BMW e-Invoicing
EDI Implementation Guideline

VDA 4988 v.1.1

Contents

Change History

Version	Summary of Changes	Date
1.0	MIG created / GoLive	09/01/2019
1.1	Additional BMW Company Codes	06/26/2020

1. INTRODUCTION

Document was created for BMW partners, who want to connect to Billg@te platform. The main objective of the document is to describe the principles of compatibility of documents created based on VDA 4988 standard with Billg@te platform. The document highlights the parameters which are necessary in order to properly generate and route VDA 4988 messages according to Billg@te platform compatibility requirements. Chapters 7 and 8 contain Message Implementation Guide (MIG).

Main principles of VDA 4988 EDI Implementation Guideline:

- Parties identification

- Document versioning

- Version and association assigned code

- Test indicator

- MIG of REMADV containing data fields which are set of data possible for use in exchange of VDA 4988 payment advice between BMW and partners.

Below is a glossary of terms:

Dictionary	
Routing	Routing is a process of identifying so called routing parameters in order to determine clearly and definitely relation between document sender and document receiver. Sender, receiver, conformance level and test indicator are input routing parameters. Based on them target format and communication channel are determined, which are output parameters. Each of those parameters can be determined dynamically, based on data contained inside message.
BMW company code	Code assigned to BMW company by BMW
Partner number	Partner number assigned by BMW
VDA	(Verband der Automobilindustrie) is association of the automotive industry, dealing with standardization, development and research in the automotive industry.
UN/EDIFACT	(the United Nations rules for Electronic Data Interchange for Administration, Commerce and Transport) comprises a set of internationally agreed standards, directories, and guidelines for the electronic interchange of structured data, between independent computerized information systems.
VDA 4988	Message format published by VDA organization. Message implementation guide contains segments, data element and qualifiers recommended by VDA. It means UN/EDIFACT standard is narrowed and suited to support many business processes.

2. INTERCHANGE STRUCTURE

An EDIFACT interchange file contains an interchange (UNB-UNZ) with one or more messages (UNH-UNT). The interchange frame can be preceded by a service string advice to define the used separator characters (recommended).

Status	Segment	Description
Mandatory	UNA	Service String Advice
Mandatory	UNB	Interchange header
Mandatory	UNH	1.Message header
.	…	
Mandatory	UNT	Message segments
		1. Message trailer
Dependant	UNH	2. Message header*
	…	
	UNT	Message segments*
		1. Message trailer*
	etc.	…
	UNH	n. Message trailer
	…	Message segments
	UNT	n. Message trailer
Mandatory	UNZ	Interchange trailer

3. ROUTING & OTHER PARAMETERS

There are certain routing parameters in the message content.

- message type
- sender of the message
- receiver of the message
- test indicator

Based on those parameters target format and communication channel are determined, which are output parameters. Parameters are determined dynamically based on data contained inside the message.

<u>Message type</u>

Based on message type it must be possible to determine business type of the message:

Format		Source field
VDA4988	EDIFACT D04A	/UNH/S009/0065

<u>Sender of the message</u>

This parameter is used to determine the party which sends the message. As a general rule, partners must be identified by their respective partner numbers (in BMW systems). BMW affiliates must be identified by BMW company codes. Source fields for this parameter for payment advice message are:

Format		Source field
VDA4988	EDIFACT D04A	/UNB/S002/0004

As a general rule, each message may contain only one sender.

<u>Receiver of the message</u>

This parameter is used to determine the party which receives the message. As a general rule, partners must be identified by their respective partner numbers (in BMW systems). BMW affiliates must be identified by BMW company codes. Source fields for this parameter for payment advice message are:

Format		Source field
VDA4988	EDIFACT D04A	/UNB/S003/0010

Test indicator

Some message types or formats may contain test indicator, distinguishing messages sent in test mode. Source fields for this parameter are:

Format		Source field
VDA4988	EDIFACT D04A	/UNB/0035

Presence of this parameter may affect processing mode, in particular messages sent from partners in test mode are used exclusively for tests on Billg@te platform and are not forwarded to BMW. For more information please refer to chapter 5.

