



# **BMW eInvoicing**

## **EDI Implementation Guideline**

XRechnung – UBL2.1 v.1.1



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# Change History

Version	Summary of Changes	Date
1.0	MIG created / GoLive	25/03/2019
1.1	Additional BMW Company Codes - page 9 Address update BMW Business Unit Codes - page 10	30/11/2020



# 1.INTRODUCTION

This document is meant for BMW partners, who want to connect to eInvoicing platform. EDI Guideline is only further clarification of the XRechnung standard based on UBL2.1 xml. The main objective of the document is to describe the principles of compatibility of documents created based on XRechnung standard with eInvoicing platform. The document highlights the parameters which are necessary in order to properly generate and route XRechnung messages according to eInvoicing platform compatibility requirements. Chapter sixth and seventh contains Message Implementation Guides (MIG).

This guideline is valid for XRechnung **v.2-0**.

Main principles of XRechnung EDI Implementation Guideline:

- 1 x xml = 1 invoice
- Parties identification
- Document versioning
- XRechnung Conformance level
- MIG of incoming invoice and MIG outgoing invoice containing data fields which are set of data possible for use in exchange of XRechnung invoices 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.
Document incoming	The document sent from partners to BMW
Document outgoing	The document sent from BMW to partners
BMW company code	Code assigned to BMW company by BMW
Partner number	Partner number assigned by BMW
MIG	Message Implementation Guideline



## 2. FORMAT PRINCIPLES

XRechnung is a standard (semantic data model) published by „Koordinierungsstelle für IT-Standards“ in Germany. The standard allows 2 xml formats: UN/CEFACT XML Cross Industry Invoice (CII) and UBL2.1 xml. This guideline is based on UBL2.1. Standard specification contains guideline with selected elements and qualifiers from CII format

BMW allows only one invoice per message.

XRechnung messages contain five key parts:

- Specification identifier (XRechnung)
- Header with invoice number, invoice date
- Parties with routing parameters like BMW company code
- Line item section with, for example price, amount and information about product
- Summary section

Beside invoice xml file XRechnung allows to include **attachments**.

Recommended naming convention for attachment of invoice in XRechnung:

Prefix (Mandatory)	Time stamp (Optional)	Sender (Optional)	Receiver (Optional)	Message Id (Optional)	Extension (Mandatory)
ATT_1	CCYYMMDDHHMM SS <ul style="list-style-type: none"><li>• Only digits</li><li>• No separators</li></ul>	partner No or BMW C ompany Code	BMWComp anyCode or partnerNo	Globally unique identifier generate d by Partner	.pdf
Example: ATT_1_20160917102300_10000310_A1_{ unique_identifier_generated_by_Partner }.pdf					
Input format of the attachment sent from Partner number 10000310 to BMW Company Code A1 on 20160917102300					

Time stamp, sender, receiver and messageID are optional. The Partner is allowed to construct the file name of the attachment, as long as the prefix and extension are included.



Table: inbound XRechnung supported attachments and file extensions:

Document Type	Number of Documents	Mandatory/Optional	MIME Code	File Naming Convention and extension
PDF Dokument	Up to 9 maximum optional documents	can	application/pdf	*.pdf
Portable Network Graphics		can	image/png	*.png
JPEG Image		can	image/jpeg	*.jpeg
CSV Dokument		can	text/csv	*.csv
<b>Maximum Attachments</b>	<b>10</b>			

This table follows the XRechnung guideline recommendation. If needed and after consultation it is possible to send additional file formats not mentioned in the table.

## 3.ROUTING PARAMETERS

There are certain routing parameters in the message content.

The following tables define sources of data for the routing and message parameters in XRechnung.

Specification identifier (Conformance Level)

Format	Source field	Example values
UBL2.1	StandardBusinessDocument / Invoice / CustomizationID	urn:cen.eu:en16931:2017#compliant#urn:xoev-de:kosit:standard:xrechnung_1.2



#### Sender of the message

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 (BMW supplier number) in BMW systems. BMW affiliates must be identified by BMW company codes. Source fields for this parameter for invoice message are:

Format	Source field
UBL2.1	StandardBusinessDocument / Invoice / AccountingSupplierParty / Party / PartyIdentification / ID

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

#### Receiver of the message

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 (BMW supplier number) in BMW systems. BMW affiliates must be identified by BMW company codes. Source fields for this parameter for invoice message are:

Format	Source field
UBL2.1	StandardBusinessDocument / Invoice / AccountingSupplierParty / Party / PartyIdentification / ID



## 4.ENCODING

**UTF-8** is used for encoding UBL2.1 messages in eInvoicing. It is required to encode messages in UTF-8 from the Partner as well.





## 5.MIG INCOMING

The implementation guideline for incoming XRechnung invoices is in the guideline zip package.

File name:

**BMW\_eInvoicing\_EDI\_Message\_Implementation\_Guideline\_incoming\_XRechnung\_v1.1\_UBL2.1\_EN.pdf**

(Incoming: Partner sends invoices to BMW - XRechnung UBL2.1)



## 6.MIG OUTGOING

The implementation guideline for outgoing XRechnung invoices is in the guideline zip package.

File name:

**BMW\_eInvoicing\_EDI\_Message\_Implementation\_Guideline\_outgoing\_XRechnung\_v1.1\_UBL2.1\_EN.pdf**

(Outgoing: BMW sends invoices to Partner - XRechnung UBL2.1)



## 7.COMPLEMENTARY SOURCES

General information: <https://www.xoev.de/xrechnung-16828>

Download: <https://www.xoev.de/sixcms/media.php/13/xrechnung-2.0.0-bundle-2020-08-06.zip>



## 8.EXAMPLE

### 9.1 Sample XRechnung UBL2.1 XML incoming

Examples of eInvoicing compatible incoming files are in the folder samples of the guideline zip package.

### 9.2 Sample XRechnung UBL2.1 XML outgoing

Examples of eInvoicing compatible outgoing VDA 4938 files are in the folder samples of the guideline zip package.

## 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	DE	DE129273398
B7	BMW Fahrzeugtechnik GmbH	Stedtfel-der Str. 2	Krauthausen	99819	DE	DE811163085
C5	BMW Motoren GmbH	Hinterbergerstraße 2	STEYR	4400	AT	ATU41644903
FE	Rolls-Royce Motor Cars GmbH	Petuelring 130	München	80809	DE	GB800366563
LG	Rolls-Royce Motor Cars Limited	The Drive Westhamnett Chichester	West Sussex	PO18 0SH	UK	GB239354938
MU	BMW (UK) Manufacturing Ltd.	Eastern Bypass Road	Oxford	OX4 6NL	UK	GB239354938



RK	BMW Mobility Development Center s.r.o.	Bucharova 2817/13	Praha	15800	CZ	CZ08082189
S5	BMW Österreich Holding GmbH	Hinterbergerstraße 2	STEYR	4400	AT	ATU24214703
UH	BMW Manufact Hungary Kft	Széchenyi utca 31	Debrecen	4025	HU	HU26531436
U0	BMW Hams Hall Motoren GmbH	Canton Lane Coleshill	Birmingham	B46 1GB	GB	GB239354938

## 9.2 BMW BUSINESS AREA CODE LIST

BMW AREA CODE	NAME BMW BUSINESS AREA
A1	BMW Zentrale, alle Werke und Sparten
BC	BMW Classic
BX	Niederlassung Berlin
DG	Servicezentrum Dingolfing
DX	Niederlassung Düsseldorf
FX	Niederlassung Frankfurt
HH	Niederlassung Hamburg
HX	Niederlassung Hannover
LX	Niederlassung Leipzig
MX	Niederlassung München
NG	Niederlassung -Gesamt (PCO)
NX	Niederlassung Nürnberg
RX	Servicezentrum Regensburg
SX	Niederlassung Stuttgart
XA	Alpenhotel Ammerwald

## 9.3 BMW BUSINESS UNIT CODE LIST

Please note that the BMW Business Unit code can only be used in combination with the corresponding BMW Business Area code. In the following table you will find the BMW Business Area code from chapter 11.2 in the first column and the applicable BMW Business Unit Code in column 2.

A combination DG -> BXA is not possible and wrong.

A valid combination is BX -> BXA.



If the BMW Business Area code is A1, the Unit code is not needed.

BMW AREA CODE	BMW UNIT CODE	BMW BUSINESS UNIT NAME
BC	BCA	BMW Classic Moosacher Str. 66
BX	BXA	Niederlassung Berlin Kaiserdamm 90 / Hauptbetrieb
	BXB	Niederlassung Berlin Gehringstrasse 20
	BXD	Niederlassung Berlin Kaiserdamm 90 / Mini
	BXE	Niederlassung Berlin Blumberger Damm 2
	BXF	Niederlassung Berlin Kaiserdamm 90 / Motorrad Zentrum
DG	DGA	Servicezentrum Dingolfing Landshuter Str. 12
	DGB	Niederlassung Landshut Ohmstr. 2
	DGC	Niederlassung Dingolfing Karl-Dompert-Str. 7
	DGE	Niederlassung Dingolfing Landshuter Str. 12 / Motorrad Zentrum
	DGF	Niederlassung Moosthenning Gewerbefeld 4
DX	DXA	Niederlassung Düsseldorf Grafenberger Allee 277/258
	DXB	Niederlassung Düsseldorf Theodorstraße 279
	DXC	Niederlassung Düsseldorf BMW Motorradzentrum
	DXD	Niederlassung Bonn Vorgebirgsstrasse 95 / Hauptbetrieb
	DXE	Niederlassung Bonn Vorgebirgsstrasse 95 / Motorrad Zentrum
	DXF	Niederlassung Dortmund Nortkirchstrasse 111 / Hauptbetrieb
	DXG	Niederlassung Dortmund Nortkirchstrasse 111 / Motorrad Zentrum
	DXH	Niederlassung Essen Berthold-Beitz-Boulevard 508 / Hauptbetrieb
	DXK	Niederlassung Essen Berthold-Beitz-Boulevard 508 / Motorrad Zentrum
FX	FXA	Niederlassung Frankfurt Hanauer Landstraße 182/255
	FXB	Niederlassung Offenbach Spessarttring 9
	FXC	Niederlassung Frankfurt Hanauer Landstr. 182
	FXD	Niederlassung Dreieich Gustav-Otto-Strasse 1 / Motorrad Zentrum
	FXE	Niederlassung Dreieich Gustav-Otto-Strasse 1 / Gebrauchtwagenzentrum
	FXF	Niederlassung Darmstadt Marburger Str. 22
	FXM	Niederlassung Kassel Scharnhorststrasse 14
	FXN	Niederlassung Kassel Scharnhorststrasse 14 / Motorrad Zentrum
	FXS	Niederlassung Frankfurt Hanauer Landstrasse 182
HH	HHA	Niederlassung Hamburg Offakamp 10 / Hauptbetrieb
	HHB	Niederlassung Hamburg Süderstrasse 133
	HHC	Niederlassung Hamburg Friedrich-Ebert-Damm 120
	HHD	Niederlassung Barsbüttel Rahlstedter Strasse 4-10
	HHE	Niederlassung Hamburg Osdorfer Landstrasse



	HHG	Niederlassung Hamburg Offakamp 10 / Motorrad Zentrum
	HHH	Niederlassung Hamburg Bergedorfer Strasse 68
HX	HXA	Niederlassung Hannover Lister Kirchweg 87
	HXB	Niederlassung Hannover Meelbaumstrasse 3
	HXC	Niederlassung Hannover Lissabonner Allee 3 / EXPO Park
	HXD	Niederlassung Hannover Lissabonner Allee 3 / Motorrad Zentrum
	HXE	Niederlassung Göttingen Herbert-Quandt-Strasse 8
	HXF	Niederlassung Bremen Borgwardstrasse 4 / Hauptbetrieb
	HXG	Niederlassung Bremen Borgwardstrasse 4 – 6 / Motorrad Zentrum
LX	LXA	Niederlassung Leipzig Zwickauer Strasse 55 / Hauptbetrieb
	LXB	Niederlassung Leipzig Zwickauer Strasse 55 / Motorrad Zentrum
	LXC	Niederlassung Leipzig BMW Allee 1
	LXD	Niederlassung Chemnitz Röhrsdorfer Allee 3 / Hauptbetrieb
	LXE	Niederlassung Chemnitz Röhrsdorfer Allee 3 / Motorrad Zentrum
	LXF	Niederlassung Dresden Dohnaer Strasse 99 / Hauptbetrieb u. Gebrauchtwagen
	LXG	Niederlassung Dresden Dohnaer Strasse 99 – 101 / Motorrad Zentrum
MX	MXA	Niederlassung München Frankfurter Ring 35
	MXB	Niederlassung Garching-Hochbrück Daimlerstrasse 21
	MXD	Niederlassung München Riesenfeldstrasse 7
	MXE	Niederlassung München Drygalski-Allee 35
	MXF	Niederlassung München Werner-Heisenberg-Allee 10
	MXG	Niederlassung München Frankfurter Ring 35
	MXH	Niederlassung München Nordallee 62
	MXI	Niederlassung München Frankfurter Ring 29
	MXK	Niederlassung Garching-Hochbrück Zeppelinstrasse 5
	MXV	Niederlassung München Ingolstädter Straße 172
NX	NXA	Niederlassung Nürnberg Witschelstrasse 60-62
	NXB	Niederlassung Nürnberg Kilianstrasse 181
	NXC	Niederlassung Nürnberg Witschelstrasse 60
	NXE	Niederlassung Nürnberg Regensburger Strasse 420
	NXS	Niederlassung Nürnberg Witschelstrasse 59
RX	RXA	Servicezentrum Regensburg Herbert-Quandt-Allee
SX	SXA	Niederlassung Stuttgart Untere Waldplätze 3
	SXB	Niederlassung Stuttgart Pragstrasse 140
	SXC	Niederlassung Stuttgart Pascalstr. 1
	SXD	Niederlassung Mannheim Neckarauer Strasse 164



	SXE	Niederlassung Mannheim Inselstrasse 2
	SXG	Niederlassung Saarbrücken Am Halberg 6-7
	SXH	Niederlassung Saarlouis Schanzenstrasse 20
	SXK	Niederlassung Saarbrücken Am Halberg 6-7
	SXL	Niederlassung Kirkel Konrad-Zuse-Str. 1
XA	XA	Alpenhotel Ammerwald