Object group	Object name	Attribute	Value	S 57	S 57 (more specific)	Comments	D4D type of geometry	S57 type of geometry
General attributes								
		Country code		-	-	-		
			DE	-	-	-		
			AT	-	-	-		
			SK	-	-	-		
			HU	-	-	-		
			HR	-	-	-		
			CS	-	-	-		
			BG	-	-	-		
			RO	-	-	-		
			UA	-	-	-		
		Waterway code	Alphanumeric : NN	-	-	-		
		National individual object code	Numerical : NNNNN	-	-	-		
		Geometry - x coordinate	Numerical : NN.NNNNN	-	-	-		
		Geometry - y coordinate	Numerical : NN.NNNNN	-	-	-		
		Accuracy		-	-	-		
			dGPS	-	-	-		
			GPS	-	-	-		
			Flight survey (raster scan)	-	-	-		
			Flight survey (conventional)	-	-	-		
			Terrestrial measurement	-	-	-		
			Fixed officially	-	-	-		
			Calculatively determined	-	-	-		
			Unknown	-	-	-		
		Actuality (Year of measurement)	Numerical : XXXX	-	-	-		
Reference point								
	Reference point of waterway directorate			-	-	-	point	_
		Type of fixed point		-	-	-		
			Fixed point of waterway directorate	-	-	-		
			Trigonometrical point	-	-	-		
			Bench mark	-	-	-		
		Name and/or name of operator/owner	Text	-	-	-		
		Height system		-	-	-		
			Amsterdam	-	-	-		
			Adriatic	-	-	-		
			Baltic	-	-	-		
			Black Sea	-	-	-		
		Height	Numerical XXX.XXX	-	-	-		
		Waterway kilometre	Numerical XXXX.XXX	-	-	-		
		Position on bank		-	-	-		
			Right bank	-	-	-		
			Right bank - hinterland	-	-	-		
			Left bank	-	-	-		
			Left bank - hinterland	-	-	-		
			Right bank of island	-	-	-		
			Left bank of island	-	-	-		

Kilometre marking								
	Waterway axis (fairway axis, river axis)			wtwaxs	-	-	line	line
		Type of waterway axis		INFORM	-	-		
			Fairway axis	-	-	-		
			River axis	-	-	-		
		Name and/or name of operator/owner	Text	OBJNAM	-	-		
		National object name	Text	NOBJNM	-	-		
	Station point along the waterway axis			dismar	-	-	point	point
		Type of waterway axis		INFORM	-	-		
			Fairway axis	-	-	-		
			River axis	-	-	-		
		Waterway kilometre	Numerical XXXX.XXX	OBJNAM	-	-		
		Type of distance mark		catdis	-	-		
			Km mark (axis)	-	catdis = 7	-		
			Hm mark (axis)	-	catdis = 8	-		
			Mile mark (axis)	-	-	shall not be chosen in this object		
			Km mark (stone)	-	-	shall not be chosen in this object		
			Hm mark (stone)	-	-	shall not be chosen in this object		
			Mile mark (stone)	-	-	shall not be chosen in this object		
			Km mark (board)	-	-	shall not be chosen in this object		
			Hm mark (board)	-	-	shall not be chosen in this object		
			Mile mark (board)	-	-	shall not be chosen in this object		
	Hectometre, kilometre mark			dismar	-	-	point	point
		Type of distance mark		catdis	-	-		
			Km mark (axis)	-	-	shall not be chosen in this object		
			Hm mark (axis)	-	-	shall not be chosen in this object		
			Mile mark (axis)	-	-	shall not be chosen in this object		
			Km mark (stone)	-	catdis = 5	-		
			Hm mark (stone)	-	catdis = 6	-		
			Mile mark (stone)	-	-	shall not be chosen in this object		
			Km mark (board)	-	catdis = 5	-		
			Hm mark (board)	-	catdis = 6	-		
			Mile mark (board)	-	-	shall not be chosen in this object		
		Waterway kilometre	Numerical XXXX.XXX	OBJNAM	-	-		
		Height	Numerical XXX.XXX	-	-	-		
		Position on bank		-	-	-		
			Right bank	-	-	-		
			Right bank - hinterland	-	-	-		
			Left bank	-	-	-		
			Left bank - hinterland	-	-	-		
			Right bank of island	-	-	-		
			Left bank of island	-	-	-		
	Dam kilometre station			-	-	-	point	-
		Dam kilometre	Numerical XXX.X	-	-	-		
	Waterway profile point			wtwprf	-	-	point	line
		Position on bank		-	-	-		
			Right bank	-	-	-		
			Right bank - hinterland	-	-	-		
			Left bank	-	-	-		
			Left bank - hinterland	-	-	-		
			Right bank of island	-	-	-		
			Left bank of island	-	-	-		
		Waterway kilometre	Numerical XXXX.XXX	-	-	-		

Topography								
	Cell area / Design file area	-	-	M_COVR - CATCOV=1	-	the given S 57 object shall contain automatically the given attribute and its value	area	area
	Land area	-	-	LNDARE	-	-	point, area	point, line, area
	Land region			LNDRGN			area	point, area
		Name and/or name of operator/owner	Text	OBJNAM				
	Water area, navigable (for big vessels)			DEPARE - VERDAT = 24		the given S 57 object shall contain automatically the given attribute and its value	area	area, line
		Type of water area		-	-	-		
			International water area	-	-	-		
			Tributary stream	-	-	-		
			Tributary canal	-	-	-		
			Lake	-	-	-		
			Third party water area	-	-	-		
		Name and/or name of operator/owner	Text	NINFOM	-	-		
		Type of Administration / Owner			-	-		
			Public	-	-	-		
			Private	-	-	-		
		Reference water level		INFORM		-		
			Regulation low water level (RNW)	-	verdat = 35	-		
			Mean water level (MW)	-	verdat = 26	-		
			Highest shipping height of water (HSW)	-	verdat = 36	-		
			Other water level	-	-	-		
			unknown	-	-	-		
		Reference gauge (if known)	Text	-	-	-		
		Maintenance		QUASOU	-	-		
			Depth unknown	-	QUASOU = 1	-		
			Depth maintained	-	QUASOU = 10	-		
			Depth not regularly maintained	-	QUASOU = 11	-		
		Minimum depth (m)	Numerical XXX.X	DRVAL 1	-	-		
		Maximum depth (m)	Numerical XXX.X	DRVAL 2	-	-		
	Water area, not navigable (for big vessels)			RIVERS, CANALS LAKARE		the relevant S 57 object which has to be chosen here is defined by the D4D attribute "type of water area"	area	RIVERS, CANALS : line, area; LAKARE: area
		Type of water area		RIVERS, CANALS LAKARE		this attribute defines further the S 57 object and has no impact on a S 57 attribute		
			International water area	-	RIVERS	-		
			Tributary stream	-	RIVERS	-		
			Tributary canal	-	CANAL	-		
			Lake	-	LAKARE	-		
			Third party water area	-	-	-		
		Name and/or name of operator/owner	Text	OBJNAM	-	-		
		Type of Administration / Owner		-	-	-		
			Public	-	-	-		
			Private	-	-	-		

