

GDT-Object catalogue

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0. Introduction

The Qualitätsring Medizinische Software e.V. (QMS) develops and elaborates in its working groups (BDT/GDT/LDT) the basis for a common standard of medical data transmission. All three interfaces are based on the xDT standard.

(See also: Zentralinstitut für die kassenärztliche Versorgung, www.zi-berlin.de and Kassenärztliche Bundesvereinigung, www.kbv.de, both in German)

While defining the GDT data set description Version 3.01 with its associated context extensions on the level of record types, it became apparent that some elements (in form of record types from the xDT data set record) are used continuously.

Those elements exist in a consistent series of record types so that it was useful to define one corresponding object and to publish those in a commonly used object catalogue.

This document lists the already elaborated objects in a full outline and adds supporting commentary to them.

To label an object distinctively, it is respectively specified by a separate FK8200 object identifier.

Please note:

This version of the object catalogue refers to the GDT data set and interface description V 3.0, Release 1.0 which was also finally released at 10/01/2013 by the QMS. Therefore this version of the catalogue can only be used with the mentioned version of the description.

With the upcoming revision of the data set descriptions for the treatment data volume (Behandlungsdatenträger → BDT) and the laboratory data volume (Labordatenträger → LDT), it is likely that the GDT object catalogue will serve as a basis.

In this regard, it is the aim of the QMS to unify and standardize the object catalogue for all three segments of the xDT.

A version which will be accounted for GDT/BDT/LDT together is currently in the comment period. When you implement an interface, please double-check which version of the catalogue has to be used in connection with which data set description. The QMS will publish those dependencies on its website (www.qms-standards.de).

In the following sections, the particular objects are described in detail.

FI = Field identifier M = must C = can

1. Obj_Kopfdaten (Obj_header_data)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIDent (Object identifier)	M		Field content = „Obj_Kopfdaten“ (Obj_header_data)
8315	1				GDT-ID of the receiver	C		
8316	1				GDT-ID of the sender	C		
9103	1				Date of creation	C		
9206	1				Character set used	C		3=ISO8859-15 is the allowed character set
9218	1				Version GDT	M		
0102	1				Person/company responsible for software	C		
0103	1				Software	C		
0132	1				Release stage	C		
8201	1				ObjektIDent End (end of object)	M		Contains the number of transmitted fields, including the fields “8200” and “8201”

2. Obj_Patient

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIDent (Object identifier)	M		Field content = „Obj_Patient“
3000	1				Patient number/ID	M		If a device is not able to transmit the patient number, the value 0 or an empty field has to be sent. In this case the data of the actual patient is requested.
3100	1				Name affix of the patient	C		e.g. Lord of ...
3101	1				Name of the patient	M		
3102	1				First name of the patient	M		
3103	1				DOB of patient (MMDDYYYY)	M		MMDDYYYY
3104	1				Title of the patient	C		
3105	1				Health-insurance number of the patient	C		
3106	1				Full residence of the patient	C		Postal code and hometown
3107	1				Home street of the patient	C		Street and number
3108	1				Type of insurance, MFR	C		1 = Member, 3 = Family insurance, 5 = Pensioner
3110	1				Gender of the patient	C		0 = unknown, 1 = male, 2 = female
3112	1				Postal code of the patient	C		
3113	1				Hometown of the patient	C		
3114	1				Residence country code	C		
3116	1				Health-insurance area	C		00 = Dummy for electronic health card 01 = Schleswig-Holstein 02 = Hamburg 03 = Bremen 17 = Niedersachsen 20 = Westphalia-Lippe 38 = Northern Rhine 46 = Hessen 47 = Koblenz 48 = Rhine Hessen 49 = Palatinate 50 = Trier 51 = Rhineland-Palastinate 52 = Baden-Württemberg 55 = Baden North 60 = Baden South 61 = North-Württemberg 62 = South-Württemberg 71 = Bavaria 72 = Berlin 73 = Saarland 74 = KBV

