Definitions OGD data

List of changes

Date	Version	Change	Author
30.06.2021	1.0	Initialversion	Thomas Häuptli
31.08.2021	2.0	Addition of data type and length of the fields. Change XSD file type for XML file «DEKLARATIONEN» fields «SORTIERUNG_ZEILENNUMMER» and «DEKLARATIONSART»; with XML file «SEQUENZEN» field «BASIS_SEQUENZNUMMER»; with XML file «STOFF_SYNONYM» field «LAUFENDE_NR»	Thomas Häuptli
1.01.2022	2.1	XML File «PRAEPARATE». Only output the content of the "ZULASSUNSKATEGORIE" field if the code is "C"; “P” or “S". Content of the «BASIS_ZULASSUNGSNUMMER» field only for approval categories "C"; “P”; or “S".	Thomas Häuptli
01.02.2023	2.2	Swissmedic is migrating its MinIO instance to S3 StorageGRID as MinIO will no longer be provided in the FOITT.	Renate Müller

Purpose of this document

This document is designed to show interested users of machine-readable information what types of information are involved and how these are linked.

On the first day of each month, data relating to authorised human and veterinary medicines are generated in 10 XML files and as a ZIP-File made available on the OGD portal for download by interested users.

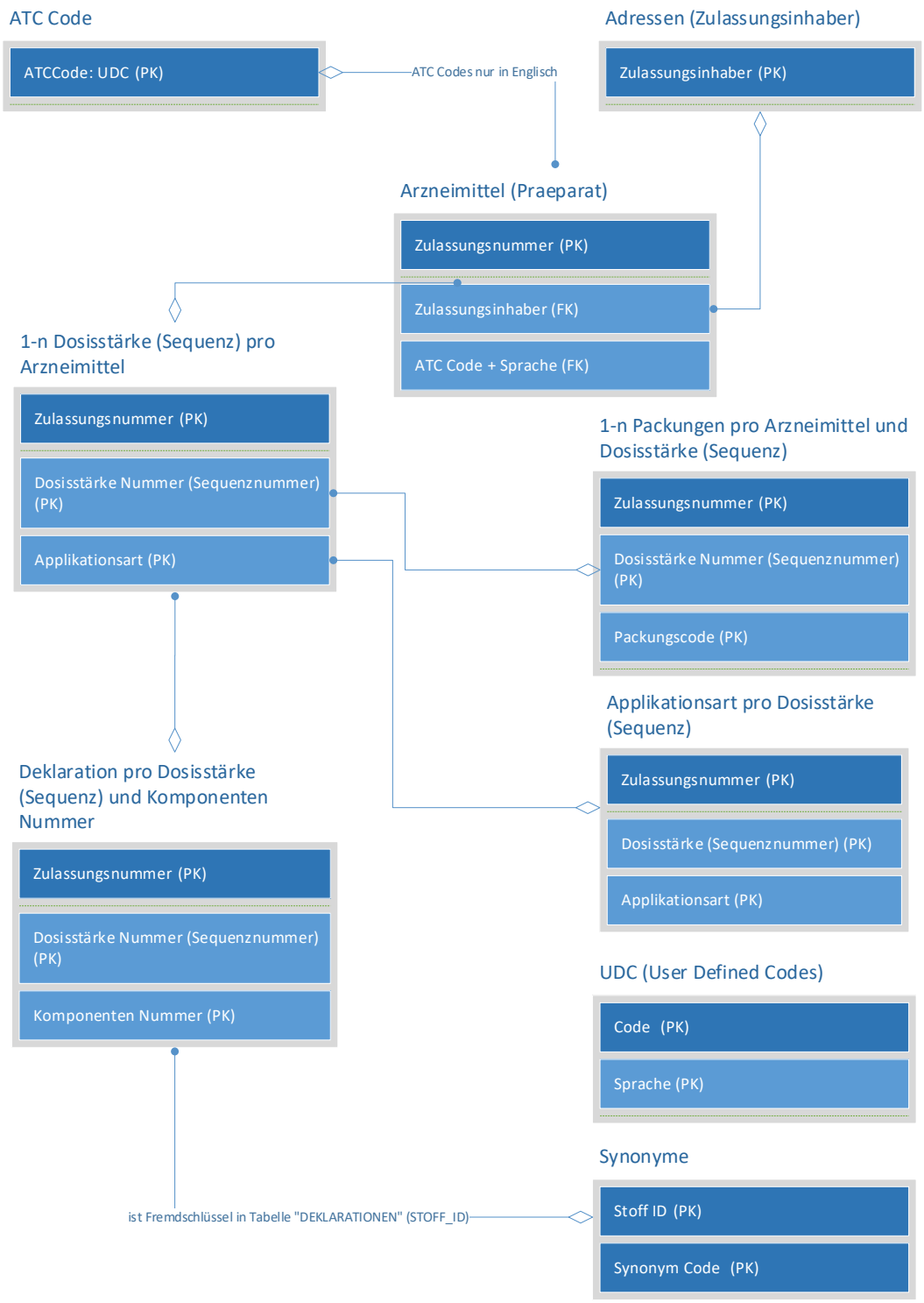
The dataset is based on the last calendar day of the previous month for medicines with the authorisation status "authorised", "temporary" or "suspended". Also published are medicines whose authorisation status has changed since the last publication (“no longer authorised” or “temporary authorisation expired”):

