+171:201507240813:203'	Date/time of checked interchange file

NAD+MS+87654321::91++Berliner Autobau AG'	Sender of APERAK message
CTA+IC+:Herta Müller'	Sender contact
COM+030 8978 40999:TE'	Phone number
NAD+MR+12345678::92++Supplier Ltd.'	Recipient of APERAK message
ERC+M000::10'	Error code: M000 no errors detected at this level
UNT+14+1'	Message trailer
UNZ+1+20150724153322'	Interchange file trailer

3.2   One message rejected, other message(s) forwarded for processing

Interchange 12345 contains multiple invoices. Invoice number 1002 contains errors and is rejected (incorrect number of segments in UNT segment).

Structure of original message			Content of APERAK message
UNA			UNA:+.? '
UNB	Interchange 12345		UNB+UNOC:3+O0177X001FINANZ:59+O0013:59:X+150724:1622+20150724153322'
	UNH #1		UNH+1+APERAK:D:08A:UN:GAVJ10'
		BGM	BGM+305:::X01+232221+9'
		Invoice 1001	DTM+137:20150724:102'
	UNT		FTX+ABV+++Check report?::------------------:Your message contains 00 error(s) and 00 warning(s).:The message has been forwarded for incoming invoice processing.:X+DE'
	UNH #2		CNT+55:0'
		BGM	RFF+IV:1001'
		Invoice 1002...	RFF+INN:12345'
	UNT		DTM+171:201507240813:203'
	...		NAD+MS+87654321::91++Berliner Autobau AG'
UNZ			CTA+IC+:Herta Müller'
			COM+030 8978 40999:TE'
			NAD+MR+12345678::92++Supplier Ltd.'
			ERC+M000::10'
			UNT+14+1'
			UNH+2+APERAK:D:08A:UN:GAVJ10'
			BGM+305:::X01+232222+9'
			DTM+137:20150724:102'
			FTX+ABV+++Check report?::------------------:This message contains a list of the fields with errors in your VDA4938 message?::Your message contains 01 error(s) and 00 warning(s)?::X+DE'
			FTX+ABV+++Please correct the incorrectly completed fields and transfer the invoice again.:Your invoice data is NOT being processed in system XXX!:Please resubmit your invoice.:For instructions regarding VDA 4938 invoices and the error report, please refer to?::www.berlin-auto.de/vda4938-guide.htm+DE'
			CNT+55:0'
			RFF+IV:1002'
			NAD+MS+87654321::91++Berliner Autobau AG'
			CTA+IC+:Herta Müller'
			COM+030 8978 40999:TE'
			NAD+MR+12345678::92++Supplier Ltd.'
			ERC+N003::10'
			FTX+AAO++E+UNT[65].0075:Actual value?: 53 - Setpoint value?: 65'

			RFF+AWL:65:1' UNT+18+2' UNZ+2+20150724153322'

Explanation re. APERAK message:

UNA:+.? '	Service string advice
UNB+UNOC:3+O0177X001FINANZ:59+O0013:59:X+150724:1622+20150724153322'	Start of interchange, identification of sending and receiving stations, date, time and reference number of interchange file
UNH+1+APERAK:D:08A:UN:GAVJ10'	Start segment of 1st APERAK message
BGM+305:::X01+232221+9'	Message type (305 = application error and acknowledgement), X01 = syntax check, message reference number and code as original
DTM+137:20150724:102'	Date of message
FTX+ABV+++Check report?::------------------:Your message contains 00 error(s) and 00 warning(s).:The message has been forwarded for incoming invoice processing.:X+DE'	Result in the form of a text message
CNT+55:0'	Number of errors: 0
RFF+IV:1001'	Invoice number
RFF+INN:12345'	Interchange reference number
DTM+171:201507240813:203'	Date of interchange file
NAD+MS+87654321::91++Berliner Autobau AG'	Sender of APERAK message
CTA+IC+:Herta Müller'	Sender contact
COM+030 8978 40999:TE'	Phone number
NAD+MR+12345678::92++Supplier Ltd.'	Recipient of APERAK message
ERC+M000::10'	Error code: M000 no errors detected at this level
UNT+14+1'	End of 1st APERAK message
UNH+2+APERAK:D:08A:UN:GAVJ10'	Start segment of 2nd APERAK message
BGM+305:::X01+232222+9'	Message type (305 = application error and acknowledgement), X01 = syntax check, message reference number and code as original
DTM+137:20150724:102'	Date of message
FTX+ABV+++Check report?::------------------:This message contains a list of the fields with errors in your VDA4938 message?::Your message contains 01 error(s) and 00 warning(s)?::X+DE'	Result in the form of a text message
FTX+ABV+++Please correct the incorrectly completed fields and transfer the invoice again.:Your invoice data is NOT being processed in system XXX!:Please resubmit your invoice.:For instructions regarding VDA4938 invoices and the error report, please refer to?::www.berlin-auto.de/vda4938-guide.htm+DE'	
CNT+55:1'	Number of errors: 1
RFF+IV:1002'	Invoice number 1002
NAD+MS+87654321::91++Berliner Autobau AG'	Sender of APERAK message
CTA+IC+:Herta Müller'	Sender contact
COM+030 8978 40999:TE'	Phone number
NAD+MR+12345678::92++Supplier Ltd.'	Recipient of APERAK message
ERC+N003::10'	Error code: N003 = UNT: Number of segments with errors in message
FTX+AAO++E+UNT[65].0075:Actual value?: 53 - Setpoint value?: 65: UNT: Number of segments	Location and description of error

with errors in message '	
RFF+AWL:65:1'	Position of error in message
UNT+18+2'	End of 2nd APERAK message
UNZ+2+20150724153322'	Interchange file trailer

3.3   Entire interchange file rejected

Structure of original message			Content of APERAK message
UNA			UNA:+.? '
UNB			UNB+UNOC:3+O0177X001FINANZ:59+O0013:59:X+150724:1622+20150724153322'
	UNH #1		
		BGM	UNH+2+APERAK:D:08A:UN:GAVJ10'
		Invoice 1002	BGM+305:::X01+232223+9'
			DTM+137:20150724:102'
	UNT		FTX+ABV+++Check report?::------------------:This message contains a list of the fields with errors in your VDA4938 message?::Your message contains 01 error(s) and 00 warning(s)?::+DE'
	UNH #2		
		BGM	FTX+ABV+++Please correct the incorrectly completed fields and transfer the invoice again.:Your invoice data is NOT being processed in system XXX!:Please resubmit your interchange file:For instructions regarding VDA4938 invoices and the error report, please refer to?::www.berlin-auto.de/vda4938-guide.htm+DE'
		Invoice 1002	CNT+55:1'
	UNT		RFF+INN:12345'
	...		NAD+MS+87654321::91++Berliner Autobau AG'
UNZ			CTA+IC+:Herta Müller'
			COM+030 8978 40999:TE'
			NAD+MR+12345678::92++Supplier Ltd.'
			ERC+U019::10'
			FTX+AAO++E+UNB[2].0020:Actual value?: 12345:UNB?: Data interchange reference used multiple times'
			UNT+18+2'
			UNZ+2+20150724153322'

Explanation re. EDIFACT message:

UNA:+.? '	Service string advice
UNB+UNOC:3+O0177X001FINANZ:59+O0013:59:X+150724:1622+20150724153322'	Start of interchange, identification of sending and receiving stations, date, time and reference number of interchange file
UNH+2+APERAK:D:08A:UN:GAVJ10'	Start segment of APERAK message
BGM+305:::X01+232223+9'	Message type (305 = application error and acknowledgement), X01 = syntax check, message reference number and code as original
DTM+137:20150724:102'	Date of message
FTX+ABV+++Check report?::------------------:This message contains a list of the fields with errors in your VDA4938 message?::Your message contains 01 error(s) and 00 warning(s)?::+DE'	Result in the form of a text message
FTX+ABV+++Please correct the incorrectly completed fields and transfer the invoice	Additional text message