Named waterway area			SEAARE - CATSEA = unknown		the given S 57 object shall contain automatically the given attribute and its value	area, point	area, point
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	National name	Text	NOBJNM	-	-		
River bank, unfastened (referred to Mean water level - MW)			rivbnk			line	line
	Type of river bank unfastened		catbnk				
		Steep	-	catbnk = 1	-		
		Flat	-	catbnk = 2	-		
		Embankment fastened	-	catbnk = 3	-		
		Embankment unfastened	-	catbnk = 4	-		
	Material at surface		NATSUR	-	-		
		Mud	-	NATSUR = 1	-		
		Clay	-	NATSUR = 2	-		
		Silt	-	NATSUR = 3	-		
		Sand	-	NATSUR = 4	-		
		Stone	-	NATSUR = 5	-		
		Gravel	-	NATSUR = 6	-		
		Pebbles	-	NATSUR = 7	-		
		Cobbles	-	NATSUR = 8	-		
		Rocky	-	NATSUR = 9	-		
		Shells	-	NATSUR = 17	-		
		Boulder	-	NATSUR = 18	-		
River bank, fasted (referred to Mean water level - MW)			SLCONS	-	-	line	point, line, area
	Nature of construction		NATCON	-	-		
		Masonry	-	NATCON = 1	-		
		Concreted	-	NATCON = 2	-		
		Loose boulders	-	NATCON = 3	-		
		Hard surface	-	NATCON = 4	-		
		Unsurfaced	-	NATCON = 5	-		
		Wooden	-	NATCON = 6	-		
	Type of river bank , fastened		CATSLC	-	-		
		Wharf (quay)	-	CATSLC = 6	-		
		Revetment	-	CATSLC = 9	-		
		Solid face wharf	-	CATSLC = 15	-		
Island			LNDARE, LNDRGN	-	This D4D object shall be converted into both of the given S 57 objects.	area	LNDRGN: point, area; LNDARE: point, line, area
	Name and/or name of operator/owner	Text	OBJNAM	-	This S 57 attribute shall be an attribute of LNDRGN		
	National name	Text	NOBJNM	-	This S 57 attribute shall be an attribute of LNDRGN		
Tributary waters (little rivers, canals, ditches, brooks)			RIVERS, CANALS	-	the relevant S 57 object which has to be chosen here is defined by the D4D attribute "type of water area"	area	line, area
	Name and/or name of operator/owner	Text	OBJNAM	-	This S 57 attribute shall be an attribute of either RIVERS or CANALS		
	Type of water area		RIVERS, CANALS	-	this attribute defines further the S 57 object and has no impact on a S 57 attribute		
		International water area	-	RIVERS	-		
		Tributary stream	-	RIVERS	-		
		Tributary canal	-	CANAL	-		
		Lake	-	-	shall not be chosen in this object		
		Third party water area	-	-	-		

Slope top line			SLOTOP	-	-	line	line
	Radar conspicuousness		CONRAD	-	-		
		Yes	-	CONRAD = 1	-		
		No	-	CONRAD = 2	-		
		Yes (with radar reflector)	-	CONRAD = 3	-		
Slope bottom line	-	-	-	-	-	line	-
Slope hatching	-	-	-	-	-	line	-
Ramp	-	-	SLCONS - CATSLC = 12	-	the given S 57 object shall contain automatically the given attribute and its value	area	point, line, area
Regulation structure (groyne, training wall, shipping guide structure, ground sill)			SLCONS	-	-	area, line	point, line, area
	Type of regulation structure		CATSLC	-	-		
		Groyne	-	CATSLC = 2	-		
		Training wall	-	CATSLC = 7	-		
		Ship guiding structure	-	CATSLC = 7	-		
		Ground sill	-	CATSLC = 2 - INFORM Sill - Grundschwelle	attention!! The given text shall be automatically be a part of the attribute INFORM in addition to CATSLC with the value 2		
	Reference to Mean Water Level (MW)		WATLEV	-	-		
		Above Mean water level	-	WATLEV = 1	-		
		Always below Mean water level	-	WATLEV = 3	-		
		Changing continuously	-	WATLEV = 4	-		
		Mainly below Mean water level	-	WATLEV = 5	-		
Protection dam			DAMCON - CATDAM = 2		the given S 57 object shall contain automatically the given attribute and its value	area, line	point, line, area
	Flow rate (m^3/s)	Numerical XXXX.XXX	-	-	-		
	Reference system		-	-	-		
		HQ100	-	-	-		
		HQ1000	-	-	-		
Flood wall			FNCLNE - CATFNC = 4	-	the given S 57 object shall contain automatically the given attribute and its value	line	line
	Flow rate (m^3/s)	Numerical XXXX.XXX	-	-	-		
	Reference system		-	-	-		
		HQ100	-	-	-		
		HQ1000	-	-	-		
Built-up area			BUAARE	-	-	area	point, area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Type of built-up area		CATBUA	-	-		
		Urban area	-	CATBUA = 1	-		
		Settlement	-	CATBUA = 2	-		
		Town	-	CATBUA = 4	-		
		City	-	CATBUA = 5	-		