If you have technical questions please send an E-Mail to IT@swissmedic.ch with the note “«Schnittstelle hmd-zl-172-ogd»”. If you have professional questions please send an E-Mail to “anfragen@swissmedic.ch” with the note “«Schnittstelle hmd-zl-172-ogd»”.

Content

1 Information about machine-readable data

This section shows how the data are related to each other.

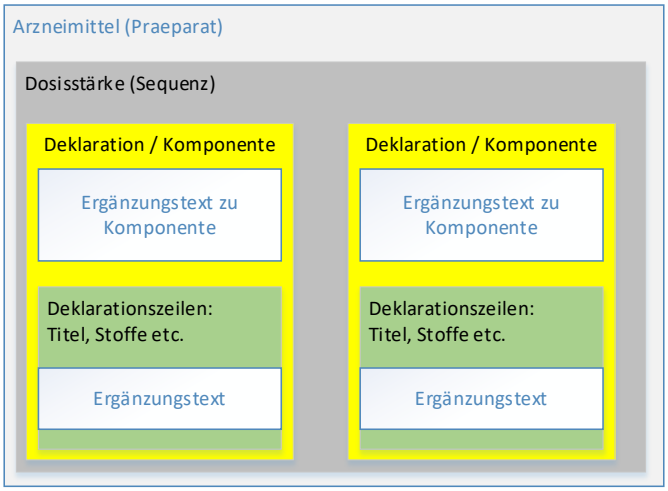


A medicinal product can have 1 to n sequences (dosage strengths).

- For each dosage strength there are 1-n packs (pack sizes)

Composition (declaration):

- Each dosage strength can have 1-n components (e.g. lyophilisate & solvent)
- 1-n substances can occur per component



The 10 XML files are compressed in a ZIP-file (OGD.zip) on the «S3 StorageGRID Cloud Storage» (https://ogd.swissmedic.ch/hmd/ZL/172/Daten/OGD_JJJJMM.zip). The ZIP-File will be replaced each first day oft he month. The name of the ZIP-file would be in allways with the filename OGD_JJJJMM.ZIP (JJJJMM is the creation month of this file).

For each XML file, it exist also a XSD file, which are also on the «S3 StorageGRID Cloud Storage» https://ogd.swissmedic.ch/hmd/ZL/172/Beschreibungen/. In addition it exists this document in the following languages DE, FR, IT, EN.

Each month the ZIP-file will be copied in a Archiv https://ogd.swissmedic.ch/hmd/ZL/172/Archiv/OGD_JJJJMM.zip on the “S3 StorageGRID Cloud Storage». The name of the ZIP-file would be in allways with the filename OGD_JJJJMM.ZIP (JJJJMM is the creation month of this file).

2 XML File «Adressen.XML»

This XML file contains the address data output for the business partners (marketing authorisation holders) linked in the medicinal products.

Field name	Datentyp Source	Length	XSD-Typ	Brief description	Key
	CHAR	10	Integer numeric	Business partner number	Primary Key
	CHAR	40	String	Name 1 of the organisation	
	CHAR	71	String	Street 1 of the organisation	
	CHAR	10	String	Post office box	
	CHAR	3	String	Country code	**In File UDC** System code «LAND» Column «CODE_VALUE» = LAND_CODE
	CHAR	10	String	Post code of the location	
	CHAR	40	String	Town/city	
	CHAR	1	String	Language code	**In File UDC** System code «SPRACH_COD» Column «CODE_VALUE» = SPRACH_CODE
	CHAR	3	String	Canton for country CH otherwise federal state or region	**In File UDC** System code «KANTON» Column «CODE_VALUE» = KANTON

3 XML File «Applikationsarten_pro_Sequenz.XML»

In this XML file the administration route code is output for each medicinal product and dosage strength.

