

0	Title: Acqueduct			
	CR number: 379	Version: 0		
		nber can be found in the currently	valid Change	Request List under the following website:
	http://eg.ris.eu/common_is	sues/node/757		· ·
1	Encoding Guide Edi	ition 2.4.0 Request for:		
	an addition e.g. n	ew picture, new coding instr	ruction or n	ew real world entity, which is encoded
	by already existing o	bject classes, attributes ar	nd attribute	values, but requires no alteration of
	existing elements	•		•
		lacing a picture, illustration	or an alrea	ady existing text
		ge that affects the Featur		
2	Sections A and B	Sections C to U	<u> </u>	Section V to Z and Annexes AA to
_	occiono / tana b			AF
	This is a request	This is a request		This is a request
	referring to	referring to page	(c)	referring to section
	lit.	(e.g.: C.1.5) of the		(Continue with 4 on this
		Guide (Continue		,
			will 3 OII	page)
	lit.	this page)	:	for a new Annex
	(Continue with 1 on	for a new page		(Continue with 6 on
	(Continue with 4 on	G.1 (e.g.: E.1)		this page and add the proposal
	this page)	Encoding Guide		on page 2 after removing
		with 6 on this page		form protection)
		the proposal on pa		
		after removing	g form	
_		protection)		
3	☑ Definition☑ Picture: ☑ re		<u> </u>	
	Picture: 🛛 real world 🔻 paper chart 🔀 IENC			
	Coding instru			
		g of object class bridge		
	Illustration			
4	Proposed addition/ch			
		n 11 (acqueduct) for CATB		Feature Catalogue
		or Acqueduct on the Encod	ing Guide	
5	Proposed picture/illus			
		orm, please. Name of file:		
6		amendment/change is nee		
	At the moment an acc	queduct is only addressed	on the Prod	luct Specifications if it is an
		nal structure. It is necessar		
7	Proposed amendmen	nts to the Feature Catalogue	e: add CAT	BRG_11 from S-57
8	Proposed amendmen	nts to the Inland ENC doma	in in the S-	100 registry:
	•			
9	Proposed amendmen	its to the Recommended Vi	alidation Ch	necks for IENCs: add CATBRG 11
	for bridge			
10	Proposed applicability: mark all applicable boxes			
		y. Mark an apphoable boxes		
	Europe (with	out Russia)		
	Europe (without Russia) Russia			
	South Americ	22		
		,a		
		another area of applicability	hv o a o oo	untry)
11	Name of sender: Flav	another area of applicability		
11			Deadline f	or comments 20171212 (6 weeks)
	Name of authority or		To be #III -	d in by a mambar of the O O
	e-mail address: flavia			d in by a member of the Core Group:
	Date (YYYYMMDD):	20171031		al adopted/ Proposal rejected
		ļ	VVIII becon	ne part of edition 2.5 of the EG.



This page is an optional part of the Change Request

G - Ports, Waterways

Object Encoding

G.1 Bridges, Tunnels, Overhead Obstructions

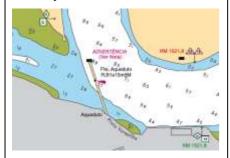
G.1.13 Non-navigable Acqueduct (O)

A bridge supporting an artificially elevated channel, for the conveyance of water. (adapted from The New Shorter Oxford English Dictionary, 1993)

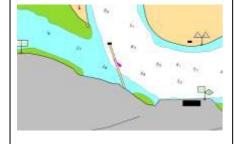
Real World

Graphics

Chart Symbol



IENC Symbolization



A) Pylons shall be encoded as

PYLONS (refer to G.1.10 – Pylons, Piers and Bridge, Cable, Pipeline Support).

Encoding Instructions

- B) Create separate bridge objects for spans over navigable channel when attributes of navigable spans are different (e.g. vertical clearance, horizontal clearance).
- C) Place LIGHTS, if applicable, on navigable span and piers bounding the navigable span.
- D) VERCLR, HORCLR, VERCCL and/or VERCOP, 'wtwdis' and 'hunits' must be encoded for acqueducts over navigable water.
- E) VERCLR should not be encoded for acqueducts over non-navigable water.
- F) All objects of a bridge which belong to one bridge must be combined to one aggregation area (C_AGGR) (e.g. pylons, lights, notice marks).
- G) For bridges that consist of only one feature the object name of the bridge is assigned to the bridge object. For bridges with a C_AGGR object the object name has to be assigned to the respective C_AGGR object the object name has to be assigned to the respective C_AGGR object and not to the bridge object.
- H) Use 'verdat' only if vertical datum differs from DSPM VDAT subfield and from Meta object 'm vdat' atribute.

Object Encoding

Object Class = bridge (A)

(M) CATBRG = [11 (acqueduct)]

(C) HORCLR = [xx.x] (metres), e.g., 34.2

(C) VERCLR = [xx.xx] (metres), e.g., 13.27

(C) VERCCL = [xx.x] (metres), e.g., 13.2

(C) VERCOP = [xx.x] (metres), e.g., 23.4

- (C) verdat = [12 (Mean lower low water), 31](Local low water reference level), 32 (Local high water reference level), 33 (Local mean water reference level), 34 (Equivalent height of water (German GlW)), 35 (Highest Shipping Height of Water (German HSW)), 36 (Reference low water level according to Danube Commission), 37 (Highest shipping height of water according to Danube Commission), 38 (Dutch river low water reference level (OLR)), 39 (Russian project water level), 40 (Russian normal backwater level), 41 (Ohio River Datum), 42 (Approximate LAT), 43 (Dutch High Water Reference Level (MHW)), 44 (Tweede Algemene Waterpassing)]
- (C) unlocd = [ISRS code]
- (C) wtwdis = [xxxx.xxx] (units defined in hunits), e.g., 2451.732
- (C) hunits = [3 (kilometres), 4 (hectometres), 5 (statute miles), 6 (nautical miles)]
- (C) refgag = (Refer to letter K)
- (C) PICREP = (Refer to Section B, General Guidance)
- (O) CONDTN = [1 (under construction), 2 (ruined), 3 (under reclamation), 5 (planned construction)]
- (M) SCAMIN = [90000]
- (C) SORDAT = [YYYYMMDD]



I)	For Notice marks on bridges see
	O.3.2.

- J) If there is no vertical clearance indicator at a bridge, but there is a gauge which can be used to calculate the vertical clearance of the bridge depending on the water level, it should be encoded in accordance with I.3.4.
- K) EU: If there is a gauge which can be used to calculate the vertical clearance of the aqueduct, the ISRS Location Code of the gauge shall be encoded in the attribute refgag.

(C) SORIND = (Refer to Section B, General Guidance)

Object Encoding

Object Class = C_AGGR()

- (M) OBJNAM = [name of the acqueduct]
- (O) NOBJNM = (Refer to Section B, General Guidance)
- (C) unlocd = [ISRS code]
- (C) SORDAT = [YYYYMMDD]
- (C) SORIND = (Refer to Section B, General Guidance)



0	Title: Alignment wit	h CEVNI rev.5	
-	CR number: 383 Version: 0		
	The next available CR number can be found in the currently valid Change Request List under the following URL:		
		readsheets/d/1darzMTlkqN4nDWOetW_6vCuqb0	
1		tion 2.4 Request for: (please enter the la	
		ew picture, new coding instruction or nev	
	, ,	bject classes, attributes and attribute v	values, but requires no alteration of
	existing elements		
		lacing a picture, illustration or an alread	
		ge that affects the Feature Catalogue	e edition 2.4 corr2 (last published
	edition)	no that offects the Dertroyal Catalogs	uo odition (last autiliatas)
	edition)	ge that affects the Portrayal Catalogu	ue edition (last published
2	Sections A and B	Sections C to U	Section V to Z and Annexes AA to
_	Ocolions / tana B		AF
	This is a request		This is a request
	referring to		referring to section AA
	lit.	(e.g.: C.1.5) of the Encoding	(Continue with 4 on this
	for a new	Guide (Continue with 3 on	page)
	lit.	this page)	for a new Annex
	1144	for a new page in section	(Continue with 6 on
	(Continue with 4 on	(e.g.: E.1) of the	this page and add the
	this page)	Encoding Guide (Continue	proposal on page 2 after
	[9 - /	with 6 on this page and add	removing form protection)
		the proposal on page 2 after	reme and remarks
		removing form protection)	
3	Definition		
	☐ Picture: ☐ re	al world paper chart IENC	
	☐ Coding instru	ction lit.	
	Object coding	of object class	
	Illustration		
4	Proposed addition/cha		
		'A.1.1" in column CEVNI.	
_	For catnmk ID 102 replace "vessels" with "small craft" in the second and in the last column.		
5	Proposed picture/illus		
_		orm, please. Name of file:	
6		amendment/change is needed:	as inconsistancies between CEVAII
		ECDIS expert group has identified som or Inland Waterways, and the Product S	
		g of notice marks. The EG, the FC and	
		xt of the European traffic regulation.	the registry have to be brought in
7		ts to the Feature Catalogue: Add "Sour	co. CEVAII" to the following estamk
′	enumerations: 1-77, 8	· · · · · · · · · · · · · · · · · · ·	ce. CEVIVI to the following cathink
		(general sign)" at the end of the existing	n definition
		ce "A.1a" with "A.1.1" in the name and in	
	Enumerations 42 and 43: add a semicolon and the following sentence at the end of the existing definitions: "the figure shown on the sign indicates the distance in metres, measured from the		
	sign, to which vessels should keep".		
	Enumeration 91: add "supply" at the end of the existing definition.		
	Enumeration 101: add "craft" at the end of the existing name and at the end of the existing		
	definition.	a crait at the end of the existing hame	and at the end of the existing
		lace "vessels" with "small craft" in the e	existing name and in the existing
	definition.	idee vessels with small orait in the e	oxiding hame and in the exiding
		lace "E.27" with "E.26.1" in the existing	name and in the existing
	definition.	.accc c	, name and in the emening
		lace "E.28" with "E.27" in the existing n	name and in the existing definition.



Benimon. Enumeration 122: replace "E.30" with "E.6.1" in the name and in the definition. Proposed amendments to the Inland ENC domain in the S-100 registry: Add "Source: Cl to the following catnmk enumerations: 1-77, 84-86 and 90-121. Enumeration 1: add "(general sign)" at the end of the existing definition. Enumeration 2: replace "A.1a" with "A.1.1" in the name and in the definition and align de with the FC. Enumerations 6-8 and 11: align definitions with the FC. Enumerations 21: delete "prohibited" in the name and in the definition. Enumerations 25-30: replace "channel" with "fairway" in the definitions. Enumerations 42 and 43: add a semicolon and the following sentence at the end of the definitions: "the figure shown on the sign indicates the distance in metres, measured from sign, to which vessels should keep". Enumerations 55: align name and definition with FC. Enumerations 58-73 and 75-89: align definitions with FC. Enumeration 91: add "supply" at the end of the existing definition. Enumeration 101: add "craft" at the end of the existing name and at the end of the existing definition. Enumeration 102: replace "vessels" with "small craft" in the existing name and in the exist definition. Register the enumerations 117-121 as amended in the FC by this CR. Proposed amendments to the Product Specification for Inland ENCs (main document): - U Proposed amendments to the Recommended Validation Checks for IENCs: 10 Proposed amendments to the Recommended Validation Checks for IENCs: 11 Proposed applicability: mark all applicable boxes U S Europe (without Russia) Russia South America Asia (description of another area of applicability, e.g. a country) Name of sender: Bernd Birkhuber Name of sender: Bernd Birkhuber Name of authority or company: Federal Ministry	Enumaration 121: replace "E.29" with "E.27.1" in the existing name and in the existing definition.		
to the following catnmk enumerations: 1-77, 84-86 and 90-121. Enumeration 1: add "(general sign)" at the end of the existing definition. Enumeration 2: replace "A.1a" with "A.1.1" in the name and in the definition and align de with the FC. Enumerations 6-8 and 11: align definitions with the FC. Enumerations 21: delete "prohibited" in the name and in the definition. Enumerations 25-30: replace "channel" with "fairway" in the definitions. Enumerations 42 and 43: add a semicolon and the following sentence at the end of the definitions: "the figure shown on the sign indicates the distance in metres, measured from sign, to which vessels should keep". Enumerations 44, 45: align definition with FC. Enumerations 55: align name and definition with FC. Enumeration 55: align name and definitions with FC. Enumeration 91: add "supply" at the end of the existing definition. Enumeration 101: add "craft" at the end of the existing name and at the end of the existing definition. Enumeration 102: replace "vessels" with "small craft" in the existing name and in the exist definition. Register the enumerations 117-121 as amended in the FC by this CR. 9 Proposed amendments to the Product Specification for Inland ENCs (main document): - 10 Proposed amendments to the Recommended Validation Checks for IENCs: 11 Proposed applicability: mark all applicable boxes US Europe (without Russia) Russia South America Asia (description of another area of applicability, e.g. a country)			
to the following catnmk enumerations: 1-77, 84-86 and 90-121. Enumeration 1: add "(general sign)" at the end of the existing definition. Enumeration 2: replace "A.1a" with "A.1.1" in the name and in the definition and align de with the FC. Enumerations 6-8 and 11: align definitions with the FC. Enumerations 21: delete "prohibited" in the name and in the definition. Enumerations 25-30: replace "channel" with "fairway" in the definitions. Enumerations 42 and 43: add a semicolon and the following sentence at the end of the definitions: "the figure shown on the sign indicates the distance in metres, measured from sign, to which vessels should keep". Enumerations 44, 45: align definition with FC. Enumerations 55: align name and definition with FC. Enumeration 55: align name and definitions with FC. Enumeration 91: add "supply" at the end of the existing definition. Enumeration 101: add "craft" at the end of the existing name and at the end of the existing definition. Enumeration 102: replace "vessels" with "small craft" in the existing name and in the exist definition. Register the enumerations 117-121 as amended in the FC by this CR. 9 Proposed amendments to the Product Specification for Inland ENCs (main document): - 10 Proposed amendments to the Recommended Validation Checks for IENCs: 11 Proposed applicability: mark all applicable boxes US Europe (without Russia) Russia South America Asia (description of another area of applicability, e.g. a country)			
10 Proposed amendments to the Recommended Validation Checks for IENCs: 11 Proposed symbol(s): Attach the file to the form, please. Name of file: 12 Proposed applicability: mark all applicable boxes US Europe (without Russia) Russia South America Asia (description of another area of applicability, e.g. a country) 13 Name of sender: Bernd Birklhuber Deadline for comments 20180920 (6 w	definition e existing rom the		
11 Proposed symbol(s): Attach the file to the form, please. Name of file: 12 Proposed applicability: mark all applicable boxes US Europe (without Russia) Russia South America Asia (description of another area of applicability, e.g. a country) 13 Name of sender: Bernd Birklhuber Deadline for comments 20180920 (6 w	:		
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13 Name of sender: Bernd Birklhuber Deadline for comments 20180920 (6 w			
	\ I . \		
of Transport, Innovation and Technology e-mail address: bernd.birklhuber@bmvit.gv.at Date (YYYYMMDD): 20180808 To be filled in by a member of the Core Proposal adopted/ Proposal reje	ore Group:		



0		for product parameters m_sdat	
	CR number: 384 Version: 0 The next available CR number can be found in the currently valid Change Request List under the following URL:		
4	https://docs.google.com/sp	readsheets/d/1darzMTlkgN4nDWOetW_6vCugb	GukEvN_9XYohwB_QLE/edit?usp=sharing
1		ition 2.4 Request for: (please enter the lease picture, new coding instruction or ne	
		bject classes, attributes and attribute	
	existing elements	.,	γ
		lacing a picture, illustration or an alread	
		ge that affects the Feature Catalogu	
	edition)	ge that affects the Portrayal Catalog	ue edition (last published
2	Sections A and B	Sections C to U	Section V to Z and Annexes AA to
	This is a request	This is a request	AF This is a request
	referring to	referring to page(s) C.1.4,	
	lit.	G.1.1; G.1.2; G.1.3; G.1.4; G.1.5;	(Continue with 4 on this
	for a new	G.1.6; G.1.8; G.1.9; G.1.11; G.1.12;	page)
	lit.	G3.3; G.3.4; G.3.20; G4.5; G.4.8;	for a new Annex
	(Continue with 4 on	G.4.9 (e.g.: C.1.5) of the Encoding	(Continue with 6 on this page and add the
	this page)	Guide (Continue with 3 on	proposal on page 2 after
	7 0 7	this page)	removing form protection)
		for a new page in section	
		(e.g.: E.1) of the Encoding Guide (Continue	
		with 6 on this page and add	
		the proposal on page 2 after	
_		removing form protection)	
3	☐ Definition ☐ Picture: ☐ re	al world ☐ paper chart ☒ IENC	
	Coding instru	<u> </u>	
	☐ Object coding	of object class	
	Illustration		
4	Proposed addition/cha		and 24/Local datum) to the
	attribute verdat for the	erations 23 (Lowest astronomical tide)	and 24(Local datum) to the
	m_sdat,		
	bridge,		
	cblohd,		
	pipohd, convyr,		
	cranes,		
	vehtrf,		
	gatcon,		
5	excnst Proposed picture/illus	tration:	
5	Attach the file to the form, please. Name of file: not applicable		
6	Explanation, why this amendment/change is needed:		
		cts in the estuarian area have a bathym	netric reference level of LAT and the
7	vertical levels are local		o add anumarations 22 /Laurest
1		ts to the Feature Catalogue: Request to the Feature Catalogue: Request to the attribute verdate.	
	m_sdat,	2 - 1,200ai datam) to the attribute verue	20.00.000
	bridge,		
	cblohd,		
	pipohd,		
	convyr,		



	cranes,		
	vehtrf,		
	gatcon,		
	excnst		
8	Proposed amendments to the Inland ENC domain in the S-100 registry: verdat enumerations		
	42, 43 and 44 have still to be registered		
9	Proposed amendments to the Product Specificat	ion for Inland ENCs (main document):	
10	Proposed amendments to the Recommended Va	alidation Checks for IENCs: add enumerations	
	23 and 24 to verdat for m_sdat		
11	Proposed symbol(s):		
	Attach the file to the form, please. Name of file: r	not applicable	
12	Proposed applicability: mark all applicable boxes		
	⊠ US		
	 US Europe (without Russia) Russia South America Asia 		
	South America		
	Asia Asia		
	(description of another area of applicability, e.g. a country)		
13	Name of sender: Wesly Backers	Deadline for comments 20181212 (6 weeks)	
	Name of authority or company: Flemish		
	Hydrography	To be filled in by a member of the Core Group:	
	e-mail address:	□ Proposal adopted/ □ Proposal rejected	
	wesly.backers@mow.vlaanderen.be	Will become part of edition 2.5 of the EG.	
	Date (YYYYMMDD): 20181031		

See also CR 343



CR number: 385 The next available CR number can be tound in the currently valid Change Request List under the following URL: https://doi.org/10.1009/	0	Title: Correction enumeration verdat in the feature catalogue			
Recoding Guide Edition 2.4 Request for: (obesee enter the last published edition of the Encoding Guide)					
Encoding Guide Edition 2.4 Request for: (please enter the last published edition of the Encoding Guide by already existing object classes, attributes and attribute values, but requires no alteration of existing elements		The next available CR nun	nber can be found in the currently	valid Change Request List unde	er the following URL:
an addition/change that affects the Portrayal Catalogue edition (last published addition) 2	1	Encoding Guide Ed ☐ an addition e.g. n by already existing o existing elements ☐ a change e.g. rep	ition 2.4 Request for: (plead ew picture, new coding instration) bject classes, attributes and lacing a picture, illustration	ase enter the last published ed uction or new real world ed d attribute values, but re or an already existing tex	ition of the Encoding Guide) entity, which is encoded equires no alteration of
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This is a request This is a request This is a request This is a request This is a request This is a request This is a request This is a request Treferring to page(s) (e.g.: C.1.5) of the Encoding Guide (Continue with 3 on this page) This page This page and add the proposal on page 2 after removing form protection)		edition)			•
referring to referring to page(s) (e.g.: C.1.5) of the Encoding Guide (Continue with 3 on this page) for a new lit. page) for a new page in section (Continue with 4 on this page) for a new page in section (e.g.: E.1) of the Encoding Guide (Continue with 6 on this page and add the proposal on page 2 after removing form protection) 3	2	Sections A and B	Sections C to U		Z and Annexes AA to
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Definition			the proposal on pa	age 2 after	oving form protection)
4 Proposed addition/change: Correction: remove verdat value 44 in all features in the feature catalogue. This value has been deleted in the past but not removed in the FC. 5 Proposed picture/illustration: Attach the file to the form, please. Name of file: not applicable 6 Explanation, why this amendment/change is needed: 7 Proposed amendments to the Feature Catalogue: Remove verdat value 44 in all features in the feature catalogue. This value has been deleted in the past but not removed in the FC. Also delete the value in the enumeration of the verdat attribute 8 Proposed amendments to the Inland ENC domain in the S-100 registry: 9 Proposed amendments to the Product Specification for Inland ENCs (main document): 10 Proposed amendments to the Recommended Validation Checks for IENCs: 11 Proposed symbol(s):	3	 □ Definition □ Picture: □ real world □ paper chart ⊠ IENC □ Coding instruction lit. □ Object coding of object class 			
Correction: remove verdat value 44 in all features in the feature catalogue. This value has been deleted in the past but not removed in the FC. Proposed picture/illustration: Attach the file to the form, please. Name of file: not applicable Explanation, why this amendment/change is needed: Proposed amendments to the Feature Catalogue: Remove verdat value 44 in all features in the feature catalogue. This value has been deleted in the past but not removed in the FC. Also delete the value in the enumeration of the verdat attribute Proposed amendments to the Inland ENC domain in the S-100 registry: Proposed amendments to the Product Specification for Inland ENCs (main document): Proposed amendments to the Recommended Validation Checks for IENCs: Proposed symbol(s): Attach the file to the form, please. Name of file: not applicable Proposed applicability: mark all applicable boxes US Europe (without Russia) Russia South America Asia (description of another area of applicability, e.g. a country) Name of sender: Gert Morlion Name of authority or company: De Vlaamse	1		ango:		
Attach the file to the form, please. Name of file: not applicable Explanation, why this amendment/change is needed: Proposed amendments to the Feature Catalogue: Remove verdat value 44 in all features in the feature catalogue. This value has been deleted in the past but not removed in the FC. Also delete the value in the enumeration of the verdat attribute Proposed amendments to the Inland ENC domain in the S-100 registry: Proposed amendments to the Product Specification for Inland ENCs (main document): Proposed amendments to the Recommended Validation Checks for IENCs: Proposed symbol(s): Attach the file to the form, please. Name of file: not applicable Proposed applicability: mark all applicable boxes US Europe (without Russia) Russia South America Asia (description of another area of applicability, e.g. a country) Name of sender: Gert Morlion Name of authority or company: De Vlaamse	4	Correction: remove verdat value 44 in all features in the feature catalogue. This value has been deleted in the past but not removed in the FC.		e. This value has been	
7 Proposed amendments to the Feature Catalogue: Remove verdat value 44 in all features in the feature catalogue. This value has been deleted in the past but not removed in the FC. Also delete the value in the enumeration of the verdat attribute 8 Proposed amendments to the Inland ENC domain in the S-100 registry: 9 Proposed amendments to the Product Specification for Inland ENCs (main document): 10 Proposed amendments to the Recommended Validation Checks for IENCs: 11 Proposed symbol(s): Attach the file to the form, please. Name of file: not applicable 12 Proposed applicability: mark all applicable boxes □ US □ Europe (without Russia) □ Russia □ South America □ Asia (description of another area of applicability, e.g. a country) 13 Name of sender: Gert Morlion Name of authority or company: De Vlaamse	5			ot applicable	
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9 Proposed amendments to the Product Specification for Inland ENCs (main document): 10 Proposed amendments to the Recommended Validation Checks for IENCs: 11 Proposed symbol(s): Attach the file to the form, please. Name of file: not applicable 12 Proposed applicability: mark all applicable boxes □ US □ Europe (without Russia) □ Russia □ South America □ Asia (description of another area of applicability, e.g. a country) 13 Name of sender: Gert Morlion Name of authority or company: De Vlaamse	7	feature catalogue. This value has been deleted in the past but not removed in the FC. Also			
10 Proposed amendments to the Recommended Validation Checks for IENCs: 11 Proposed symbol(s): Attach the file to the form, please. Name of file: not applicable 12 Proposed applicability: mark all applicable boxes □ US □ Europe (without Russia) □ Russia □ South America □ Asia (description of another area of applicability, e.g. a country) 13 Name of sender: Gert Morlion Name of authority or company: De Vlaamse	8	Proposed amendmen	nts to the Inland ENC domai	n in the S-100 registry:	
11 Proposed symbol(s): Attach the file to the form, please. Name of file: not applicable 12 Proposed applicability: mark all applicable boxes □ US □ Europe (without Russia) □ Russia □ South America □ Asia □ (description of another area of applicability, e.g. a country) 13 Name of sender: Gert Morlion Name of authority or company: De Vlaamse □ Deadline for comments 20180107 (6 weeks)	9	Proposed amendmen	its to the Product Specificat	on for Inland ENCs (mai	n document):
Attach the file to the form, please. Name of file: not applicable 12 Proposed applicability: mark all applicable boxes US Europe (without Russia) Russia South America Asia (description of another area of applicability, e.g. a country) 13 Name of sender: Gert Morlion Name of authority or company: De Vlaamse Deadline for comments 20180107 (6 weeks)	10	Proposed amendmen	its to the Recommended Va	lidation Checks for IENC	SS:
12 Proposed applicability: mark all applicable boxes ☐ US ☐ Europe (without Russia) ☐ Russia ☐ South America ☐ Asia ☐ (description of another area of applicability, e.g. a country) 13 Name of sender: Gert Morlion Name of authority or company: De Vlaamse Deadline for comments 20180107 (6 weeks)	11	. ,	orm. please. Name of file: n	ot applicable	
13 Name of sender: Gert Morlion Deadline for comments 20180107 (6 weeks) Name of authority or company: De Vlaamse	12	Proposed applicability US Europe (without the content of the conte	y: <i>mark all applicable boxes</i> out Russia) ca		
	13	Name of sender: Ger	t Morlion		20180107 (6 weeks)
		Name of authority or Waterweg	company: De Vlaamse	To be filled in by a mem	ber of the Core Group:



e-mail address: gert.morlion@vlaamsewaterweg.be Date (YYYYMMDD): 20181126 

0		ategory of notice mark	
	CR number: 386	Version: 1	
	The next available CR nun	nber can be found in the currently valid Change I preadsheets/d/1darzMTlkqN4nDWOetW_6vCuqb	Request List under the following URL:
1		ition 2.5 Request for: (please enter the I	
1		ew picture, new coding instruction or ne	
		bject classes, attributes and attribute	
	existing elements	Specificasses, attributes and attribute	values, but requires no alteration of
		lacing a picture, illustration or an alread	dy existing text
		ge that affects the Feature Catalogue	
		ge that affects the Portrayal Catalog	
	edition)		(-000)
2	Sections A and B	Sections C to U	Section V to Z and Annexes AA to
			AF
	This is a request	This is a request	This is a request
	referring to	referring to page(s)	referring to section AA
	lit.	(e.g.: C.1.5) of the Encoding	(Continue with 4 on this
	for a new	Guide (Continue with 3 on	page)
	lit.	this page)	☐ for a new Annex
	(O = = time = = = = ith= 4 = = =	for a new page in section	(Continue with 6 on
	(Continue with 4 on	(e.g.: E.1) of the	this page and add the
	this page)	Encoding Guide (Continue	proposal on page 2 after
		with 6 on this page and add the proposal on page 2 after	removing form protection)
		removing form protection)	
3	Definition	removing form protections	
J	Picture: real world paper chart IENC		
	Coding instruction lit.		
	Object coding of object class		
	☐ Illustration	,	
4	Proposed addition/cha	ange:	
	Add new category of	notice mark to enumeration	
5	Proposed picture/illus	tration:	
		orm, please. Name of file:	
6	Explanation, why this	amendment/change is needed:	
	The new Rhine Police	e Regulations have amended a new no	tice mark B.12 which indicates that
	the use of the power s		
7	Proposed amendmen	ts to the Feature Catalogue:	
	Add a new category of	of notice mark (page 375):	
	Codo, cotomic 100		
	Code: catnmk_123	ion to use anabara nawar aunniy naint	
	Name: (B.12) Obligation to use onshore power supply point Definition: Regulation mark B.12: Obligation to use onshore power supply point (all vessels are		
		ower supply for their electrical power n	
	obligated to doo the p	ower supply for their electrical power in	10000)
8	Proposed amendments to the Inland ENC domain in the S-100 registry: Add new category of		
	notice mark		
	Associated attribute:	categoryOfNoticeMark	
		UseOnshorePowerSupplyPoint	
	Name: (B.12) Obligati	ion to use onshore power supply point	
		mark B.12: Obligation to use onshore	power supply point
	Definition Source: CE	VNI and Rhine Police Regulation	
9	Proposed amendmen	its to the Product Specification for Inlan	nd ENCs (main document):



10	Proposed amendments to the Recommended Validation Checks for IENCs: add the new		
	enumeration of category of notice mark		
11	Proposed symbol(s):		
	Attach the file to the form, please. Name of file: E	3.12.png	
12	Proposed applicability: mark all applicable boxes	3	
	US		
	Russia		
	South America		
	☐ Asia		
	(description of another area of applicability, e.g. a country)		
13	Name of sender: Gert Morlion, amendment by	Deadline for comments 20190312 (6 weeks)	
	Bernd Birklhuber		
	Name of authority or company: De Vlaamse	To be filled in by a member of the Core Group:	
	Waterweg	□ Proposal adopted/ □ Proposal rejected	
	e-mail address:	Will become part of edition 2.5 of the EG.	
	gert.morlion@vlaamsewaterweg.be		
	Date (YYYYMMDD): 20180128		



0	Title: category of bu CR number: 387 The next available CR numb	Inker Version: 0 ber can be found in the currently versioned the currently version of the curren	valid Change Request List under	the following URL:
1	Encoding Guide Edit ☐ an addition e.g. ne by already existing ob existing elements	tion 2.5 Request for: (please w picture, new coding instroject classes, attributes and	nse enter the last published editi uction or new real world en d attribute values, but req	on of the Encoding Guide) tity, which is encoded uires no alteration of
	an addition/chang	acing a picture, illustration ge that affects the Feature ge that affects the Portray	Catalogue edition 2.5 (A	
2	Sections A and B	Sections C to U	Section V to Z	and Annexes AA to
		Encoding Guide with 6 on this page the proposal on page	This is a requeration of the continue of and add age 2 after	ng to section AA inue with 4 on this
3	Definition Picture: rea Coding instruc Object coding	_	⊠ IENC	
4	Proposed addition/change: Delete value 4 of category of bunker in the enumeration for G.3.2 - Bunker/Fuelling station			
5	Proposed picture/illust	tration: orm, please. Name of file:		
6	Explanation, why this amendment/change is needed: Category of bunker with the value 4 is refering to a power supply which is defined in G.3.26 as a separate feature			
7	Proposed amendments to the Feature Catalogue:			
8	Proposed amendment	ts to the Inland ENC domai	n in the S-100 registry:	
9	Proposed amendment	ts to the Product Specificat	ion for Inland ENCs (main	document):
10	Proposed amendment	ts to the Recommended Va	lidation Checks for IENCs	:
11	Proposed symbol(s): Attach the file to the form, please. Name of file:			
12	Proposed applicability: US Europe (without Russia South America Asia	: mark all applicable boxes ut Russia)		
13	Name of sender: Gert Name of authority or c	Morlion	Deadline for comments 2	0190311 (6 weeks)
	Waterweg	psy. 20 Maamoo	To be filled in by a memb ☐ Proposal adopted/ ☐	



e-mail address:	Will become part of edition 2.5 of the EG.
gert.morlion@vlaamsewaterweg.be	
Date (YYYYMMDD): 20180128	



7 <u>h</u>	https://docs.google.com/sp	Version: 0 the can be found in the currently valid Change For the control of the currently valid Change For the control of the currently valid Change For	
<u>h</u>	https://docs.google.com/sp		
			GUKEVIN YXYONWR ()I E/edit/USD=Sharing
1 E		tion 2.5 Request for: (please enter the la	
	an addition e.g. new picture, new coding instruction or new real world entity, which is encoded		
l b		oject classes, attributes and attribute v	
	existing elements	•	, ,
		lacing a picture, illustration or an alread	dy existing text
		ge that affects the Feature Catalogue	
[ge that affects the Portrayal Catalogu	ue edition (last published
	edition)	Continuo O to II	Castian V/ta Zanal Annausa AA ta
2 8	Sections A and B	Sections C to U	Section V to Z and Annexes AA to
-	This is a request	This is a request	AF This is a request
╽┈╽┟	This is a request ☐ referring to	This is a request referring to page(s)	This is a request ☐ referring to section AF
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	for a new	Guide (Continue with 3 on	page)
	lit.	this page)	for a new Annex
	114	for a new page in section	(Continue with 6 on
((Continue with 4 on	(e.g.: E.1) of the	this page and add the
	this page)	Encoding Guide (Continue	proposal on page 2 after
	, ,	with 6 on this page and add	removing form protection)
		the proposal on page 2 after	, ,
		removing form protection)	
3 [Definition_	<u>_</u>	
	Picture: 🗌 re	_ · · · _	
	Coding instruction lit.		
		of object class	
4 F	Illustration		
	Proposed addition/cha	cility/type - facets"- Add the following f	acility types:
;	 Navigation Su 		acinty types.
	 Waterway Aut 		
	 RIS Provider 	,	
	 Environmenta 	ll Agency	
•	 Customs 	0	
•	 Safety Inspect 	tion	
•	 Harbour 		
•	 Vessel Traffic 		
•	Hydrometeo C	Center	
E -	Ship Lift Proposed picture/illus	tration	
	Proposed picture/illus	tration: orm, please. Name of file:	
		amendment/change is needed:	
		ect RIS COMEX there is the request to	provide contact and opening hours
		Il organisations related to IWT. This car	
		above mentioned organisations are rele	
О	of the available facility	types.	
7 F	Proposed amendmen	ts to the Feature Catalogue:	
8 F	Proposed amendmen	ts to the Inland ENC domain in the S-1	00 registry:
	•	ts to the Product Specification for Inlan	•
		•	,
10 F	Proposed amendmen	ts to the Recommended Validation Che	ecks for IENCs:



11	Proposed symbol(s):		
	Attach the file to the form, please. Name of file:		
12	Proposed applicability: mark all applicable boxes	3	
	Europe (without Russia)		
	□ Russia □		
	 US Europe (without Russia) Russia South America Asia 		
	(description of another area of applicability, e.g. a country)		
13	Name of sender: Jonathan Gallagher	Deadline for comments 20190613 (6 weeks)	
	Name of authority or company: viadonau -		
	Österreichische Wasserstraßen Gesellschaft	To be filled in by a member of the Core Group:	
	mbH	□ Proposal adopted/ □ Proposal rejected	
	e-mail address:	Will become part of edition 2.5 of the EG.	
	jonathan.gallagher@viadonau.org		
	Date (YYYYMMDD): 20190502		



0		of time specification in Facility Files	
	CR number: 389 The next available CR num	Version: 0 mber can be found in the currently valid Change Request List under the following U	IRL:
	https://docs.google.com/sp	preadsheets/d/1darzMTlkqN4nDWOetW_6vCuqbGukEvN_9XYohwB_QLE/edit?us	p=sharing
1	an addition e.g. no	dition 2.5 Request for: (please enter the last published edition of the Enconew picture, new coding instruction or new real world entity, which is object classes, attributes and attribute values, but requires no alto	encoded
	a change e.g. repl	placing a picture, illustration or an already existing text age that affects the Feature Catalogue edition (last publishing that affects the Portrayal Catalogue edition (last publishing)	,
2	Sections A and B	Sections C to U Section V to Z and Annexe AF	es AA to
	This is a request referring to lit. for a new lit. (Continue with 4 on this page)	This is a request referring to page(s) (e.g.: C.1.5) of the Encoding Guide (Continue with 3 on this page) for a new page in section (e.g.: E.1) of the Encoding Guide (Continue with 6 on this page and add the proposal on page 2 after	Annex with 6 on add the 2 after
		removing form protection)	
3	 □ Definition □ Picture: □ real world □ paper chart □ IENC □ Coding instruction lit. □ Object coding of object class □ Illustration 		
4	Proposed addition/change: Page 316 "element TTimeFrame/end" - Add item: remark The endtime 00:00:00 refers to the end of the day. A timeframe with starttime 00:00:00 and endtime 00:00:00 translates to a 24 hour period or the whole day and is similar to the notation 00:00:00 to 24:00:00.		
5	Proposed picture/illus Attach the file to the fo	stration: form, please. Name of file:	
6	Explanation, why this amendment/change is needed: In the Eurpopean project RIS COMEX several partners pointed out that the notation 00:00:00 to 00:00:00 indicating a 24 hour period is ambigous. It should be clarified in the Encoding Guide that this notation translates to 00:00 - 24:00 hours.		
7	Proposed amendmen	nts to the Feature Catalogue:	
8	Proposed amendmen	nts to the Inland ENC domain in the S-100 registry:	
9	Proposed amendmen	nts to the Product Specification for Inland ENCs (main document):	
10	Proposed amendmen	nts to the Recommended Validation Checks for IENCs:	
11	Proposed symbol(s): Attach the file to the fo	form, please. Name of file:	
12	Proposed applicability	y: mark all applicable boxes	
	USEurope (without the content of the content of	·	
		f another area of applicability, e.g. a country)	



13	Name of sender: Jonathan Gallagher	Deadline for comments 20190613 (6 weeks)
	Name of authority or company: viadonau -	
	Österreichische Wasserstraßen Gesellschaft	To be filled in by a member of the Core Group:
	mbH	□ Proposal adopted/ □ Proposal rejected
	e-mail address:	Will become part of edition 2.5 of the EG.
	jonathan.gallagher@viadonau.org	
	Date (YYYYMMDD): 20190502	



0	_	ing convention for overlay cells in PS with IENC EG	
	CR number: 390	Version: 0	
		nber can be found in the currently valid Change Request List under the following URL:	
1	Encoding Guide Edi ☐ an addition e.g. n by already existing o existing elements ☐ a change e.g. rep ☐ an addition/chan ☐ an addition/chan	tion Request for: (please enter the last published edition of the Encoding Guide ew picture, new coding instruction or new real world entity, which is encoded bject classes, attributes and attribute values, but requires no alteration or lacing a picture, illustration or an already existing text ge that affects the Feature Catalogue edition (last published edition) ge that affects the Portrayal Catalogue edition (last published	
2	edition) Sections A and B	Sections C to U Section V to Z and Annexes AA to	
2	This is a request referring to lit. for a new lit. (Continue with 4 on this page)	This is a request referring to page(s) (e.g.: C.1.5) of the Encoding Guide (Continue with 3 on this page) for a new page in section (e.g.: E.1) of the Encoding Guide (Continue with 6 on this page and add the proposal on page 2 after removing form protection) Section V to 2 and Annexes AA to AF This is a request (Continue with 4 on this page) for a new Annex (Continue with 6 on this page and add the proposal on page 2 after removing form protection)	
3	Definition Picture: real world paper chart IENC Coding instruction lit. Object coding of object class Illustration		
4	Proposed addition/change: The third character in the file name of data set files indicates the navigational purpose. In the PS under 5.6.3 it is specified that the letter "L" refers to overlay cells. The letter "L" should be replaced by the letter "A" to be in line with the EG.		
5	Proposed picture/illus		
_		orm, please. Name of file:	
6	Explanation, why this amendment/change is needed: With regards to the naming convention for overlay cells, the PS under 5.6.3 is not consistent with the EG and the existing practice as well as with the current configuration in IENC production software. Also the PS under 2.1 states to use the letter "A" for overlay cells. Therefore "A" should also be used in the PS 5.6.3.		
7	Proposed amendmen	nts to the Feature Catalogue:	
8	•	nts to the Inland ENC domain in the S-100 registry:	
9	·	nts to the Product Specification for Inland ENCs (main document): 5.6.3	
10	·	nts to the Recommended Validation Checks for IENCs:	
11	Proposed symbol(s): Attach the file to the f	orm, please. Name of file:	
12	US Europe (without Russia South Americal Asia		



13	Name of sender: Jonathan Gallagher	Deadline for comments 20190704 (6 weeks)
	Name of authority or company: viadoau -	
		To be filled in by a member of the Core Group:
	mbH	□ Proposal adopted/ □ Proposal rejected
	e-mail address:	Will become part of edition 2.5 of the EG.
	jonathan.gallagher@viadonau.org	
	Date (YYYYMMDD): 20190523	



0		andatory attributes in the Product Specification for bathymetric Inland ENCs		
	CR number: 391 Version: 0			
		nber can be found in the currently valid Change Request List under the following URL: <u>readsheets/d/1darzMTlkqN4nDWOetW_6vCuqbGukEvN_9XYohwB_QLE/edit?usp=sharing</u>		
1	Encoding Guide Edition Request for: (please enter the last published edition of the Encoding Guide)			
	an addition e.g. new picture, new coding instruction or new real world entity, which is encoded			
	by already existing o	bject classes, attributes and attribute values, but requires no alteration of		
	existing elements			
	a change e.g. replacing a picture, illustration or an already existing text			
	an addition/change that affects the Feature Catalogue edition (last published edition)			
		ge that affects the Portrayal Catalogue edition (last published		
2	edition) Sections A and B	Sections C to U Section V to Z and Annexes AA to		
_	Occilons A and B	AF		
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		for a new page in section (Continue with 6 on		
	(Continue with 4 on	(e.g.: E.1) of the this page and add the		
	this page)	Encoding Guide (Continue proposal on page 2 after		
		with 6 on this page and add removing form protection)		
		the proposal on page 2 after		
3	Definition	removing form protection)		
3	Picture: Tre	al world paper chart IENC		
	Coding instru			
		of object class		
	Illustration	, 0. 0.0,000		
4	Proposed addition/ch	ange:		
		cation for bathymetric Inland ENCs under 3.5.2 it is specified that for		
		attributes CATZOC or POSACC and SOUACC has to be encoded		
		ine with the Product Specification for Inland ENCs for the feature M_QUAL		
_		CSOU should be used.		
5	Proposed picture/illustration: Attach the file to the form, please. Name of file:			
6		amendment/change is needed:		
ľ		cation for bathymetric Inland ENCs under 3.5.2 is not consistent with the		
		for Inland ENCs Edition 2.4.		
7	Proposed amendmen	ts to the Feature Catalogue:		
L_				
8	Proposed amendmen	ts to the Inland ENC domain in the S-100 registry:		
9	Proposed amendmen	ts to the Product Specification for Inland ENCs (main document):		
ľ	Troposed amendmen	to the Froduct opening another initial a Lives (main decament).		
10	Proposed amendmen	ts to the Recommended Validation Checks for IENCs:		
11	Proposed symbol(s):	and the second of the		
40		orm, please. Name of file:		
12	I 🖂 ' ' '	r: mark all applicable boxes		
	US Europa (with	out Puccia)		
	│⊠ Europe (witho	out Kussia)		
	South Americ	a		
	US Europe (without Russia South Americal Asia			
		another area of applicability, e.g. a country)		



13	Name of sender: Johannes Nemeth	Deadline for comments 20190916 (6 weeks)
	Name of authority or company: viadonau -	
		To be filled in by a member of the Core Group:
	mbH	□ Proposal adopted/ □ Proposal rejected
	e-mail address:	Will become part of edition 2.5 of the EG.
	johannes.nemeth@viadonau.org	
	Date (YYYYMMDD): 20190805	



0	Title: Use of DEPC CR number: 392	Version: 0	
	The next available CR nun https://docs.google.com/sp	nber can be found in the currently valid Change Request List under the following URL: readsheets/d/1darzMTlkqN4nDWQetW_6vCuqbGukEvN_9XYohwB_QLE/edit?usp=sharing	
1	□ an addition e.g. n by already existing o existing elements □ a change e.g. rep □ an addition/chan	tion 2.4.1 Request for: (please enter the last published edition of the Encoding Guide) ew picture, new coding instruction or new real world entity, which is encoded be piect classes, attributes and attribute values, but requires no alteration of lacing a picture, illustration or an already existing text ge that affects the Feature Catalogue edition (last published edition) ge that affects the Portrayal Catalogue edition (last published	
2	Sections A and B	Sections C to U Section V to Z and Annexes AA to AF	
	This is a request	This is a request referring to page(s) I.2.1 (e.g.: C.1.5) of the Encoding Guide (Continue with 3 on this page) for a new page in section (e.g.: E.1) of the Encoding Guide (Continue with 6 on this page and add the proposal on page 2 after removing form protection) This is a request (Continue with 4 on this page) for a new Annex (Continue with 6 on this page and add the proposal on page 2 after removing form protection)	
3	□ Definition □ Picture: □ real world □ paper chart □ IENC □ Coding instruction lit. B □ Object coding of object class □ Illustration		
4	Proposed addition/change: B) EU: depth contours shall be encoded between different depth areas to allow the Inland ECDIS to highlight the safety depth selected by the skipper.		
5	Proposed picture/illus Attach the file to the f	tration: orm, please. Name of file:	
6	Explanation, why this amendment/change is needed: Page I.2.1 of the Encoding Guide for Depth Contours is currently only containing an Encoding Instruction for the US. A general discussion has shown that the feature depth contour shall also be encoded in Europe. It is used by applications to highlight the safety contour selected by the skipper.		
7	Proposed amendmer	ts to the Feature Catalogue:	
8	Proposed amendmen	ts to the Inland ENC domain in the S-100 registry:	
9	•	ts to the Product Specification for Inland ENCs (main document):	
10	Proposed amendmen	ts to the Recommended Validation Checks for IENCs:	
11	Proposed symbol(s): Attach the file to the f	orm, please. Name of file:	
12	US Europe (without Russia South Americal Asia	,	



Name of sender: Bernd Birklhuber
Name of authority or company: BMVIT
e-mail address: bernd.birklhuber@bmvit.gv.at
Date (YYYYMMDD): 20190812

Deadline for comments 20190924 (6 weeks)

To be filled in by a member of the Core Group:

□ Proposal adopted/ □ Proposal rejected
Will become part of edition 2.5 of the EG.



0	Title: Correction of NEWOBJ in the Feature Catalogue			
	CR number: 393 Version: 0			
	The next available CR number can be found in the currently valid Change Request List under the following URL: https://docs.google.com/spreadsheets/d/1darzMTlkqN4nDWOetW_6vCuqbGukEvN_9XYohwB_QLE/edit?usp=sharing			
1	Encoding Guide Edition 2.4.1 Request for: (please enter the last published edition of the Encoding Guide			
-		ew picture, new coding ins		
		bject classes, attributes a		
	existing elements	•		
		lacing a picture, illustratio		
		ge that affects the Featu	re Catalogue edition 2.4	corr2 (last published
	edition)	as that affacts the Bortr	wal Catalogua adition	(last multiples of
	edition)	ge that affects the Portra	iyai Gatalogue editloli	(last published
2	Sections A and B	Sections C to U	Section V to	Z and Annexes AA to
			AF	
	This is a request	This is a request	This is a req	uest
	referring to	referring to page		rring to section
	lit.	(e.g.: C.1.5) of the		ntinue with 4 on this
	for a new	Guide (Continue		
	lit.	this page)	for	a new Annex
	/O // // //	for a new page		(Continue with 6 on
	(Continue with 4 on			page and add the
	this page)	Encoding Guide		oosal on page 2 after
		with 6 on this pa the proposal on		oving form protection)
		removing form		
3	Definition	i romering romi j	70000011)	
	☐ Picture: ☐ re	eal world	☐ IENC	
	Coding instruction lit.			
	Object coding	g of object class		
	Illustration			
4	Proposed addition/ch	ange:		
5	Proposed picture/illus			
_		form, please. Name of file:		
6		amendment/change is ne		202
	NEWOBJ is a S-57 feature with the code 163. In the IENC Feature Catalogue it is shown with			
	the code 18005 which is the code of the feature lg_drt. This is a mistake. The S-57 code has to be shown for a S-57 feature.			
7	Proposed amendments to the Feature Catalogue: Replace the code "18005" with the code			
		"NEWOBJ" in the Feature		with the code
8		nts to the Inland ENC dom		
	•			
9	Proposed amendmer	nts to the Product Specific	ation for Inland ENCs (ma	in document):
10	Proposed amendmer	nts to the Recommended \	/alidation Checks for IENC	Cs:
11	Dranged eymbol(e)			
11	Proposed symbol(s):	form, please. Name of file:		
12		y: mark all applicable boxe	26	
12		у. татк ан аррнсаыс вохе	7 0	
	Europe (with	out Russia)		
	Russia			
	USEurope (withRussiaSouth AmericAsia	ca		
	Asia			
		^f another area of applicabi	ity, e.g. a country)	
13	Name of sender: Beri		Deadline for comments	20190924 (6 weeks)
	Name of authority or	company: BMVIT		



e-mail address: bernd.birklhuber@bmvit.gv.at Date (YYYYMMDD): 20190812

To be filled in by a member of the Core Group:

Proposal adopted/ Proposal rejected Will become part of edition 2.5 of the EG.



0	Title: Accuracy info CR number: 394	rmation Version: 1	
	The next available CR nun	nber can be found in the currently valid Change Request List under the following URL:	
1		<u>preadsheets/d/1darzMTlkqN4nDWOetW_6vCuqbGukEvN_9XYohwB_QLE/edit?usp=sharing</u> ition 2.5 Request for: (please enter the last published edition of the Encoding Guid	
'	an addition e.g. new picture, new coding instruction or new real world entity, which is encoded		
		bject classes, attributes and attribute values, but requires no alteration	of
	existing elements		
		lacing a picture, illustration or an already existing text get that affects the Feature Catalogue edition 2.5 (last published edition)	
		ge that affects the Portrayal Catalogue edition (last published	
	edition)	-	
2	Sections A and B	Sections C to U Section V to Z and Annexes AA to AF)
	This is a request	This is a request This is a request	
	referring to	referring to page(s) referring to section A	۱A
	lit.	(e.g.: C.1.5) of the Encoding (Continue with 4 on the	
	for a new	Guide (Continue with 3 on page)	
	lit.	this page) for a new Anne for a new page in section (Continue with 6 of	
	(Continue with 4 on	for a new page in section (Continue with 6 c C.1 (e.g.: E.1) of the this page and add the	
	this page)	Encoding Guide (Continue proposal on page 2 aft	
		with 6 on this page and add removing form protection))
		the proposal on page 2 after	
3	Definition	removing form protection)	
	Picture: re	al world paper chart IENC	
	Coding instru		
		g of object class	
4	Illustration Proposed addition/ch	ange.	
,		M_ACCY with the appropriate attributes to indicate the overall uncertainty	V
	of position information	n in an area	
5	Proposed picture/illus		
6		orm, please. Name of file: amendment/change is needed:	
	For autonomous navigation, the systems need to know the accuracy of the features in the		
	IENC.		
7	Proposed amendments to the Feature Catalogue: - add to the Feature Catalogue 2.5 the S-57 feature M_ACCY, the S-57 attributes HORACC,		
	VERACC and the new		
		ature Catalogue the S-101 feature AccuracyOfData, together with the	
	attributes categoryOf	TepmoralVaration, horizontalDistanceUncertainty,	
		rtainty, uncertaintyVariableFactor, orientationUncertainty,	
8	uncertaintyFixed;	its to the Inland ENC domain in the S-100 registry:	
0	r roposed amendmen	its to the illiand Live domain in the 3-100 registry.	
9	Proposed amendmen	ts to the Product Specification for Inland ENCs (main document):	
10			
10		its to the Recommended Validation Checks for IENCs: add to the Feature 57 feature M_ACCY, the S-57 attributes HORACC, VERACC and the new	
	attribute CATTEV;	or realure ivi_ACCT, the C-Or althouses FIONACC, VENACC and the new	¥
		ature Catalogue the S-101 feature AccuracyOfData, together with the	
]	attributes categoryOf	TepmoralVaration, horizontalDistanceUncertainty,	
		rtainty, uncertaintyVariableFactor, orientationUncertainty,	
11	uncertaintyFixed; Proposed symbol(s):		
' '		orm, please. Name of file:	



12	Proposed applicability: mark all applicable boxes		
	Europe (without Russia) Russia		
	□ Russia		
	South America		
	(description of another area of applicability, e.g. a country)		
13	Name of sender: Gert Morlion	Deadline for comments 20190930 (6 weeks)	
	Name of authority or company: De Vlaamse		
	Waterweg To be filled in by a member of the Core Groundstanding		
	e-mail address:	□ Proposal adopted/ □ Proposal rejected	
	gert.morlion@vlaamsewaterweg.be	Will become part of edition 2.5 of the EG.	
	Date (YYYYMMDD): 20190819		



C - IENC Meta Information

C.1 Meta Features

C.1.9 Quality of Non-Bathymetric Data (O)

An area within which the best estimate of the overall accuracy of the data is uniform. The overall accuracy takes into account for example the source accuracy, chart scale, digitising accuracy, etc.

Graphics	Encoding Instructions	Object Encoding
•	A. The accuracy of data is only encoded in those areas where	Object Encoding
	accuracy of data is available and clearly defined.	Object Class = M_ACCY(A)
	B. If a structured external XML- file with more detailed accuracy information is	(M) CATTEV = [4 (likely to change), 5 (unlikely to change), 6 (unassessed)]
	available, the reference to the file has to be entered in the TXTDSC attribute.	(O) HORACC = [x.xx] (metres), The best estimate of the horizontal accuracy of horizontal clearances and distances.
		Minimum value: 0; Resolution: 0.1 m
		(O) VERACC = [x.xx] (metres), The best estimate of the accuracy of a position. The expected input is the maximum of the two-dimensional error. The error is assumed to be positive and negative. The plus/minus character shall not be encoded.
		Minimum value: 0; Resolution: 0.1 m
		(O) POSACC = [xxxx.x] (metres), The best estimate of the accuracy of a position. Minimum value: 0; Resolution: 0.1 m
		(O) SOUACC = [x.xx] The best estimate of the accuracy of the sounding data. Minimum value: 0; Resolution: 0.1 m
		(O) NINFOM = (Refer to Section B, General Guidance)
		(O) TXTDSC = (Refer to letter B)
		(C) SORDAT = [YYYYMMDD]
		(C) SORIND = (Refer to Section B, General Guidance)



Feature Catalogue:

Feature Accuracy of data

Acronym: M_ACCY Code: 300

Type: M

Primitive: A

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2000-11-01

Definition: An area within which the best estimate of the overall accuracy of the data is uniform. The

overall accuracy takes into account for example the source accuracy, chart scale, digitising

accuracy etc.

Attribute Bindings:

acronym	usage	constraints
POSACC	O	unit = "m" decimal digits = "2"
SOUACC	0	unit = "m" decimal digits = "2"
HORACC	0	format = "xx.x", unit defined in HUNI subfield of the DSPM record or in the HUNITS attribute of the M_UNIT meta object class, e.g. metre (m)
VERACC	O	format = "xx.x", unit defined in HUNI subfield of the DSPM record or in the HUNITS attribute of the M_UNIT meta object class, e.g. metre (m)
CATTEV	M	4, 5, 6
INFORM	O	
NINFOM	O	



acronym usage constraints

TXTDSC O

SORDAT C format = "ccyymmdd"

SORIND C format = "cc,cc,ccccc,c..."

NTXTDS O

Attribute Horizontal Accuracy

Acronym: HORACC Code: 97

Use Type: F,S

Value Type: F

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2000-11-01

Definition: The best estimate of the horizontal accuracy of horizontal clearance and distances.



Attribute Vertical Accuracy

Acronym: VERACC Code: 180

Use Type: F,S

Value Type: F

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2000-11-01

Definition: The best estimate of the vertical accuracy of heights, vertical distances and vertical clearances, excluding sounding

measurements.

Attribute Category of temporal variation

Acronym: CATTEV Code: 18036

Use Type: F,S

Value Type: F

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2000-11-01

Definition: An assessment of the likelihood of change over time.



Enumerations:

Value Data Dictionary (DD) Reference

4 DD Name: HYDRO Code: CATTEV_4 Date accepted: 2000-11-01

Name: Likely to change

Definition: Continuous or frequent change to non-bathymetric features (for example river siltation, glacier

creep/recession, sand dunes, buoys, marine farms, etc).

5 DD Name: HYDRO Code: CATTEV_5 Date accepted: 2000-11-01

Name: Unlikely to change

Definition: Significant change to the seafloor is not expected.

6 DD Name: HYDRO Code: CATTEV_6 Date accepted: 2000-11-01

Name: Unassessed

Definition: Temporal variation not assessed or cannot be determined.



0	Title: Accuracy info	rmation (2)			
	CR number: 395 Version: 1				
		The next available CR number can be found in the currently valid Change Request List under the following URL:			
1		preadsheets/d/1darzMTlkqN4nDWOetW_6vCuqb			
1		ition 2.5 Request for: (please enter the left) ew picture, new coding instruction or ne			
		bject classes, attributes and attribute			
	existing elements	bject classes, attributes and attribute	values, but requires no alteration of		
		lacing a picture, illustration or an alread	dy existing text		
		ge that affects the Feature Catalogu			
		ge that affects the Portrayal Catalog			
	edition)	ge that allects the rolliagal outling	(last published		
2	Sections A and B	Sections C to U	Section V to Z and Annexes AA to		
			AF		
	This is a request	This is a request	This is a request		
	referring to	referring to page(s) D.2.5,	referring to section AA		
	lit.	G.1.1, G.1.2, G.1.3, G.1.4, G.1.5,	(Continue with 4 on this		
	for a new	G.1.6, G.1.7, G.1.8, G.1.9, G.1.10,	page)		
	lit.	G.1.11, G.1.12, G.2.1, G.2.3, G.3,	for a new Annex		
		G.3.3, G.3.4, G.3.5, G.3.6, .3.7,	(Continue with 6 on		
	(Continue with 4 on	G.3.8, G.3.11, G.3.12, G.3.13,	this page and add the		
	this page)	G.3.14, G.3.18, G.3.21, G.3.23,	proposal on page 2 after		
		G.3.24, G.3.25, G.4.2, G.4.3, G.4.4;	removing form protection)		
		G.4.5, G.4.7, G.4.8, G.4.9, I.1.1,			
		I.1.2, I.1.3, I.1.5, I.1.6, I.1.7, I.1.9,			
		I.2.1, I.3.5, J.1.1, J.1.2, J.1.3, M.3.1,			
		(e.g.: C.1.5) of the Encoding			
		Guide (Continue with 3 on			
		this page)			
		for a new page in section			
		(e.g.: E.1) of the			
		Encoding Guide (Continue with 6 on this page and add			
		the proposal on page 2 after			
		removing form protection)			
3	Definition	removing form protection)			
3	Picture: \square re	al world \square paper chart \boxtimes IENC			
	Coding instru	<u> </u>			
		g of object class			
	Illustration				
4	Proposed addition/ch	ange:			
		ation as optional attributes to features v	which are important for the safety of		
	navigation	•	· ,		
5	Proposed picture/illus	tration:			
		orm, please. Name of file:			
6	Explanation, why this amendment/change is needed:				
	For autonomous navigation, the systems need to know the accuracy of the features in the				
	IENC.				
7		ts to the Feature Catalogue:			
		Catalogue 2.5 the attributes HORACC,	VERACC, CATTEV to all proposed		
	features as optional a				
	- add to the S-401 Feature Catalogue the S-101 feature AccuracyOfData, together with the				
	attributes categoryOfTepmoralVaration, horizontalDistanceUncertainty,				
	verticalDistanceUncertainty, uncertaintyVariableFactor, orientationUncertainty, uncertaintyFixed				
	to all proposed featur				
8	Proposed amendmen	its to the Inland ENC domain in the S-1	00 registry:		



9	Proposed amendments to the Product Specification for Inland ENCs (main document):				
10	Proposed amendments to the Recommended Validation Checks for IENCs: - add to the Feature Catalogue 2.5 the attributes HORACC, VERACC, CATTEV to all proposed features as optional attributes;				
	- add to the S-401 Feature Catalogue the S-101 feature AccuracyOfData, together with the				
	attributes categoryOfTepmoralVaration, horizontalDistanceUncertainty,				
	verticalDistanceUncertainty, uncertaintyVariableFactor, orientationUncertainty, uncertaintyFixed				
	to all proposed features;				
11	Proposed symbol(s):				
	Attach the file to the form, please. Name of file:				
12	Proposed applicability: mark all applicable boxes				
	□ US				
	Europe (without Russia)				
	□ Russia				
	Russia South America Asia				
	Asia				
	(description of another area of applicability, e.g. a country)				
13	Name of sender: Gert Morlion	Deadline for comments 20190930 (6 weeks)			
	Name of authority or company: De Vlaamse				
	Waterweg	To be filled in by a member of the Core Group:			
	e-mail address:	□ Proposal adopted/ □ Proposal rejected			
	gert.morlion@vlaamsewaterweg.be	Will become part of edition 2.5 of the EG.			
	Date (YYYYMMDD): 20190819				



0	Title: Numeric precision						
	CR number: 396	Version: 0					
	The next available CR num	nber can be found in the currently valid Change I	Request List under the following URL:				
1	https://docs.google.com/spreadsheets/d/1darzMTlkgN4nDWOetW 6vCugbGukEvN 9XYohwB QLE/edit?usp=sharing						
'	Encoding Guide Edition 2.4.1 Request for: (please enter the last published edition of the Encoding Guide) an addition e.g. new picture, new coding instruction or new real world entity, which is encoded						
	by already existing object classes, attributes and attribute values, but requires no alteration of						
	existing elements	sjoot sidooos, alliibatoo aria alliibato	various, but requires he alteration of				
		lacing a picture, illustration or an alread	dv existina text				
		ge that affects the Feature Catalogu					
		ge that affects the Portrayal Catalog					
	edition)		` '				
2	Sections A and B	Sections C to U	Section V to Z and Annexes AA to				
			AF				
	This is a request	This is a request	This is a request				
	referring to	referring to page(s)	referring to section				
	lit. D of	(e.g.: C.1.5) of the Encoding	(Continue with 4 on this				
	section B	Guide (Continue with 3 on	page)				
	☐ for a new	this page)	for a new Annex				
	lit.	for a new page in section	(Continue with 6 on				
	(0 11 111 1	(e.g.: E.1) of the	this page and add the				
	(Continue with 4 on	Encoding Guide (Continue	proposal on page 2 after				
	this page)	with 6 on this page and add	removing form protection)				
		the proposal on page 2 after					
3	Definition	removing form protection)					
3	Picture: re	eal world paper chart IENC					
	Coding instru	· ·					
		g of object class					
	Illustration	g of object class					
4	Proposed addition/ch	ange:					
-	Amend the existing text in Section B, lit. D, Numeric Precision, to read:						
		er of decimals of numeric attributes is					
		num two decimals). The encoding of nu					
	information and heigh	nts of structures) should reflect the accu	racy of the number. For example a				
	bridge height of thirty	-five meters, accurate to one meter, ha	s to be encoded as 35, not as 35.0				
		alues without safety margins should be	used."				
5	Proposed picture/illus						
	Attach the file to the f	orm, please. Name of file:					
6		amendment/change is needed:					
		ue and the Encoding Guide are contain					
		s in some cases. The general guidance					
	explanation that there can be a distinction between the technical possibility (defined in the Feature Catalogue) and the recommended precision or a typical example.						
7			nical example.				
'	rroposed amendmer	its to the Feature Catalogue:					
8	Proposed amendmen	its to the Inland ENC domain in the S-1	00 registry:				
	Troposed amenamer	ito to the iniana Live demain in the C i	oo registry.				
9	Proposed amendmen	its to the Product Specification for Inlan	nd ENCs (main document):				
	•	·	,				
10	Proposed amendmer	its to the Recommended Validation Ch	ecks for IENCs:				
11	Proposed symbol(s):	orm, please. Name of file:					
12		y: mark all applicable boxes					
12	S US	. Main all applicable boxes					
	Europe (with	out Russia)					
	□ Russia□ South Americ	ca car					



	Asia (description of another area of applicability, e.g. a country)				
13	Name of sender: Bernd Birklhuber Name of authority or company: BMVIT Deadline for comments 20190925 (6 week				
	e-mail address: bernd.birklhuber@bmvit.gv.at Date (YYYYMMDD): 20190814	To be filled in by a member of the Core Group: ☐ Proposal adopted/☐ Proposal rejected Will become part of edition 2.5 of the EG.			



CR number: 397	Varaian. 1	
	Version: 1	
The next available CR num	nber can be found in the currently valid Change F readsheets/d/1darzMTlkgN4nDWOetW_6vCugh	Request List under the following URL: GUKEYN 9XYohwB QLE/edit?usp=sharing
https://docs.google.com/spreadsheets/d/1darzMTlkqN4nDWOetW_6vCuqbGukEvN_9XYohwB_QLE/edit?usp=sharing Encoding Guide Edition 2.4 Request for: (please enter the last published edition of the Encoding Guide) an addition e.g. new picture, new coding instruction or new real world entity, which is encoded by already existing object classes, attributes and attribute values, but requires no alteration of existing elements a change e.g. replacing a picture, illustration or an already existing text an addition/change that affects the Feature Catalogue edition 2.4 corr2 (last published edition) an addition/change that affects the Portrayal Catalogue edition (last published edition)		
Sections A and B This is a request referring to lit. for a new lit. (Continue with 4 on this page)	Sections C to U This is a request ☐ referring to page(s) I.3.4 G.1.1 G.1.2 G.1.3 G.1.4 G.1.5 G.1.6 G.1.7 G.1.8 G.1.9 G.1.11 G.1.12 G.3.3 G.3.4 G.3.20 G.4.5 G.4.8 G.4.9 I.3.5 G.3.7 (e.g.: C.1.5) of the Encoding Guide (Continue with 3 on this page) ☐ for a new page in section (e.g.: E.1) of the Encoding Guide (Continue with a continuation of the Encoding Guide (Continuation of the Encoding Gui	Section V to Z and Annexes AA to AF This is a request referring to section AA (Continue with 4 on this page) for a new Annex (Continue with 6 on this page and add the proposal on page 2 after removing form protection)
	the proposal on page 2 after	
Definition		
	The next available CR numeritips://docs.google.com/sp Encoding Guide Edi	The next available CR number can be found in the currently valid Change Intros/focs.google.com/spreadsheets/d/ldarzMTikqN4nDWOetW &vCudt Encoding Guide Edition 2.4 Request for: (please enter the limit and addition e.g. new picture, new coding instruction or ne by already existing object classes, attributes and attribute versiting elements a change e.g. replacing a picture, illustration or an already an addition/change that affects the Feature Cataloguedition) a a addition/change that affects the Portrayal Cataloguedition an addition/change that affects the Portrayal Cataloguedition) Sections A and B



- G.1.8 Overhead Cable
- G.1.9 Overhead Pipe
- G.1.11 Foot Bridge / Catwalk
- G.1.12 Draw Bridge (CR NL)
- G.3.3 Conveyor
- G.3.4 Crane
- G.3.7 Floating Dock
- G.3.20 Vehicle Transfer Location
- G.4.5 Lock Gate
- G.4.9 Opening Barrage

Add encoding instruction

"Use sdrlev and sdrval if the local value and name of vertical river datum reference level (design waterlevel) is known ."

for

- I.3.4 Waterway Gauge
- I.3.5 Waterway Profile
- G.3.7 Floating Dock
- G.4.8 Exceptional Navigational Structure

remark for wtwgag the EG described for waterlevel values a format like this O) higwat = [xxx.xxx] (metres), e.g., 4.78. I think that encoding waterlevels values in mm is not quite common; But may be those three decimals are needed for other units; If that is the case than [xx.xx] in the proposal should be adapt to [xx.xxx]

- (O) vcrlev = Name of reference level to which vertical clearances are referred (from verdat list) plus version indication, e.g., HSW 2002 &
- (O) vcrval= [xx.xx] (metres), e.g., 1.15 for
- I.3.4 Waterway Gauge (vcrlev is already described)
- G.1.1 Bascule Bridge
- G.1.2 Bridges with Bridge Arches
- G.1.3 Fixed Bridge
- G.1.4 Lift Bridge
- G.1.5 Suspension Bridge
- G.1.6 Swing Bridge
- G.1.7 Tunnel
- G.1.8 Overhead Cable
- G.1.9 Overhead Pipe
- G.1.11 Foot Bridge / Catwalk
- G.1.12 Draw Bridge (CR NL)
- G.3.3 Conveyor
- G.3.4 Crane
- G.3.7 Floating Dock
- G.3.20 Vehicle Transfer Location
- G.4.5 Lock Gate
- G.4.9 Opening Barrage

add (O) sdrlev = (name of reference level to which depth are referred (from verdat list) plus version indication), e.g. GIW 2002 & add

- (O) sdrval= [xx.xx] (metres), e.g., 2.05 for
- I.3.4 Waterway Gauge (sdrlev is already described)
- I.3.5 Waterway Profile
- G.3.7 Floating Dock
- G.4.8 Exceptional Navigational Structure

remark for wtwgag the EG described for waterlevel values a format like this O) higwat = [xxx.xxx] (metres), e.g., 4.78. I think that encoding waterlevels values in mm is not quite common; But may be those three decimals are needed for other units; If that is the case than [xx.xx] in the proposal should be adapt to [xx.xxx]

Illustration



4	Proposed addition/change: Correction FC: add vcrval & sdrval attributes https://ienc-kennisportaal.nl/wp- content/uploads/2019/08/IENC_EG_2.4missing_attributes_sdrval_vcrval.png
5	Proposed picture/illustration: Attach the file to the form, please. Name of file:
6	Explanation, why this amendment/change is needed: .During the IEEG in June 2018 it has been discovered (ie Laessi demo) that the vcrval attribute (value of Vertical clearance reference level) and the sdrval attribute for sounding date reference value is missing in the Feature Catalog vcrval and sdrval attributes are important to be able to make a comparison with actual water gauge information examples: https://ienc-kennisportaal.nl/wp-content/uploads/2018/11/20181108-ClearanceandDraught-informationInFreeFlowingRiversAndEstuaries.pdf Because of this addition, many pages of the EG 'needs' an update I 'II make separate CR for the EG
7	Proposed amendments to the Feature Catalogue: add vcrval & sdrval attributes to the FC
	vcrval for the features: I.3.4 Waterway Gauge G.1.1 Bascule Bridge G.1.2 Bridges with Bridge Arches G.1.3 Fixed Bridge G.1.4 Lift Bridge G.1.5 Suspension Bridge G.1.6 Swing Bridge G.1.7 Tunnel G.1.8 Overhead Cable G.1.9 Overhead Pipe G.1.11 Foot Bridge / Catwalk G.1.12 Draw Bridge (CR NL) G.3.3 Conveyor G.3.4 Crane G.3.7 Floating Dock G.3.20 Vehicle Transfer Location G.4.5 Lock Gate G.4.9 Opening Barrage
	sdrval for the features : I.3.4 Waterway Gauge
	I.3.5 Waterway Profile G.3.7 Floating Dock
	G.4.8 Exceptional Navigational Structure
8	Proposed amendments to the Inland ENC domain in the S-100 registry:
9	Proposed amendments to the Product Specification for Inland ENCs (main document):
10	Proposed amendments to the Recommended Validation Checks for IENCs:
11	Proposed symbol(s): Attach the file to the form, please. Name of file:
12	Proposed applicability: mark all applicable boxes ☐ US ☐ Europe (without Russia)



		Russia		
		South America		
	\boxtimes	Asia		
		(description of another area of applicability	y, e.g. a country)	
13	Name	of sender: René Visser	Deadline for comments 20191113 (6 weeks)	
	Name	of authority or company: Min I&W RWS		
	e-mail	address: rene.visser@rws.nl	To be filled in by a member of the Core Group:	
	Date (YYYYMMDD): 20191002	☐ Proposal adopted/ ☐ Proposal rejected	
			Will become part of edition 2.5 of the EG.	

Approved by the meeting, but still open for comments



0	Title: BOYSPP add all (IHO) values to the FC Version: 2			
1		tion 2.5 Paguest for:		
'	Encoding Guide Edition 2.5 Request for: ☐ an addition (e.g. new picture, new coding instruction or new real world entity, which is encoded by already existing object classes, attributes and attribute values, but requires no alteration of existing elements) ☐ a change (e.g. replacing a picture, illustration or an already existing text) ☐ an addition/change that affects the Feature Catalogue (edition 2.5)			
2	Sections A and B	Sections C to U	Section V to Z and Annexes AA to AF	
	This is a request referring to lit. for a new lit. (Continue with 4 on this page)	This is a request referring to page(s) (O.4.1) (e.g.: C.1.5) of the Encoding Guide (Continue with 3 on this page) for a new page in section (e.g.: E.1) of the Encoding Guide (Continue with 6 on this page and add the proposal on page 2 after removing form	This is a request referring to section (Continue with 4 on this page) for a new Annex (Continue with 6 on this page and add the proposal on page 2 after removing form protection)	
		protection)		
3				
4	Proposed addition/change: add all (IHO) values to the FC and to mention all with the exception of 9, 15, 53, 56 in the EG. (Value number 38 is skipped; this should be encoded using object class signal station, traffic (SISTAT)			
5	Proposed picture/illustration: Attach the file to the form, please. Name of file:			
6	Explanation, why this amendment/change is needed: At Rws, analyses of several sources for ENC production has been executed. It was found out that the central database for AtoN's (buoys and beacon) contains of a lot maritime S57 attribute values that are not available in the Inland Ecdis Standard. I.e. 401 special purpose buoys (BOYSPP) in the database (and the real world), 20%, have been registered with a maritime value for CATSPM. (not only for the North sea area; see attached map.			
7	Proposed amendments to the Feature Catalogue: Add all (IHO) values to the FC			



8	Proposed amendments to the Inland ENC domain in the S-100 registry:		
9	Proposed amendments to the Recommended Validation Checks for IENCs:		
	(6,10,12,37,39,41,45,50,54,55) should be all (*)		
10	Proposed applicability: mark all applicable boxe	S	
	⊠ US		
	Europe (without Russia)		
	⊠ Europe (without Russia)⊠ Russia⊠ South America⊠ Asia		
	South America		
	(description of another area of applicabili	ty, e.g. a country)	
11	Name of sender: Visser R	Deadline for comments 20191004 (6 weeks)	
	Name of authority or company: RWS		
	e-mail address: rene.vis	To be filled in by a member of the Core Group:	
	Date (YYYYMMDD): 20190816	□ Proposal adopted/ □ Proposal rejected	
	Will become part of edition 2.5 of the EG.		



0	Title: Emergency wreck marking buoy Version: 2			
1	Encoding Guide Edition 2.5 Request for: ☑ an addition (e.g. new picture, new coding instruction or new real world entity, which is encoded by already existing object classes, attributes and attribute values, but requires no alteration of existing elements) ☐ a change (e.g. replacing a picture, illustration or an already existing text) ☑ an addition/change that affects the Feature Catalogue (edition			
2	Sections A and B	Sections C to U		Section V to Z and Annexes AA to
	This is a request referring to lit. for a new lit. (Continue with 4 on this page)	This is a request referring to page (e.g.: C.1.5) of the Guide (Continue this page) for a new page O.4 (e.g.: E.1 Encoding Guide with 6 on this page the proposal on pafter removing protection)	e(s) Encoding With 3 on in section of the (Continue e and add age 2	AF This is a request referring to section (Continue with 4 on this page) for a new Annex (Continue with 6 on this page and add the proposal on page 2 after removing form protection)
3	□ Definition □ Picture: □ real world □ paper chart □ IENC □ Coding instruction lit. □ Object coding of object class □ Illustration			
4	Proposed addition/ch	ange:		
5		form, please. Name of file:		
6				ice would like to be able to encode
7	Proposed amendments to the Feature Catalogue: Add CATSPM = 27 (general warning mark) to Hydro feature BOYSPP			
8		nts to the Inland ENC doma		
9	Proposed amendments to the Recommended Validation Checks for IENCs: check master slave relation BOYSPP to the light object, the top mark object and the radar transponder beacon object. Add CATSPM=27 for BOYSPP			
10	Proposed applicability: mark all applicable boxes □ US □ Europe (without Russia) □ Russia □ South America □ Asia □ (description of another area of applicability, e.g. a country)			
11	Name of sender: Ren	né Visser		r comments 20191004 (6 weeks)
	Name of authority or e-mail address: rene. Date (YYYYMMDD):		□ Proposa	in by a member of the Core Group: I adopted/ Proposal rejected part of edition 2.5 of the EG.



O - Buoys, Beacons and Daymarks, Notice Marks

O.4 IALA Maritime Buoyage System

O.4.2 Emergency wreck marking buoy

A Special Purpose Buoy to be used as initial marking of a danger wreck.

Graphics	Encoding Instructions	Object Encoding
Real World	A) If it is required to encode an emergency wreck marking	Object Encoding
	buoy, it must be done using a BOYSPP object	Object Class = BOYSPP(P)
	B) BOYSPP is encoded as master object to the light object, the top mark object and the radar transponder beacon	(M) BOYSHP = [4 (pillar), 5 (spar)]
		(M) CATSPM = [27 (general warning mark)]
		(M) COLOUR = [5,6 (blue, yellow)]
g o	object. C) Mandatory attributes must be coded to ensure proper	(O) CONRAD = [3 (radar conspicuous (has radar reflector))]
	presentation.	(C) OBJNAM = (Refer to letter D)
Chart Symbol	D) EU: The designator as it appears on the buoy, if it can	(O) NOBJNM = (Refer to letter D)
	be read from a passing vessel,	(M) SCAMIN = [EU: 22000; US: 60000]
JENO Ormakalias Gara	should be encoded in the attribute OBJNAM.	(C) SORDAT = [YYYYMMDD]
IENC Symbolization	Administrative information on the buoys that is not relevant for navigation should be encoded in the attribute NOBJNM. It is not repeated for each slave object.	(C) SORIND = (Refer to Section B, General Guidance)
		Object Encoding
7 4 7		Object Class = LIGHTS(P)
		(M) COLOUR = [5,6 (blue, yellow)]
		(M) EXCLIT = [1 (light shown without change of character), 2 (daytime light), 3 (fog light), 4 (night light)]
		(M) LITCHR = [17 (occulting alternating)]
		(M) SIGPER = [3]
		(M) SIGGRP = [(1)]
		(M) SIGSEQ = $[1.00+(0.50)+1.00+(0.50)]$ (seconds)
		(M) VALNMR = [4]
		(M) $SCAMIN = [45000]$
		(C) SORDAT = [YYYYMMDD]
		(C) SORIND = (Refer to Section B, General Guidance)
		Object Encoding
		Object Class = TOPMAR(P)
		(M) COLOUR = [6 (yellow)]
		(M) TOPSHP = [8 (upright cross (St George=s cross]



(M) SCAMIN = [EU: 45000; US: 60000]
(C) $SORDAT = [YYYYMMDD]$
(C) SORIND = (Refer to Section B, General Guidance)
Object Encoding
Object Class = RTPBCN (P)
(M) CATRTB = [2 (racon, radar transponder beacon)]
(M) SIGGRP = [(D)]



0	Title: Dutch estuary Version: 2	/ low water reference level (OLW) and	LAT
1	an addition (e.g. encoded by already	tion 2.5 Request for: new picture, new coding instruction existing object classes, attributes an	
		elements) placing a picture, illustration or an alre ge that affects the Feature Catalogu	
2	Sections A and B	Sections C to U	Section V to Z and Annexes AA to AF
	This is a request referring to lit.	This is a request ☐ referring to page(s) C.1.4 C.1.5	This is a request referring to section (Continue with 4 on this
	for a new lit.	G.1.1 G.1.2 G.1.3	page) for a new Annex (Continue with 6 on
	(Continue with 4 on this page)	G.1.4 G.1.5 G.1.6	this page and add the proposal on page 2 after removing form protection)
		G.1.8 G.1.9 G.1.11	
		G.1.12 G.3.3 G.3.4	
		G.3.7 G.3.20 G.4.5	
		G.4.8 G.4.9 I.3.5	
		(e.g.: C.1.5) of the Encoding Guide (Continue with 3 on this page)	
		for a new page in section (e.g.: E.1) of the Encoding Guide (Continue	
		with 6 on this page and add the proposal on page 2 after removing form	
		protection)	
3	☐ Definition ☐ Picture: ☐ re ☐ Coding instru		
	Object coding	g of object class	
4	Proposed addition/change: Add Hydro enumeratie 23 (Lowest Astronomical Tide (LAT)) and new enumeration 45 (Dutch estuary low water reference level (OLW)) to attribute verdat of m_sdat,		
	bridge, cblohd,		
	pipohd, convyr, cranes,		
	flodoc, vehtrf, gatcon,		



	excnst		
5	Proposed picture/illustration:		
	Attach the file to the form, please. Name of file:		
6	Explanation, why this amendment/change is nee	eded:	
7	Proposed amendments to the Feature Catalogue Hydro enumeratie 23 (Lowest Astronomical Tide estuary low water reference level (OLW)) to attri	(LAT)) and new enumeration 45 (Dutch	
8	Proposed amendments to the Inland ENC doma (Dutch estuary low water reference level (OLW))	to attribute verdat	
O	Proposed amendments to the Recommended Validation Checks for IENCs: Add Hydro enumeratie 23 (Lowest Astronomical Tide (LAT)) and new enumeration 45 (Dutch estuary low water reference level (OLW)) to attribute verdat of m_sdat, bridge, cblohd, pipohd, convyr, cranes, flodoc, vehtrf, gatcon, excnst		
10	Proposed applicability: mark all applicable boxes ☐ US ☐ Europe (without Russia) ☐ Russia ☐ South America ☐ Asia ☐ (description of another area of applicability, e.g. a country)		
11	Name of sender: René Visser	Deadline for comments 20191008 (6 weeks)	
	Name of authority or company:		
	Rijkswaterstaat	To be filled in by a member of the Core Group:	
	e-mail address: rene.visser@rws.nl	□ Proposal adopted/ □ Proposal rejected	
	Date (YYYYMMDD): 20190827	Will become part of edition 2.5 of the EG.	

See also CR 384



	T '41 O 4 1	:		
0	Title: Coast guard Version: 3	stations		
1	Encoding Guide Edition 2.5 Request for: ☐ an addition (e.g. new picture, new coding instruction or new real world entity, which is encoded by already existing object classes, attributes and attribute values, but requires no alteration of existing elements) ☐ a change (e.g. replacing a picture, illustration or an already existing text) ☐ an addition/change that affects the Feature Catalogue (edition2.5)			
2			o outulogu	
2	Sections A and B This is a request	Sections C to U This is a request referring to page (e.g.: C.1.5) of the Guide (Continue this page) for a new page R.3 (e.g.: E.1) Encoding Guide with 6 on this page the proposal on page after removing protection)	Encoding with 3 on in section of the (Continue e and add age 2	Section V to Z and Annexes AA to AF This is a request referring to section (Continue with 4 on this page) for a new Annex (Continue with 6 on this page and add the proposal on page 2 after removing form protection)
3	Definition	protection)		
	Picture: Tree Coding instru Object coding Illustration	uction lit. g of object class	⊠ IENC	
4	Proposed addition/ch Change title of Section		ns" to "Coa	stguard and Rescue Stations"
5	Proposed picture/illustration: Attach the file to the form, please. Name of file:			
6	Explanation, why this amendment/change is needed: The Dutch Rijkswaterstaat would like to encode Coastguard Stations The reason for including the coastguard center is that the Netherlands is actually an estuary. There are a lot of large inland waterways (i.e Wadden) that connect with coastal water, and that is why there are also coast guard centers to encode			
7	Proposed amendments to the Feature Catalogue: Add Hydro Feature CGUSTA with all attributes and enumerations.			o Feature CGUSTA with all
8	·	nts to the Inland ENC doma		- ,
9	Proposed amendments to the Recommended Validation Checks for IENCs: Add Hydro Feature CGUSTA with all attributes and enumerations.			
10	Proposed applicability: mark all applicable boxes US Europe (without Russia) Russia South America Asia (description of another area of applicability, e.g. a country)			
11	Name of sender: Rer			or comments 20191008 (6 weeks)
•	Name of authority or e-mail address: rene. Date (YYYYMMDD):	company: RWS .visser@rws.nl	To be filled	d in by a member of the Core Group: al adopted/ Proposal rejected ne part of edition 2.5 of the EG.



R - Services

R.3 Coastguard and Rescue Stations

R.3.2 Coastguard Station (O)

Watch keeping stations at which a watch is kept either continuously, or at certain times only. (IHO Chart Specifications, M-4)

Occarbine Consider Installant Consider Consider			
Graphics	Encoding Instructions	Object Encoding	
		Object Encoding	
Real World	A) If it is required to encode a		
	coastguard station, it must be done	Object Class = CGUSTA(P)	
Ė	using the feature Coastguard Station.	(M) COMCHA = [[XXXX];[XXXX];]	
	B) The Coastguard Station must only be used to describe the	(O) DATSTA = (Refer to Section J, DATSTA, DATEND, PERSTA and PEREND)	
	function of the coastguard station, independent of the building or structure itself. If it is required to	(O) DATEND = (Refer to Section J, DATSTA, DATEND, PERSTA and PEREND)	
Ol (Complete)	encode the building or structure in	(O) OBJNAM = [Name]	
Chart Symbol	which the coastguard	(O) NOBJNM = (Refer to Section B, General	
	operates, it must be done using an	Guidance)	
IENC Symbolization	appropriate feature (e.g. Building , Landmark). [1]	(O) STATUS = [2 (occasional, seasonal), 4 (not in use)]	
	C) Maritime Rescue and Coordination	/-	
	Centres (MRCC) are part of a constantly manned	(O) INFORM = (additional information)	
CG	communications watch system. If it	(O) NINFOM = (Refer to Section B, General	
	is required to encode a MRCC, it	Guidance)	
	should be done using Coastguard	(O) SCAMIN = [8000]	
	Station, with complex attribute	(O) TXTDSC = (external text file - English)	
	<pre>information (sub-attribute text) =</pre>		
	Maritime Rescue and Coordination	(O) NTXTDS = (external text file - Natl. language)	
	Centre. The name of the station	(O) SORDAT = [YYYYMMDD]	
	may be populated using the complex attribute feature name	(O) SORIND = (Refer to Section B, General	
	(sub-attribute name), e.g. <i>MRCC</i>	Guidance)	
	SepSwansea.	·	
	D) Each VHF-channel should be		
	indicated, using the attribute		
	communication channel		
	E) A Rescue Station should be		
	encoded using Rescue Station		
	(see R.3.1)		
	F) If a structured external XML-file with more detailed communication		
	information is available, the		
	reference to the file has to be		
	entered in the TXTDSC attribute.		
	G) Use STATUS if any of the		
	conditions apply.		



0	Title: Weed/ kelp Version: 2										
1	Encoding Guide Edition 2.5 Request for: an addition (e.g. new picture, new coding instruction or new real world entity, which is encoded by already existing object classes, attributes and attribute values, but requires no alteration of existing elements) a change (e.g. replacing a picture, illustration or an already existing text) an addition/change that affects the Feature Catalogue (edition 2.5)										
2	Sections A and B	Sections C to U	ature Oate	Section V to Z and Annexes AA to AF							
	This is a request referring to lit. for a new lit. (Continue with 4 on this page)		ation J.4 accoding ith 6 on after	This is a request referring to section (Continue with 4 on this page) for a new Annex (Continue with 6 on this page and add the proposal on page 2 after removing form protection)							
3	Definition Picture: real world paper chart IENC Coding instruction lit. Object coding of object class										
4	Proposed addition/change:										
5	Proposed picture/illus Attach the file to the f	stration: form, please. Name of file:									
6	The Dutch Rijkswater In recent years, the n	Explanation, why this amendment/change is needed: The Dutch Rijkswaterstaat would like to able to encode the presence of weed/kelp In recent years, the number of permanent places with seaweed has been growing. (Climate change?) Inland shipping is increasingly being hindered									
7	Proposed amendments to the Feature Catalogue: add HYDRO feature WEDKLP, with all attributes and enumerations. add ;CATWED = 1 (kelp), 2 (sea weed), 3 (sea grass), 4 (sargasso)										
8	Proposed amendmer	nts to the Inland ENC doma	in in the S-	100 registry:							
9	Proposed amendments to the Recommended Validation Checks for IENCs: : add HYDRO feature WEDKLP, with all attributes and enumerations. add ;CATWED = 1 (kelp), 2 (sea weed), 3 (sea grass), 4 (sargasso)										
10	Proposed applicability: mark all applicable boxes □ US □ Europe (without Russia) □ Russia □ South America □ Asia										
11	(description of Name of sender: Ren	an other area of applicabili									
	Name of authority or e-mail address: rene. Date (YYYYMMDD):	company: RWS visser@rws.nl	Deadline for comments 20191008 (6 weeks) To be filled in by a member of the Core Group: ☑ Proposal adopted/ ☐ Proposal rejected Will become part of edition 2.5 of the EG.								



J.4 Nature of Riverbed

J.4.2 Weed/Kelp (O)

- Seaweed is the general name for marine plants of the Algae class which grow in long narrow ribbons. (International Maritime Dictionary, 2nd Ed.)
- Kelp is one of an order (laminariales) of usually large, blade-shaped or vine-like brown algae. (IHO Dictionary, S-32, 5th Edition, 2611)

Graphics	Encoding Instructions	Object Encoding
Real World Chart Symbol	A) If it is required to encode the presence of weed or kelp, it must be done using the feature WEDKLP	Object Encoding Object Class = WEDKLP (P,A) (M) CATWED = [1 (kelp), 2 (sea weed), 3 (sea grass), 4 (sargasso)] (M) SCAMIN = [22000] (C) SORDAT = [YYYYMMDD] (C) SORIND = (Refer to Section B, General Guidance)
IENC Symbolization		



0		ormation in Facility files								
	CR number: 399 Version: 0 The next available CR number can be found in the currently valid Change Request List under the following URL:									
	https://docs.google.com/spreadsheets/d/1darzMTlkqN4nDWOetW_6vCuqbGukEvN_9XYohwB_QLE/edit?usp=sharing									
1	Encoding Guide Edition 2.4 Request for: (please enter the last published edition of the Encoding Guide)									
	an addition e.g. new picture, new coding instruction or new real world entity, which is encoded									
		bject classes, attributes and attribute values, but requires no alteration of								
	existing elements									
		lacing a picture, illustration or an already existing text								
	an addition/change that affects the Feature Catalogue edition (last published edition) an addition/change that affects the Portrayal Catalogue edition (last published									
	edition)	ge that affects the Portrayal Catalogue edition (last published								
2	Sections A and B	Sections C to U Section V to Z and Annexes AA to								
		AF								
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	referring to	referring to page(s) \square referring to section AF								
	lit. □	(e.g.: C.1.5) of the Encoding (Continue with 4 on this								
	for a new	Guide (Continue with 3 on page)								
	lit.	this page) for a new Annex for a new page in section (Continue with 6 on								
	(Continue with 4 on	for a new page in section (Continue with 6 on (e.g.: E.1) of the this page and add the								
	this page)	Encoding Guide (Continue) proposal on page 2 after								
	ino pago)	with 6 on this page and add removing form protection)								
		the proposal on page 2 after								
		removing form protection)								
3	Definition									
	Picture: re	—· · —								
	Coding instru									
	Illustration	g of object class								
4	Proposed addition/change:									
•	Add an additional field TimeZoneName at the end of the XSD element facility (after the field									
	communication_information) on page 298.									
	<pre><xs:element minoccurs="0" name="timezonename" type="xs:string"></xs:element></pre>									
	Use the TimeZone names as given in the Time Zone Database maintained by IANA (Internet									
		uthority) - https://www.iana.org/time-zones.								
	The change is backwards compatible meaning the existing facility files don't have to be									
	changed in order to validate against the new XSD									
5	Proposed picture/illustration:									
	Attach the file to the form, please. Name of file:									
6	Explanation, why this amendment/change is needed:									
	The times mentioned in the facility file are presumed to be in local time. Within RIS COMEX this									
	information is used for voyage calculation. For proper calculation these times are converted to UTC time. However the used timezone information is missing in the facility file.									
7	Proposed amendments to the Feature Catalogue:									
'		no to the realtine datalogue.								
8	Proposed amendments to the Inland ENC domain in the S-100 registry:									
		5 ,								
9	Proposed amendments to the Product Specification for Inland ENCs (main document):									
10	Proposed amendments to the Recommended Validation Checks for IENCs:									
10		its to the Neconfillenced validation Checks for IENCs.								
11	Proposed symbol(s):									
	Attach the file to the form, please. Name of file:									



12	Proposed applicability: mark all applicable boxes								
'-	S US								
	Europe (without Russia)								
	Russia								
	South America								
	(description of another area of application	bility, e.g. a country)							
13	3 Name of sender: Tony Daems Deadline for comments 20191018 (6 we								
	Name of authority or company: ALSIC BVBA								
	e-mail address: tony.daems@alsic.be	To be filled in by a member of the Core Group:							
	Date (YYYYMMDD): 20190906	□ Proposal adopted/ □ Proposal rejected							
		Will become part of edition 2.5 of the EG.							



CR number: 400	nide) ded n of on)						
 https://docs.google.com/spreadsheets/d/1darzMTlkgN4nDWOetW 6vCugbGukEvN 9XYohwB QLE/edit?usp=shar Encoding Guide Edition 2.4 Request for: (please enter the last published edition of the Encoding G an addition e.g. new picture, new coding instruction or new real world entity, which is enco by already existing object classes, attributes and attribute values, but requires no alteration existing elements ☑ a change e.g. replacing a picture, illustration or an already existing text ☑ an addition/change that affects the Feature Catalogue edition (last published edition) 	nide) ded n of on)						
Encoding Guide Edition 2.4 Request for: (please enter the last published edition of the Encoding G □ an addition e.g. new picture, new coding instruction or new real world entity, which is enco by already existing object classes, attributes and attribute values, but requires no alteration existing elements □ a change e.g. replacing a picture, illustration or an already existing text □ an addition/change that affects the Feature Catalogue edition (last published edition)	nide) ded n of on)						
□ an addition e.g. new picture, new coding instruction or new real world entity, which is enco by already existing object classes, attributes and attribute values, but requires no alteration existing elements □ a change e.g. replacing a picture, illustration or an already existing text □ an addition/change that affects the Feature Catalogue edition (last published edition)	ded n of on)						
existing elements a change e.g. replacing a picture, illustration or an already existing text an addition/change that affects the Feature Catalogue edition (last published edition)	on)						
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for a new Guide (Continue with 3 on page)							
	nex						
for a new page in section (Continue with the	on						
(Continue with 4 on (e.g.: E.1) of the this page and add							
this page) Encoding Guide (Continue proposal on page 2 a	fter						
with 6 on this page and add removing form protection	n)						
the proposal on page 2 after							
removing form protection)							
3 Definition							
Picture: real world paper chart IENC							
Coding instruction lit.							
Object coding of object class							
4 Proposed addition/change:							
Add an additional type TRemark to the XSD structure (page 315).							
(1.91.1)							
<xs:complextype name="TRemark"></xs:complextype>	<pre><xs:complextype name="TRemark"></xs:complextype></pre>						
<xs:simplecontent></xs:simplecontent>							
<xs:extension base="xs:string"></xs:extension>							
<pre><xs:attribute name="language" type="xs:string" use="optional"></xs:attribute></pre>							
The language can be filled in using an ISO-639 code (e.g. NL, EN,).							
Change all occurences of the field remark from (pages 298-315) from:							
<pre><xs:element minoccurs="0" name="remark" type="xs:string"></xs:element></pre>							
To:							
<pre><xs:element maxoccurs="unbounded" minoccurs="0" name="remark" type="TRemark"></xs:element></pre>							
The change is backwards compatible meaning the existing facility files don't have to be							
changed in order to validate against the new XSD							
5 Proposed picture/illustration:							
Attach the file to the form, please. Name of file:							
6 Explanation, why this amendment/change is needed:							
Sometimes additional information is given in the facility files for certain operation times with t	ie						
field Remark. However certain countries are obliged to give the information in different							
languages. The language indicator is usefull to indicate in which language the remarks are provided.							



7	Proposed amendments to the Feature Catalogue:								
8	Proposed amendments to the Inland ENC domain in the S-100 registry:								
9	Proposed amendments to the Product Specification for Inland ENCs (main document):								
10	Proposed amendments to the Recommended Va	alidation Checks for IENCs:							
11	Proposed symbol(s): Attach the file to the form, please. Name of file:								
12	Proposed applicability: mark all applicable boxes US Europe (without Russia) Russia South America Asia (description of another area of applicability, e.g. a country)								
13	Name of sender: Tony Daems Name of authority or company: ALSIC BVBA e-mail address: tony.daems@alsic.be Date (YYYYMMDD): 20190906	Deadline for comments 20191018 (6 weeks) To be filled in by a member of the Core Group: ☐ Proposal adopted/☐ Proposal rejected Will become part of edition 2.5 of the EG.							



0	Title: Indication of Target Group and Direction for operation time slot in Facility XML CR number: 401 Version: 0 The next available CR number can be found in the currently valid Change Request List under the following URL: https://docs.google.com/spreadsheets/d/1darzMTlkgN4nDWOetW 6vCugbGukEvN 9XYohwB QLE/edit?usp=sharing									
1	Encoding Guide Edition 2.5 Request for: (please enter the last published edition of the Encoding Guide) an addition e.g. new picture, new coding instruction or new real world entity, which is encoded by already existing object classes, attributes and attribute values, but requires no alteration of existing elements a change e.g. replacing a picture, illustration or an already existing text									
	an addition/change that affects the Feature Catalogue edition an addition/change that affects the Portrayal Catalogue edition (last published edition)									
2	Sections A and B	Sections C to U Section V to Z and Annexes AA to AF								
	This is a request referring to lit. for a new lit. (Continue with 4 on this page)	This is a request ☐ referring to page(s) (e.g.: C.1.5) of the Encoding Guide (Continue with 3 on this page) ☐ for a new page in section (e.g.: E.1) of the Encoding Guide (Continue with 6 on this page and add ☐ referring to section (Continue with 4 on this page) ☐ for a new Annex (Continue with 6 on this page and add the proposal on page 2 after removing form protection)								
		the proposal on page 2 after removing form protection)								
3	□ Definition □ Picture: □ real world □ paper chart □ IENC □ Coding instruction lit. □ Object coding of object class									
4	Illustration Proposed addition/cha	· ·								
	Add element target_group to complex type TTimeFrame (page 313) to XSD:									
	<pre><xs:element maxoccurs="unbounded" minoccurs="0" name="target_group" type="TTargetGroup"></xs:element></pre>									
	Add complex type TT	argetGroup to XSD structure (page 315ff) to XSD:								
	<pre><xs:complextype name="TTargetGroup"></xs:complextype></pre>									
	<pre><xs:element default="all vessels" name="target_group_code" type="TTargetGroupCode"></xs:element></pre>									
	<xs:documentation>Target group (vessel</xs:documentation>									
	type)									
		element> lement name="direction_code" type="TDirectionCode" default="all								
	directions">	<xs:annotation></xs:annotation>								
	both <th><xs:documentation>Upstream or downstream traffic, or on></xs:documentation></th>	<xs:documentation>Upstream or downstream traffic, or on></xs:documentation>								



```
</xs:complexType>
    Add simple type TTargetGroupCode (page 315ff) to XSD:
    <xs:simpleType name="TTargetGroupCode">
            <xs:restriction base="xs:string">
                    <xs:enumeration value="all vessels"/>
                    <xs:enumeration value="commercial vessels"/>
                    <xs:enumeration value="passenger vessels"/>
                    <xs:enumeration value="pleasure crafts"/>
                    <xs:enumeration value="small crafts"/>
                    <xs:enumeration value="convoys"/>
                    <xs:enumeration value="pushed convoys"/>
                    <xs:enumeration value="convoys with dangerous goods"/>
                    <xs:enumeration value="vessels with dangerous goods"/>
                    <xs:enumeration value="motorized vessels"/>
                    <xs:enumeration value="non-motorized vessels"/>
            </xs:restriction>
    </xs:simpleType>
    Add simple type TDirectionCode (page 315ff) to XSD:
    <xs:simpleType name="TDirectionCode">
            <xs:restriction base="xs:string">
                    <xs:enumeration value="all directions"/>
                    <xs:enumeration value="upstream"/>
                    <xs:enumeration value="downstream"/>
            </xs:restriction>
    </xs:simpleType>
    The change is backwards compatible meaning the existing facility files don't have to be
    changed in order to validate against the new XSD.
    Proposed picture/illustration:
    Attach the file to the form, please. Name of file:
    direction code.JPG
    target_group_code.JPG
    TTargetGroup.JPG
    TTimeFrame.JPG
    Explanation, why this amendment/change is needed:
    The CR results out of a requirement for RIS COMEX. Often facilities like locks or operable
    bridges reserve certain time slots for certain vessels (either specific vessel types or from a
    certain direction). It is important for voyage planning software to know, which vessels can pass
    at what time in order to find ideal routes and calculate realistic ETAs.
    Proposed amendments to the Feature Catalogue:
    Proposed amendments to the Inland ENC domain in the S-100 registry:
8
9
    Proposed amendments to the Product Specification for Inland ENCs (main document):
    Proposed amendments to the Recommended Validation Checks for IENCs:
    Proposed symbol(s):
    Attach the file to the form, please. Name of file:
    Proposed applicability: mark all applicable boxes
            US
            Europe (without Russia)
            Russia
            South America
```



	(description of another area of applicabilit	y, e.g. a country)		
13	Name of sender: Jonathan Gallagher	Deadline for comments 20191018 (6 weeks)		
	Name of authority or company: viadonau			
	e-mail address:	To be filled in by a member of the Core Group:		
	jonathan.gallagher@viadonau.org	□ Proposal adopted/ □ Proposal rejected		
	Date (YYYYMMDD): 20190906	Will become part of edition 2.5 of the EG.		



0	Title: MMSI and AtoN type for buoys and beacons CR number: 402 Version: 0 The next available CR number can be found the currently valid Change Request List under the following URL:									
1	https://docs.google.com/spreadsheets/d/1darzMTlkqN4nDWOetW_6vCuqbGukEvN_9XYohwB_QLE/edit?usp=sharing Encoding Guide Edition 2.4 Request for: (please enter the last published edition of the Encoding Guide) an addition e.g. new picture, new coding instruction or new real world entity, which is encoded by already existing object classes, attributes and attribute values, but requires no alteration of existing elements									
	□ a change e.g. replacing a picture, illustration or an already existing text □ an addition/change that affects the Feature Catalogue edition 2.5 (last published edition) □ an addition/change that affects the Portrayal Catalogue edition (last published edition)									
2	Sections A and B		Section V to Z and Annexes AA to AF							
	This is a request referring to lit. for a new lit.	This is a request ☐ referring to page(s) O.1.1, O.1.3, O.1.5, O.1.9, O.1.2, O.2.1 , O.4.1 (e.g.: C.1.5) of the Encoding Guide (Continue with 3 on	This is a request referring to section (Continue with 4 on this page) for a new Annex (Continue with 6 on							
	(Continue with 4 on this page)	this page) for a new page in section (e.g.: E.1) of the Encoding Guide (Continue with 6 on this page and add the proposal on page 2 after removing form protection)	this page and add the proposal on page 2 after removing form protection)							
3	□ Definition □ Picture: □ re □ Coding instruc □ Object coding □ Illustration	_ · ·)							
4	type TE (free text), un	SI number), 9 digits (characters), Forma	, -							
5	Proposed picture/illustration: Attach the file to the form, please. Name of file:									
6	Explanation, why this amendment/change is needed: Like in maritime ECDIS (S-101, Annex A) we also need an unique MMSI (Maritime Mobile Service Identity) code for Real AIS AtoNs (aids to navigation) in Inland ECDIS in order to uniquely identify the objects and to unambigosly associate AIS-AtoN messages. ECDIS manucfactures have to place different symbols depending on their type (AtoN, real AIS AtoN, virtual AIS AtoN) and current position (on position, off position, missing). The off position symbol is placed where the AtoN actually IS, but should not be at this position. The missing symbol is placed where the AtoN should be, but is not found there any more. Using MMSI numbers objects can be identified in Inland ECDIS and AtoN types be represented in the IENC differently.									
7	Proposed amendments to the Feature Catalogue: Add optional attributes mmsion and typath to feature classes bcnlat, boylat, BOYLAT and BOYSPP									
8	Proposed amendmen	ts to the Inland ENC domain in the S-10	00 registry: typatn							
9	Proposed amendments to the Product Specification for Inland ENCs (main document):									
10		its to the Recommended Validation Che d typatn to feature classes bcnlat, boyla								
11	Proposed symbol(s): Attach the file to the form, please. Name of file:									



	Inland_AtoN_Station_symbols.xlsx (AtoNs on position, off position, missing),								
	AIS_AtoN.jpg: attach in Encoding Guide, chapter O.1.1								
12	Proposed applicability: mark all applicable boxes								
	US								
	Europe (without Russia)								
	Russia								
	South America								
	Asia	Asia							
	(description of another area of applicability	ty, e.g. a country)							
13	Name of sender: Wieland Haupt	Deadline for comments 20191023 (6 weeks)							
	Name of authority or company: WSV, Germany	, , ,							
	e-mail address: wieland.haupt@wsv.bund.de	To be filled in by a member of the Core Group:							
	Date (YYYYMMDD): 20190911	□ Proposal adopted/ □ Proposal rejected							
	, ,	Will become part of edition 2.5 of the EG.							

Action point: Wieland Haupt to check with VTT whether "real AtoN" can be replaced by "physical AtoN", because this is the more accurate term nowadays used in the maritime area.



Code	Definition Maritime		Code	CEVNI code	on pos-o	miss-m	off pos-f	Name
0	Default, Type of AtoN not specified		0					Default, Type not specified
1	Reference point		1	4.A + 4.B	TOPMA1060	missing (=) TOPMA106M	Off Posn	Channel near the right bank
2	RACON		2	5.A + 5.B	TOPMA1080	missing	Off Posn	Channel near the left bank
3	Fixed structures off- shore, such as oil platforms, wind farms. (NOTE 1 – This code should identify an obstruction that is fitted with an AtoN AIS station)	fixed aids, landmarks	3	4.C + 4.D	TOPMA1000	missing (m)	Off Posn TOPMA110F	Cross-over right bank
4	Emergency Wreck Marking Buoy		4	5.C + 5D	TOPMA1120	missing	Off Posn TOPMA112F	Cross-over left bank
8	Leading Light Rear		5	8.C - 8.C2	BOYINL080	missing	Off Posh BOYINLO8F	Bridge pillar



9	Beacon, Cardinal N		6	8.C3 + 8.C4	BOYINL080	missing BOYINL08M	Off Posh BOYINLO8F	Overhead cable
10	Beacon, Cardinal E		7	1.A - 1.D	BOYINL010	missing BOYINL01M	Off Posn BOYINL01F	Buoy right-hand side
11	Beacon, Cardinal S		8	2.A - 2.D	BOYINL020	missing A BOYINL02M	Off Posn	Buoy left-hand side
12	Beacon, Cardinal W	ng aids	9	3.A - 3.D	BOYINL03O	missing	Off Posn BOYINL03F	Bifurcation
13	Beacon, Port hand	floating	10	3.E1 + 3.F1	BOYINL03OR	missing BOYINL03MR	Off Fosh BOYINLO3FR	Bifurcation, pass right-hand side
14	Beacon, Starboard		11	3.E + 3.F	BOYINLO3OL	missing	Off Posn BOYINL03FL	Bifurcation, pass left-hand side
15	Beacon, Preferred Channel port hand		12	1.F + 1.F1	(missing	Off Posn	Danger point or obstacle right-hand side



					BOYLAT260	BOYLAT26M	BOYLAT26F	
	Beacon, Preferred Channel starboard		13	2.F + 2.F1	♦	missing (Å)	Off Posn	Danger point or obstacle left-hand side
16	hand				BOYLAT270	BOYLAT27M	BOYLAT27F	
	Beacon, Isolated		14	-	(4)	missing	Off Posn	Berth right-hand side
17	danger				DFND010	DFND01M	DFND01F	
			15	-	\langle	missing	Off Poan	Berth left-hand side
18	Beacon, Safe water				DFND02O	DFND02M	DFND02F	
			17	A.1		miss ng	Olf Poen	No entry, combined with direction of impact
19	Beacon, Special mark	other			NMKPRB02O + DIRIMP	NMKPRB02M + DIRIMP	NMKPRB02F + DIRIMP	
			20	-	\Diamond	missing	Off Posn	Signal float
23	Cardinal Mark W				SIGFLT010	SIGFLT01M	SIGFLT01F	
24	Port hand Mark	reserv	21					Reserved for future use
25	Starboard hand Mark	res	22					Reserved for future use



26	Preferred Channel Port hand	23	3	Reserved for future use
27	Preferred Channel Starboard hand	24	4	Reserved for future use
28	Isolated danger	25	5	Reserved for future use
29	Safe Water	26	6	Reserved for future use
		27	7	Reserved for future use
		28	8	Reserved for future use
		29	9	Reserved for future use
31	Light Vessel/LANBY/Rigs	30	0	Reserved for future use