Single building		BUISGL, hrbfac	-	the relevant S 57 object which has to be chosen here is defined by the D4D attribute "type of single building". All cathaf will lead to hrbfac and all FUNCTN will lead to BUISGL	area	point, area
Name and/or name of operator/owner	Text	OBJNAM	-			
Type of single building		FUNCTN, cathaf	-	this attribute defines further the S 57 object and can lead also to different S 57 attributes		
	Shipyard	-	cathaf = 9	-		
	Harbour master's office	-	cathaf = 12	-		
	Pilot office	-	cathaf = 13	-		
	Water police office (in harbour)	-	cathaf = 14	-		
	Customs office	-	cathaf = 15	-		
	Service and repair	-	cathaf = 16	-		
	Quarantine station	-	cathaf = 17	-		
	Health office	-	FUNCTN = 4	-		
	Hospital	-	FUNCTN = 5	-		
	Post office	-	FUNCTN = 6	-		
	Railway station	-	FUNCTN = 8	-		
	Police station	-	FUNCTN = 9	-		
	Water police station	-	FUNCTN = 10	-		
	Pilot office	-	FUNCTN = 11	-		
	Pilot lookout	-	FUNCTN = 12	-		
	Bank office	-	FUNCTN = 13	-		
	Headquarters of district control	-	FUNCTN = 14	-		
	Transit shed/warehouse	-	FUNCTN = 15	-		
	Factory	-	FUNCTN = 16	-		
	Power station	-	FUNCTN = 17	-		
	Administrative	-	FUNCTN = 18	-		
	Educational facility	-	FUNCTN = 19	-		
	Church	-	FUNCTN = 20	-		
	Chapel	-	FUNCTN = 21	-		
	Mosque	-	FUNCTN = 26	-		
	Lookout	-	FUNCTN = 28	-		
	Communication	-	FUNCTN = 29	-		
	Television	-	FUNCTN = 30	-		
	Radio	-	FUNCTN = 31	-		
	Radar	-	FUNCTN = 32	-		
	Light support	-	FUNCTN = 33	-		
	Observation	-	FUNCTN = 36	-		
	Control	-	FUNCTN = 39	-		

	Land mark			LNDMRK - CONRAD = 1; FORSTC - CONRAD = 1	-	the relevant S 57 object which has to be chosen here is defined by the D4D attribute "type of land mark". All CATFOR will lead to FORSTC and all CATLMK will lead to LNDMRK. Both of the S 57 object shall have automatically the attribute CONRAD with the value 1.	area, line	point, line, area
		Type of land mark		CATFOR, CATLMK	-	this attribute defines further the S 57 object and can lead also to different S 57 attributes		
			Castle	-	CATFOR =1	-		
			Church	-	CATLMK = 17	-		
			Chapel	-	CATLMK = 17	-		
			Tower	-	CATLMK = 17	-		
			Transmitter	-	CATLMK = 17	-		
			Chimney	-	CATLMK = 3	-		
			Wind motor	-	CATLMK = 19	-		
		Name and/or name of operator/owner	Text	OBJNAM	-			
River bottom								
	Depth contour line			DEPCNT - VERDAT = 24	-	the given S 57 object shall contain automatically the given attribute and its value	line	line
		Depth (m)	Numerical XXX.X	VALDCO	-	-		
		Reference water level		INFORM	-	-		
			Regulation low water level (RNW)	-	-	-		
			Mean water level (MW)	-	-	-		
			Highest shipping height of water (HSW)	-	-	-		
			Other water level	-	-	-		
			unknown	-	-	-		
	Sounding			SOUNDG - VERDAT = 24	-	-	point	point
		Depth (m)		Z-coordinate	-	The given value of the D4D attribute shall be converted as the z coordinate of the S 57 object SOUNDG in compliance with the ECDIS standard.		
		Reference water level	Numerical XXX.X	-	-	-		
			Unknown	-	-	-		
				INFORM	-	-		
			Regulation low water level (RNW)	-	-	-		
			Mean water level (MW)	-	-	-		
			Highest shipping height of water (HSW)	-	-	-		
			Other water level	-	-	-		
			Unknown	-	-	-		
	Constricted section			resare - restrn = 26	-	the given S 57 object shall contain automatically the given attribute and its value	area	area
		Name and/or name of operator/owner	Text	OBJNAM	-	-		
		Start waterway kilometre	Numerical XXXX.XXX	-	-	-		
		End waterway kilometre	Numerical XXXX.XXX	-	-	-		
		Width of constricted section (m)	Text ("Minimum width of constricted section is "XXX.X meters")	INFORM	-	-		

	Ford (shallow)			resare - restrn = 25	-	the given S 57 object shall contain automatically the given attribute and its value	area	area
		Name and/or name of operator/owner	Text	OBJNAM	-	-		
		Start waterway kilometre	Numerical XXXX.XXX	-	-	-		
		End waterway kilometre	Numerical XXXX.XXX	-	-	-		
		Depth (m)		INFORM	-	-		
			Numerical XXX.X	-	-	-		
			Unknown	-	-	-		
Navigation								
	Fairway			FAIRWY	-	-	area	area
		Minimum depth (m)		DRVAL1	-	-		
			Numerical XXX.X	-	-	-		
			Unknown	-	-	-		
	Expansion area of fairway			FAIRWY	-	-	area	area
		Minimum depth (m)		DRVAL1	-	-		
			Numerical XXX.X	-	-	-		
			Unknown	-	-	-		
	Fairway border line			-	-	-	line	-
		Start waterway kilometre	Numerical XXXX.XXX	-	-	-		
		End waterway kilometre	Numerical XXXX.XXX	-	-	-		
		Radius of the border line	Numerical +/- XXXX.X	-	-	-		
	Restricted area			resare	-	-	area	area
		Type of restricted area		restrn, CATREA	-	The relevant S 57 attribute shall be one of the two given ones according to the list provided below.		
			Anchoring prohibited	-	restrn = 1	-		
			Anchoring restricted	-	restrn = 2	-		
			Fishing prohibited	-	restrn = 3	-		
			Fishing restricted	-	restrn = 4	-		
			Trawling prohibited	-	restrn = 5	-		
			Trawling restricted	-	restrn = 6	-		
			Entry prohibited	-	restrn = 7	-		
			Entry restricted	-	restrn = 8	-		
			Dredging prohibited	-	restrn = 9	-		
			Dredging restricted	-	restrn = 10	-		
			diving prohibited	-	restrn = 11	-		
			Diving restricted	-	restrn = 12	-		
			No wake	-	restrn = 13	-		
			Area to be avoided	-	restrn = 14	-		
			Construction prohibited	-	restrn = 15	-		
			Overtaking prohibited	-	restrn = 16	-		
			Passing prohibited	-	restrn = 17	-		
			Standstill prohibited	-	restrn = 18	-		
			Standstill restricted	-	restrn = 19	-		
			Berthing prohibited	-	restrn = 20	-		
			Berthing restricted	-	restrn = 21	-		
			Turning prohibited	-	restrn = 22	-		
			Speed limited	-	restrn = 24	-		
			Offshore safety zone	-	CATREA = 1	-		
			Nature reserve	-	CATREA = 4	-		
			Bird sanctuary	-	CATREA = 5	-		
			Game preserve	-	CATREA = 6	-		
			Seal sanctuary	-	CATREA = 7	-		
			Degaussing range	-	CATREA = 8	-		