There are 0 – n administration routes per dosage strength (sequence), recorded primarily for veterinary medicinal products and for a small number of human medicinal products. The administration route is recorded in accordance with the EDQM list.

Field name	Datentyp Source	Length	XSD-Typ	Brief description	Key
	NUMC	6	String	Authorisation number	Primary Key
	NUMC	2	String	Dosage strength number	
	CHAR	10	String	Administration route	**In File UDC** USER_DEFINED_CODE (ROUTE_ADMIN) Column «CODE_VALUE » = APPLIKATIONSART_CODE

4 XML File «ATC.XML»

This XML file contains the ATC information.

As a rule, the medicinal product has one ATC code; if a second one exists only the main code is extracted.

Field name	Datentyp Source	Length	XSD-Typ	Brief description	Key
	CHAR	10	String	ATC code	Primary Key
	CHAR	255	String	ATC code description	

5 XML File «Deklarationen.XML»

This XML file contains the relevant information for each medicinal product and dosage strength.

Precise composition of the dosage strength; a dosage strength has at least one component (if several components exist, they are merely named).
The composition is presented using various row types:

Substances (type = S)
Title (type = T)*
Extract (type = E)*
Miscellaneous (type = V)*
Formulation information(type = G)*

The following information is available for each row:

Row type*
Row number, sort order,
SubstanceID (only if row type = substance)
Substance category* (active substance, excipient with function (e.g. colouring agent))
Quantity
Unit*
Declaration format* (declarable, not declarable)

*UDC

Each declaration ends with formulation information, which defines the reference size (e.g. 'per ml').

Field name	Datentyp Source	Length	XSD-Typ	Brief description	Key
	NUMC	6	Integer	Authorisation number	Primary Key
	NUMC	2	Integer	Dosage strength number	Primary Key
	CHAR	8	Integer	Component	Primary Key
	CHAR	10	String	Component name	**In File UDC** USER_DEFINED_CODE = COMP_NAME Column «CODE_VALUE» = KOMPONENTE
	NUMC	3	Integer	Declaration row	Primary Key
	NUMC	5	Integer	Sort order	
	CHAR	10	String	Declaration format	irrelevant, only substances are extracted
	CHAR	32	String	Substance GUID	Primary Key
	CHAR	10	String	Substance category	**In File UDC** USER_DEFINED_CODE = SUBSTANCE_CATEGORY» Column «CODE_VALUE» = "STOFFKATEGORIE"
	CHAR	30	String	Quantity only by "Declaration type = "1"	
	CHAR	10	String	Unit only by "Declaration type = "1"	**In File UDC** USER_DEFINED_CODE = UNIT Column «CODE_VALUE» = "MENGEN_EINHEIT»
	CHAR	10	String	Declaration type "1" or "2"	**In File UDC** USER_DEFINED_CODE = DECLA_FORMAT Column «CODE_VALUE» = "DEKLARATIONSART"

6 XML File «Packungen.XML» (packs)

This XML file contains the packaging information for each medicinal product, dosage strength and pack size

Field name	Datentyp Source	Length	XSD-Typ	Brief description	Key
	NUMC	6	Integer	Authorisation number	Primary Key in Preparations FILE
	NUMC	2	Integer	Dosage strength number	
	NUMC	3	Integer	Pack code	
	CHAR	10	String	Authorisation status	**In File UDC** SYSTEM_CODE = blank Column «CODE_VALUE» = MA_STATUS
	CHAR	150	String	Pack description	
	CHAR	15	String	Pack size	
	CHAR	10	String	Package unit	**In File UDC** USER_DEFINED_CODE = PACKAGE_UNIT Column «CODE_VALUE» = PACKUNGSEINHEIT
	DATS JJJJMMTT	8	Date	Revocation date YYYY-MM-DD	
	CHAR	10	String	Narcotics list	**In File UDC** USER_DEFINED_CODE = NARC_LIST Column «CODE_VALUE» = BTM_CODE
ABGABEKATEGORIE	CHAR	10	String	delivery category to the pack	Im File UDC User_Defined_Code = «SUPL_CATEGORY» Column «CODE_VALUE» = «SUPL_CAT»
PACKUNGSTYP	CHAR	10	String	Package type	Im File UDC User_Defined_Code = «PAC_TYPE» Column «CODE_VALUE» = «PAC_TYPE»

Pack code, pack size, package unit and pack description, in this order, form the designation of the packaging.