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
								78 = Mecklenburg-Hither Pomerania 83 = Brandenburg 88 = Saxony-Anhalt 93 = Thuringia 98 = Saxony
3119	1				Health-insurance number (electronic health card in Germany) of the patient	C		
3618	1				Cellphone number of the patient	C		00491709988776
3619	1				Email address of the patient	C		John_Doe@freemailprovider.com
3626	n				Phone number of the patient	C		
3628	1				Native language of the patient	C		Swahili
8201	1				ObjektIdend End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

3. Obj_Basisdiagnostik (Obj_basic-diagnostics)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdend (Object identifier)	M		Field content = "Obj_Basisdiagnostik" (Obj_basic_diagnostics)
3622	1				Height of patient	C		175.50
3623	1				Weight of patient	C		99.50
3654	n				Risk factors	C		Smoker
3656	n				Allergies	C		Atopic eczema
3658	n				Accidents	C		Motor bike accident
3660	n				Surgeries	C		Appendix
3662	n				Anamnesis	C		Premature delivery
3664	1				Number of deliveries	C		2
3666	1				Number of children	C		3
3668	1				Number of pregnancies	C		4
3670	1				Permanent therapy	C		Patient-controlled Analgesia (PCA)
3672	n				Follow-up appointment	C		01121993
3678	n				Emergency label	C		00 Allergies: Medicaments 01 Allergies: Insect bite 02 Allergies: Food 03 Allergien: inhalative allergies 04 Allergies: contact allergy 05 Endocrine: Diabetes 06 Endocrine: Thyroid disease 07 Blood: coagulation disorder / Marcumar 07 Blood defense disorder 09 Blood: HIV positive 10 Blood type 0 11 Blood: type A 12 Blood type B 13 Blood type AB 14 Blood rhesus positive 15 Eyes: Glaucoma 16 Eyes: Cataract 17 CNS: Depression 18 CNS: Stroke 19 ZNS: Seizures 20 Lung: Asthma / COPD 21 Heart: cardiac valvular defect 22 Heart: Heart attack / IHD 23 Heart: cardiac arrhythmia 24 Heart: Cardiac pacemaker 25 Vessels: Hypertonia 26 Upper abdomen: Hepatitis A/B/C 27 Upper abdomen: Pancreatitis 28 Upper abdomen: Ulcers Stomach/duodenum 29 Urogenital: renal insufficiency 30 Urogenital: Dialysis 31 Bones: Osteoporosis 32 Joints: Rheumatism 33 Joints: Gout 34 Joints: Osteoarthritis 35 Joints: spinal disc herniation (SDH) 36 Miscellaneous: Cancer 37 Miscellaneous: Transplantation 38 Miscellaneous: Missing organ 39 Miscellaneous: TEP (Total endoprosthesis) 40 Miscellaneous: Narcotic problem 41 Miscellaneous: advance health care directive (AHCD) 42 Miscellaneous: Declaration of donor 43 Miscellaneous: Deaf 44 Miscellaneous: Blind 45 Miscellaneous: Cave 46 Service: Status of patient 47 Service: DMP 48 to 63 n/a

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
3700	n				Label of the basic diagnostic category	C		Cardiovascular family history
3701		1			Content of the basic diagnostic category	C		Yes
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

4. Obj_Anforderung (Obj_request)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdent (Object identifier)	M		Obj_Anforderung (Obj_request)
6200	1				Day of storage of treatment data	C		MMDDYYYY Date of the illustrated examination
6201	1				Time of treatment data elicitation	C		MMDDYYYY date of the illustrated examination
8310	1				Request identifier	M		
8314	1				Request UID	M		
8402	1				Device and process specific characteristic map	M		Type of the requested examination, e.g. ECG01
8410	1				Test identifier	C		
8432	1				Date of collection	C		MMDDYYYY date of the illustrated measurement
8439	1				Time of collection	C		HHMMSS Zeit (6 digits) of the illustrated measurement
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

5. Obj_Dauermedikament (Obj_permanent_medication)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdent (Object identifier)	M		Obj_Dauermedikament (Obj_permanent_medication)
3651	n				Start of permanent medication	C		MMDDYYYY
3652		n			Permanent medication	M		
0950			1		Central pharmaceutical number for permanent medication	M		
0957			1		Administration form for permanent medication	C		
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

6. Obj_Dauerdiagnose (Obj_permanent_diagnosis)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdent (Object identifier)	M		Obj_Dauerdiagnose (Obj_permanent_diagnostics)
3649	n				Starting date permanent diagnosis	C		MMDDYYYY
3650		n			Permanent diagnosis	M		
3673		n			ICD-Code permanent diagnosis	M		
3674			1		Diagnostic confidence for permanent diagnosis	M		
3675			1		Body side localization for permanent diagnosis	C		
3676			n		Diagnosis explanation for permanent diagnosis	C		

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
3677			n		Diagnosis derogation for permanent diagnosis	C		
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

7. Obj_Versichertenkarte (Obj_health-insurance_card)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdent (Object identifier)	M		Obj_Versichertenkarte (Obj_health-insurance_card)
0202	1				Name of the payer	M		
3004	1				Type and generation of card	M		
3006	1				CDM Version	M		
4104	1				No. of contracted health insurance	M		
4106	1				Payer billing area	M		
4109	1				Day of last reading of the health-insurance card in the quarter	M		
4110	1				Valid-to date	M		
4111	1				Health-insurance number	M		
4112	1				Insurance status	M		
4113	1				Status addition / DMP-labeling	M		
4121	1				Schedule of fees	M		
4122	1				Billing area	M		
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

8. Obj_Überweisung (Obj_referral)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdent (Object identifier)	M		Obj_Überweisung
4202	1				Accident, Consequences of accident	C		
4203	1				Treatment according to . § 116b SGB V	C		
4204	1				Restricted entitlement according to § 18 Abs. 3a SGB V	C		
4205	n				Assignment	M		
4207	n				(Suspected) Diagnosis	C		
4208	n				Findings / Medication	C		
4209	1				Assignment/diagnosis/suspicion	M		
4217	1				(N)BSNR: Establishment number of the initiator	C		
4241		1			LANR (lifetime physician number) of the initiator	C		
4218	1				(N)BSNR Establishment number of the referring person	M		
4242		1			LANR (lifetime physician number) of the referring person	M		
4219	1				Referral from other physician	M		
4220	1				Referral to	M		
4221	1				Type of treatment	C		
4229	1				Exceptional medical indication	C		
4231	1				Follow-up exam of a known infection	C		
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

9. Obj_Einweisung (Obj_referral) (Pattern 2)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdent (Object identifier)	M		Obj_Einweisung (Obj_referral)
4202	1				Accident, Consequences of accident			
4205	n				Assignment			Leading question / Indication of pattern 2
4207	n				(Suspected) Diagnosis			Diagnosis of pattern 2
4208	n				Findings / Medication			Previous treatment (e.g. medication) of pattern 2
4209	n				Assignment/diagnosis/suspicion			Examination results
4218	1				(N)BSNR Establishment number of the referring person			
4242		1			LANR (lifetime physician number) of the referring person			
4237	1				Hospital name			Geographically next hospitals; also special departments or name of the specialist
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

10. Obj_Diagnose (Obj_diagnosis)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdent (Object identifier)	M		Obj_Diagnose (Obj_diagnosis)
6001	N				ICD-Code	M		
6003		1			Diagnostic confidence	M		
6004		1			Body side localization	C		
6006		n			Diagnosis explanation	C		
6008		n			Statement of facts for a diagnosis derogation	M		
6205		1			Current diagnosis	C		
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

11. Obj_Anhang (Obj_annex)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdent (Object identifier)	M		Obj_Anhang (Obj_annex)
6302	N				File archiving label	C		Identifier for classification of the file
6303		1			File format	M	If 6302 exists	Description of file format (e.g PDF)
6304		1			Content of file	M	If 6302 exists	Description of what can be found when following the upcoming paths or web addresses
6305		1			File path	M	If 6302 exists and no 6329	Uniform Resource Locator (web address or UNC path) e.g. \\FS1\TEST\BILD1.PDF
6329		n			Content of the file in BASE64-coded attachment	M	If 6302 exists and no 6305	Content of the file which is referred to in 6305, in form of Base64-coded lines (like an attachment to an email in Mime-documents)
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

