C - IENC Meta Information

C.1 Meta Features

C.1.7 Survey Reliability for Detailed Depth Information (O)

An area within which a uniform assessment of the reliability of source survey information exists.
Distinction: accuracy of data; quality of data (S-57 Standard)

Graphics	Encoding Instructions	Object Encoding
	A) The survey reliability for soundings is only given in those areas where detailed depth information is provided. The area object shares the geometry with those areas. B) The quality of sounding must not be encoded using QUASOU on the depth geo object, unless it is different to the value of QUASOU encoded on M_SREL. C) QUASOU = 1 (depth known) has to be used if the depth is known and shown via depth areas. D) QUASOU = 2 (depth unknown) is used as an object attribute only in combination with depth areas (not with M_SREL!) for those areas in the river, which are too shallow for being surveyed by surveying boats and hence no detailed data is available (see I.1.9 Unsurveyed Area). E) QUASOU = 8 (value reported (not surveyed)) shall be used as an object attribute only in combination with depth areas (not with M_SREL) especially in cases when parts of the navigable water area are not surveyed but may be deep enough for navigation due to reports from other organisations than the waterways administration (see I.1.9 Unsurveyed Area). F) QUASOU = 10 (maintained depth) or QUASOU = 11 (depth not regularly maintained) should be used as on object attribute only in combination with DEPARE – Fairway Depth (not with M_SREL) to indicate the maintenance (see I.1.5 Fairway Depth / Project Depth). G) QUAPOS = 10 (precisely known) has to be used if the positioning during the survey is done by differential GPS signals. H) SURATH has to be used to give	**Object Encoding** **Object Class =** M_SREL(L,A) (M) QUASOU = [1 (depth known), 2 (depth unknown), 8 (value reported (not surveyed)), 10 (maintained depth), 11 (not regularly maintained)] (C) QUAPOS = [10 (precisely known)] (M) SURATH = (Name of the surveying authority: e.g., "Wasser- und Schifffahrtsamt Bingen") (M) SUREND = [CCYYMMDD (full date), CCYYMM (no specific day required)] (M) SURSTA = [CCYYMMDD (full date), CCYYMM (no specific day required)] (C) SURTYP = [2 (controlled survey)] (C) SORDAT = [YYYYMMDD] (C) SORIND = (Refer to Section B, General Guidance)

	name of the surveying authority.	
	I) SUREND and SURSTA have to be used to encode the period of the survey.	
	J) Quotation: "If the attributes SOUACC and TECSOU are required, they must be encoded on either the meta object M_QUAL or on individual geo objects (e.g., SOUNDG)." (see C.1.6 Quality of Data)	
	K) SURTYP = 2 (controlled survey) has to be used if a thorough survey has been done, usually conducted with reference to guidelines (a quality assured survey).	