7 XML File «Praeparate.XML» (medicinal products)

This XML file contains the medicinal product data

Field name	Datentyp Source	Length	XSD-Typ	Brief description	Key
VERWENDUNG	**CHAR**	**10**	String		**Medical use:** **HAM for human medicinal products** **TAM for veterinary medicinal products**
ZULASSUNGSNUMMER	NUMC	6	Integer	Authorisation number	Primary Key
PRAEPARATENAME	CHAR	120	String	Name of medicinal product	currently valid medicinal product name in the publication language of the authorisation holder
ARZNEIFORM	CHAR	10	String	Dosage form code	**In File UDC** USER_DEFINED_CODE = DF column «CODE_VALUE» = ARZNEIFORM
ATC_CODE	CHAR	10	String	ATC code	PK in File ATC
HEILMITTEL_CODE	CHAR	10	String	Therapeutic products code	**In File UDC** USER_DEFINED_CODE = TP_CODE column «CODE_VALUE» = HEILMITTEL_CODE
ZULASSUNGSSTATUS	CHAR	2	String	Case: Status	**In File UDC** USER_DEFINED_CODE = MA_STATUS Column CODE_VALUE = ZULASSUNGSSTATUS
ZULASSUNGSKATEGORIE	CHAR	10	String	Authorisation category	**In File UDC** USER_DEFINED_CODE = MA_CATEGORY Column CODE_VALUE = ZULASSUNGSKATEGORIE
ZULASSUNGSINHABERIN	CHAR	10	Integer	Marketing authorisation holder	Primary Key in Addresses file
ERSTZULASSUNGSDATUM	DATS JJJJMMTT	8	Optional-date	Authorisation date YYYY-MM-DD	
BASIS_ZULASSUNGSNUMMER	NUMC	6	String	Basic authorisation number	only if “ZULASSUNGSKATEGORIE” = “P”; “C”; “S”
ABGABEKATEGORIE	CHAR	10	Optional-date	Supply category	**In File UDC** USER_DEFINED_CODE = SUPL_CATEGORY Column «CODE_VALUE» = ABGABEKATEGORIE
IT_NUMMER	CHAR	10	String	IT number	**In File UDC** USER_DEFINED_CODE = IT_NO Column «CODE_VALUE» = IT_NUMMER
ANWENDUNGSGEBIET	STRING	0	String	Indication	min. in publication language of the authorisation holder, multilingual in some cases
ABLAUFDATUM	DATS JJJJMMTT	8	Optional-date	Expiry date YYYY-MM-DD	
CHARGENFREIGABE_PFLICHT	CHAR	10	String	batch release obligation	Value “X” or empty
EINZELEINFUHR_BEWILLIG_PFLICHT	CHAR	10	String	single import duty	Value “X” or empty

8 XML File «Sequenzen.xml» (dosage strength)

This XML file contains various types of information for each dosage strength.

Field name	Datentyp Source	Length	XSD-Type	Brief description	Key
	NUMC	6	Integer	Authorisation number	Primary Key
	NUMC	2	Integer	Dosage strength number	Primary Key
	CHAR	10	String	Authorisation status	**In File UDC** USER_DEFINED_CODE = MA_STATUS Column CODE_VALUE = ZULASSUNGSSTATUS
	DATS JJJJMMTT	8	Date	Revocation date YYYY-MM-DD	
	CHAR	140	String	Dosage strength name	
	CHAR	10	String	Authorisation type	**In File UDC** USER_DEFINED_CODE = MA_TYPE Column CODE_VALUE = ZULASSUNGSART
	NUMC	2	Integer	Basic dosage strength	
	STRING	0	String	Indication	
DEKLA_HMV4	CHAR	1	String	If empty → Declaration by the new law (from 1.1.2019). If "X" by the old law	DEKLA_HMV4 Empty or "X"

Notes

- Indication per dosage strength (sequence) exists only for veterinary medicinal products (if various sequences exist for various target animal groups).

9 XML File «Stoff-Synonyme.XML» (Synonyms)

This XML file contains the Latin names of substances

Field name	Datentyp Source	Length	XSD-Typ	Brief description	Key
	CHAR	32	String	Substance GUID	**Primary Key in SUBSTANCES file**
	CHAR	10	String	Synonym type only "LN"	"LN" means latin name
	NUMC	3	Integer	Synonym number	irrelevant since only LN is output
	CHAR	200	String	Substance name	
	CHAR	10	String	Source	**Im File UDC** USER_DEFINED_CODE = «**SOURCE**» Column "CODE_VALUE" = «SOURCE»

Synonym LN Latin name, officially used / recognised substance name in Switzerland, Latin for most substances, English in rare cases.

10 XML File «User-Defined-Codes.XML»

This XML file contains the meanings of the UDC codes that occur in the XML files

Field name	Datentyp Source	Length	XSD-Type	Brief description	Key
SYSTEM_CODE	CHAR	10	String	Character field with length 10	
USER_DEFINED_CODE	CHAR	30	String	UDC name (table name)	
CODE_VALUE	CHAR	10	String	UDC value Swissmedic	
SPRACH_CODE	LANG	1	String	Language code	
BESCHREIBUNG_1	CHAR	50	String	UDC description 1	
BESCHREIBUNG_2	CHAR	100	String	UDC description 2	
BESCHREIBUNG_LANG	CHAR	200	String	UDC description 3	

11 XML File «Export-Datum.XML» (Creation Date)

This file provides information on when the data were extracted.

Field name	Datentyp Source	Length	XSD-Typ	Brief description	Key
	Dats JJJJMMTT	8	Date	Deadline of the data YYYY-MM-DD	

12 Attachement A: XSD Files for the XML Files

XSD Description	***Pfad***
OGD-Adressen.xsd	**https://ogd.swissmedic.ch/hmd/ZL/172/Beschreibungen/OGD-Adressen.xsd**
OGD-Applikationsarten_pro_Sequenz.xsd	**https://ogd.swissmedic.ch/hmd/ZL/172/Beschreibungen/OGD-Applikationsarten_pro_Sequenz.xsd**
OGD-ATC-Codes.xsd	**https://ogd.swissmedic.ch/hmd/ZL/172/Beschreibungen/OGD-ATC-Codes.xsd**
OGD-Deklarationen.xsd	**https://ogd.swissmedic.ch/hmd/ZL/172/Beschreibungen/OGD-Deklarationen.xsd**
OGD-Export-Datum.xsd	**https://ogd.swissmedic.ch/hmd/ZL/172/Beschreibungen/OGD-Export-Datum.xsd**
OGD-Packungen.xsd	**https://ogd.swissmedic.ch/hmd/ZL/172/Beschreibungen/OGD-Packungen.xsd**
OGD-Praeparate.xsd	**https://ogd.swissmedic.ch/hmd/ZL/172/Beschreibungen/OGD-Praeparate.xsd**
OGD-Sequenzen.xsd	**https://ogd.swissmedic.ch/hmd/ZL/172/Beschreibungen/OGD-Sequenzen.xsd**
OGD-Stoff-Synonyme.xsd	**https://ogd.swissmedic.ch/hmd/ZL/172/Beschreibungen/OGD-Stoff-Synonyme.xsd**
OGD-User-Defined-Codes.xsd	**https://ogd.swissmedic.ch/hmd/ZL/172/Beschreibungen/OGD-User-Defined-Codes.xsd**

13 Attachement B: UDC Codes in the XML File

XML File	**Column XML File**	**Information from «User-Defined-Codes» XML**	**Code Description**
Adressen	LAND_CODE	Systemcode = «LAND» Column «CODE_VALUE» = «LAND_CODE»	BESCHREIBUNG_1 BESCHREIBUNG_LANG
Adressen	SPRACH_CODE	Systemcode = «SPRACH_COD» Column «CODE_VALUE» = «SPRACH_CODE»	BESCHREIBUNG_1
Adressen	KANTON	Systemcode = «KANTON» Column «CODE_VALUE» = «KANTON»	BESCHREIBUNG_1
Applikationsarten_pro_Sequenz	APPLIKATIONSART_CODE	USER_DEFINED_CODE «ROUTE_ADMIN» Column «CODE_VALUE » = «APPLIKATIONSART_CODE»	BESCHREIBUNG_2
Deklarationen	KOMPONENTE	USER_DEFINED_CODE = «COMP_NAME» Column «CODE_VALUE» = «KOMPONENTE»	BESCHREIBUNG_2
Deklarationen	STOFFKATEGORIE	USER_DEFINED_CODE = «SUBSTANCE_CATEGORY» Column «CODE_VALUE» = «STOFFKATEGORIE»	BESCHREIBUNG_1 BESCHREIBUNG_2
Deklarationen	MENGEN_EINHEIT	USER_DEFINED_CODE = «UNIT» Column «CODE_VALUE» = «MENGEN_EINHEIT»	BESCHREIBUNG_1
Deklarationen	DEKLARATIONSART	USER_DEFINED_CODE = «DECLA_FORMAT» Column «CODE_VALUE» = «DEKLARATIONSART»	BESCHREIBUNG_1

XML File	Column XML File	Information from «User-Defined-Codes» XML	Code Description
Packungen	ZULASSUNGSSTATUS	SYSTEM_CODE = «MA_STATUS» Column «CODE_VALUE» = «MA_STATUS»	BESCHREIBUNG_1
Packungen	PACKUNGSEINHEIT	USER_DEFINED_CODE = PACKAGE_UNIT Column «CODE_VALUE» = «PACKUNGSEINHEIT»	BESCHREIBUNG_1
Packungen	BTM_CODE	USER_DEFINED_CODE = «NARC_LIST» Column «CODE_VALUE» = «BTM_CODE»	BESCHREIBUNG_1 BESCHREIBUNG_2
Packungen	ABGABEKATEGORIE	USER_DEFINED_CODE = «SUPL_CATEGORY» Column «CODE_VALUE» = «SUPL_CAT»	BESCHREIBUNG_1 BESCHREIBUNG_2
Packungen	PACKUNGSTYP	USER_DEFINED_CODE = «PAC_TYPE» Column «CODE_VALUE» = «PAC_TYPE»	BESCHREIBUNG_1
Praeparate	ARZNEIFORM	USER_DEFINED_CODE = «DF» Column «CODE_VALUE» = «ARZNEIFORM»	BESCHREIBUNG_2
Praeparate	ATC_CODE	Primary Key in ATC_Files	
Praeparate	HEILMITTEL_CODE	USER_DEFINED_CODE = «TP_CODE» Column «CODE_VALUE» = «HEILMITTEL_CODE»	BESCHREIBUNG_1
Praeparate	ZULASSUNGSSTATUS	USER_DEFINED_CODE = «MA_STATUS» Column «CODE_VALUE» = «ZULASSUNGSSTATUS»	BESCHREIBUNG_1
Praeparate	ZULASSUNGSKATEGORIE	USER_DEFINED_CODE = «MA_CATEGORY» Column «CODE_VALUE» = «ZULASSUNGSKATEGORIE»	BESCHREIBUNG_1
Praeparate	ABGABEKATEGORIE	USER_DEFINED_CODE = «SUPL_CATEGORY» Column «CODE_VALUE» = «ABGABEKATEGORIE»	BESCHREIBUNG_1 BESCHREIBUNG_2
Praeparate	IT_NUMMER	USER_DEFINED_CODE = “IT_NO” Column «CODE_VALUE» = “IT_NUMMER»	BESCHREIBUNG_2
Sequenzen	ZULASSUNGSSTATUS	USER_DEFINED_CODE = «MA_STATUS» Column «CODE_VALUE» = «ZULASSUNGSSTATUS»	BESCHREIBUNG_1
Sequenzen	ZULASSUNGSART	USER_DEFINED_CODE = «MA_TYPE» Column «CODE_VALUE» = «ZULASSUNGSART»	BESCHREIBUNG_1
Sequenzen	DEKLA_HMV4	If «X» → declaration by the old law (before 1.1.2019)	
Stoff-Synonyme	SYNONYM_CODE	USER_DEFINED_CODE = «SYNONYM_TYPE» Column «CODE_VALUE» = «SYNONYM_CODE»	BESCHREIBUNG_1 BESCHREIBUNG_2
Stoff-Synonyme	QUELLE	USER_DEFINED_CODE = «SOURCE» Column «CODE_VALUE» = «SOURCE»	BESCHREIBUNG_1 BESCHREIBUNG_2