

Using the ADMIRALTY Vector Chart Service with the PC Maritime ECDIS

This guide is based on the NAVMASTER ECDIS Version 7.1.0.27

The guide should be used in conjunction with the AVCS User Guide, as well as the ECDIS Operators Manual or other documentations as supplied by the equipment manufacturer



Version 1.0

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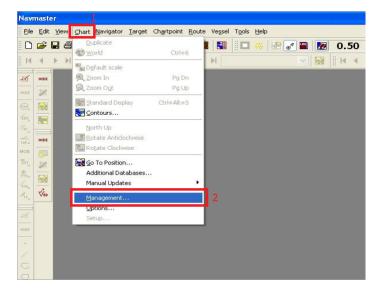
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PC Maritime NAVMASTER

1 Data Management

All Data Management within the PC Maritime ECDIS is undertaken within the 'Chart Management' window.

- 1. Select the 'Chart' option from the menu at the top of the screen.
- 2. From the dropdown select 'Management...'



This will open the 'Chart Management' window.

-57 CM-ENC Charts	Chart Updat	es History	
Licence Encrypted Ur	encrypted		
Install Maintenance			
Cell Name	Expiry	Permit	Permits Install
			Delete
			Base/Update
			Copy
			✓ and
			Install
<		>	View Log

Note: All electronic chart licensing and data management operations are carried out through the *"Chart Management"* window.

To check the ECDIS Software Version:

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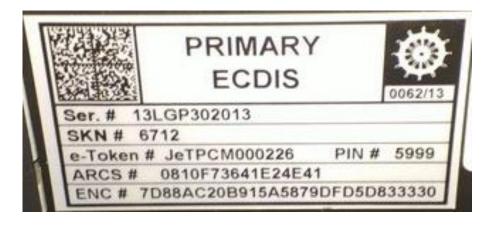
2 The User Permit Number (UPN)

The 'User Permit Number' is a 28 character alphanumeric string that is unique to each ECDIS installation or group of ECDIS, e.g. multiple bridge installations. The 'User Permit Number' should have been supplied at the time of delivery and must be used when ordering an AVCS license.

It is not possible to view or retrieve the User Permit Number from the PC Maritime NavMaster. The User Permit Number will have been provided at the time of installation and should be noted within the ECDIS User Manual.

The User Permit Number can be found on the processor label on the ECDIS case as below:





3 The Public Key

The Admiralty Vector Chart Service currently uses the IHO.CRT, issued by the International Hydrographic Organization, to authenticate its AVCS ENCs. The IHO Public Key is included in all AVCS media.

To view and install the IHO Public Key:

- 1. Select 'Management...' from the 'Chart' Menu
- 2. Select the 'ENC' tab
- 3. Select 'S-57' tab
- 4. Select the 'Encrypted' tab
- 5. Select the 'Maintenance' tab
- 6. Select 'View'

Lice Encrypted Une	
SA Security Certificate/P	ublic Key Install View
	Issue Week Publication D Number

The installed Public Key will then be displayed.

ertificate	? 🛛
General Details Certification Path	
Eertificate Information	
This certificate is intended for the following purpose • All issuance policies • All application policies	(s):
Issued to: IHO S-63 Scheme Administrator	_
Issued by: IHO 5-63 Scheme Administrator	
Valid from 06/02/2013 to 03/03/2033	
Install Certificate) Issuer S	tatement
(ок

PC Maritime NAVMASTER

If the Public Key currently installed differs from the IHO.CRT the user will need to install the IHO.CRT. To do this insert any AVCS S63 1.1 Base or Update CD into your ECDIS and follow the steps below:

- 1. Select 'Management...' from the 'Chart' Menu
- 2. Select the 'ENC' tab
- 3. Select the 'S-57' tab
- 4. Select the 'Encrypted' tab
- 5. Select the 'Maintenance' tab
- 6. Select the 'Install' tab