again.:Your invoice data is NOT being processed in system XXX!:Please resubmit your interchange file:For instructions regarding VDA4938 invoices and the error report, please refer to?::www.berlin-auto.de/vda4938-guide.htm+DE'	
CNT+55:1'	Number of errors: 0
RFF+INN:12345'	Reference number of checked interchange file: 12345
	Date/time of checked interchange file
NAD+MS+87654321::91++Berliner Autobau AG'	Sender of APERAK message
CTA+IC+:Herta Müller'	Sender contact
COM+030 8978 40999:TE'	Phone number
NAD+MR+12345678::92++Supplier Ltd.'	Recipient of APERAK message
ERC+U019::10'	Error code: U019
FTX+AAO++E+UNB[2].0020:Actual value?: 12345:UNB?: Data interchange reference used multiple times'	Description of error Data interchange reference used multiple times
UNT+18+2'	Message trailer
UNZ+2+20150724153322'	Interchange file trailer

4   Example of communication of content check result

Interchange 12345 contains multiple invoices. Invoice number 1002 contains errors and is rejected (no net amount for item, invoice total incorrect).

Structure of original message			Content of APERAK message
UNA			UNA:+.? '
UNB	Interchange 12345		UNB+UNOC:3+O0177X001FINANZ:59+O0013:59:X+150724:1622+20150724153322'
	UNH #1		UNH+1+APERAK:D:08A:UN:GAVJ10'
		BGM	BGM+305:::X01+232221+9'
		Invoice 1001	DTM+137:20150724:102'
	UNT		FTX+ABV+++Check report?::-----------------:Your message
	UNH #2		contains 00 error(s) and 00 warning(s).:The message has been
		BGM	forwarded for incoming invoice processing.:X+DE'
		Invoice 1002...	CNT+55:0'
	UNT		RFF+IV:1001'
	...		RFF+INN:12345'
UNZ			DTM+171:201507240813:203'
			NAD+MS+87654321::91++Berliner Autobau AG'
			CTA+IC+:Herta Müller'
			COM+030 8978 40999:TE'
			NAD+MR+12345678::92++Supplier Ltd.'
			ERC+M000::10'
			UNT+14+1'
			UNH+2+APERAK:D:08A:UN:GAVJ10'
			BGM+305:::X01+232222+9'
			DTM+137:20150724:102'
			FTX+ABV+++Check report?:This message contains a list of the
			fields with errors in your VDA4938 message?::Your message
			contains 02 error(s) and 00 warning(s)!+DE'
			FTX+ABV+++Please correct the incorrectly completed fields
			and transfer the invoice again.:Your invoice data is NOT being

| | | | | processed in system XXX!:Please resubmit your invoice.:For instructions regarding VDA4938 invoices and the error report, please refer to?::http://www.berlin-auto.de/vda4938-guide.htm+DE'
CNT+55:0'
RFF+IV:1002'
NAD+MS+87654321::91++Berliner Autobau AG'
CTA+IC+:Herta Müller'
COM+030 8978 40999:TE'
NAD+MR+12345678::92++Supplier Ltd.'
ERC+G004::10'
FTX+AAO++E+SG27.MOA[35]:Actual value?: N/A - Setpoint value?: MOA?+203...:No net amount for item'
RFF+AWL:35'
ERC+G006::10'
FTX+AAO++E+SG27.MOA[87]:Actual value?: 10200,00 .:Total invoice amount incorrect (SG50.MOA?+77); might be due to incorrect or missing figures in item list'
RFF+AWL:87:1:2'
UNT+18+2'
UNZ+2+20150724153322' |

Explanation re. EDIFACT message:

UNA:+.? '	Service string advice
UNB+UNOC:3+O0177X001FINANZ:59+O0013:59:X+150724:1622+20150724153322'	Start of interchange, identification of sending and receiving stations, date, time and reference number of interchange file®
UNH+1+APERAK:D:08A:UN:GAVJ10'	Start segment of APERAK message
BGM+305:::X03+232221+9'	Message type (305 = application error and acknowledgement), X03 = ERP system processing (final check), message reference number and code as original
DTM+137:20150724:102'	Date of message
FTX+ABV+++Check report?::------------------:Your message contains 00 error(s) and 00 warning(s).:The message has been processed and posted.+DE'	Result in the form of a text message
CNT+55:0'	Number of errors: 0
RFF+IV:1001'	Reference number of checked invoice
RFF+INN:12345'	Reference number of checked interchange file: 12345
DTM+171:201507240813:203'	Date/time of checked interchange file
NAD+MS+87654321::91++Berliner Autobau AG'	Sender of APERAK message
CTA+IC+:Herta Müller'	Sender contact
COM+030 8978 40999:TE'	Phone number
NAD+MR+12345678::92++Supplier Ltd.'	Recipient of APERAK message
ERC+M000::10'	No errors
UNT+14+1'	End of 1st APERAK message
UNH+2+APERAK:D:08A:UN:GAVJ10'	Start segment of 2nd APERAK message
BGM+305:::X03+232222+9'	Message type (305 = application error and acknowledgement), X03 = ERP system processing (final check), message reference number and code as original
DTM+137:20150724:102'	Date of message
FTX+ABV+++Check report?:This message	Result in the form of a text message

contains a list of the fields with errors in your VDA4938 message?::Your message contains 02 error(s) and 00 warning(s)!+DE'	
FTX+ABV+++Please correct the incorrectly completed fields and transfer the invoice again.:Your invoice data is NOT being processed in system XXX!:Please resubmit your invoice.:For instructions regarding VDA4938 invoices and the error report, please refer to?::http://www.berlin-auto.de/vda4938-guide.htm+DE'	
CNT+55:2'	Number of errors: 2
RFF+IV:1002'	Invoice number 1002
NAD+MS+87654321::91++Berliner Autobau AG'	Sender of APERAK message
CTA+IC+:Herta Müller'	Sender contact
COM+030 8978 40999:TE'	Phone number
NAD+MR+12345678::92++Supplier Ltd.'	Recipient of APERAK message
ERC+G004::10'	1st error G004 - net amount for item missing
FTX+AAO++E+SG27.MOA[35]:Actual value?: N/A - Setpoint value?: MOA?+203...:No net amount for item'	Error path and description
RFF+AWL:35'	Number of incorrect segment
ERC+G008::10'	2nd error G008 - invoice total incorrect
FTX+AAO++E+SG27.MOA[87]:Actual value?: 10200,00 .:Total invoice amount incorrect (SG50.MOA?+77); might be due to incorrect or missing figures in item list'	Error path and description
RFF+AWL:87:1:2'	Number of incorrect segment
UNT+18+2'	End of 2nd APERAK message
UNZ+2+20150724153322'	Interchange trailer

5   Comments

The scenario to be adopted should be agreed in advance between the parties. In a scenario where messages are only generated in the event of an error, the parties should agree a timeframe after which the sender of the invoice can safely assume that the recipient has received and processed the data. The recipient of the invoice is obliged to check and process incoming invoiced without undue delay. The VDA Working Group "Invoicing Processes" considers a period of 36 hours as adequate. For Saturdays, Sundays and public holidays, the period should be extended accordingly.

All arrangements regarding the interchange of invoice data by EDI should be agreed in writing by the parties.

The validity checks need to take into account the content of the message. Incomplete mandatory information required for the accounting of VAT in connection with the trading of goods and services within the European Union must ALWAYS result in a rejection of the message. Other omissions or incorrect details might trigger a warning or an error, depending on the nature of the omission or error.

A warning is triggered, if some of the information is incorrect but does not impair the processing of the invoice data. Error always prevent the invoice from being processed / posted. In such a case, the sender of the data must make the necessary corrections and transfer the data again.