

Using the ADMIRALTY Vector Chart Service with the Furuno 3000 Series ECDIS

This guide is based on the FURUNO 3000 Series ECDIS Version 2450074-03.11

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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1 Data Management

All electronic chart licensing and data management operations are carried out through the "Charts" Option on the Top Toolbar and then from the various Tabs on the left hand side of the Home screen on the FURUNO ECDIS:



To check the ECDIS Software Version: Select "?" then select "About"



Ve	ersion	$\neg \square$	System 1	_ _	System 2	Applied Standards			
ECDIS	Software	e Ver. :				2450074-03.11			
Conn	ing Softw	vare Ve	r. :	2450079-03.11					
S52 F	Presentati	on Libr	ary:			Ed.04.0			
ENC	User Perr	nit :		057	057DA7ADC227C0D0D466849B3132				
C-M	C-MAP SDK Software Ver. :					6.0			

To check Presentation Library (PL) Edition: Select "?" then select "About"

A	oout	
A r	Version System 1	System 2 Applied Standards
$\langle \rangle$	ECDIS Software Ver. :	2450074-03.11
	Conning Software Ver. :	2450079-03.11
5.	S52 Presentation Library :	Ed.04.0
/	ENC User Permit :	057DA7ADC227C0D0D466849B3132
	C-MAP SDK Software Ver. :	6.0
		Close

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.

To check the UPN select the $? \rightarrow \mbox{About}$:

A	bout	1 ⁻⁴ /6 /
1	Version System 1	System 2 Applied Standards
()	ECDIS Software Ver. :	2450074-03.11
	Conning Software Ver. :	2450079-03.11
Y.	S52 Presentation Library :	Ed.04.0
	ENC User Permit :	057DA7ADC227C0D0D466849B3132
	C-MAP SDK Software Ver. :	6.0
		Close
		4

3 The Public Key

The Admiralty Vector Chart Service currently uses the IHO.CRT, issued by the International Hydrographic Organisation, to authenticate its AVCS ENCs. However, the Furuno 3000 ECDIS uses the IHO.PUB Public Key which is included in all AVCS Media.

To view and install the IHO Public Key:

1. Select 'Public Key' Menu on the Home screen



- 2. In the 'Select Public Key' window appearing, when a Public Key is already activated, an 'A' populates the box next to the selected Public Key
- 3. Click on 'Display Content' to view the already activated Public Key



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 'Public Key' Menu on the Home screen



2. In the 'Select Public Key' window appearing, click on 'Load New Key' to install a new Public Key

Selec	t Public Key	_×
	Public Key Name	
A	IHO.PUB	Activate
	PRIMAR.PUB	
		Display Content
<	Load New Key 2.	Close

On the next 'Open File' window, select the location where the new Public Key to install is stored (i.e. CD, DVD, USB). Select the IHO.PUB and click 'Open'.

An 'Attention' message confirming the installation of the new Public Key will appear on the screen. Click 'OK'.

3. Highlight the new Public Key and select 'Activate' to select the required Public Key to be installed

Se	elec	t Public Key		_×
		Fublic Key Marine	Ì	3.
<		IHO.PUB		Activate D
	А	PRIMAR PLIR		Diale Contact
		3.		Display Content
	Ċ	Load New Key		Close

- **4.** An 'A' will then populate the box next to the selected Public Key.
- 5. Click 'Close' to finish.

Se	elec	t Public Key	_×`
	ſ,	Public Key Name	
	Α	IHO.PUB	Activate
		PRIMAR.PUB 4.	Display Content
			5.
	C	Load New Key	Close

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 'Manage Charts' on the Home screen



- 2. In the 'Manage Charts' window, tick the Chart to be deleted
- 3. Click on 'Delete Charts'

Man	age Charts						· · · · · · · · · · · · · · · · · · ·	_×
2	Туре	Chart Name	Data Server	Status		Data Location : Internal		08
	ENC	US5SC34M	GB	yes	A			
	ENC	USSVA13M	GB	yes		Description :		
	ENC	US5VA14M	GB	yes				
	ENC	US5VA41M	GB	yes				
	ENC	US5WA12M	GB	yes				
	ENC	US5WA17M		yes				
	ENC	US6ME56M	GB	yes			Open Chart	
Captu	re screenshot	UY400020		yes				
	ENC	UY400030	GB	yes				
	ENC	ZA4N0010	GB	yes			Export List	
		3. Delete Ch	iarts Ir	ndividual Update			Clo	ise

An 'Attention' window with the message "All selected Charts will be deleted. Do you wish to continue?" is then displayed. Click 'OK' to confirm the deletion of the selected Chart.

A final 'Attention' window then confirms the deletion. Click 'OK'.

The deleted Chart will disappear from the 'Licenses' window.

Deleting ALL Charts

1. Select 'Manage Charts' on the Home screen



2. In the 'Manage Charts' window, right-click the block to the left of the 'Type' box.



3. Two options then appear 'Select All' and 'Deselect All'. Click on 'Select All'.



4. When all Charts are selected with a Tick in front of them, click on 'Delete Charts'



An 'Attention' window with the message "All selected Charts will be deleted. Do you wish to continue?" is then displayed. Click 'OK' to confirm the deletion of all the selected Charts.

A final 'Attention' window then confirms the deletion. Click 'OK'.

The deleted Charts will disappear from the 'Manage Charts' window.

M	anag	ge Charts					_×
		Туре	Chart Name	Data Server	Status	Data Location : Internal	
						Description :	
			-				
Cap	ture	screensho					

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 'License' on the Home screen



- 5. In the 'Licenses' window, select the Chart for which the Permit is to be deleted, with a Tick in front of them
- 6. Click on 'Delete Licenses'

Lice							
ſ	ENC	ARCS		C-MAP		C-MAP DL	
	Cell Name	Expires	DataServer	Subscription			
	US5AK9FM	31 Dec 2014		Yes	≥ 5.		
	NL401546	31 Dec 2014	GB	Yes			
	MY2C0058	31 Dec 2014		Yes			
	IN42022M	31 Dec 2014	GB	Yes	11 1		
	CA570438	31 Dec 2014		Yes			
	FR568920	31 Dec 2014	GB	Yes			
	JP340JAK	31 Dec 2014		Yes			ENIC Licor Pormit
	C1615431	31 Dec 2014	GB	Yes			
Capt	ure screenshot	31 Dec 2014		Yes			Delete Licenses
	AU336135	31 Dec 2014	GB	Yes			Export List
ιt							
	Install Licenses Inp	ut Manually E	Backup License	s Restore Li	icenses		Close

An 'Attention' window with the message 'Selected group will be deleted. Do you wish to continue?' is then displayed. Click 'OK' to confirm the deletion of all the selected Charts.

A final 'Attention' window then confirms the deletion: '1 ENC Permit removed'. Click 'OK'.

The deleted Chart will disappear from the 'Licenses' window.

Deleting ALL Permits

1. Select 'License' on the Home screen



- 2. In the 'Licenses' window, right-click the block to the left of the 'Type' box.
- 3. 2 options then appear 'Select All' and 'Deselect All'. Click on 'Select All'.

Licenses						_×
2. ^{ENC}	ARCS		C-MAP		-MAP DL	
Cell Name	Expires	DataServer	Subscription			
Select All	31 Dec 2014	GB	Yes			
Deselect All	31 Dec 2014	GB	Yes			
US5VA41M	31 Dec 2014		Yes			
US5VA13M	31 Dec 2014	GB	Yes			
SE5GIFE3	31 Dec 2014		Yes			
NO5F0811	31 Dec 2014	GB	Yes			
JP24DJN0	31 Dec 2014	GB	Yes			ENIC Lisor Pormit
DK4E084B	31 Dec 2014	GB	Yes			
Capture screensnot	31 Dec 2014		Yes			
GB40846D	31 Dec 2014	GB	Yes	la l		Export List

4. Once all the Permits to be deleted are selected with a tick in front of them, click 'Delete Licences' on this 'Licenses' window.

ense	is Elic			C 1 1 1 D	
	ENC	ARCS		C-MAP	C-MAP DL
	Cell Name	Expires	DataServer	Subscription	
~	GB200376	31 Dec 2014	GB	Yes 🗎	
~	DK2SUNDT	31 Dec 2014	GB	Yes	
	US5VA41M	31 Dec 2014	GB	Yes	
1	US5VA13M	31 Dec 2014	GB	Yes	
	SE5GIFE3	31 Dec 2014	GB	Yes	
~	NO5F0811	31 Dec 2014	GB	Yes	
	JP24DJN0	31 Dec 2014	GB	Yes	ENC Licer Perm
1	DK4FO84B	31 Dec 2014	GB	Yes	EINC Öser Perm
ure	Screenshot	31 Dec 2014		Yes	4. 🗲 Delete License
~	GB40846D	31 Dec 2014	GB	Yes	Export List

An *'Attention'* window with the message "Selected group will be deleted. Do you wish to continue?" is then displayed. Click *'OK'* to confirm the deletion of all the selected Charts.

A final 'Attention' window then confirms the deletion: 'XXX ENC Permits removed'. Click 'OK'.

The deleted Charts will now disappear from the 'Licenses' window.



6 Installing ENC Permits

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

To install AVCS ENC Permits:

- 1. Select 'License' on the Home screen and in the 'Licenses' window, select the 'ENC' Tab
- 2. Select 'Install Licenses'

	Collination	R usting		C. Laurin View	
	Cell Name	Expires	DataServer	Subscription	
	ID4229R6	31 Dec 2015	GB	Yes	AIO: Enable Disable AIO
	GB402699	31 Dec 2015		Yes	
	GB603683	31 Dec 2015		Yes	Caution:
	CA579104	31 Dec 2015	GB	Yes	When the AIO function is made "disable", AIO function
	HR3C0021	31 Dec 2015		Yes	cannot be used unless the AIO license is reinstalled.
	GB50682B	31 Dec 2015	GB	Yes	
	GB50823E	31 Dec 2015		Yes	ENC Licor Pormit
	CA579142	31 Dec 2015	GB	Yes	ENC Oser Permit
oture s	Greenshot 7	31 Dec 2015		Yes	
	FR57051A	31 Dec 2015	GB	Yes	Export List
	2				

In the next 'Select File' window, highlight the Permit.txt file from the selected source location (i.e. USB), click 'Open' and then 'OK'

If needed, the Permit List can then be exported to external Media (i.e. CD, DVD, USB) by clicking on the 'Export List' option:

Cell Name	Expires	DataServer	Subscription		
ID4229R6	31 Dec 2015		Yes	AIO: Enable	Disable AIO
GB402699	31 Dec 2015	GB	Yes		
GB603683	31 Dec 2015		Yes	Caution:	
CA579104	31 Dec 2015	GB	Yes	When the AIO function is made "disal	is made "disable", AIO funct
HR3C0021	31 Dec 2015		Yes	cannot be used unless th	ne AIO license is reinstalled.
GB50682B	31 Dec 2015	GB	Yes		
GB50823E	31 Dec 2015		Yes		ENIC Licor Pormit
CA579142	31 Dec 2015	GB	Yes		COSET PETITIO
e screenshot	31 Dec 2015		Yes		Delete Licenses
FR57051A	31 Dec 2015	GB	Yes		Export List

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. Click on 'Auto Load' on the Home screen



An 'Attention' window then appears warning that 'this process takes time to complete and the operation speed of the system will decline. Do you wish to continue?'. Click 'OK'.

Another 'Attention' window confirms how many 'Charts are contained in the inserted AVCS Media and how many can be installed (based on the previously installed Permit file). Do you wish to continue?'. Click 'OK'.

Note: Whenever Charts are cancelled, they will automatically be removed from the system. When this happens, this will be communicated in the 'Error/Warning Guidance' window at the end of the installation.

The AVCS Media will be read and a progress Bar will display on the 'Install Chart Data' window on the screen.

When the installation is complete, a window confirming the installation will appear, click 'Confirm' (this window can take some time to appear even if the Progress Bar shows a completion rate of 100%)

To check the details of the data installation, click on 'Show Details' on the 'Install Chart Data' window. Click 'Finish' to close.

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. After having inserted the first AVCS Base CD identified in the Schedule A into the appropriate drive (i.e. D/Q), click on 'Auto Load' on the Home screen



An 'Attention' window then appears warning that 'this process takes time to complete and the operation speed of the system will decline. Do you wish to continue?'. Click 'OK'.

Another 'Attention' window confirms how many 'Charts are contained in the inserted AVCS Media and how many can be installed (based on the previously installed Permit file). Do you wish to continue?'. Click 'OK'.

Note: Whenever Charts are cancelled, they will automatically be removed from the system. When this happens, this will be communicated in the 'Error/Warning Guidance' window at the end of the installation.

The AVCS Media will be read and a progress Bar will display on the 'Install Chart Data' window on the screen.

When the installation is complete, a window confirming the installation will appear, click *'Confirm'* (this window can take some time to appear even if the Progress Bar shows a completion rate of 100%)

To check the details of the data installation, click on 'Show Details' on the 'Install Chart Data' window. Click 'Finish' to close. This process should be repeated until all required Base CDs have been installed.

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. Click on 'Auto Load' on the Home screen



An 'Attention' window then appears warning that 'this process takes time to complete and the operation speed of the system will decline. Do you wish to continue?'. Click 'OK'.

Another 'Attention' window confirms how many 'Charts are contained in the inserted AVCS Media and how many can be updated (based on the previously installed Permit file). Do you wish to continue?'. Click 'OK'.

Note: Whenever Charts are cancelled, they will automatically be removed from the system. When this happens, this will be communicated in the 'Error/Warning Guidance' window at the end of the installation.

The AVCS Media will be read and a progress Bar will display on the 'Install Chart Data' window on the screen.

When the installation is complete, a window confirming the installation will appear, click 'Confirm' (this window can take some time to appear even if the Progress Bar shows a completion rate of 100%)

To check the details of the data installation, click on 'Show Details' on the 'Install Chart Data' window. Click 'Finish' to close.

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

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: Please do not save the Permit file within 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/AIO exchange set:

To install AVCS/AIO exchange set:

1. Click on 'Auto Load' on the Home screen ensuring there is no update media in the CD/DVD drive

An 'Attention' window then appears warning that 'this process takes time to complete and the operation speed of the system will decline. Do you wish to continue?'. Click 'OK'.

2. A "Valid media not found" message box will appear. Click "Select".



3. Navigate to the exchange set on the external media, highlight the folder named "V01X01" and click "OK".



Note: Whenever Charts are cancelled, they will automatically be removed from the system. When this happens, this will be communicated in the 'Error/Warning Guidance' window at the end of the installation.

The AVCS Media will be read and a progress Bar will display on the 'Install Chart Data' window on the screen.

When the installation is complete, a window confirming the installation will appear, click *'Confirm'* (this window can take some time to appear even if the Progress Bar shows a completion rate of 100%)

To check the details of the data installation, click on 'Show Details' on the 'Install Chart Data' window. Click 'Finish' to close.

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

11 Viewing an ENC

To view ENC data:

1. Select 'Manage Charts'



- 2. Select the ENC by ticking the box to the left of the ENC cell name.
- 3. Select 'Open Chart'



The ECDIS will then open the chart specified at the appropriate display scale.

12 Installing AIO Permits

The Admiralty Information Overlay (AIO) is installed in the Furuno FMD 3000 ECDIS by installing the Cell GB800001 included in the PERMIT.TXT file and then the AIO Data.

To install the AIO Permits:

- 1. Select 'License' on the Home screen and in the 'Licenses' window, select the 'ENC' Tab
- 2. Select 'Install Licenses'

	ENC	ARCS		C-MAP	C-MAP DL	
	Cell Name	Expires	DataServer	Subscription		
	ID4229R6	31 Dec 2015	GB	Yes	AIO: Enable	Disable AIO
	GB402699	31 Dec 2015	GB	Yes		
	GB603683	31 Dec 2015		Yes	Caution:	
	CA579104	31 Dec 2015	GB	Yes	When the AIO function is	made "disable", AIO function
	HR3C0021	31 Dec 2015		Yes	cannot be used unless the	AIO license is reinstalled.
	GB50682B	31 Dec 2015	GB	Yes		
	GB50823E	31 Dec 2015		Yes		ENC Lises Permit
	CA579142	31 Dec 2015	GB	Yes		EIVE Oser Permit
Captur	e screenshot	31 Dec 2015		Yes		
	FR57051A	31 Dec 2015	GB	Yes		Export List
	2.					
<	Install Licenses	out Manually [Backup License:	s Restore L	icenses	Close

In the next 'Select File' window appearing, highlight the Permit.txt file which contains the AIO Permit from the selected source location (i.e. USB), click 'Open' and then 'OK'

3. The AIO Permit will now appear in the Licenses List

ENC	ARCS		C-MAP	C-MAP DL	
Cell Name GB628028 GB63102A GB63102B GB63317B GB63317D GB63317D	Expires 31 Dec 2015 31 Dec 2015 31 Dec 2015 31 Dec 2015 31 Dec 2015 31 Dec 2015	DataServer GB GB GB GB GB	Subscription Yes Yes Yes Yes Yes	AIO: Enable Caution: When the AIO function i cannot be used unless th	Disable AIO s made "disable", AIO function ne AIO license is reinstalled.
GB800001 GE310300 GF410110 apture screenshot GE510420	31 Jan 2016 31 Dec 2015 31 Dec 2015 31 Dec 2015 31 Dec 2015 31 Dec 2015	GB GB GB GB	Yes Yes Yes Yes Yes		ENC User Permit Delete Licenses Export List

13 Installing AIO Data

The AIO Media can only be installed when the usual AVCS S-63 1.1 Data has been previously installed. After having previously installed the Permit for the AIO Cell GB800001, the AIO Media now needs to be installed.

Insert the latest AIO CD into the appropriate drive (i.e. D/Q)

1. Click on 'Auto Load' on the Home screen



An 'Attention' window then appears warning that 'this process takes time to complete and the operation speed of the system will decline. Do you wish to continue?'. Click 'OK'.

Another 'Attention' window confirms how many 'Charts are contained in the inserted AIO Media and how many can be installed (based on the previously installed Permit file). Do you wish to continue?'. Click 'OK'.

The AIO CD will be read and a progress Bar will display on the 'Install Chart Data' window on the screen.

When the installation is complete, a window confirming the installation will appear, click *'Confirm'* (this window can take some time to appear even if the Progress Bar shows a completion rate of 100%)

To check the details of the data installation, click on 'Show Details' on the 'Install Chart Data' window. Click 'Finish' to close.

- 2. Once the AIO Permits and Media have been installed, the AIO is enabled
- 3. If needed, the system will give the user the option of then disabling the AIO from the 'Licenses' window:

Licens	ies					_×
	ENC	ARCS		C-MAP	C-MAP DL	
	Cell Name GB62802B GB63102A	Expires 31 Dec 2015 31 Dec 2015	DataServer GB GB	Subscription Yes Yes	AIO: Enable	3. Disable AIO
	GB63102B	31 Dec 2015	GB	Yes	Caution:	ado "disable" AIO function
	GB63317B GB63317D	31 Dec 2015 31 Dec 2015	GB	Yes Yes	cannot be used unless the AIO license is rei	NO license is reinstalled.
	GB800001 GE310300	31 Jan 2016 31 Dec 2015	GB GB	Yes Yes		
Capture	GF410110 screenshot	31 Dec 2015	GB	Yes		ENC User Permit
	GE510420	31 Dec 2015 31 Dec 2015	GB	Yes		Export List
		ut Manualk	Paduun Lisonso	C Postovo I	ironya	
	nstall Licenses		Backup License	S Restore L	Icenses	Close

14 Using the AIO

To enable AIO data:

- 1. Select 'Display' from left hand tool-bar.
- 2. Select 'Chart DISP' option.



- 3. Navigate to the 'NtoM' tab.
- 4. Ensure all options under 'AIO' are ticked on.



To view AIO data:

1. Start by opening an ENC and you should see red polygons with the T and P number labeled over the center of them.



2. Wright click over an AIO polygon and select 'Pick Report'.



3. Select the GB80001 polygon from object list and click 'Select' in bottom right of sekection box.



4. Select the 'Information' box by left clicking which will give you the notice information relating to the polygon.



15 Systems Checks

The user has the option to review the status of all installed ENCs on the Furuno FMD 3000 ECDIS by consulting various Reports.

- 1. Select 'Record' on the Home screen
- 2. Select 'Chart Log'
- 3. Select 'ENC'



A Report containing all the installed Cells then appears on the screen. This Report contains information about all the Update status of the Cells currently installed on the system. Select 'Close' to close the Report.

ENC Install/ Dorth: UP.ory 🔍
4/20140729]
2015-Feb-05 12:05:48 Info: Installed AR303110: (AR 1) ed 1/20111013, base + updates [1/20111031]
2015-Feb-05 12:05:49 Info: Installed AR303120: (AR 1) ed 1/20111012, base + updates []
2015-Feb-05 12:05:51 Info: Installed AR304180: (AR 1) ed 1/20111024, base + updates [1/20130530, 2/20131202]
2015-Feb-05 12:05:51 Info: Installed AR30419A: (AR 1) ed 1/20110930, base + updates [1/20140805]
2015-Feb-05 12:05:52 Info: Installed AR304240: (AR 1) ed 1/20130909, base + updates [1/20140311, 2/20140311]
2015-Feb-05 12:05:54 Info: Installed AR304250: (AR 1) ed 1/20120322, base + updates []
2015-Feb-05 12:05:55 Info: Installed AR401560: (AR 1) ed 3/20131105, base + updates [1/20140728, 2/20140729]
2015-Feb-05 12:06:00 Info: Installed AR401570: (AR 1) ed 2/20140708, base + updates []
2015-Feb-05 12:06:00 Info: Installed AR401590: (AR 1) ed 1/20100614, base + updates []
2015-Feb-05 12:06:01 Info: Installed AR402490: (AR 1) ed 1/20051206, base + updates [1/20060330, 2/20090429, 3/20090728,
4/20090902, 5/20111221, 6/20120328, 7/20140602, 8/20140630]
2015-Feb-05 12:06:01 Info: Installed AR402500: (AR 1) ed 1/20101130, base + updates [1/20111101, 2/20111221, 3/20120328,
4/20120502, 5/20121226, 6/20130326, 7/20130430, 8/20140326, 9/20140602]
2015-Feb-05 12:06:01 Info: Installed AR402520: (AR 1) ed 1/20110318, base + updates [1/20111101, 2/20121226, 3/20131029]
2015-Feb-05 12:06:02 Info: Installed AR402550: (AR 1) ed 2/20070312, base + updates [1/20070530, 2/20071115, 3/20120703,
4/20121226, 5/20131223, 6/20140227, 7/20140227, 8/20140602, 9/20140630]
2015-Feb-05 12:06:03 Info: Installed AR402560: (AR 1) ed 4/20140731, base + updates [1/20140826, 2/20140924]
2015-teb-05 12:06:05 Into: Installed AR402620: (AR 1) ed 1/20101026, base + updates [1/20110301, 2/20120/30, 3/20130430,
2015-teb-05 12:10:48 Into: *** Install 0 charts off GB_base_14/WK45_LM
2015-Feb-05 12:12:221 Info: *** Install 5 charts off GB_base_14WK50_LM ***
2015-reb-05 12:12:29 Into: Updated AR302120: (AR1) ed 3/20140804, updates [1/20141030]
2015-Feb-05 12:12:30 Infto: Updated AR401570: (AR 1) ed 2/20140708, updates [1/20141201]
2015-reb-05 12:12:30 linto: Updated Ak402500: (Ak1) ed 1/20101130, updates [10/20141104]
2015-reb-05 12:12:31 Into: Updated Ak402550: (Ak1) ed 2/200/0312, updates [10/20141029]
2015-teb-05 12:12:32 Into: Updated AK402560: (AR 1) ed 4/20140/31, updates [3/20141201]
2015-teb-05 12:13:38 Into: *** Install 0 charts off GB_base_14WK50_LM ***
2015-Feb-05 14:40:46 Into: *** Remove 1 charts (disable AlO) ***
2015-teb-05 14:40:46 Into: Completely removed GB800001 (SENC + source)
Period Covered (UTC): 05 Feb 2015 11 : 30 to 05 Feb 2015 11 : 30 Set Period Clear Period
Refresh Find Print Text Close

The Furuno FMD 3000 ECDIS displays the Cell status of the Cells installed within a colour coding system on the Geographical Display:

Green: The Permit is valid and the ENC is available for use in SENC format. If the source of the ENC is a RENC, then the ENC is also up-to-date. If the source of the S-57 vector chart is something other than a RENC then all loaded updates are included into the SENC.

Orange: You have a valid Permit and the ENC is available for use in SENC format but it is either not up-to-date or has been cancelled. This could be for several reasons, either the SENC is from a previous edition, the latest SENC update was missed or the ENC has been cancelled.

Red: If an ENC is installed in the SENC but does not have a corresponding permit installed then the ENC is no longer available for display in the viewer.

Blue: The conversion of the Cells from RENC to SENC as somehow failed during the conversion process. This can be due to a software upgrade or an issue with the data itself preventing the Furuno from successfully converting to SENC. For example, one Cell was up-to-date before a software upgrade and was not updated when the software was upgraded. Then the Cell would show as blue until the conversion process is completed. Contrary to the Magenta colour which means that the RENC to SENC conversion was not even started.

Magenta: You have a permit to use the ENC, but the installed ENC is not available in SENC format and thus you cannot use the ENC currently.

It is also possible to check the updating status of all Cells installed within the Cell Status mode:

1. Select 'Cell Status' on the Home screen



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2. The 'Cell Status' window then appears displaying the Updating status of all Cells installed:

Туре	Chart Name	Data Server	Edition/ Issued Date	Update: Num/Date	Updated		
ENC	AR201130	GB	2/03 Jul 2007	9/26 Aug 2014	yes		
ENC	AR201140	GB	1/30 Nov 2010	14/26 Aug 2014	yes		
ENC	AR202100		1/10 Jun 2011	7/28 Jul 2014	yes		
ENC	AR202140	GB	1/13 Jul 2012	1/30 Apr 2013	yes		
ENC	AR203100	GB	1/07 Nov 2011	8/29 Apr 2014	yes		
ENC	AR203170	GB	1/24 May 2013	1/02 Oct 2013	yes		
ENC	AR204130	GB	1/15 Apr 2014		yes		
are screensho	ot AR204160	GB	1/13 May 2014		no		
ENC	AR301150		1/15 Jun 2010	5/26 Aug 2014	yes		
ENC	AR302120	GB	3/04 Aug 2014	1/30 Oct 2014	yes	-	

If screenshots need to be taken (i.e. report specific issues), this is carried out in the Furuno FMD 3000 by clicking on 'Capture Screenshot' on the Home screen.





When the required screenshot is taken, it will be automatically saved on the system within the 'Settings' Tab on the top Menu

In the next 'Settings' window, find the screenshot previously taken (usually at the bottom of the drop down list), highlight it with a tick on its left hand side and then click on 'Export'. This will open a new window where you can then save this screenshot on the preferred source location (i.e. USB).

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:	LIKHO Customer Services
	Contact.	ONTIO Customer Gervices
	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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