3.1 MESSAGE VERSION

VDA 4988 recommendation utilizes EDIFACT REMADV message version D04A. Version is defined in UNH/S009/0052+0054. Message version is fixed type parameter and it not used for routing procedure.

Example:

■ UNH+1+REMADV:D:04A:UN:GAVG10'

3.2 ASSOCIATION ASSIGNED CODE

In usual EDIFACT REMADV D04A association assigned code is optional. However, VDA 4988 requires this code. Billg@te verifies the requirement by inspection of data element UNH/S009/0057. Association assigned code is fixed type parameter and it not used for routing procedure.

Example:

■ UNH+1+REMADV:D:04A:UN:GAVG10'

4. PARTY IDENTIFICATION

Parties are identified by the same identifiers in routing segments as well as in payment advice content segments. Identifiers BMW Company Code and Partner Number have to be used in UNB envelope segment and also in NAD segments for EDIFACT REMADV D04A implementation,

Billg@te requires the Partner to use qualifier "ZZZ" for routing party identifiers. Messages created by Billg@te in format VDA 4988 contain qualifiers "ZZZ" in UNB segment.

- UNB+UNOC:3+BMWGROUPA1:ZZZ+BMWTP31084913:ZZZ+161130:1250+1000000232++
  ++++1'

Example of correct envelope in payment advice document:

EDIFACT REMADV D04A

- UNB+UNOC:3+BMWGROUPA1:ZZZ+BMWTP31084913:ZZZ+161130:1250+1000000232++
  ++++1'
- Payment Advice addressed from BMW company code A1 to partner number 31084913.

5. TEST INDICATOR

Some message types or formats may contain test indicator, distinguishing messages sent in test mode. This parameter may affect processing mode, in particular messages sent from partners in test mode are used exclusively for tests on Billg@te platform and are not forwarded to BMW.

Documents in production mode are only allowed to send without test indicator via production relation.

Test flag is required when Partner uses test transmission channel profile. Documents with test indicator are only allowed to send via test relation.

Example:

- UNB+UNOC:3+BMWGROUPA1:ZZZ+BMWTP31084913:ZZZ+161130:1250+1000000232++
  ++++1'

6. ENCODING

Only possible encodings (ISO) used for VDA 4988 messages are:

EDIFACT REMADV D04A

- UNOA UN
- UNOB UN
- UNOC UN
- UNOD UN
- UNOY UN

Encoding	Allows
UNOA	As defined in **ISO 646** (with the exception of letters, lower case a to z). • A to Z • 0 to 9 • . , – ( ) / = (space)
UNOB	As defined in **ISO 646** • All of UNOA • a to z • ' + : ? ! " % & * ; < >
UNOC	As defined in **ISO 8859-1** : Information processing – Part 1: Latin alphabet No. 1.
UNOD	As defined in **ISO 8859-2** : Information processing – Part 2: Latin alphabet No. 2.
UNOY	**ISO 10646-1** octet without code extension technique

7. MIG VDA 4988 EDIFACT

The implementation guideline for outgoing VDA4988 payment advice is in the guideline zip package.

File name:

BMW_eInvoicing_EDI_Message_Implementation_Guideline_outgoing_VDA4988_v.1.1_EN.pdf

8. EXAMPLES

8.1 EXAMPLE VDA 4988 REMADV EDIFACT

8.1.1   Bank account payment

Examples of outgoing VDA 4988 files are in the folder samples of the guideline zip package and below.

UNA:+.? '

UNB+UNOC:3+BMWGROUPA1:ZZZ+BMWTP31084913:ZZZ+161130:1250+1000000232+ +++++1'

UNH+1+REMADV:D:04A:UN:GAVG10'

BGM+481::6+4300065728+9'

DTM+137:20160414:102'

DTM+138:20160820:102'

RFF+AVS:12445'

FII+RH+GB55200100005667123457:BEST GEARS LIMITED+BYLADR45FET::17::::HSBC'

FII+BI+DE01100100100555694600:BenDies GmbH+DEUTDEBB101::17::::Volksbank Berlin'

FTX+AAI+++General information:Text2:Text3:Text4:Text5'

NAD+BY+A1::92++Bayerische Motoren Werke AG:BMW AG+Am Juliusturm:14-38+Berlin++13599+DE'

RFF+ANK:40000005'

CTA+IC+:Dep/Personal ID'

COM+49123456789-0:TE'

COM+byuermail@mail.de:EM'

COM+123123123:FX'

NAD+SE+31084913::92++BEST GEARS LIMITED:BGL+Short Road:3c+Farehampton++68309+DE'

RFF+ANK:987654321'

RFF+AHL:DE46100900005883825777'

CTA+IC+:Person Name'

COM+49123555222555:TE'

COM+sellermail@mail.com:EM'

COM+4912311112222:FX'

NAD+PE+31084111::92++BEST GEARS LIMITED:BGL+Old Road:3d+Leipzig++04357+DE'

RFF+ANK:987000021'

CUX+2:EUR:11'

DOC+380::6+12346'

MOA+339:7140.00:EUR'

MOA+109:0.00:EUR'

MOA+9:7140.00:EUR'

DTM+137:20150517:102'

RFF+IV:4321'

UNS+S'

MOA+12:7140.00:EUR'

MOA+138:0.00:EUR'

MOA+98:7140.00:EUR'

UNT+35+1'

UNZ+1+1000000232'

8.1.2   Cheque payment

RCV_201612131250
00_A1_31084913_{2g

UNA:+.? '

UNB+UNOC:3+BMWGROUPA1:ZZZ+BMWTP31084913:ZZZ+161130:1250+1000000232+
+++++1'

UNH+1+REMADV:D:04A:UN:GAVG10'

BGM+481::6+4300065728+9'

DTM+137:20160414:102'

DTM+138:20160820:102'

RFF+CK:88775'

RFF+AVS:12445'

FII+RH+GB55200100005667123457:BEST GEARS LIMITED+BYLADR45FET::17:::::HSBC'

PAI+::20'

FTX+AAI+++General information:Text2:Text3:Text4:Text5'

NAD+BY+A1::92++Bayerische Motoren Werke AG:BMW AG+Am Juliusturm:14-
38+Berlin++13599+DE'

RFF+ANK:40000005'

CTA+IC+:Dep/Personal ID'

COM+49123456789-0:TE'

COM+byuermail@mail.de:EM'

COM+123123123:FX'

NAD+SE+31084913::92++BEST GEARS LIMITED:BGL+Short
Road:3c+Farehampton++68309+DE'

RFF+ANK:987654321'

RFF+AHL:DE46100900005883825777'

CTA+IC+:Person Name'

COM+49123555222555:TE'

COM+sellermail@mail.com:EM'

COM+4912311112222:FX'

NAD+PE+31084111::92++BEST GEARS LIMITED:BGL+Old Road:3d+Leipzig++04357+DE'

RFF+ANK:987000021'

CUX+2:EUR:11'

DOC+380::6+12346'

MOA+339:7140.00:EUR'

MOA+109:0.00:EUR'

MOA+9:7140.00:EUR'

DTM+137:20150517:102'

RFF+IV:4321'

UNS+S'

MOA+12:7140.00:EUR'

MOA+138:0.00:EUR'

MOA+98:7140.00:EUR'

UNT+36+1'

UNZ+1+1000000232'

9. CODE LISTS

9.1 BMW COMPANY CODE LIST

BMW Company Code	Company Name	street	city	postal code	country	VATID
A1	BMW AG	Petuelring 130	München	80809	Germany	DE129273398
MU	BMW (UK) Manufacturing Ltd.	Eastern Bypass Road	Oxford	OX4 6NL	Great Britain	GB239354938
B7	BMW Fahrzeugtechnik GmbH	Stedtfel-der Str. 2	Krauthausen	99819	Germany	DE811163085
C5	BMW Motoren GmbH	Hinterbergerstraße 2	STEYR	4400	AT	ATU41644903
S5	BMW Österreich Holding GmbH	Hinterbergerstraße 2	STEYR	4400	AT	ATU24214703
LG	Rolls-Royce Motor Cars Limited	The Drive Westhampnett Chichester	West Sussex	PO18 0SH	UK	GB239354938
FE	Rolls-Royce Motor Cars GmbH	Petuelring 130	München	80809	DE	GB800366563