Install Maintenance 5 5A Security Certificate/Public Key Install 6 Exchange sets copied
Data Server Id/Type Issue Week Publication D Number
ilities

- 7. This will open a file selection dialog headed 'Select SA certificate file'
- 8. Locate and select the IHO.CRT and click 'Open'

Select the SA	certificate file				2 🛛
Look in	C 😃 DVD-RAM	Drive (D:)	~	0000	•
My Recent Documents	ENC_ROOT	7			
Desktop					
My Documents					
My Computer					
	File name:	IHO		*	Open
My Network	Files of type:	Certificate files (*	.crt)	~	Cancel

9. You will then be asked 'Do you have a public key to install?'. Click 'Yes'.



10. Select the IHO.PUB file from the appropriate location and click 'Open'.

Select the publ	ic key file					? 🛛
Look in:	01×01 (D:)	~	0 🦻	19 🛄 -	
My Recent Documents Desktop	ENC_ROOT	10				
My Documents						
My Computer						
My Network	File name: Files of type:	IHO Public Key files (*.pub;*	f.txt)		<!--</td--><td>Open Cancel</td>	Open Cancel

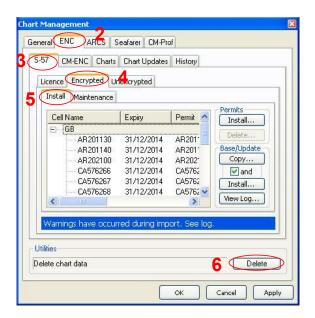
The IHO.CRT and the IHO.PUB files have now been installed and AVCS data can be loaded into the ECDIS.

4 **Deleting ENC Data**

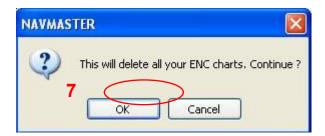
New AVCS customers who had previously subscribed to other ENC services are required to remove (purge) all ENC Permits and data from the system before installing AVCS.

To delete all ENCs data from the system:

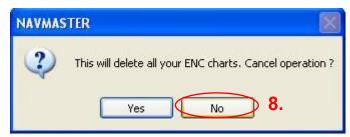
- 1. Select 'Management...' from the 'Chart' Menu
- 2. Select the 'ENC' tab
- 3. Select the 'S-57' tab
- 4. Select the 'Encrypted' tab
- 5. Select the 'Install' tab
- 6. Select 'Delete'



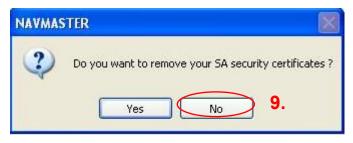
7. Select 'OK'



8. Select 'No'



9. Select 'No'



All ENC data will then be deleted from the system.

neral E 5-57 (Licence		s Chart Updal Unencrypted	Prof History	
Cell	Name	Expiry	Permit	Permits Install Delete Base/Update Copy V and Install View Log
Utilities Delete ch	art data		ок] [Delete Cancel Apply

10. To delete selected ENC data from the system: Carry out the above steps but only select the ENCs that require deleting from the display table before selecting 'Delete' in Step 6.

5 Deleting ENC Permits

If the user has previously subscribed to another ENC service please remove these ENC permits from the ECDIS system before use. The user must select the cells for which permits are to be deleted. In most instances this will simply involve selecting all cells. In certain circumstances it may be required to remove permits for individual cells, in this case simply select the cells for which permits need to be deleted.

To delete ENC Permits:

- 1. Select 'Management...' from the 'Chart' Menu
- 2. Select the 'ENC' tab
- 3. Select 'S-57' tab
- 4. Select the 'Encrypted' tab
- 5. Select the 'Install' tab
- 6. Highlight the permit folder required for deletion and select the 'Delete' option from the 'Permits' section

Install	Maintenance		3	Permits
Cell Na	ame	Expiry	Permit 🔼	Install
	1[GB]			
6	AR20	31/12/2014	AR201	Delete
	AR20	31/12/2014	AR201	Base/Update
	AR20	31/12/2014	AR202	Copy
	CA576	31/12/2014	CA5762	✓ and
	CA576	31/12/2014	CA5762	Install
	CA576	31/12/2014	CA5762 😒	
<	100		>	View Log
<	CA576	7,80,67,000,718,03	CA5762 😒	View Log

7. Select 'OK'



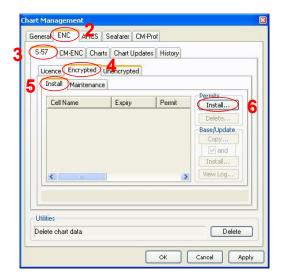
The selected permits will then be deleted.

6 Installing ENC Permits

Note: Ensure the correct Permit is installed into the ECDIS workstation.

To install AVCS ENC Permits:

- 1. Select 'Management...' from the 'Chart' Menu.
- 2. Select the 'ENC' tab
- 3. Select the 'S-57' tab
- 4. Select the 'Encrypted' tab
- 5. Select the 'Install' tab
- 6. Select 'Install ... '



7. Locate and select the 'PERMIT.TXT' file for installation and click 'Open'

Select permit	file location				? 🛛
Look in	c 🗢 Removable	Disk (E:)	~	000	
My Recent Documents	PC Maritime	7			
Desktop					
My Documents					
My Computer					
	File name:	PERMIT		~	Open
My Network	Files of type:	Cell permit files (*.pmt;*.b	:t)	~	Cancel

8. The ECDIS will then install the PERMIT.TXT file. The cell permits will display under a '1[GB]' folder within 'Chart Management'.

S-57 CM-ENC Charts C Licence Encrypted Unen Install Maintenance	hart Updates H	listory	
Cell/Name	Expiry	Pen	Permits Install
Unassigned] - 1(GB) - AR201130 - AR201140 - AR202100 - CA576266 - CA576267	31/12/2014 31/12/2014 31/12/2014	AR: AR: CAE CAE	Delete Base/Update Copy I and Install View Log
Utilities Delete chart data			Delete

7 Installing AVCS DVDs

There are currently 2 AVCS DVD Media. AVCS DVD Media contain all the latest Base and Update data. It is likely that users will need to install both DVDs in order to load all licensed ENCs. Reference to the Schedule A can avoid the unnecessary loading of both DVDs and save the user time.

The process described here should be used in almost all circumstances as it will automatically select data to be loaded according to the permit file installed by the user.

Note: Ensure the latest permits have been installed before attempting to install any data

To install AVCS DVD Media:

- 1. Select 'Management...' from the 'Chart' Menu.
- 2. Select the 'ENC' tab
- 3. Select the 'S-57' tab
- 4. Select the 'Encrypted' tab
- 5. Select the 'Install' tab. Insert the AVCS DVD into the Drive
- 6. Select the 'GB' folder that click 'Install..'

Instal	Maintenance			
Cell	Name	Expiry	Permit 🔼	Permits
	GB	damini	·	
	ZA5N0010	31/12/2014	ZA5N0	Delete
	ZA5N0020	31/12/2014	ZA5N0	Base/Update
	AR201130	31/12/2014	AR2011	Copy
	AR201140	31/12/2014	AR2011	and
	AR202100	31/12/2014	AR202	Install
	CA576266	31/12/2014	CA5762 🗸	
<	100	00/07/20/20/07/07	>	View Log
		or occured d		And a local
	14160210	ee occupied o	and here of	000 000

7. Select 'A single Exchange Set' and 'OK'

Are you installing from :			
7 <	A single Exchange Set Multiple Exchange Sets		
Explanation			
An Exchange set	is a group of ENC cells and/or updates.		
	e Set is where the data you are installing is his could be on CD, DVD, NavStick, hard ory stick.		
is in more than or	e Sets is where the data you are installing re location. This could be multiple base and an update CD, or more than one folder SB memory stick.		
	7 OK Cancel		

8. Select 'Drive'

	Chart Source Selection	on 🔀
	Select data source	
8	Drive Browse	Cancel

9. Insert the latest AVCS DVD into the drive and select 'OK'

NAVMAS	STER 🛛 🔀
(j)	Please insert the latest Update or Base set disc
9	OK Cancel

The ECDIS will then install all of the licenced AVCS cells from the AVCS DVD.

S-57 CM-ENC Cha Licence Encrypted Install Maintenan	unencrypted	tes History	
Cell Name	Expiry	Permit	Permits Install Delete Base/Update Copy ✓ and Install View Log
Warnings have oc Utilities Delete chart data	curred during i	mport. See lo	g, Delete

8 Installing AVCS Base CDs

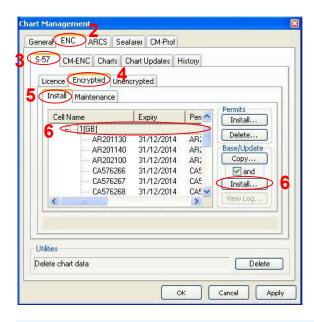
There are currently 9 *AVCS Base CDs* but this number will grow as more ENCs become available for distribution within AVCS. It is unlikely that users will need to install all of the CDs in order to load all licensed ENCs. Reference to the *Schedule A* can avoid the unnecessary loading of some CDs and save the user time.

The process described here should be used in almost all circumstances as it will automatically select data to be loaded according to the permit file installed by the user.

Note: Ensure the latest permits have been installed before attempting to install any data

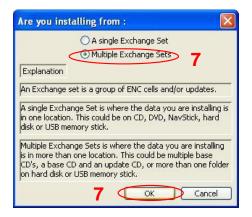
To install AVCS Base CD:

- 1. Select 'Management...' from the 'Chart' Menu
- 2. Select the 'ENC' tab
- 3. Select the 'S-57' tab
- 4. Select the 'Encrypted' tab
- 5. Select the 'Install' tab. Insert the first AVCS Base CD into the drive.
- 6. Select the '1[GB]' folder and click 'Install..'.



Note: If the 'Copy...' and 'Install...' buttons are greyed out then AVCS permits have not been installed

7. Select 'Multiple Exchange Sets' and click 'OK'



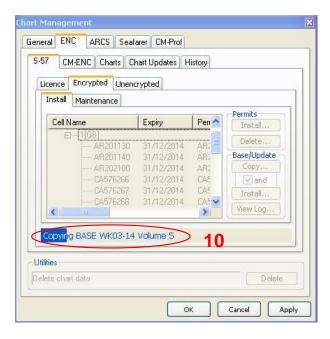
8. Select 'Drive' from the 'Chart Source Selection' window

	Chart Source Selection	in 🔀
	Select data source	
3	Drive Browse	Cancel

9. Make sure that the latest AVCS Base media is in the CD Drive and click 'OK'



10. 'Chart Management' will then copy the required data from the AVCS Base media



11. Once completed the ECDIS will ask for the next AVCS Base media. Insert the AVCS Base media relating to the message and click *OK*'

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Note: Only install the AVCS Base Media required as per the **Schedule A**. If the AVCS Base Media mentioned in the 'Navmaster' message does not require installation click 'Cancel', this will then change to the next AVCS Base Media in numerical order. Repeat the process as required

12. The NavMaster will then ask whether you have recent update media. Select 'No'.

NAVMAS	STER 🛛
?	Do you have recent UPDATE media as well?
	Yes No 12

Note: It is possible to install AVCS Update Media at this point if required. Simply insert the AVCS Update Media as directed and select 'Yes' this will then copy the Update Media across and then install all copied data.

The NavMaster ECDIS then completes the installation.

Licence	L	ts Chart Updates		
Cell	Maintenance Name 38 [Unassigned]	Expiry	Permit	Permits Install Delete Base/Update Copy V and
	 41 ().	a for manage or a comm	S. B. S. Cathoorto	Install View Log
Utilities				

Note: Make sure that all the required AVCS Base CDs have been inserted and the import operations completed before installing the latest Update CD. Updates cannot be applied unless the ENC base file is present in the system database.

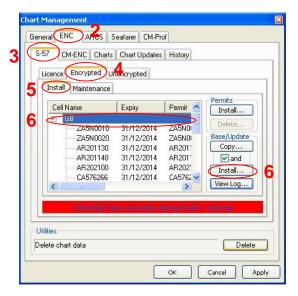
9 Installing AVCS Update CD

Note: The AVCS update disc will indicate which Base disc week must have been installed. It is important that users do not attempt to load an Update CD that is not consistent with the Base CDs

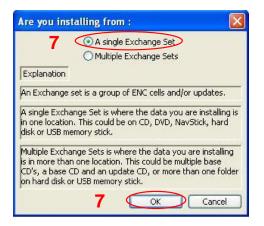
Note: Check the AVCS Update CD for the required Base CDs to be applied first.

To install AVCS Update CD:

- 1. Select 'Management...' from the 'Chart' Menu.
- 2. Select the 'ENC' tab
- 3. Select the 'S-57' tab
- 4. Select the 'Encrypted' tab
- 5. Select the 'Install' tab. Insert the AVCS Update CD into the Drive
- 6. Select the '1[GB]' folder that click 'Install..'



7. Select 'A single Exchange Set' and click 'OK'



8. Select 'Drive'



9. Insert the latest AVCS Update CD and click 'OK'

NAVMAS	STER	X
(j)	Please insert the latest Update or Base set	disc
9	OK Cancel	_,

10. Insert the Base CD requested and click 'OK'



Note: Repeat this step if directed to do so by the ECDIS.

11. The update will then complete and any updates will be applied.

ence Encrypted	Unencrypted		
Cell Name	Expiry	Permit 🔼	Permits Install
E GB	<u>.</u>		
	31/12/2014	ZA5N0	Delete
ZA5N0020	31/12/2014	ZA5N0	Base/Update
AR201130	31/12/2014	AR2011	Copy
AR201140	31/12/2014	AR2011	and
AR202100	31/12/2014	AR202	Install
CA576266	31/12/2014	CA5762 😒	
<	and the second second	>	View Log
	Derating T	123414-02	
	1992 912 6	8.26344 (F	
ies			

10 Installing Exchange Set using USB Stick

The exchange set contained the latest Notices to Mariners' corrections, New Editions and New Charts issued since the last update for their AVCS holdings. The exchange set can be downloaded using online chart updating software.

To install AVCS/AIO Exchange Set using USB Stick:

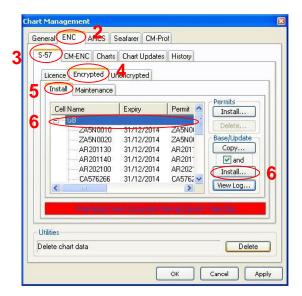
Note: Do not save PERMIT.TXT together with the ENC/AIO Exchange Set.

Note: The AVCS update disc will indicate which Base disc week must have been installed. It is important that users do not attempt to load an Update CD that is not consistent with the Base CDs

Note: Check the AVCS Update CD for the required Base CDs to be applied first.

To install AVCS Update CD:

- 1. Select 'Management...' from the 'Chart' Menu.
- 2. Select the 'ENC' tab
- 3. Select the 'S-57' tab
- 4. Select the 'Encrypted' tab
- 5. Select the 'Install' tab. Insert the USB into the ECDIS
- 6. Select the '1[GB]' folder that click 'Install..'



7. Select 'A single Exchange Set' and click 'OK'



8. Select 'Browse'

	Chart Sou	rce Selectio	n 🔀
	Select data	source	
8	Drive	Browse	Cancel

9. Locate the folder within the exchange set named "V01X01".

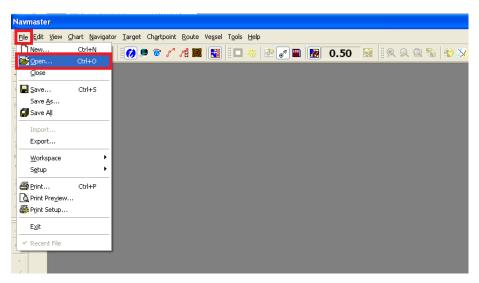
Note: Repeat this step if directed to do so by the ECDIS.

10. The update will then complete and any updates will be applied.

11 Viewing an ENC

To view ENC data:

- 1. Select "File"
- 2. Select "Open"



3. Select "Chart" under the "Look in" table.

Open				
3 Look in	_	n Files\Navmasti abal Folio	er\Charts	× 🖻 🔹
Chart	Type ENC ENC	Chart 5G5C4044 5G5C4043	Scale 1:22000 1:22000	Description
Chartpoint	ENC ENC	SG5C4041 SG5C4039 SG5C4037	1:22000	
Route	ENC ENC ENC ENC ENC	5G5C4037 5G5C4035 5G5C4034 5G5C4033 5G5C4032	1:8000 1:8000 1:8000 1:8000 1:8000 1:8000	J +
Log	<	Ш	Find (Match case
				5 Cancel

- 4. Highlight the ENC in the selection table.
- 5. Select "Open".

12 Installing AIO Permits

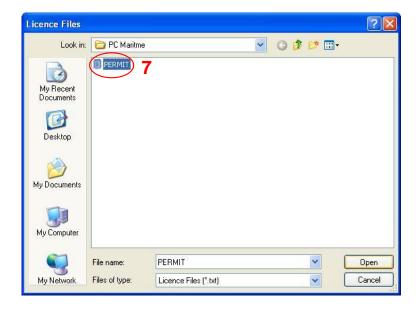
To install AIO Permits:

The Admiralty Information Overlay (AIO) should only be installed when the relevant AVCS S-63 1.1 Data has been installed. The PC Maritime ECDIS links the AVCS and AIO data and therefore both sets of data should be of the same week.

- 1. Select 'Management...' from the 'Chart' Menu.
- 2. Select the 'ENC' tab
- 3. Select the 'S-57' tab
- 4. Select the 'Encrypted' tab
- 5. Select the 'A/O' tab
- 6. Select the '...'

Gener	7 CM-ENC Charts Chart Updates History
Li	cence Encrypted Unencrypted
	Install Maintenance AIO 5
	Currently Installed To:
	Varnings have occurred during import. See log.
Utili	lies
Del	ete chart data

7. Locate and select the 'PERMIT.TXT' file for installation and click 'Open'



8. Select 'Install'

Chart Management 🛛 🛛 🛛 🛛						
General ENC ARCS Seafarer CM-Prof						
S-57 CM-ENC Charts Chart Updates History						
Licence Encrypted Unencrypted						
Install Maintenance AIO						
Currently Installed To:						
Location of Permits E:\PC Maritme\PERMIT.TXT						
Location of Permits E:\PC Maritme\PERMIT.TXT						
View Log Delete						
Warnings have occurred during import. See log.						
Utilities						
Delete chart data Delete						
OK Cancel Apply						

13 Installing AIO CD

To install AIO CD:

1. Select 'Install'

Chart Management 🛛 🛛 🔀					
General ENC ARCS Seafarer CM-Prof					
S-57 CM-ENC Charts Chart Updates History					
Licence Encrypted Unencrypted					
Install Maintenance AIO					
Currently Installed To:					
Location of Permits E:\PC Maritme\PERMIT.TXT					
1 Install					
View Log					
Warnings have occurred during import. See log.					
Utilities					
Delete chart data Delete					
OK Cancel Apply					

2. Select 'Drive'



3. Insert the AIO Media as requested and select 'OK'



Note: To successfully install the AIO the data must be of the same week as the AVCS data that has been installed.

The AIO data will then start to install.

cence Encrypted	Unencrypted	
Install Maintena		
Currently Ir	nstalled To:	
Location of Perm	nits E:\PC Maritme\PERMIT.TXT	
	The second second second second	-
		Install
		Install Delete
opying AIO CD .	View Log	
opying AIO CD . ies	View Log	

Once completed the PC Maritime ECDIS will display the week number of the data that is currently installed as well as the Edition and Update number of the installed data.

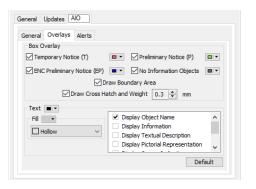
t Management eneral ENC ARCS Seafare	CM-Prof
S-57 CM-ENC Charts Chart	Updates History
Licence Encrypted Unencryp	ated
Install Maintenance AIO	
Carrently Installed To:	Week 12/14 : 20 March 2014
	Edition 19, Update 24
Location of Permits E:\PC	Maritme\PERMIT.TXT
	Install
	View Log Delete
Utilities	
Delete chart data	Delete
	OK Cancel App

14 Using the AIO

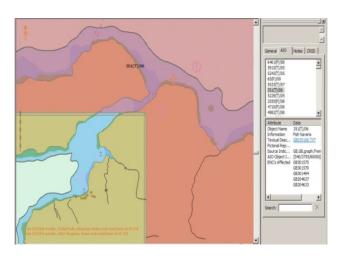
To enable AIO data:

Nav	master						
-	Edit View	Chart lavigator Target	Ch <u>a</u> rtpoint <u>R</u> ou	e Vegsel Tgols Help		1 65 N	
8 🗆		world	Ctrl+6	l 📰 :: L 😪 🕾 💽 🖷	0.50	8 🖤 📈 MOB 8	💽 💽 💽 👘 🕴
431	HIDE	Default scale					
HIDE	32.	🔍 Zoom In	Pg Dn				
		🔍 Zoom Out	Pg Up				
-EBL		Standard Display	Ctrl+Alt+S				
//p1_x	_	Contours					
100 a	HIDE	North Up					
MOB EVT.		Rotate Anticlockwise					
⊕ ₽95,	22						
PRIA.		Go To Position					
$\mathcal{A}_{\mathrm{TS}_{d}}^{\mathcal{C}}$	Viso	Manual Updates	•				
ح	1	AIO		The Thirty objects	_		
HIDE		Management		Display Temporary Notice AIO Display Preliminary Notice AIO			
		Options		 Display Preliminary Notice AIO Display ENC Preliminary Notice A 	10		
		Setup		✓ Display № Information Objects			
				Quick View			

To view AIO data:



Once you have completed the above steps and enabled the AIO the user will see the default red polygons as shown below. The AIO number is shown in black text centralized over the polygon. The information can be interograted as shown in the right hand table.



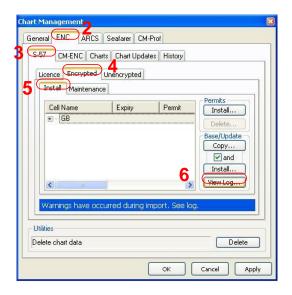
15 Systems Checks

The user has the option to review the status of all installed ENCs from within the ECDIS Chart Portfolio dialog as follows:

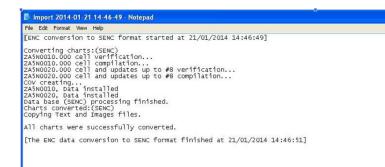
To generate the installed charts status report:

The PC Maritime NavMaster will produce a log at the end of every install action whilst in 'Chart Management'. This report log provides the User with information about the process that has just completed, within this report details can be obtained relating to any issues encountered during the install or update of ENC's. This can be extremely useful to identify why cells have failed to install. To view the log file follow the below instructions.

- 1. Select 'Management...' from the 'Chart' Menu.
- 2. Select the 'ENC' tab
- 3. Select the 'S-57' tab
- 4. Select the 'Encrypted' tab
- 5. Select the 'Install' tab.
- 6. Select 'View Log'



The ECDIS will then display the most recent log for review.



16 Troubleshooting

Many of the difficulties that could be experienced when using the Admiralty Vector Chart Service with this system can be avoided by carefully following the instructions in this guide. However, issues that are known to have caused confusion in the past are detailed in the Frequently Asked Questions (FAQ) section which can be found at:

http://www.admiralty.co.uk

If you encounter problems that are not solved by referring to the FAQs, you may wish to seek Technical Support. Please see the section below for contact details.

Who should you contact?

You will receive the most effective support if you address your initial query to either the Manufacturer of your ECDIS equipment or the Chart Agent you obtain your AVCS charts from, but in certain circumstances you may need to contact the UKHO Customer Services.

Problem	Contact
Hardware problems: difficulties with the keyboard, mouse, display or main system console, failure of a floppy disk or CD drive.	ECDIS Manufacturer
Software problems: difficulties with configuring or using the ECDIS system software, interfacingproblems.	
Chart installation problems: problems with installing certificates, permits and AVCS ENCs, standard error codes displayed (see AVCS User Guide).	Admiralty Chart Agent
Chart content problems: display anomalies or mismatched data displays.	
Problems that have not been resolved by your Admiralty Chart Agent.	UKHO Customer Services

When reporting a chart related problem it is useful if you can provide the following details :

- > Licence number
- > Vessel name
- > IMO
- > ECDIS/Software Manufacturer
- > ECDIS software version
- > Details of error message Including 'SSE' error code
- > Screen shot(s) of error
- > Details of Base CD or DVD Discs used (week)
- > Details of Update CD used (week)
- > Details of Permits used (week)
- > Details of Cell number(s) errors apply to
- > Have there been any configuration changes to system(s)
- > Details of User Permit(s) and PIN Number(s)

Emergency Chart Permit Generation

In certain circumstances it may be necessary for a vessel to get access to an AVCS chart at very short notice, for instance if a route needs to be **diverted due to a medical or safety emergency**.

In these emergency circumstances only, individual AVCS ENC Permits can be obtained from the UKHO 24 hours a day, 365 days a year.

To obtain an AVCS emergency permit please quote:

- Vessel Name
- ECDIS User Permit Number
- Required ENC(s)

These permits can be transmitted direct to the vessel by email wherever possible or by simply reading the characters out over the telephone or radio.

Support Hours: 0600-2200 Monday -Friday	Telephone:	+44 (0)1823 484444
	Email:	customerservices@ukho.gov.uk
	Contact:	UKHO Customer Services
	Contact.	UKHO Customer Services
	Web:	https://www.admiralty.co.uk/

Feedback

We hope this User Guide assists you in using the ADMIRALTY Vector Chart Service with this system. If you have any feedback on the content of this particular guide, or the online FAQs, please forward your comments to your ADMIRALTY Chart Agent or directly to UKHO Customer Services.

About us

The United Kingdom Hydrographic Office is a leading provider of global marine geospatial data. We help to inform maritime decision-making for navigation, infrastructure development and the management of marine resources.

Serving users worldwide

Our world-leading location based information is available through ADMIRALTY Maritime Data Solutions to users worldwide.

For more information, contact our global network of ADMIRALTY Chart Agents. Alternatively, contact our customer service team.



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