		Military area	-	CATREA = 9	-		
		Historic wreck	-	CATREA = 10	-		
		Navigational aid safety zone	-	CATREA = 12	-		
		Minefield	-	CATREA = 14	-		
		Swimming area	-	CATREA = 18	-		
		Waiting area	-	CATREA = 19	-		
		Research area	-	CATREA = 20	-		
		Dredging area	-	CATREA = 21	-		
		Fish sanctuary	-	CATREA = 22	-		
		Ecological reserve	-	CATREA = 23	-		
		No wake area	-	CATREA = 24	-		
		Swinging area	-	CATREA = 25	-		
		Water skiing area	-	CATREA = 26	-		
	Additional information	Text	INFORM	-	-		
Caution area			CTNARE	-	-	area	point, area
	Additional information	Text	INFORM	-	-		
Obstruction of navigation			OBSTRN	-	-	area	point, line, area
	Reference to Mean Water Level (MW)		WATLEV	-	-		
		Above Mean water level	-	WATLEV = 1	-		
		Always below Mean water level	-	WATLEV = 3	-		
		Changing continuously	-	WATLEV = 4	-		
		Mainly below Mean water level	-	WATLEV = 5	-		
	Depth (m)		VALSOU	-	-		
		Numerical XXX.X	-	-	-		
		Unknown	-	-	-		
	Additional information	Text	INFORM	-	-		
Wreck			WRECKS	-	-	area	point, area
	Type of wreck		CATWRK	-	-		
		Non- dangerous wreck	-	CATWRK = 1	-		
		Dangerous wreck	-	CATWRK = 2	-		
		Distributed remains of wreck	-	CATWRK = 3	-		
		Wreck showing mast	-	CATWRK = 4	-		
		Wreck showing any portion of hull or superstructure	-	CATWRK = 5	-		
	Reference to Mean Water Level (MW)		WATLEV	-	-		
		Mainly below Mean water level	-	WATLEV = 5	-		
		Above Mean water level	-	WATLEV = 1	-		
		Always below Mean water level	-	WATLEV = 3	-		
		Changing continuously	-	WATLEV = 4	-		
	Depth (m)		VALSOU	-	-		
		Numerical XXX.X	-	-	-		
		Unknown	-	-	-		
	Radar conspicuousness		CONRAD	-	-		
		Yes	-	CONRAD = 1	-		
		No	-	CONRAD = 2	-		
		Yes (with radar reflector)	-	CONRAD = 3	-		

Berth			berths	-	-	area	point, line, area
	Type of berth		catbrt	-	-		
		Push tow berths	-	catbrt = 4	-		
		Berths for other vessels than push tows	-	catbrt = 5	-		
		Berths for other vessels than dangerous cargo vessels	-	catbrt = 6	-		
	Class of berth for dangerous cargo vessels		clsdng	-	-		
		One blue light/cone	-	clsdng = 1	-		
		Two blue lights/cones	-	clsdng = 2	-		
		Three blue lights/cones	-	clsdng = 3	-		
		No blue light/cone	-	clsdng = 4	-		
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Additional information	Text	INFORM	-	-		
Anchorage area			achare	-	-	area	point, area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Depth (m)		INFORM	-	-		
		Numerical XXX.X	-	-	-		
		Unknown	-	-	-		
Roads (nautical)	-	-	CTNARE - INFORM = Roads/Reede	-	the given S 57 object shall contain automatically the given attribute and its value (attention ! Text format)	area	point, area
Turning basin			trnbsn	-	-	area	point, area
	Depth (m)		INFORM	-	-		
		Numerical XXX.X	-	-	-		
		Unknown	-	-	-		
Prescribed traffic lane			TWRTPT	-	-	area	area
	Direction of traffic flow		TRAFIC	-	-		
		One way	-	TRAFIC = 3	-		
		Two way	-	TRAFIC = 4	-		
	Angle of arrow (indicated direction)	Numerical XXX°	ORIENT	-	-		
Notice mark			notmrk	-	-	point	point
	Type of notice mark (according to CEVNI)	CEVNI Code X.X	catnmk	-	-		
	Function class		fnctnm	-	-		
		Prohibition mark	-	fnctnm = 1	-		
		Regulation mark	-	fnctnm = 2	-		
		Restriction mark	-	fnctnm = 3	-		
		Recommendation mark	-	fnctnm = 4	-		
		Information mark	-	fnctnm = 5	-		
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
	Position on bank		-	-	-		
		Right bank	-	-	-		
		Right bank - hinterland	-	-	-		
		Left bank	-	-	-		
		Left bank - hinterland	-	-	-		
		Right bank of island	-	-	-		
		Left bank of island	-	-	-		
	Text on main mark	Text	INFORM	-	-		
	Text on additional mark(s)	Text	-	-	-		

	Position of additional mark		addmark	-	-		
		Top (board)	-	addmrk = 1	-		
		Bottom (board)	-	addmrk = 2	-		
		Right (triangle to the right)	-	addmrk = 3	-		
		Left (triangle to the left)	-	addmrk = 4	-		
	Direction of impact		dirimp	-	-		
		Upstream	-	dirimp = 1	-		
		Downstream	-	dirimp = 2	-		
		To the left bank	-	dirimp = 3	-		
		To the right bank	-	dirimp = 4	-		
	Distance of impact (upstream) (m)	Numerical XXX.X	disipu	-	-		
	Distance of impact (downstream) (m)	Numerical XXX.X	disipd	-	-		
	Inner (minimum) distance of the defined area to waterway bank (m)	Numerical XX.X	disbk1	-	-		
	Outer (maximum) distance of the defined area to the waterway bank (m)	Numerical XX.X	disbk2	-	-		
	Lightning		-	-	-		
		Yes	-	-	-		
		No	-	-	-		
Buoy			boywtw	-	-	point	point
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
	Position on fairway		-	-	-		
		Left side	-	-	-		
		Right side	-	-	-		
		Middle of fairway	-	-	-		
	Colour		COLOUR	-	-		
		White	-	COLOUR = 1	-		
		Black	-	COLOUR = 2	-		
		Red	-	COLOUR = 3	-		
		Green	-	COLOUR = 4	-		
		Blue	-	COLOUR = 5	-		
		Yellow	-	COLOUR = 6	-		
		Grey	-	COLOUR = 7	-		
		Brown	-	COLOUR = 8	-		
		Amber	-	COLOUR = 9	-		
		Violet	-	COLOUR = 10	-		
		Orange	-	COLOUR = 11	-		
		Magenta	-	COLOUR = 12	-		
		Pink	-	COLOUR = 13	-		
	Pattern		COLPAT	-	-		
		Horizontal stripes	-	COLPAT = 1	-		
		Vertical stripes	-	COLPAT = 2	-		
		Diagonal stripes	-	COLPAT = 3	-		
		Squared	-	COLPAT = 4	-		
		stripes (direction unknown)	-	COLPAT = 5	-		
		Border stripes	-	COLPAT = 6	-		
	Type of buoy / beacon		catwwm		-		
		Right side	-	catwwm = 1	-		
		Left side	-	catwwm = 2	-		
		Separation	-	catwwm = 3	-		
		Right fairway side	-	catwwm = 4	-		
		Left fairway side	-	catwwm = 5	-		
		Fairway separation	-	catwwm = 6	-		

