

Using the ADMIRALTY Vector Chart Service with the JRC ECDIS – JAN-7201/9201

This guide is based on JRC ECDIS - JAN-7201/9201 Version 01.20.026

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



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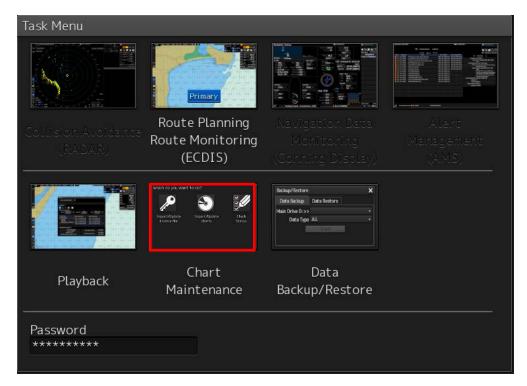
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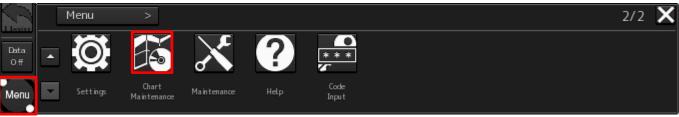
1 Data Management

All electronic navigational charts (ENCs) licensing and data management operations are carried out through the **Chart Maintenance** window.

To access to Chart Maintenance:

- Go to Task Menu and click Chart Maintenance.
- Go to Menu then click down button to page 2 and click Chart Maintenance.

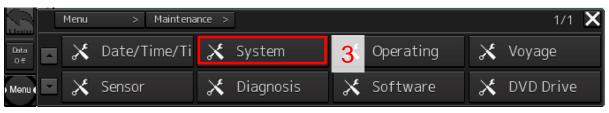


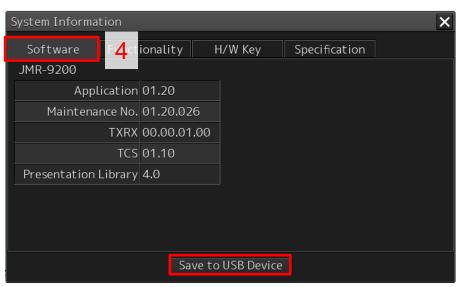


To check ECDIS Software Version and Presentation Library (PL) Edition:

- 1. Go to Task Menu and click Route Planning Route Monitoring (ECDIS).
- 2. Go to Menu then click down button to page 2 and click Maintenance.
- 3. Click System.
- 4. Go to **Software** tab and check the **Maintenance No**. (ECDIS Software) and **Presentation Library** version. Click **Save to USB Device** to save the information into USB media.





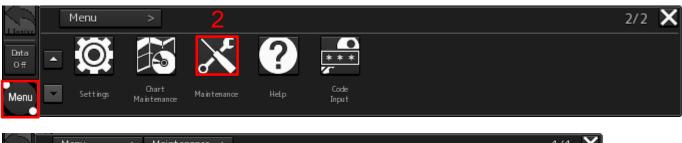


2 The User Permit Number

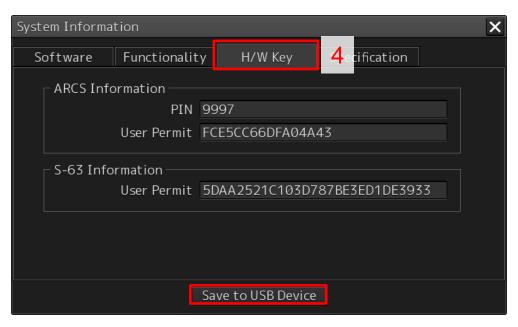
The 'User Permit Number' is a 28 character alphanumeric string that is unique to each ECDIS installation or group of ECDIS, e.g. multiple bridge installations. The 'User Permit Number' should have been supplied at the time of delivery and must be used when ordering an AVCS licence.

To check the User Permit Number:

- 1. Go to Task Menu and click Route Planning Route Monitoring (ECDIS).
- 2. Go to Menu then click down button to page 2 and click Maintenance.
- 3. Click System.
- Go to H/W Key tab and check the S-63 Information User Permit. Click Save to USB Device to save the information into USB media.





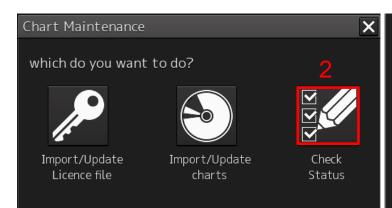


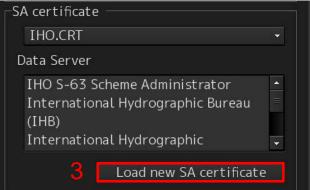
3 The Public Key

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.

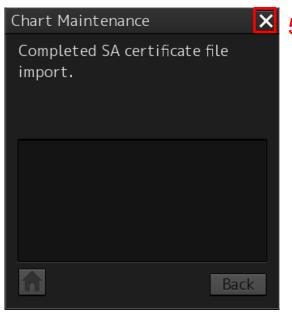
To install the IHO Public Key:

- 1. Insert AVCS CD or DVD media then go to Task Menu and click **Chart Maintenance**.
- Click Check Status
- 3. At SA Certificate section, click Load new SA certificate.
- 4. Select the CD/DVD media drive and ensure IHO.CRT file name appear then click OK.
- 5. Once it is installed, system will display 'Completed SA certificate file import'. Close the window to end. View the log details at Log tab.









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4 Deleting ENC Permits and Data

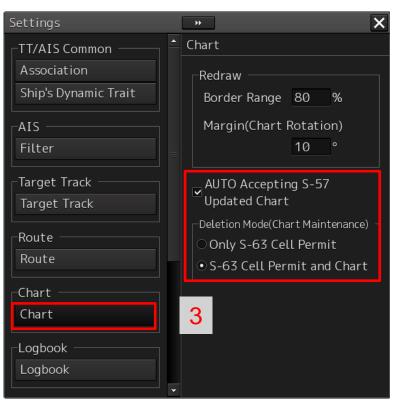
New AVCS customers who had previously subscribed to other ENC services are required to remove (purge) all ENC Permits and data from the system before installing AVCS.

Note: Do not delete AA Cells

To check settings before deleting ENC Permits and Data.

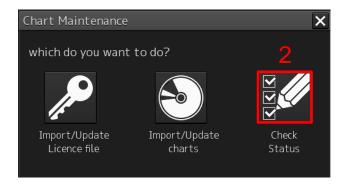
- 1. Go to Task Menu and click Route Planning Route Monitoring (ECDIS).
- 2. Go to Menu then click down button to page 2 and click Settings.
- 3. Click Chart then select AUTO Accepting S-57 Updated Chart and S-63 Cell Permit and Chart option.

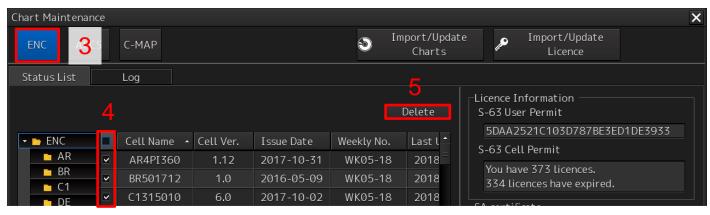


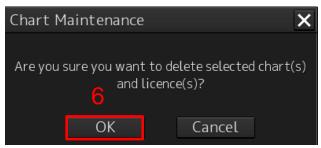


To delete all or required ENCs Permit and data from the system:

- 1. Go to Task Menu and click Chart Maintenance.
- 2. Click Check Status.
- 3. Select **ENC** and view the installed ENCs at Status List tab.
- 4. Select all or individual ENCs by ticking the selection box beside the Cell Name.
- 5. Click **Delete** to remove selected ENCs.
- 6. System will prompt 'Are you sure you want to delete selected chart(s) and licence(s)?. Click **OK** to remove them.
- 7. Once the deletion is completed, view the log details at **Log** tab.





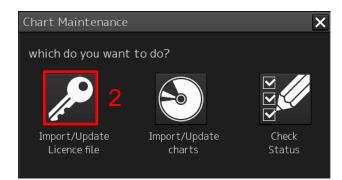


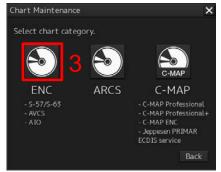
5 Installing ENC Permits

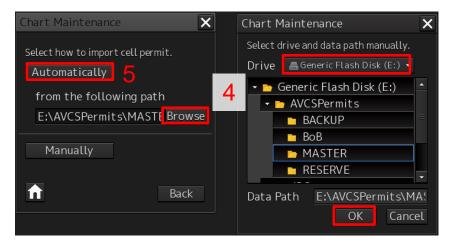
Note: Ensure the correct Permit is installed into the ECDIS workstation.

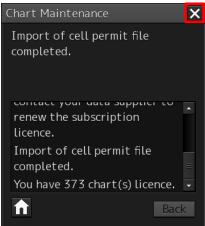
To install AVCS ENC Permits including AIO PERMIT:

- Insert the CD/USB Stick Media containing PERMIT.TXT and go to Task Menu and click Chart Maintenance.
- 2. Click Import/Update License file.
- 3. Click ENC option.
- 4. Click **Browse** to the folder that stored the PERMIT.TXT then click **OK**.
- 5. Click **Automatically** to install permit. Check the log details and close the window to end.









6 Installing AVCS DVDs

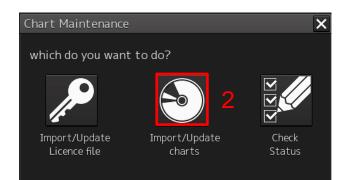
There are currently 2 AVCS DVD Media. AVCS DVD Media contain all the latest Base and Update data. It is likely that users will need to install both DVDs in order to load all licensed ENCs. Reference to the Schedule A can avoid the unnecessary loading of both DVDs and save the user time.

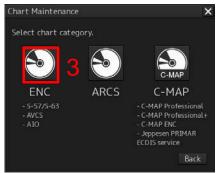
The process described here should be used in almost all circumstances as it will automatically select data to be loaded according to the permit file installed by the user.

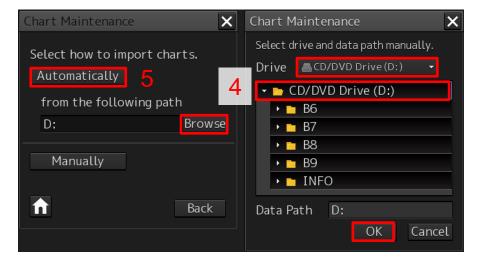
Note: Ensure the latest permits have been installed before attempting to install any data.

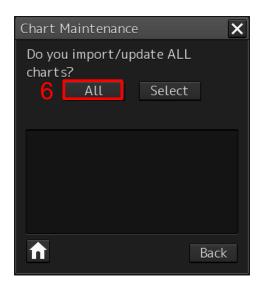
To install AVCS DVD Media:

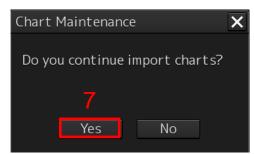
- 1. Insert the latest AVCS DVD Media and go to Task Menu then click Chart Maintenance.
- 2. Click Import/Update charts.
- 3. Click ENC option.
- 4. Click Browse to CD/DVD Drive then click OK.
- 5. Click **Automatically** to start the chart installation.
- 6. System will prompt 'Do you import/update ALL charts?'. Click ALL to load all updates.
- 7. Once the chart installation is completed, system will prompt 'Do you continue import charts?. Click **Yes** to install the next AVCS DVD media or **No** to end the installation. View the log details.

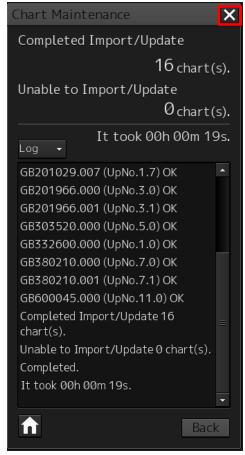












7 Installing AVCS Base CDs

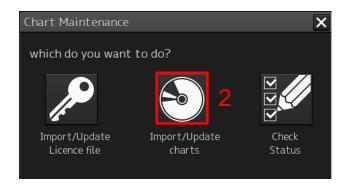
There are currently 9 AVCS Base CDs but this number will grow as more ENCs become available for distribution within AVCS. It is unlikely that users will need to install all of the CDs in order to load all licensed ENCs. Reference to the Schedule A can avoid the unnecessary loading of some CDs and save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

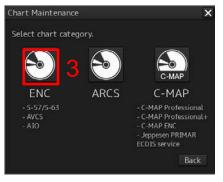
The process described here should be used in almost all circumstances as it will automatically select data to be loaded according to the permit file installed by the user.

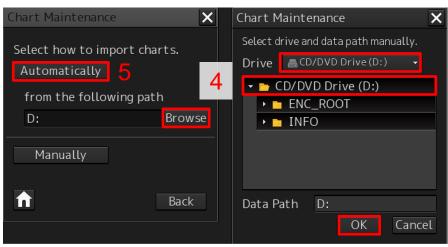
Note: Ensure the latest permits have been installed before attempting to install any data.

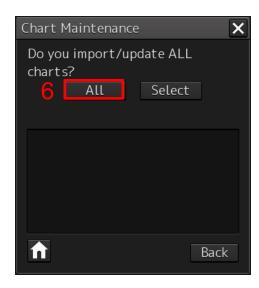
To install AVCS Base CD(s) Media:

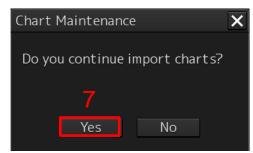
- 1. Insert the latest AVCS Base CD Media and go to Task Menu then click Chart Maintenance.
- 2. Click Import/Update charts.
- 3. Click ENC option.
- 4. Click Browse to CD/DVD Drive then click OK.
- 5. Click **Automatically** to start the chart installation.
- 6. System will prompt 'Do you import/update ALL charts?'. Click ALL to load all updates.
- Once the chart installation is completed, system will prompt 'Do you continue import charts?. Click Yes to install the next AVCS Base CD media or No to end the installation. View the log details.

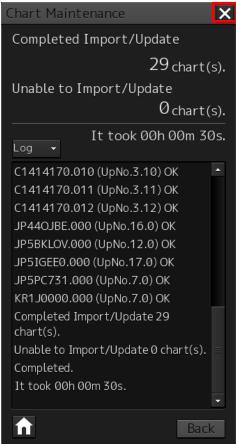












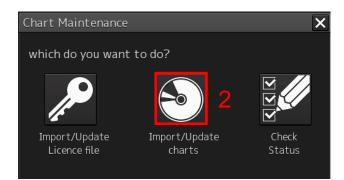
8 Installing AVCS Update CD

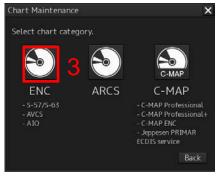
The AVCS update disc will indicate which Base disc week must have been installed. It is important that users do not attempt to load an Update CD that is not consistent with the Base CDs

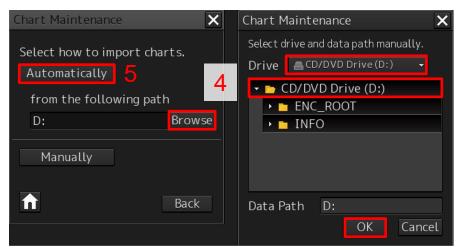
Note: Check the AVCS Update CD for the required Base CDs to be applied first.

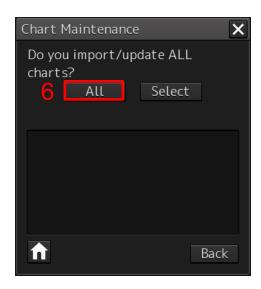
To install AVCS Update CD Media:

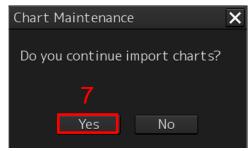
- 1. Insert the latest AVCS Update CD Media and go to Task Menu then click Chart Maintenance.
- 2. Click Import/Update charts.
- 3. Click ENC option.
- 4. Click Browse to CD/DVD Drive then click OK.
- 5. Click **Automatically** to start the chart installation.
- 6. System will prompt 'Do you import/update ALL charts?'. Click ALL to load all updates.
- 7. Once the chart installation is completed, system will prompt 'Do you continue import charts?. Click **Yes** to install the next AVCS Base CD media or **No** to end the installation. View the log details.

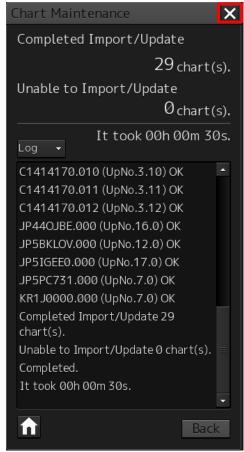










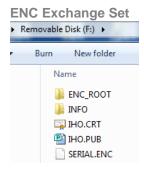


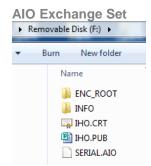
9 Installing Exchange Set Using USB Media

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 create AVCS/AIO Exchange Set into Virus Free USB Media:

- 1. Save ENC_ROOT, INFO and SERIAL.ENC or SERIAL.AIO into root directory of an empty USB Stick Media.
- 2. Optional Copy IHO.CRT and IHO.PUB from AVCS DVD/CD Media.
- 3. Carry out Virus Scan on USB Stick Media after copying the Exchange Set.

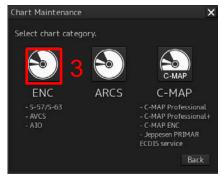


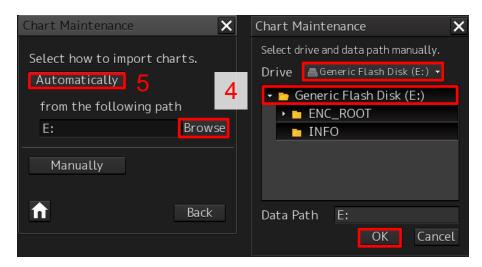


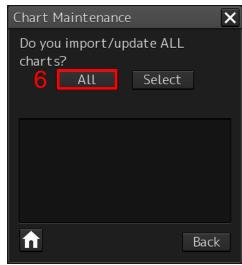
To install AVCS/AIO Exchange Set using USB Media:

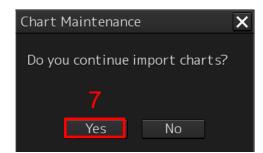
- 1. Insert the USB Stick Media containing the AVCS/AIO Exchange Set then click **Chart Maintenance**.
- 2. Click Import/Update charts.
- 3. Click **ENC** option.
- 4. Click Browse to Generic Flash Disk then click OK.
- 5. Click **Automatically** to start the chart installation.
- 6. System will prompt 'Do you import/update ALL charts?'. Click ALL to load all updates.
- 7. Once the chart installation is completed, system will prompt 'Do you continue import charts?. Click **Yes** to install the next AVCS Base CD media or **No** to end the installation. View the log details.











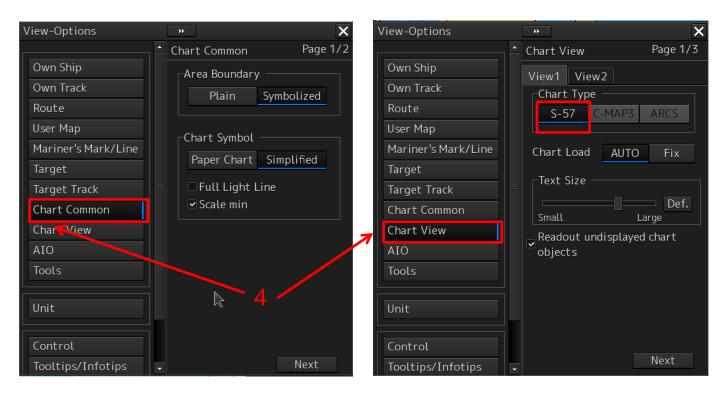
10 Viewing an ENC

To setup Chart Display Settings:

- 1. Go to Task Menu and click Route Planning Route Monitoring (ECDIS).
- 2. Go to Menu then click View.
- 3. Click Options.
- 4. Change the Chart Display Settings at Chart Common (2 pages of options) and Chart View (3 pages of options) Select Chart Type S-57 option.



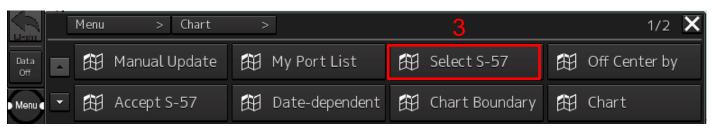


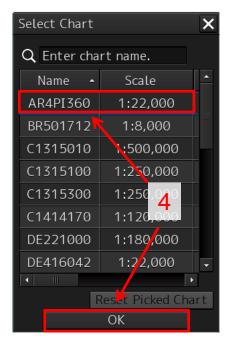


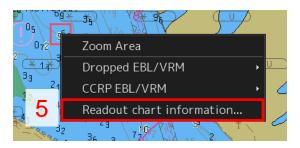
To view ENC data:

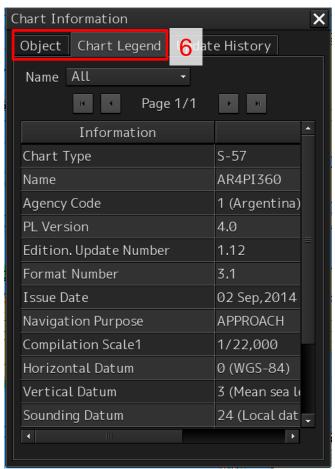
- 1. Go to Task Menu and click Route Planning Route Monitoring (ECDIS).
- 2. Go to Menu then click Chart.
- 3. Click Select S-57 to view installed ENCs.
- 4. At Select Chart window, select **ENC name** to view and click **OK**.
- 5. Once the ENC is open, right click the mouse on the ENC object to view and click on **Readout chart information...** to view chart information.
- 6. At Chart Information window, view the ENC information at Object and Chart Legend tab.









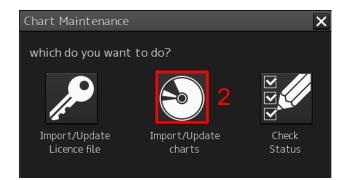


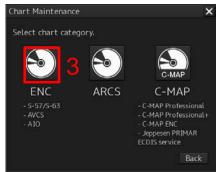
11 Installing AIO CD

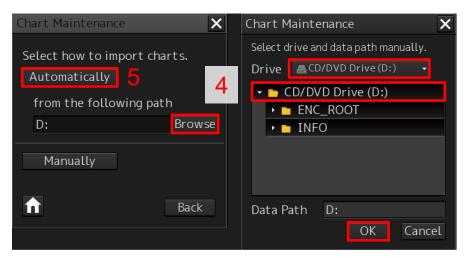
Note: Ensure the latest AVCS Permit including AIO have been installed before attempting to install any data

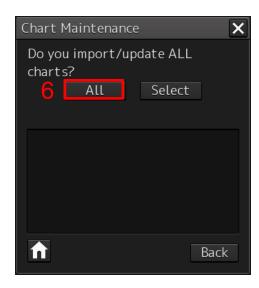
To install AIO CD Media:

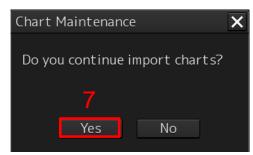
- 1. Insert the latest AIO CD Media and go to Task Menu then click Chart Maintenance.
- 2. Click Import/Update charts.
- 3. Click ENC option.
- 4. Click Browse to CD/DVD Drive then click OK.
- 5. Click **Automatically** to start the chart installation.
- 6. System will prompt 'Do you import/update ALL charts?'. Click ALL to load all updates.
- 7. Once the chart installation is completed, system will prompt 'Do you continue import charts?. Click **Yes** to install the next AVCS Base CD media or **No** to end the installation. View the log details.

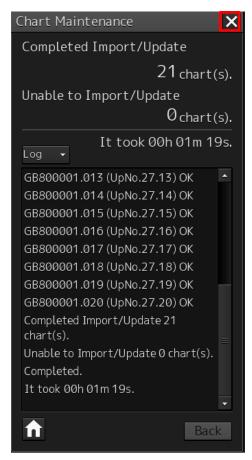












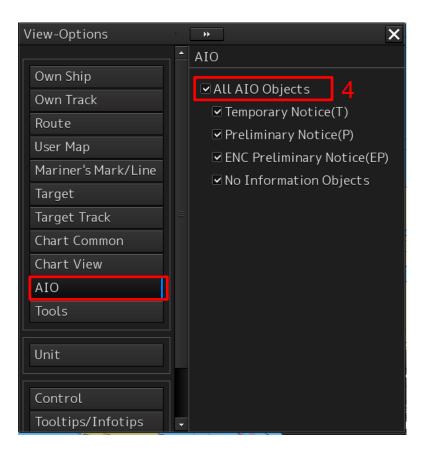
12 Using the AIO

To enable AIO data:

- 1. Go to Task Menu and click Route Planning Route Monitoring (ECDIS).
- 2. Go to Menu then click View.
- 3. Click Options.
- 4. Click AlO then select All AlO Objects option to enable all types of AlO objects.



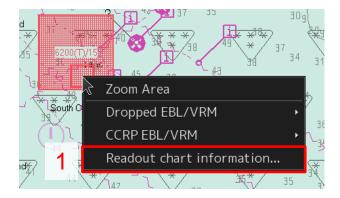


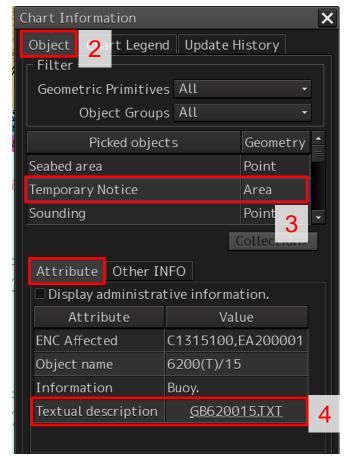


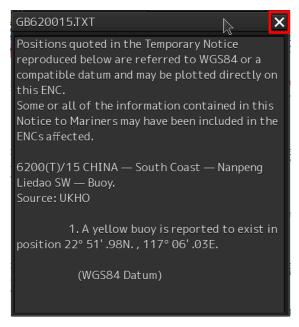
To view AIO data:

1. At Main display, right click the mouse on the AlO Object then click Readout chart information....

- 2. At Chart Information window, view the Object tab.
- 3. Click on Preliminary Notice or Temporary Notice where UKHO has published an AIO Notice.
- 4. At **Attribute** window, view AIO information such as ENC Affected, Supporting Textual information and attached Text or Picture File Reference.







13 Systems Checks

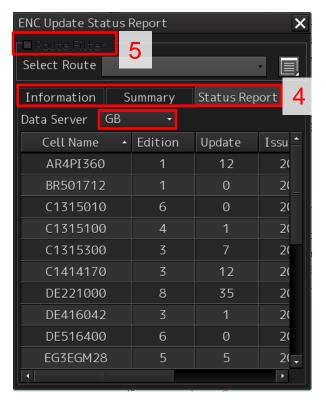
The user has the option to review the status of all installed ENCs from within the Chart Maintenance dialog as follows:

To generate the installed charts status report:

- 1. Go to Task Menu and click Route Planning Route Monitoring (ECDIS).
- 2. Go to Menu then click Chart
- 3. Click down button to page 2 and click **ENC Update**.
- 4. User can view ENC Status at Information, Summary and Status Report tab.
- 5. User can click **Route Filter** option and select **Route file** to filter the required ENCs status for their intended voyage on ENC update report







To capture the ECDIS Main Display:

1. Go to Task Menu and click Route Planning Route Monitoring (ECDIS).

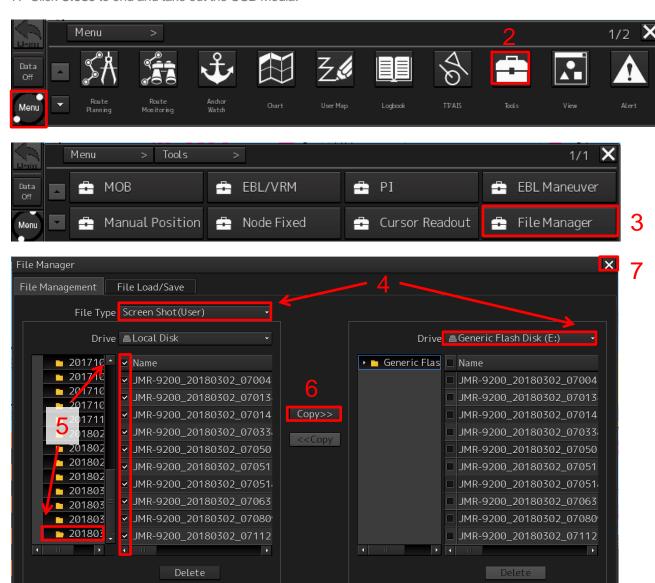
- 2. Click **Camera** icon at left side Toolbar.
- 3. At System window, click **OK** to end.



To export the Capture Screen into USB Media:

1. Insert the virus free USB Media and Go to **Task Menu** and click **Route Planning Route Monitoring** (ECDIS).

- 2. Go to **Menu** then click **Tools**.
- 3. Click **File Manager**.
- 4. At File Manager window, select Type: Screen Shot (User) then browse to USB media drive at right column.
- 5. Select **Folder name** (YYMMDDxxxxx) and select the screenshots.
- 6. Click Copy >> to copy image into USB Media.
- 7. Click Close to end and take out the USB Media.



14 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, interfacing problems.	
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)

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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
	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.



Admiralty Way, Taunton, Somerset TAI 2DN, United Kingdom Telephone +44 (0)1823 484444 customerservices@ukho.gov.uk gov.uk/ukho

Find out more about our market-leading ADMIRALTY Maritime Products & Services:









