

11th TSMAD MEETING
10 – 12 November 2004, IHB, Monaco

Proposed Changes to S-57 HYDROGRAPHIC DATA DICTIONARY
SUBMITTED BY AUSTRALIA SEPTEMBER 2004

Work Item 2.1 – Proposal
S-57 FEATURE OBJECT Review

Updated 10 Oct 03

Country / Organisation / Author: AU/AHO/Roberts

Date of proposal: 16 Oct 03

TSMAD Document Ref: (see note 1) **WI2.1Prop#Rev**

Date proposal registered:

<p>Proposal Form</p> <p>General – Proposals for a new object must use the following criteria:</p> <ol style="list-style-type: none"> 1. It is hydrographic in nature. 2. It must not duplicate an existing object. 3. It is not defined as an attribute of another object. <p>If there is any uncertainty then forward this form to the administrator and it will be considered by the work item group.</p> <p>Change – Change (See Note 2). New – New (See Note 2).</p>	<p>Note 1: There must be only one submission per form, which will be allocated a reference number. This number must be used as the subject matter for all emails concerned with this proposal.</p> <p>Note 2: Change – correction or clarification to an existing object. New - new object</p> <p>Note 3: Comments – comments must be added in the appropriate table below, one for each contributor. Copy and paste a new table as required.</p>
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Related to what type of product (eg. ENC's) or generally hydrographic in nature. Hydrographic

Should this be considered as an authoritative reference for the register? YES

OBJECT PROPOSAL										Change: <input checked="" type="checkbox"/> to extensions New: <input checked="" type="checkbox"/> for E4									
Object Class Name: Beacon, in general										Acronym: BCNGEN									
Attribute Type A					Attribute Type B					Attribute Type C									
1	BCNSHP	12	HEIGHT	1	INFORM	11		1	RECDAT	1	BCNSHP	12	HEIGHT	1	INFORM	11		1	RECDAT
2	CATSPM	13	MARSYS	2	NINFOM	12		2	RECIND	2	CATSPM	13	MARSYS	2	NINFOM	12		2	RECIND
3	COLOUR	14	NATCON	3	NTXTDS	13		3	SORDAT	3	COLOUR	14	NATCON	3	NTXTDS	13		3	SORDAT
4	COLPAT	15	NOBJNM	4	PICREP	14		4	SORIND	4	COLPAT	15	NOBJNM	4	PICREP	14		4	SORIND
5	CONDTN	16	OBJNAM	5	SCAMAX	15		5		5	CONDTN	16	OBJNAM	5	SCAMAX	15		5	
6	CONRAD	17	PEREND	6	SCAMIN	16		6		6	CONRAD	17	PEREND	6	SCAMIN	16		6	
7	CONVIS	18	PERSTA	7	TXTDSC	17		7		7	CONVIS	18	PERSTA	7	TXTDSC	17		7	
8	DATEND	19	STATUS	8		18		8		8	DATEND	19	STATUS	8		18		8	
9	DATSTA	20	VERACC	9		19		9		9	DATSTA	20	VERACC	9		19		9	
10	ELEVAT	21	VERDAT	10		20		10		10	ELEVAT	21	VERDAT	10		20		10	
11	FUNCTN	22	VERLEN							11	FUNCTN	22	VERLEN						
Remarks: Topmarks, light, fog signal, radar reflector and retro-reflector are separate objects. Distinctions: Beacon lateral; beacon safe water; beacon isolated danger; beacon cardinal; beacon special purpose; daymark; distance mark; <u>pile</u> .																			
References:																			