		Fairway at the right bank	-	catwwm = 7	-		
		Fairway at the left bank	-	catwwm = 8	-		
		Fairway change to the right bank	-	catwwm = 9	-		
		Fairway change to the left bank	-	catwwm = 10	-		
		Obstruction at the right side	-	catwwm = 11	-		
		Obstruction at the left side	-	catwwm = 12	-		
		Turn off at the right side	-	catwwm = 13	-		
		Turn off at the left side	-	catwwm = 14	-		
		Junction at the right side	-	catwwm = 15	-		
		Junction at the left side	-	catwwm = 16	-		
		Harbour entry at the right side	-	catwwm = 17	-		
		Harbour entry at the left side	-	catwwm = 18	-		
		Bridge mark	-	catwwm = 19	-		
	Lightning		-	-	-		
		Yes	-	-	-		
		No	-	-	-		
	Radar conspicuousness		CONRAD	-	-		
		Yes	-	CONRAD = 1	-		
		No	-	CONRAD = 2	-		
		Yes (with radar reflector)	-	CONRAD = 3	-		
Beacon			bcnwtw	-	-	point	point
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
	Position on bank		-	-	-		
		Right bank	-	-	-		
		Right bank - hinterland	-	-	-		
		Left bank	-	-	-		
		Left bank - hinterland	-	-	-		
		Right bank of island	-	-	-		
		Left bank of island	-	-	-		
	Beacon shape		BCNSHP	-	-		
		Stake, pole, perch, post	-	BCNSHP = 1	-		
		Withy	-	BCNSHP = 2	-		
		Beacon tower	-	BCNSHP = 3	-		
		Lattice beacon	-	BCNSHP = 4	-		
		Pile beacon	-	BCNSHP = 5	-		
		Cairn	-	BCNSHP = 6	-		
		Buoyant beacon	-	BCNSHP = 7	-		
	Colour		COLOUR	-	-		
		White	-	COLOUR = 1	-		
		Black	-	COLOUR = 2	-		
		Red	-	COLOUR = 3	-		
		Green	-	COLOUR = 4	-		
		Blue	-	COLOUR = 5	-		
		Yellow	-	COLOUR = 6	-		
		Grey	-	COLOUR = 7	-		
		Brown	-	COLOUR = 8	-		
		Amber	-	COLOUR = 9	-		
		Violet	-	COLOUR = 10	-		
		Orange	-	COLOUR = 11	-		
		Magenta	-	COLOUR = 12	-		
		Pink	-	COLOUR = 13	-		

	Pattern		COLPAT	-	-		
		Horizontal stripes	-	COLPAT = 1	-		
		Vertical stripes	-	COLPAT = 2	-		
		Diagonal stripes	-	COLPAT = 3	-		
		Squared	-	COLPAT = 4	-		
		stripes (direction unknown)	-	COLPAT = 5	-		
		Border stripes	-	COLPAT = 6	-		
	Type of buoy / beacon		catwwm	-	-		
		Right side	-	catwwm = 1	-		
		Left side	-	catwwm = 2	-		
		Separation	-	catwwm = 3	-		
		Right fairway side	-	catwwm = 4	-		
		Left fairway side	-	catwwm = 5	-		
		Fairway separation	-	catwwm = 6	-		
		Fairway at the right bank	-	catwwm = 7	-		
		Fairway at the left bank	-	catwwm = 8	-		
		Fairway change to the right bank	-	catwwm = 9	-		
		Fairway change to the left bank	-	catwwm = 10	-		
		Obstruction at the right side	-	catwwm = 11	-		
		Obstruction at the left side	-	catwwm = 12	-		
		Turn off at the right side	-	catwwm = 13	-		
		Turn off at the left side	-	catwwm = 14	-		
		Junction at the right side	-	catwwm = 15	-		
		Junction at the left side	-	catwwm = 16	-		
		Harbour entry at the right side	-	catwwm = 17	-		
		Harbour entry at the left side	-	catwwm = 18	-		
		Bridge mark	-	catwwm = 19	-		
	Lightning		-	-	-		
		Yes	-	-	-		
		No	-	-	-		
	Radar conspicuousness		CONRAD	-	-		
		Yes	-	CONRAD = 1	-		
		No	-	CONRAD = 2	-		
		Yes (with radar reflector)	-	CONRAD = 3	-		
Navigational lights			LIGHTS	-	-	point	point
	Type of navigational lights		CATLIT	-	-		
		Direction function	-	CATLIT = 1	-		
		Leading light	-	CATLIT = 4	-		
		Aero light	-	CATLIT = 5	-		
		Air obstruction light	-	CATLIT = 6	-		
		Fog detector light	-	CATLIT = 7	-		
		Flood light	-	CATLIT = 8	-		
		Strip light	-	CATLIT = 9	-		
		Subsidiary light	-	CATLIT = 10	-		
		Spotlight	-	CATLIT = 11	-		
		Front	-	CATLIT = 12	-		
		Rear	-	CATLIT = 13	-		
		Lower	-	CATLIT = 14	-		
		Upper	-	CATLIT = 15	-		
		Moire effect	-	CATLIT = 16	-		
		Emergency	-	CATLIT = 17	-		
		Bearing light	-	CATLIT = 18	-		
		Horizontally disposed	-	CATLIT = 19	-		
		Vertically disposed	-	CATLIT = 20	-		

Angle of arrow (indication direction)	Numerical XXX	ORIENT	-	-	
Colour		COLOUR	-	-	
	White	-	COLOUR = 1	-	
	Black	-	COLOUR = 2	-	
	Red	-	COLOUR = 3	-	
	Green	-	COLOUR = 4	-	
	Blue	-	COLOUR = 5	-	
	Yellow	-	COLOUR = 6	-	
	Grey	-	COLOUR = 7	-	
	Brown	-	COLOUR = 8	-	
	Amber	-	COLOUR = 9	-	
	Violet	-	COLOUR = 10	-	
	Orange	-	COLOUR = 11	-	
	Magenta	-	COLOUR = 12	-	
	Pink	-	COLOUR = 13	-	
Light characteristics		LITCHR	-	-	
	Fixed	-	LITCHR = 1	-	
	Flashing	-	LITCHR = 2	-	
	Long-flashing	-	LITCHR = 3	-	
	Quick-flashing	-	LITCHR = 4	-	
	Very Quick-flashing	-	LITCHR = 5	-	
	Ultra Quick-flashing	-	LITCHR = 6	-	
	isophased	-	LITCHR = 7	-	
	occulting	-	LITCHR = 8	-	
	interrupted quick-flashing	-	LITCHR = 9	-	
	interrupted very quick-flashing	-	LITCHR = 10	-	
	interrupted ultra quick-flashing	-	LITCHR = 11	-	
	morse	-	LITCHR = 12	-	
	fixed/flash	-	LITCHR = 13	-	
	flash/long-flash	-	LITCHR = 14	-	
	occulting/flash	-	LITCHR = 15	-	
	fixed/long-flash	-	LITCHR = 16	-	
	occulating alternating	-	LITCHR = 17	-	
	long-flash alternating	-	LITCHR = 18	-	
	flash alternating	-	LITCHR = 19	-	
	group alternating	-	LITCHR = 20	-	
	quick flash plus long flash	-	LITCHR = 25	-	
	very quick flash plus long flash	-	LITCHR = 26	-	
	ultra quick flash plus long flash	-	LITCHR = 27	-	
	alternating	-	LITCHR = 28	-	
	fixed and alternating flashing	-	LITCHR = 29	-	
Sector limit one in degrees	Numerical XXX.XX	SECTR1	-	-	
Sector limit two in degrees	Numerical XXX.XX	SECTR2	-	-	
Signal group	Text	SIGGRP	-	-	
Total single signal period in seconds	Numerical XX.XX	SIGPER	-	-	

Zone of radio calling-in point			rdocal	-	-	point, line	point, line
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Communication channel (VHF channel)	Alphanumerical XXXX	COMCHA	-	-		
	Angle of arrow (indicated direction)	Numerical XXX.X°	ORIENT	-	-		
	Direction of traffic flow		TRAFIC	-	-		
		One way	-	TRAFIC = 3	-		
		Two way	-	TRAFIC = 4	-		
	Type of radio calling-in point		catcom	-	-		
		VTS centre	-	catcom = 1	-		
		MIB	-	catcom = 2	-		
		Lock	-	catcom = 3	-		
		Bridge	-	catcom = 4	-		
		Customs	-	catcom = 5	-		
		Harbour	-	catcom = 6	-		
	Additional information	Text	INFORM	-	-		
Signal station			sistat	-	-	point	point
	Type of signal station		catsit	-	-		
		Port control	-	catsit = 1	-		
		Port entry and departure	-	catsit = 2	-		
		International Port Traffic	-	catsit = 3	-		
		Berthing	-	catsit = 4	-		
		Dock	-	catsit = 5	-		
		Lock	-	catsit = 6	-		
		Flood barrage	-	catsit = 7	-		
		Bridge passage	-	catsit = 8	-		
		Dredging	-	catsit = 9	-		
		Oncoming traffic lane	-	catsit = 10	-		
Warning signal indicating oncoming traffic			sistat - catsis = 10		the given S 57 object shall contain automatically the given attribute and its value	point	point
	Additional information	Text	INFORM				
Fog signal			FOGSIG - CATFOG = unknown	-	the given S 57 object shall contain automatically the given attribute and its value	point	point
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
	Position on bank		-	-	-		
		Right bank	-	-	-		
		Right bank - hinterland	-	-	-		
		Left bank	-	-	-		
		Left bank - hinterland	-	-	-		
		Right bank of island	-	-	-		
		Left bank of island	-	-	-		
Radar beacon, radar reflector at bridges	-	-	RADRFL	-	-	point	point
Water level indicator			sistaw - catsiw = 13	-	the given S 57 object shall contain automatically the given attribute and its value	point	point
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
Vertical clearance indicator	-	-	sistaw - catsiw = 16	-	the given S 57 object shall contain automatically the given attribute and its value	point	point

Construction							
Weir			DAMCON - CATDAM = 1	-	the given S 57 object shall contain automatically the given attribute and its value	area	point, line, area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
	Old waterway kilometre	Numerical XXXX.XXX	-	-	-		
Flood barrage			DAMCON	-	-	area	point, line, area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Type of flood barrage		CATDAM	-	-		
		Protection against high water	-	CATDAM =1	-		
		Protection against high tide	-	CATDAM =3	-		
Gate of flood barrage (single lined)			GATCON - CATGAT = 2	-	the given S 57 object shall contain automatically the given attribute and its value	line	point, line, area
	Horizontal clearance (m)	Numerical XX.XX	HORCLR	-	-		
Lock (lock basin)			lokbsn	-	-	area	area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
	Old waterway kilometre	Numerical XXXX.XXX	-	-	-		
	Usable length (m)	Numerical XXX.XX	HORLEN	-	-		
	Usable width (m)	Numerical XXX.XX	HORWID	-	-		
	Horizontal clearance, length (available for safe navigation) (m)	Numerical XXX.XX	horcll	-	-		
	Horizontal Clearance, width (available for safe navigation) (m)	Numerical XXX.XX	horclw	-	-		
	Vertical clearance (m)	Numerical XXX.XX	-	-	-		
	Operating hours	Text	INFORM	-	-		
Lock gate (single lined)			GATCON - CATGAT =4	-	the given S 57 object shall contain automatically the given attribute and its value	line	point, line, area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Horizontal clearance (m)	Numerical XXX.XX	HORCLR	-	-		
Bridge			bridge	-	-	area, line	point, line, area
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Type of bridge		catbrg	-	-		
		Fixed bridge	-	catbrg = 1	-		
		Opening bridge	-	catbrg = 2	-		
		Swing bridge	-	catbrg = 3	-		
		Lifting bridge	-	catbrg = 4	-		
		Bascule bridge	-	catbrg = 5	-		
		Pontoon bridge	-	catbrg = 6	-		
		Draw bridge	-	catbrg = 7	-		
		Transport bridge	-	catbrg = 8	-		
		Footbridge	-	catbrg = 9	-		
		Viaduct	-	catbrg = 10	-		
		Aqueduct	-	catbrg = 11	-		
		Suspension bridge	-	catbrg = 12	-		
	Vertical clearance (m)	Numerical XX.XX	VERCLR		-		
	Link to picture of cross section of bridge	File name without root describtion	PICREP				

Bridge area	-	-	brgare	-	-	area	area
Pillar of bridge or weir	-	-	PYLONS - CONRAD = 1	-	the given S 57 object shall contain automatically the given attribute and its value	area	point, area
Canal bridge			-	-	-	line	-
	Name and/or name of operator/owner	Text	-	-	-		
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
Tunnel crossing the waterway			TUNNEL	-	-	area	point, line, area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
Ferry (route)			feryrt	-	-	line	line, area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
	Type of ferry		catfry	-	-		
		"free moving" ferry	-	catrfy = 1	-		
		Cable ferry	-	catrfy = 2	-		
		Ice ferry	-	catrfy = 3	-		
		Swinging wire ferry	-	catrfy = 4	-		
	Operating hours	Text	INFORM	-	-		
Harbour, water area			hrbbsn	-	-	area	area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
	Type of harbour	Text	INFORM	-	-		
	Special customs conditions		NINFOM	-	-		
		Free harbour	-	-	-		
		Custom harbour	-	-	-		
Harbour, land area			termnl	-	-	area	point, area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Type of terminal		cattml	-	-		
		Passenger terminal	-	cattml = 1	-		
		Ferry terminal	-	cattml = 2	-		
		Transhipment terminal	-	cattml = 3	-		
		RoRo terminal	-	cattml = 4	-		
	Transhipment goods		trshgd	-	-		
		Containers	-	trshgd =1	-		
		Bilk goods	-	trshgd =2	-		
		Oil	-	trshgd =3	-		
		Fuel	-	trshgd =4	-		
		Chemicals	-	trshgd =5	-		
		Liquid goods	-	trshgd =6	-		
		Explosive goods	-	trshgd =7	-		
		Fish	-	trshgd =8	-		
		Cars	-	trshgd =9	-		
		General cargo	-	trshgd =10	-		
	UN location code		unlocd	-	-		
		Alphanumerical	-	-	-		

Administrational harbour area			hrbare	-	-	area	area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Type of harbour		cathbr	-	-		
		Customs harbour	-	cathbr = 1	-		
		Port of refuge	-	cathbr = 2	-		
		Yacht harbour / Marina	-	cathbr = 3	-		
		Fishing harbour	-	cathbr = 4	-		
		Private harbour	-	cathbr = 5	-		
	UN location code	Alphanumerical	unlocd	-	-		
Administrational port area			prtare	-	-	area	area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	UN location code	Alphanumerical	unlocd	-	-		
Bunker station			bunsta	-	-	point	point
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Type of bunker station		catbun	-	-		
		Diesel oil	-	catbun = 1	-		
		Water	-	catbun = 2	-		
		Ballast	-	catbun = 3	-		
		Unknown	-	catbun = unknown	-		
	Bunker vessel		bunves	-	-		
		Available	-	bunves = 1	-		
		Not available	-	bunves =2	-		
	Additional information	Text	INFORM	-	-		
Refuse dump			refdmp	-	-	point	point
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Type of refuse dump (disposed material)		catrfd	-	-		
		Cargo residue/slop	-	catrfd = 1	-		
		Waste oil	-	catrfd = 2	-		
		Grey/Black water	-	catrfd = 3	-		
		Domestic refuse	-	catrfd = 4	-		
		Unknown	-	catrfd = unknown	-		
Pier - fixed			SLCONS - CATSLC = 4	-	the given S 57 object shall contain automatically the given attribute and its value	area, cell	point, line, area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
Landing stage - pontoon			PONTON	-	-	area	line, area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
Mooring buoy	-	-	MORFAC - CATMOR = 7	-	the given S 57 object shall contain automatically the given attribute and its value	point	point, line, area
Hulk			HULKES	-	-	area	point, area
	Type of hulk (usage)		CATHLK	-	-		
		Floating restaurant	-	CATHLK = 1	-		
		Historic ship	-	CATHLK = 2	-		
		Museum	-	CATHLK = 3	-		
		Accommodation	-	CATHLK = 4	-		
		Floating breakwater	-	CATHLK = 5	-		

Slipway (shipyard) - water area			SLCONS - CATSLC = 13, WATLEV = 2	-	the given S 57 object shall contain automatically the given attributes and their values	area	point, line, area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Reference to Mean Water Level (MW)		WATLEV	-	-		
		Mainly below Mean water level	-	WATLEV = 5	-		
		Above Mean water level	-	WATLEV =1	-		
		Always below Mean water level	-	WATLEV = 3	-		
		Changing continuously	-	WATLEV = 4	-		
Slipway (shipyard) - land area			hrbfac - cathaf = 9	-	the given S 57 object shall contain automatically the given attribute and its value	area	point, area
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
Culvert			PIPARE	-	-	area	point, area
	Additional information	Text	INFORM	-	-		
Siphon (river, canal, ditch, brook)			PIPSOL, PIPARE - CATPIP = 3	-	if this S 57 object is provided as a line it shall be converted to PIPSOL if it is an area object it shall be converted to PIPARE. In both cases it shall include automatically the S 57 attribute CATPIP with the value 3.	line, area	PIPARE: point, area; PIPSOL: point, line
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
Siphon (pipeline)			PIPSOL	-	-	line	point, line
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
	Product		PRODCT	-	-		
		Oil	-	PRODCT = 1	-		
		Gas	-	PRODCT = 2	-		
		Water/ waste water	-	PRODCT = 3	-		
		Drinking water	-	PRODCT = 8	-		
		Others	-	PRODCT = unknown	-		
Siphon (cable)			CBLSUB	-	-	line	line
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
	Type of cable		CATCBL, INFORM	-	The relevant S 57 attribute shall be one of the two given ones according to the list provided below.		
		Power line	-	CATCBL = 1	-		
		Transmission line	-	CATCBL = 3	-		
		Telephone	-	CATCBL = 4	-		
		Telegraph	-	CATCBL = 5	-		
		Mooring cable/chain	-	CATCBL = 6	-		
		Cable of ferry	-	INFORM = Cable of ferry	-		
Pipeline bridge			PIPOHD	-	-	line	line
	Name and/or name of operator/owner	Text	OBJNAM	-	-		
	Waterway kilometre	Numerical XXXX.XXX	-	-	-		
	Product		PRODCT	-	-		
		Oil	-	PRODCT = 1	-		
		Gas	-	PRODCT = 2	-		
		Water/ waste water	-	PRODCT = 3	-		
		Drinking water	-	PRODCT = 8	-		
		Others	-	PRODCT = unknown	-		
	Vertical clearance (m)	Numerical XX.XX	VERCLR		-		
	Radar conspicuousness		CONRAD		-		
		Yes	-	CONRAD = 1	-		
		No	-	CONRAD = 2	-		
		Yes (with radar reflector)	-	CONRAD = 3	-		

	Cable overhead, crossing the waterway			cblohd	-	-	line	line
		Name and/or name of operator/owner	Text	OBJNAM	-	-		
		Waterway kilometre	Numerical XXXX.XXX	-	-	-		
		Vertical clearance (m)	Numerical XX.XX	VERCLR	-	-		
		Radar conspicuousness		CONRAD	-	-		
			Yes	-	CONRAD =1	-		
			No	-	CONRAD =2	-		
			Yes (with radar reflector)	-	CONRAD =3	-		
		Type of cable		CATCBL, INFORM	-	The relevant S 57 attribute shall be one of the two given ones according to the list provided below.		
			Power line	-	CATCBL = 1	-		
			Transmission line	-	CATCBL = 3	-		
			Telephone	-	CATCBL = 4	-		
			Telegraph	-	CATCBL = 5	-		
			Mooring cable/chain	-	CATCBL = 6	-		
			Cable of ferry	-	INFORM = Cable of ferry	-		
	Pylon (steel mast, wooden mast, etc.)			PYLONS	-	-	point	point, area
		German ARGO relevant		-	-	-		
			Yes	-	-	-		
			No	-	-	-		
	Dolphin	-	-	MORFAC - CATMOR = 1	-	the given S 57 object shall contain automatically the given attribute and its value	point	point, line, area
	Protection pile	-	-	PILPNT - CATPLE = 1	-	the given S 57 object shall contain automatically the given attribute and its value	point	point
	Floating dock	-	-	FLODOC	-	-	area, line	line, area
	Dry dock	-	-	DRYDOC	-	-	area	area
	Dyke gate	-	-	GATCON	-	-	area	point, line, area
	Boat towing facility	-	-	SMCFAC, CATSCF = 28 and INFORM Boat towing facility	-	the given S 57 object shall contain automatically the given attributes and their values	area	point, area
Traffic routes								
	Road, sealed way			ROADWY	-	-	area, line	point, line, area
		Name and/or name of operator/owner	Text	OBJNAM	-	-		
		Type of road		CATROD	-	-		
			Motorway	-	CATROD = 1	-		
			Major road	-	CATROD = 2	-		
			Minor road	-	CATROD = 3	-		
			Track/ path	-	CATROD = 4	-		
	Unsealed way	-	-	ROADWY - CATROD = 4	-	the given S 57 object shall contain automatically the given attribute and its value	area, line	point, line, area
	Railway route	-	-	RAILWY	-	-	line	line
	Airport, airfield			AIRARE	-	-	point, area	point, area
		Name and/or name of operator/owner	Text	OBJNAM	-	-		

Hydroghraphy								
	Recording stage gauge (recording tide gauge, water level recorder)			sistaw - catsiw = 12	-	the given S 57 object shall contain automatically the given attribute and its value	point	point
		Name and/or name of operator/owner	Text	OBJNAM	-	-		
		Waterway kilometre	Numerical XXXX.XXX	-	-	-		
	Staff gauge	-	-	sistaw - catsiw = 12	-	the given S 57 object shall contain automatically the given attribute and its value	point	point
	High water mark	-	-	sistaw - catsiw = 15	-	the given S 57 object shall contain automatically the given attribute and its value	point	point
	Specified flood boundary	-	-	-	-	-	area, line	-
	Flood boundary	-	-	-	-	-	area, line	-
Borders & regions								
	International border			-	-	-	line	-
		Regions on both border sides	Text	-	-	-		
	Provincial border			-	-	-	line	-
		Regions on both border sides	Text	-	-	-		
	County border	-	-	-	-	-	line	-
	Communal border	-	-	-	-	-	line	-
	Local subdistrict border	-	-	-	-	-	line	-
	(Cadastral) parcel border	-	-	-	-	-	line	-
	Parcel border point	-	-	CTRPNT - CATCTR = 5	-	the given S 57 object shall contain automatically the given attribute and its value	point	point
	Authorised fishing zone	-	-	line: - area: FSHZNE - NATION = XX	-	This D4D object shall only be converted into S 57 if it is provided as an area object. The value for the automatically set attribute NATION shall be automatically be the one of the producer.	area, line	area
	National (conservation) park	-	-	line: - area: resare - CATREA = 4 - INFORM = "National park"	-	This D4D object shall only be converted into S 57 if it is provided as an area object. In this case both of the given S 57 attributes shall be set including the given values.	area, line	area
	Preserve area			line: - area: resare - CATREA = 4	-	This D4D object shall only be converted into S 57 if it is provided as an area object. in this case the given S 57 attribute shall be set including the given value.	area, line	area
		Name and/or name of operator/owner	Text	OBJNAM	-	-		
		Type of preserve area		CATREA	-	-		
			Military area	-	CATREA = 9	-		
			Minefield	-	CATREA = 14	-		
			Swimming area	-	CATREA = 18	-		
			Waiting area	-	CATREA = 19	-		
			Research area	-	CATREA = 20	-		
			Dredging area	-	CATREA = 21	-		
			No wake area	-	CATREA = 24	-		
			Water skiing area	-	CATREA = 26	-		
			Others	-	CATREA = unknown	-		
		Additional information	Text	INFORM	-	-		
		Start of period of limitation	Numerical CCYYMMDD	PERSTA	-	-		
		End period of limitation	Numerical CCYYMMDD	PEREND	-	-		
	Biotope	-	-	resare - CATREA = 4 - INFORM = Biotope	-	the given S 57 object shall contain automatically the given attributes and their values	area, line	area