12. Obj_Laborinformation (Obj_lab_info)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdent (Object identifier)	M		Obj_Laborinformation (Obj_lab_info)
8402	1				Device and process specific characteristic map	C		Type of requested examination, e.g. ECG01 (see Annex B)
8403	1				Schedule of fees	C		
8405	1				Information about patient	C		
8407	1				Gender	C		
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

13. Obj_Labortest (Obj_lab_test)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdent (Object identifier)	M		Obj_Labortest (Obj_lab_test)
8410	1				Test identifier	C		
8411	1				Label of test	C		
8412		1			Test-OID	C		Individual object ID (OID) of the test identifier. Different laboratories use different tokens. For an event history analysis of laboratory data from different laboratories, every test identifier has to be identified with its own OID.
8413		1			Test/device ID	C		Individual examination ID for the exact identification of the manufacturer, the device and the time of use. It is generated by the device.
8425	1				Budget-free			
8428	1				Sample identifier			Barcode number for the distinct identification of every single sample container (like test tubes, Eppendorf tube) The barcode does not have to be identical to the barcode of the request identifier (laboratory order number).
8429	1				Sample index			
8432	1				Date of collection (MMDDYYYY)	C		
8433	1				Time of collection	C		
8501	1				Urgency	C		
8504	N				Intake of medication at the time of sample collection	C		
8510	1				Pregnancy	C		
8511		1			Gestation length (in weeks, days)	C		
8512	1				1 st day of cycle (MMDDYYYY)	C		
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

14. Obj_RgEmpfänger (Obj_invoice_recipient)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdent (Object identifier)	M		Obj_RgEmpfänger (Obj_invoice_recipient)
8601	1				Name of invoice recipient	M		
8602	1				Title, Forename of invoice recipient	M		
8606	1				City of residence of the invoice recipient	M		
8607	1				Street of residence of the invoice recipient	M		
8608	1				Commentary/Reference number	C		

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8609	1				Type of billing	M		K = state insured patient, P = private patient, X = other invoice recipient E = sender, I = hedgehog, L = Laboratory community, S = selective contract incl. settlement
8610	1				Private charges	M		
8615	1				Principal	C		
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

15. Obj_Laborergebnis (Obj_lab_results)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdent (Object identifier)	M		Obj_Laborergebnis (Obj_lab_results)
8410	N				Test identifier	M		
8411	1				Label of test	C		
8412		1			Test-OID	C		
8413		1			Test/device ID	C		
8428		1			Sample identifier	C		
8429		1			Sample index	C		
8430		1			Sample label	C		
8431			n		Sample specification	C		
8437		1			Unit(s) for data stream	M		
8438		n			Data stream	C		
8418		1			Status of the test	M		
8420		1			Result value	C		
8421		1			Unit	M		
8439		1			Time of collection	C		
8460		1			Normal value text	C		
8461		1			Normal value lower bound	C		
8462		1			Normal value upper bound	C		
8470		n			Test-related notes	C		
8480		n			Results text	C		
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

16. Obj_Terminanfrage (Obj_appointment_request)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdent (Object identifier)	M		Obj_Terminanfrage (Obj_appointment_request)
4200	1				Desired date (MMDDYYYY)	M		
4205	N				Assignment	C		Leading question / Indication
4207	N				(Suspected) Diagnosis	C		Diagnosis of Pattern 2
4237	1				Hospital name	C		Geographically next hospitals; also special departments or name of the specialist
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

17. Obj_Satzende (Obj_end_of_record)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdent (Object identifier)	M		Obj_Satzende (Obj_end_of_record)
8202	1				Number of transmitted objects (without Obj_Satzende (Obj_end_of_record)	M		e.g.: 5 objects transmitted in this record type
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"

18. Obj_Arztidentifikation (Obj_physician_identification)

FI	Occurrence				Label	M/C	Condition	Annotations
	1	2	3	4				
8200	1				ObjektIdent (Object identifier)	M		Obj_Arztidentifikation (Obj_physician_identification)
0201	1				(N)BSNR: Establishment number	M		Establishment number
0212	1				LANR (lifetime physician number)	M		Lifetime physician number
8990	1				Signature (sign of initials)	M		e.g. Dr. Doe
8201	1				ObjektIdent End (end of object)	M		Contains the number of transmitted fields, including the fields "8200" and "8201"