INT 1: IQ 80
M 4: B-455.5
Other:
<p>Definition:</p> <p>A beacon is a A prominent specially constructed object either in the water or on land, forming a conspicuous mark as a fixed aid to navigation or for use in a hydrographic survey, the appearance and/or purpose of which is not adequately known (IHO Dictionary, S-32, 5th Edition, 420,).</p> <p>Beacon in general: A beacon whose appearance and/or purpose is not adequately known.</p>
<p>Full citation of definition (mandatory). (You must provide details of the full title, year of publication, edition, author, publisher, ISBN if available). When more than one source is used to draft a definition, specify which is the primary source (P).</p> <p>International Hydrographic Organization Hydrographic Dictionary, 1994, Part 1, Volume 1, English, Special Publication No. 32, Fifth Edition, 420, Monaco 600-XII-1994, S-32.</p>
<p>ISO 19135 field: RE_SimilarityToSource value (mandatory):</p> <ul style="list-style-type: none"> a. Identical - means that literally the definitions are the same word-for-word (or so close as to be effectively indistinguishable). b. Restyled - might result from language/spelling choices (e.g., color/colour) or particular conventions in a document (e.g., S-32 use of ALLCAPS to mean that the expression is that defined elsewhere in S-32). c. ContextAdded - might result from the addition of information explicitly to the definition that was only implicit in the source (e.g., the knowledge that in S-32 the term "basin" has a restricted meaning that might not apply in our use in a register where perhaps we need to distinguish a "hydrographic basin" from a "wash basin"). d. Generalization- means that an instance of data meeting one definition won't meet the other in either direction, but will meet it in one direction (a specialized instance is valid for the generalized definition, but not the reverse). Also refers to definitions composed from more than one source. e. Specialisation – the definition has been specialised to have a narrower meaning than the concept defined in the source. This may be the case for some hydrographic terms. <p>ContextAdded</p>
<p>Justification (mandatory):</p> <p>This is an approved extension for E4 (subject to review) but the conversion of the S-57 object catalogue to the E3.1 database for the register has caused problems with the definition of BCNSPP. If we introduce BCNGEN now for E4, it may help to rectify the inconsistency issues with BCNSPP. Blue has been used to highlight the changes to the previously approved definition and I have also added new attributes CATSPM and FUNCTN. CATSPM has been added because its purpose may be known (eg. marking a measured distance line CATSPM 17) but its appearance may be unknown. FUNCTN has been added to provide for the new definition for BCNSPP (see separate proposal) which proposes two additional values for FUNCTN specifically for special purpose marks.</p>
<p>Comments:</p>

Are other objects, attributes, enumerators or sections of S-57 affected by this proposal, if so, which appendix, annex, clause number, etc.

YES Appendix A, Chapter 1 BCNGEN, BOYGEN, BCNSPP, BOYSPP

Appendix A, Chapter 2 FUNCTN (new enumerators)

Appendix B.1 Annex A UOC 12.3.1, table 12.2, 12.4.1, table 12.3

Appendix A, Annex B Cross Ref (all references to beacon, special purpose and buoy, special purpose, and add BCNGEN and BOYGEN. Add BCNGEN to CATSPM and FUNCTN.

UOC new entry required and possible cross reference to BCNSPP.

Has a separate proposal been made for the related sections of S-57. If so when. (This fact needs to be cross-referenced).

YES for BCNSPP, BOYSPP, BOYGEN, FUNCTN, same month Oct 03

GEO OBJECT CLASSES

Object Class: **Beacon, in general**

Acronym: **BCNGEN**

Code

: ?

Set Attribute_A: BCNSHP; [CATSPM](#), COLOUR; COLPAT; CONDTN; CONRAD; CONVIS; DATEND; DATSTA; ELEVAT; [FUNCTN](#); HEIGHT; MARSYS; NATCON; NOBJNM; OBJNAM; PEREND; PERSTA; STATUS; VERACC; VERDAT; VERLEN;

Set Attribute_B: INFORM; NINFOM; NTXTDS; PICREP; SCAMAX; SCAMIN; TXTDSC;

Set Attribute_C: RECDAT; RECIND; SORDAT; SORIND;

Definition:

~~A beacon is a~~ **A** prominent specially constructed object [either in the water or on land](#), forming a conspicuous mark as a fixed aid to navigation or for use in a hydrographic survey, [the appearance and/or purpose of which is not adequately known](#) (adapted from IHO Dictionary, S-32, 5th Edition, 420, [ISO source is contextAdded](#)).

~~Beacon in general: A beacon whose appearance and/or purpose is not adequately known.~~

References:

INT 1: [IQ 80](#)

M-4: 455.5;

Remarks:

Topmark, light, fog signal, radar reflector and retro-reflector are separate objects.

Distinction: daymark; beacon lateral; beacon safe water; beacon isolated danger; beacon cardinal; beacon special purpose; ~~distance mark~~; pile.

*Note: Blue changes by Roberts 7 Oct 03 that have **not** been approved by TSMAD.*

Comments	Date:
Name :	Organisation:

Comments	Date:
Name :	Organisation: