

JMR-7200/9200 Series
JAN-7201/9201

**Procedures for Starting and
Exiting Chart Maintenance**

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Using ENC Charts

2

ARCS Charts

3

Using C-MAP Ed.3 Charts

4

Troubleshooting

5

Marine Radar Equipment ECDIS

**Additional Manual for
Chart Installation**

Preface

This book is the additional manual that describes the usage of the chart of JMR-7200/9200 series Multi Function Display, JAN-7201/9201 ECDIS. To maintain the performance of the equipment, please operate it after having understood this manual thoroughly.

Before Operation

Pictorial Indication

Various pictorial indications are included in this manual and are shown on the equipment so that you can operate it safely and correctly and prevent any danger to you and / or to other persons and any damage to your property during operation. Such indications and their meanings are as follows. Please understand them before you read this manual.



DANGER

This indication is shown where incorrect equipment operation due to negligence may cause death or serious injuries.



WARNING

This indication is shown where any person is supposed to be in danger of being killed or seriously injured if the equipment is not operated correctly by neglecting this indication.



CAUTION

This indication is shown where any person is supposed to be injured or any proper damage is supposed to occur if the equipment is not operated correctly by neglecting this indication.

Examples of Pictorial Indication



Electric shock

The Δ mark represents CAUTION (including DANGER and WARNING). Detailed content of CAUTION ("Electric Shock" in the example on the left) is shown in the mark.



Disassembling
Prohibited



Prohibited

The $\textcircled{\text{X}}$ mark represents prohibition. Detailed content of the prohibited action ("Disassembling Prohibited" in the example on the left) is shown in the mark.



Instruction



Instruction

The \bullet mark represents instruction. Detailed content of the instruction ("Disconnect the power plug" in the example on the left) is shown in the mark.

Warning label

There are warning labels on the equipment.

Do not try to remove, break or modify the labels.

Precautions on Operation

WARNING



Before reading and writing of the file by using the USB memory, confirm that there is not a computer virus in the USB memory.

Otherwise they may affect other devices and may cause a malfunction.

CAUTION



Do not insert the disk in the CD/DVD-ROM drive for long time.
Doing so will cause damage to drive.



Do not leave the USB memory in the USB port after use.
Malfunctions may result.


Glossary

AIO	: (Admiralty Information Overlay). AIO is a digital dataset that is designed to be displayed over ENCs in ECDIS to provide additional information to the navigation published by United Kingdom Hydrographic Office (UKHO).
ARCS	: (Admiralty Raster Chart Service). A raster chart published by United Kingdom Hydrographic Office (UKHO).
AVCS	: (Admiralty Vector Chart Service). A vector chart published by United Kingdom Hydrographic Office (UKHO).
Base CD	: Chart CD containing a complete chart data.
Cell permit	: A file containing an encryption key for S-63 chart. Supplied by UKHO (AVCS), PRIMAR, and Hydrographic and Oceanographic Department of Japan Coast Guard.
Chart permit	: A license file for ARCS.
Chart Maintenance	: Software to manage charts. Imports and updates the charts.
C-MAP Ed.3	: (C-MAP Edition 3). A digital chart format by Jeppesen.
Data Server	: Organization providing S-63 chart.
ENC	: (Electronic Navigation Chart). Meaning S-57 and S-63.
eToken Device	: USB dongle needed to import C-MAP Ed.3 Chart.
RPS	: (Route Planning System). Option equipment of ECDIS.
PRIMAR	: A Norwegian company supplying charts. Publisher of encrypted charts, S-63.

RTU	: (Real Time Updating). C-MAP provides a service that can update CM-93/3 chart database via an E-mail.
S-57	: IHO Transfer Standard for Digital Hydrographic Data.
S-63	: IHO Data Protection Scheme.
SA Certificate file	: An electronic file certifying the supplier of S-63 chart. Required for import/update of S-63 chart.
UKHO	: United Kingdom Hydrographic Office.
Update CD	: Chart CD containing only updated content from Base CD. Can be used with Base CD imported.
User permit	: A user-specific code assigned by JRC. Required in using ARCS and S-63 charts.
Import	: A procedure of enabling the chart supplied by Base CD to be displayed on ECDIS.
Update	: A procedure of reflecting the update data supplied by Update CD on the imported chart.
Hydrographic and Oceanographic Department	: Hydrographic and Oceanographic Department of Japan Coast Guard. Publisher of ENC.

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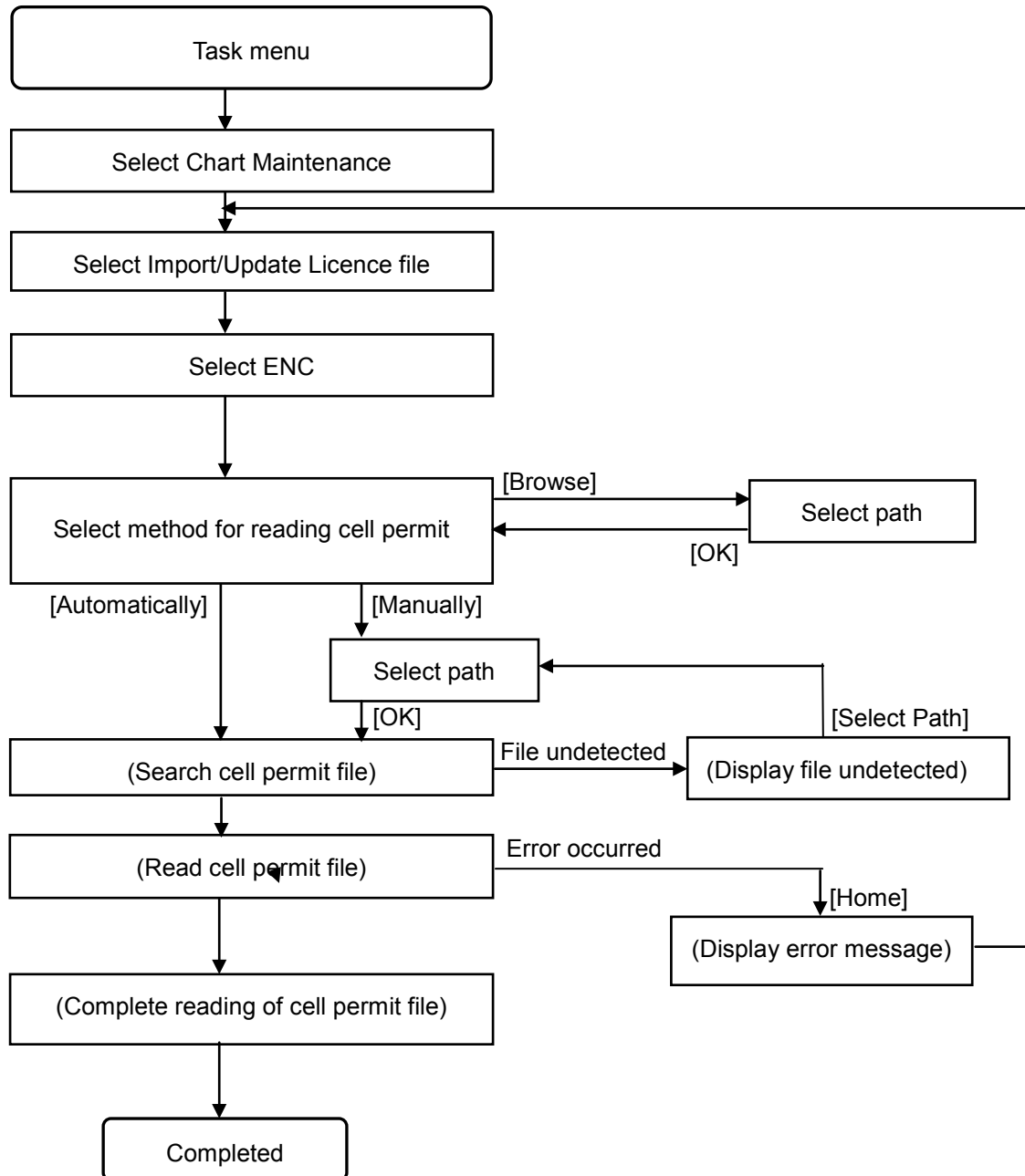
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Overview Flowcharts

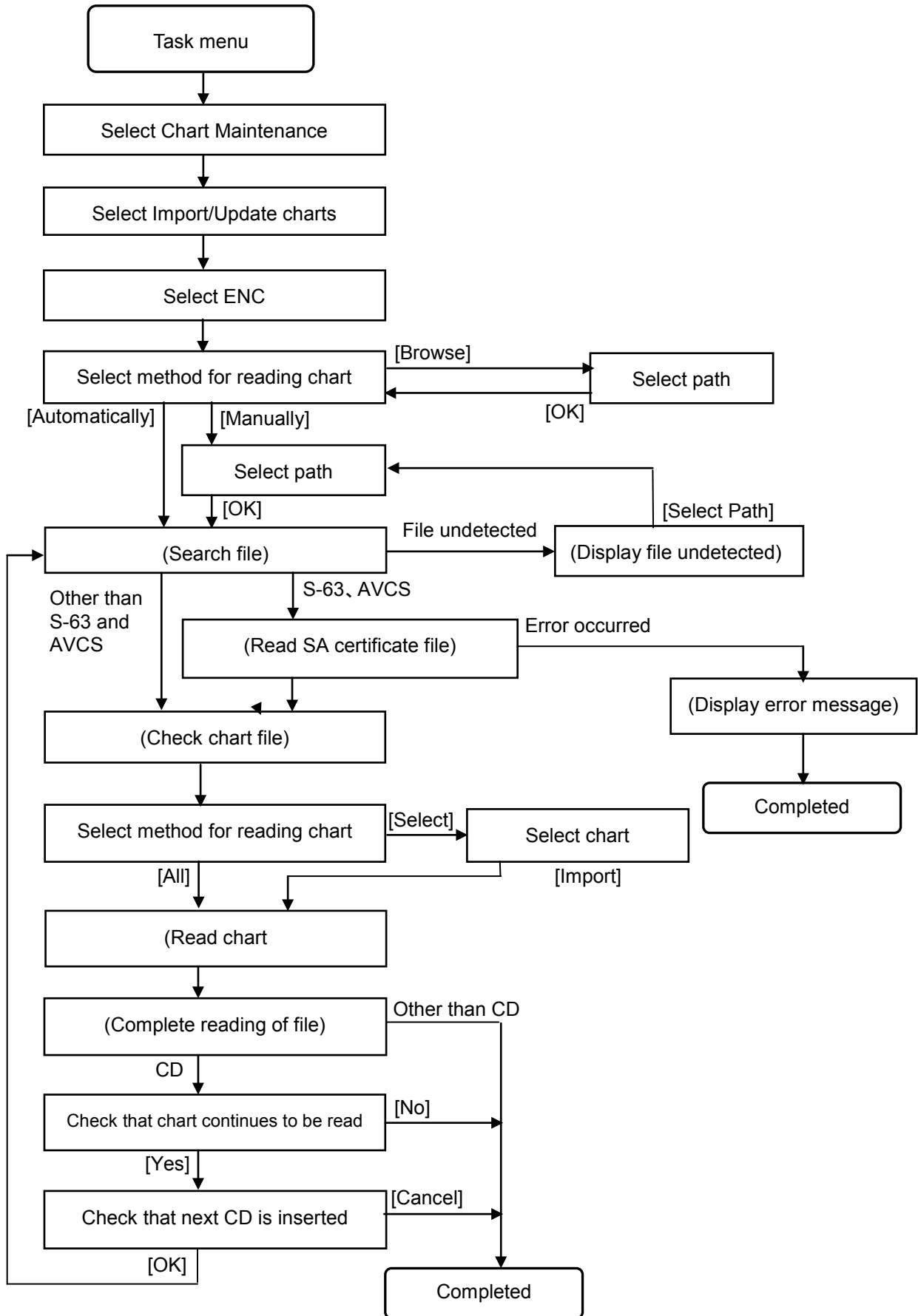
1. Importing/Updating ENC Cell Permit

For more information, please see "2.1.1 Importing Cell Permit Files (S-63, AVCS and AIO)" or "2.3 Updating Cell Permit Files".



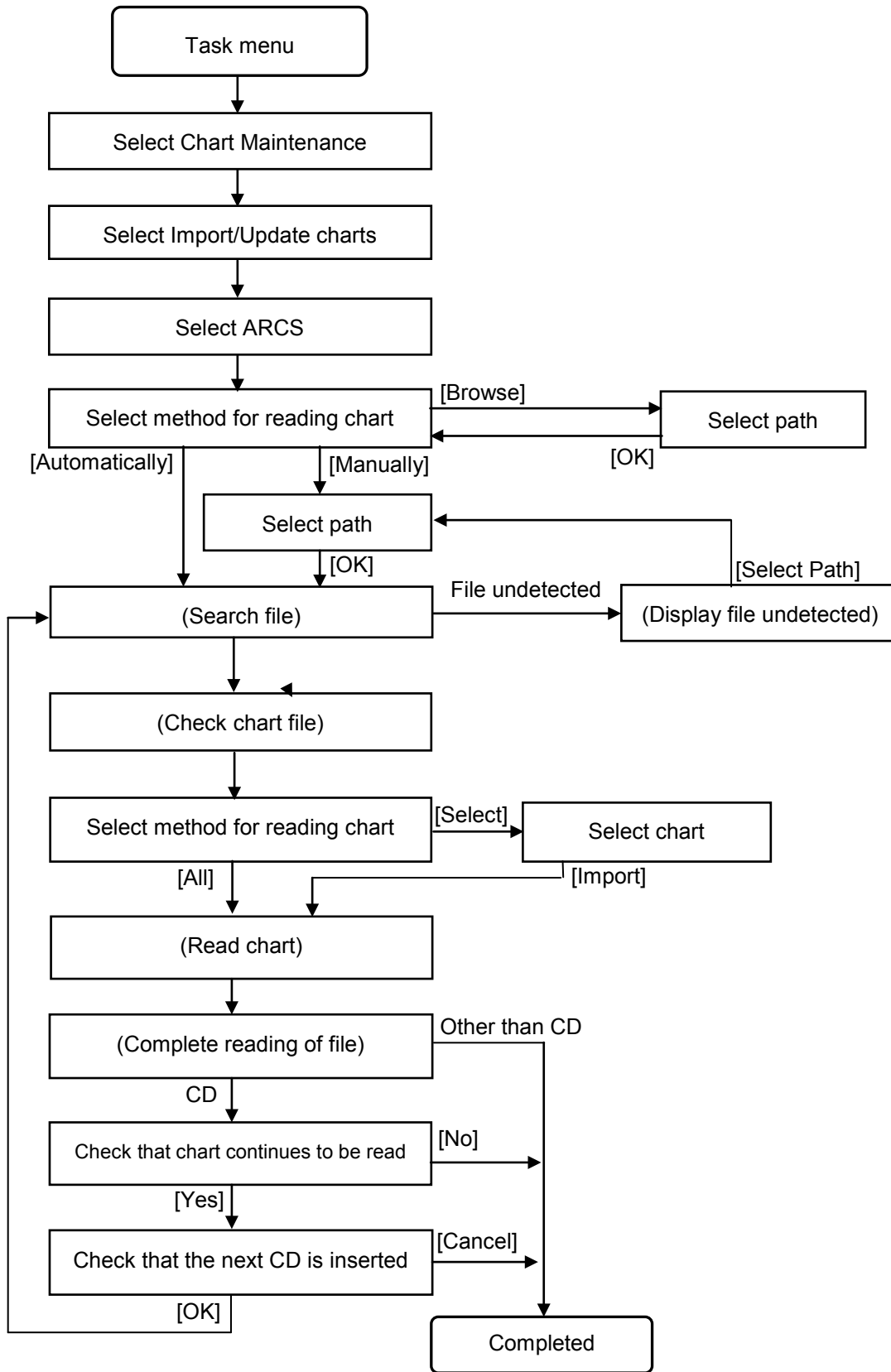
2. Importing/Updating ENC Chart

For more information, please see "2.1.2 Importing Charts" or "2.2 Updating Charts".



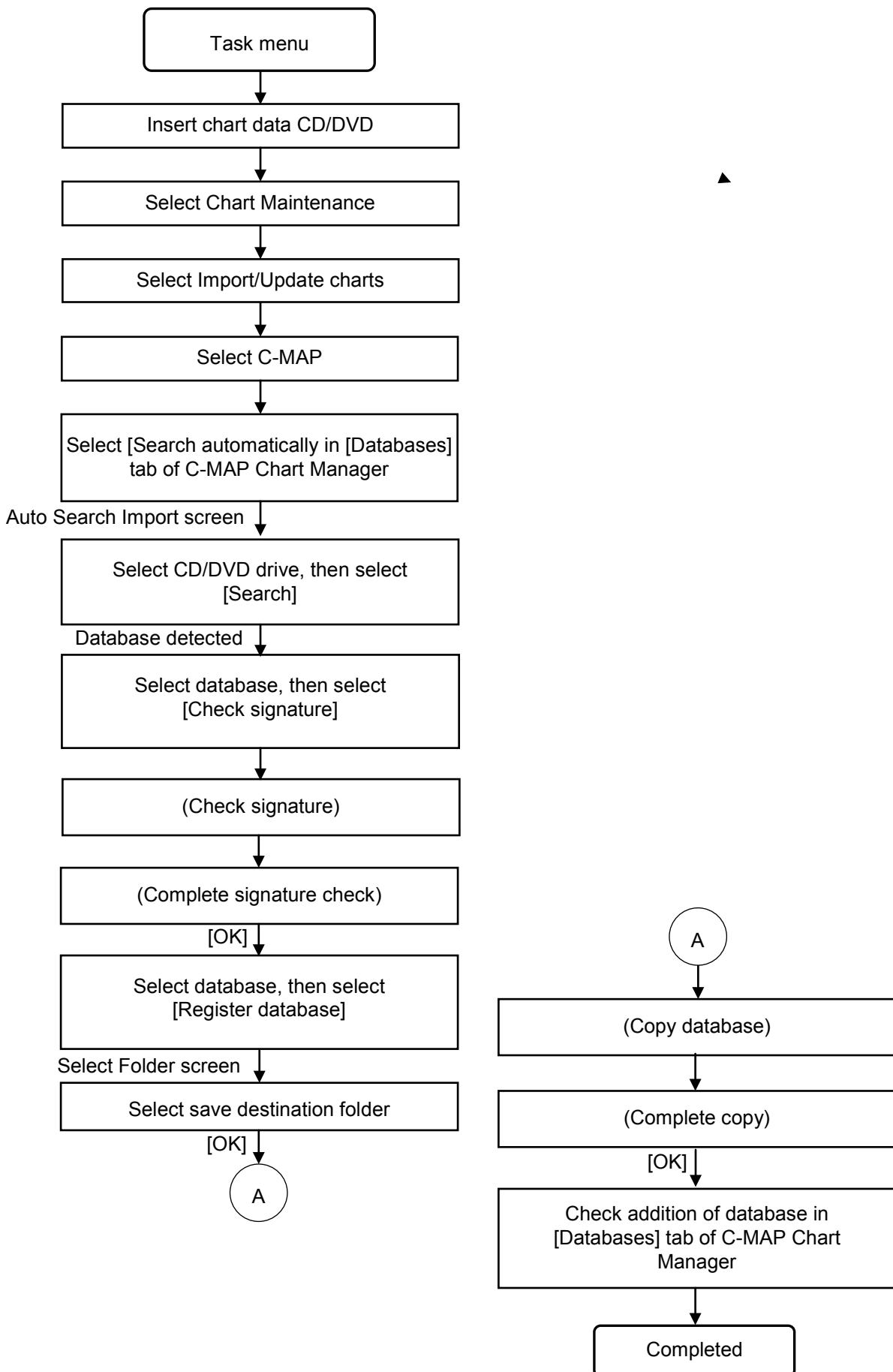
4. Importing/Updating ARCS Chart

For more information, please see "3.2.2 Importing Charts" or "3.3 Updating Charts".



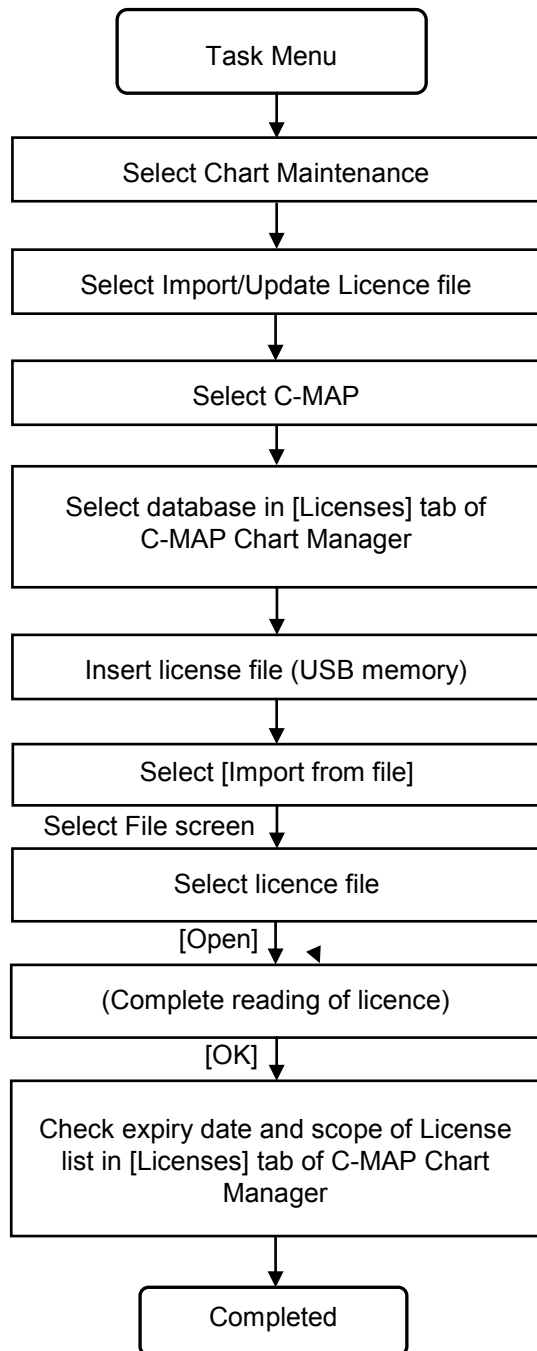
5. Importing C-MAP Ed.3 Chart

For more information, please see “4.3.1 Importing C-MAP Ed.3 Charts”.



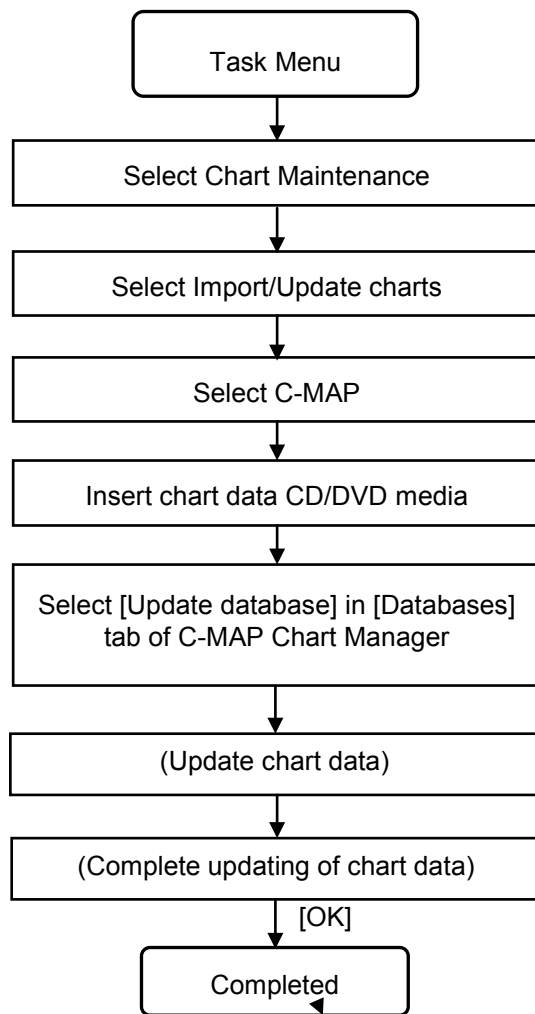
6. Importing C-MAP Ed.3 License (Static License)

For more information, please see “4.3.2.1 In the Case of Static Licence”.



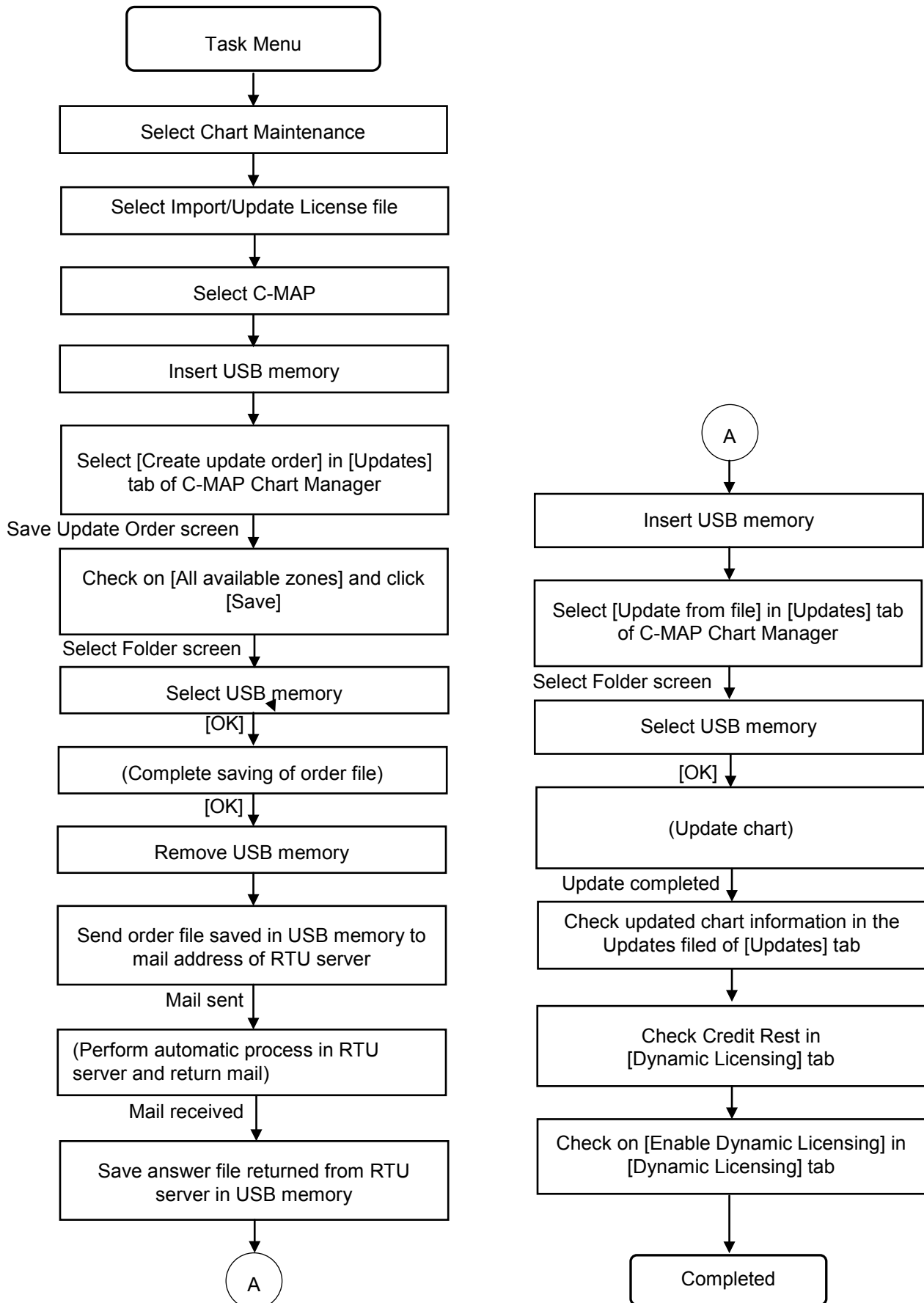
7. Updating C-MAP Ed.3 Chart (Using CD/DVD Media)

For more information, please see “4.4.1 Updating C-MAP Ed.3 Charts by Using CD (or DVD)”.



8. Importing C-MAP Ed.3 License and Reporting for License (Dynamic License)

For more information, please see “4.3.2.2 In the Case of Dynamic Licence”, “4.4.2 Updating C-MAP Ed.3Charts with RTU” or “4.5 Reporting the Use of Dynamic License”.



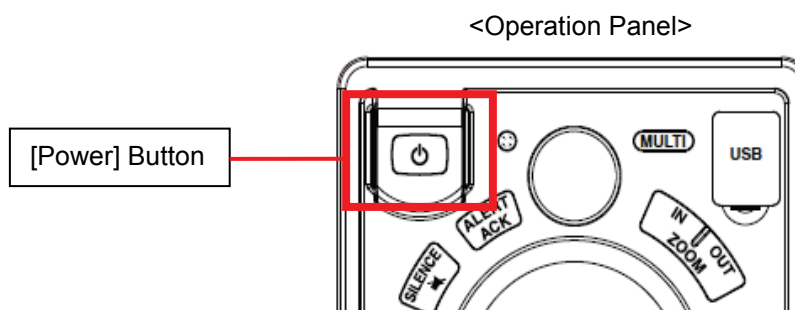
Section 1 Procedures for Starting and Exiting Chart Maintenance

1.1 Starting Chart Maintenance

1.1.1 Starting from Task Menu

On Task Menu, start Chart Maintenance according to the following procedure.

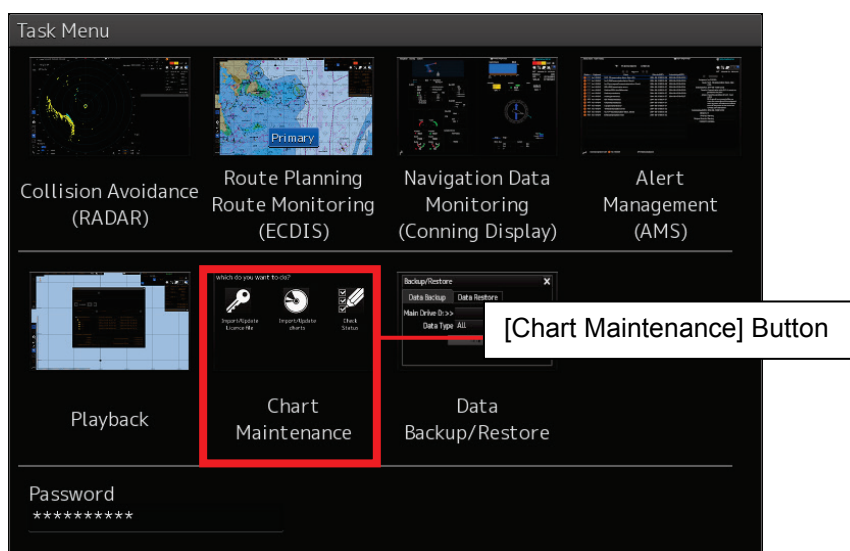
- 1) Turn on the power by pressing the [Power] button on the operation panel.



Task Menu appears after a while.

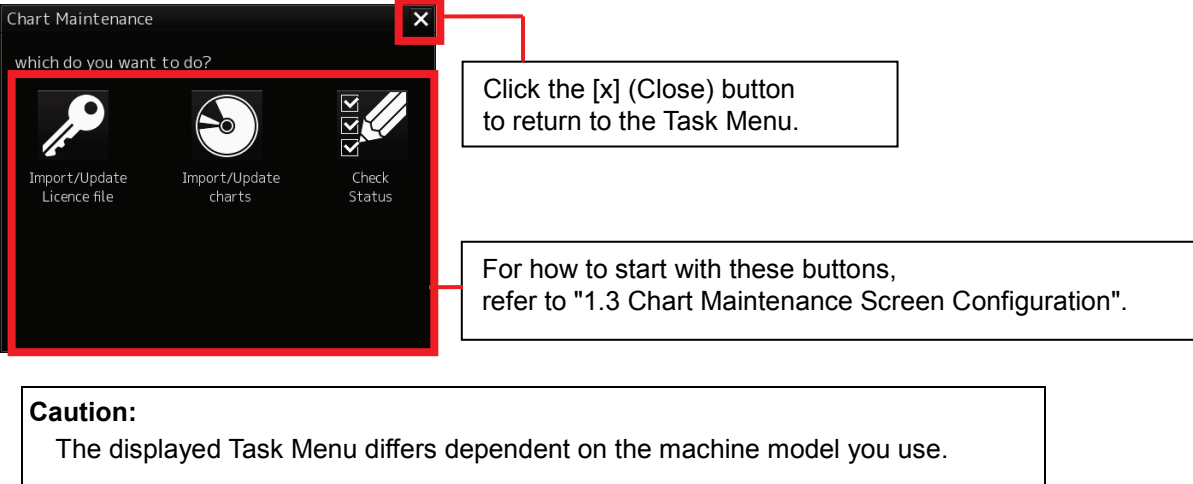
- 2) Move the cursor and click the [Chart Maintenance] button on Task Menu.

<Task Menu>



The Chart Maintenance screen appears.

<Chart Maintenance Screen>



which do you want to do?

Import/Update Licence file Import/Update charts Check Status

Click the [x] (Close) button to return to the Task Menu.

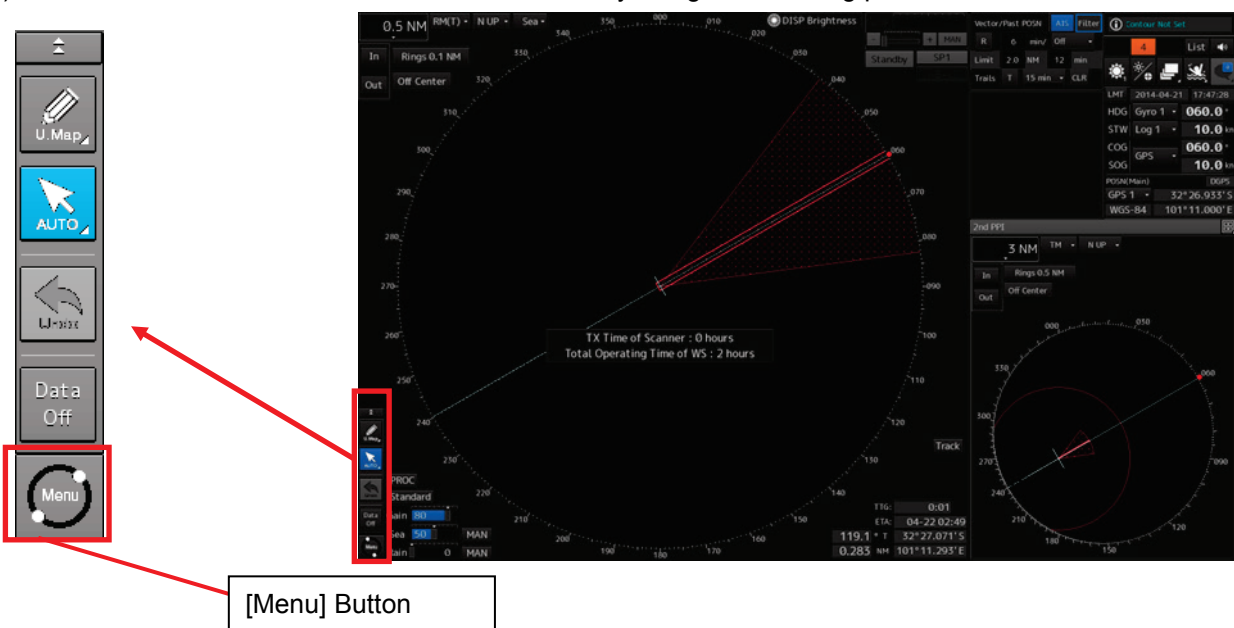
For how to start with these buttons, refer to "1.3 Chart Maintenance Screen Configuration".

Caution:
The displayed Task Menu differs dependent on the machine model you use.

1.1.2 Starting from the RADAR Screen

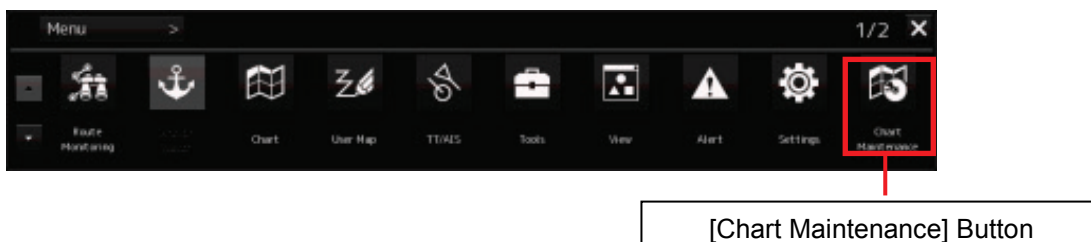
In the RADAR screen, start Chart Maintenance according to the following procedure.

- 1) Start Chart Maintenance on the RADAR screen by using the following procedure.



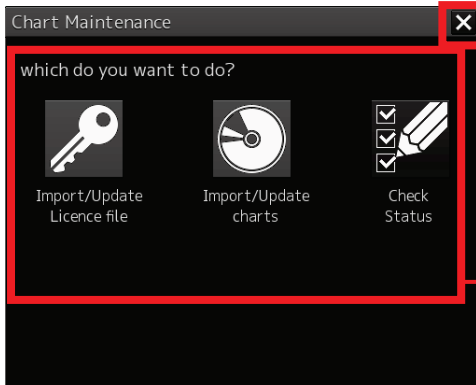
[Menu] Button

- 2) Click on the [Chart Maintenance] button on the Menu screen.



[Chart Maintenance] Button

The Chart Maintenance screen is displayed.



When the [X] button is clicked, the RADAR screen is displayed.

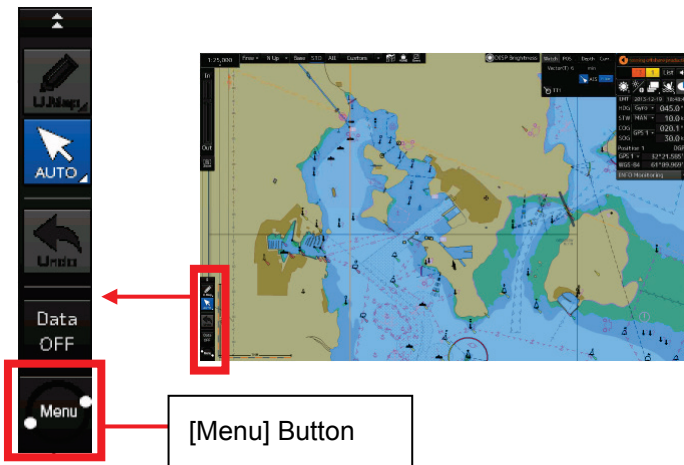
For how to start with these buttons, refer to “1.3 Chart Maintenance Screen Configuration”.

When Chart Maintenance is started from the RADAR screen, neither Import/Update Licence file nor Import/Update charts can be executed.

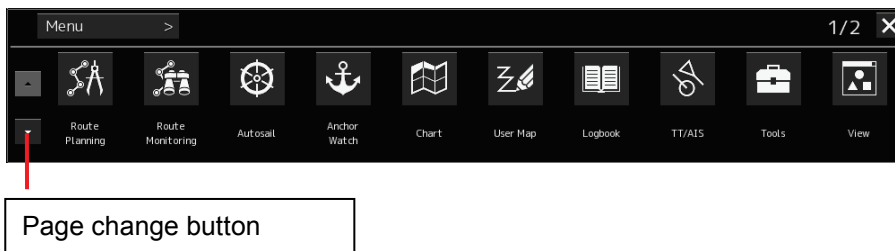
1.1.3 Procedure for Starting from the ECDIS Screen

In the ECDIS screen, start Chart Maintenance according to the following procedure.

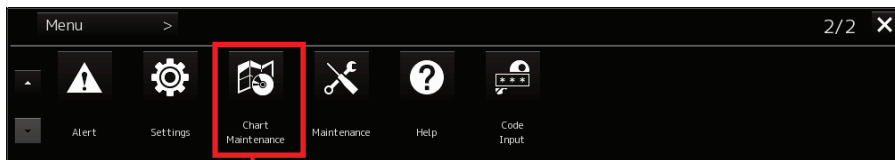
- 1) Click the [Menu] button on the ECDIS screen.



- 2) Change the page to the 2nd page by clicking on the page change button on the Menu screen.

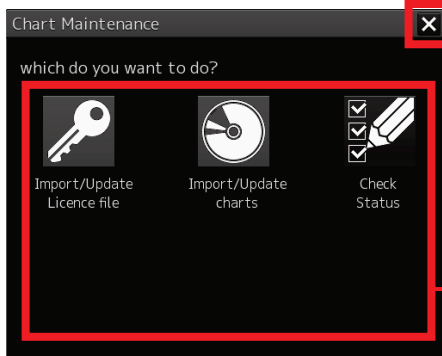


3) Click the [Chart Maintenance] button in the 2nd page of the Menu screen.



[Chart Maintenance] Button

The Chart Maintenance screen appears.



Click the [x] button to return to the ECDIS screen.

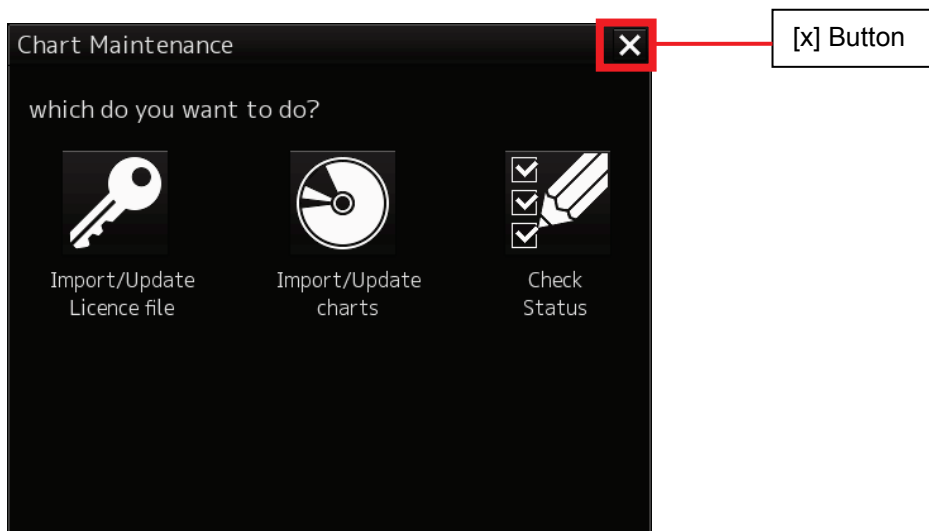
For how to start with these buttons, refer to "1.3 Chart Maintenance Screen Configuration".

When Chart Maintenance is started from the ECDIS screen, neither Import/Update Licence file nor Import/Update charts can be executed.

1.2 Exiting Chart Maintenance

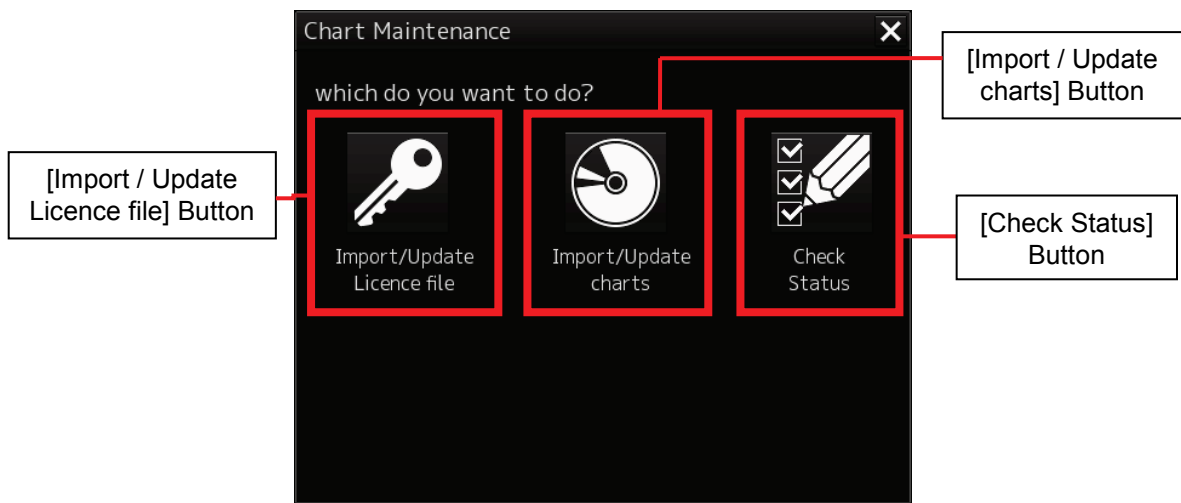
Exit Chart Maintenance according to the following procedure. The procedure for exiting Chart Maintenance is the same for Task Menu, ECDIS screen and RADAR screen.

- 1) Click the [x] button on the Chart Maintenance screen.



1.3 Chart Maintenance Screen Configuration

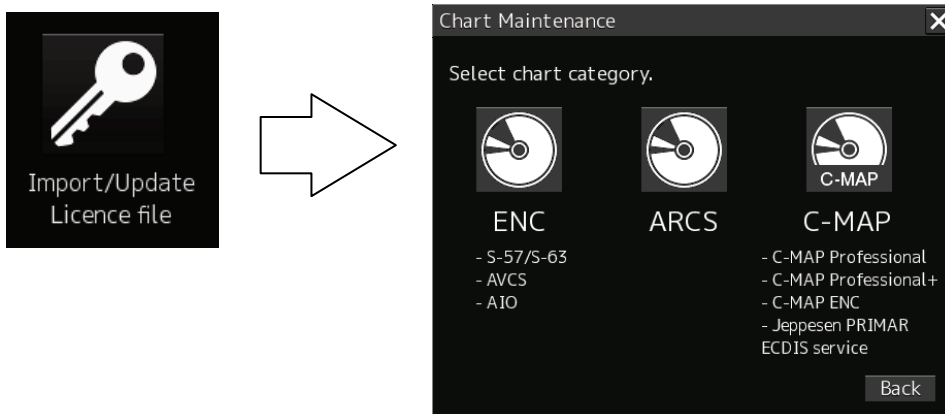
<Chart Maintenance Screen>



[Import / Update Licence file]

Pressing this button moves to the Import/Update screen for the chart licence file.

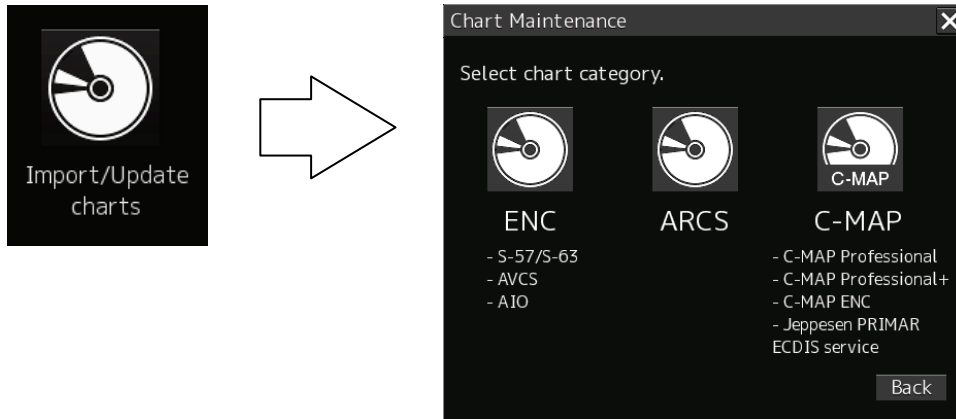
- Import/update ENC S-63 cell permit files, AVCS cell permit files and AIO cell permit files.
- Import/update ARCS chart permit files.
- Import/update C-MAP Ed.3 licenses.



[Import / Update charts]

Pressing this button moves to the Import/Update screen for charts.

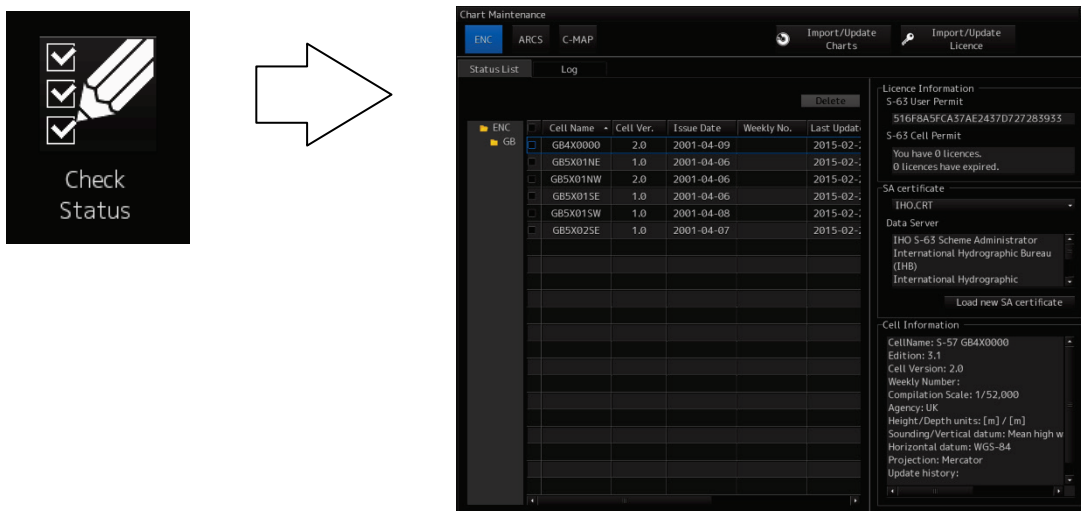
- Import/Update ENC S-57/S-63 charts, AVCS charts and AIO data.
- Import/update ARCS charts.
- Import/update C-MAP Ed.3 charts.



[Check Status]

Pressing this button moves to the Status screen.

- Displays license information.
- Displays a list of imported charts.
- Deletes charts.
- Displays a log recorded when importing/updating licenses and charts.



Section 2 Using ENC Charts

2.1 Importing ENC S-57/S-63 Charts, AVCS Charts and AIO Data

S-63 chart, AVCS chart, AIO data in the case of use, import them after importing a cell permit file. (Perform the operations described in "2.1.1 Importing Cell Permit Files (S-63, AVCS and AIO)" and then "2.1.2 Importing Charts" in this order.)

S-57 chart in the case of use, not necessary to import a cell permit.

Perform the operation only of "2.1.2 Import chart".

WARNING



When importing/exporting files using USB memory, be sure to check for viruses on USB memory in advance. If the ECDIS is infected with a virus, it will affect other devices, leading to failures.

CAUTION



Never leave USB memory in the USB port.
Doing so may cause device failure.

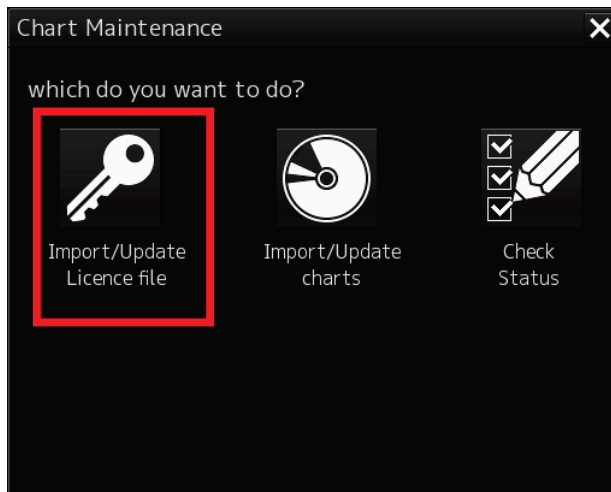
2.1.1 Importing Cell Permit Files (S-63, AVCS and AIO)

2.1.1.1 Importing Cell Permit Files from CD/DVD Media (Automatic Import)

The following example describes the procedure for importing cell permit files from CD/DVD media.

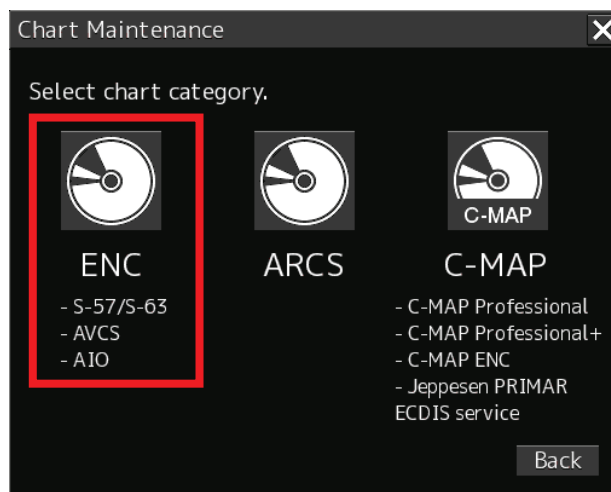
- 1) Start Chart Maintenance from Task Menu.
- 2) In the Home window, click the [Import / Update Licence file] button.

<Home Window>



- 3) In the Chart Category Selection window, click the [ENC] button.

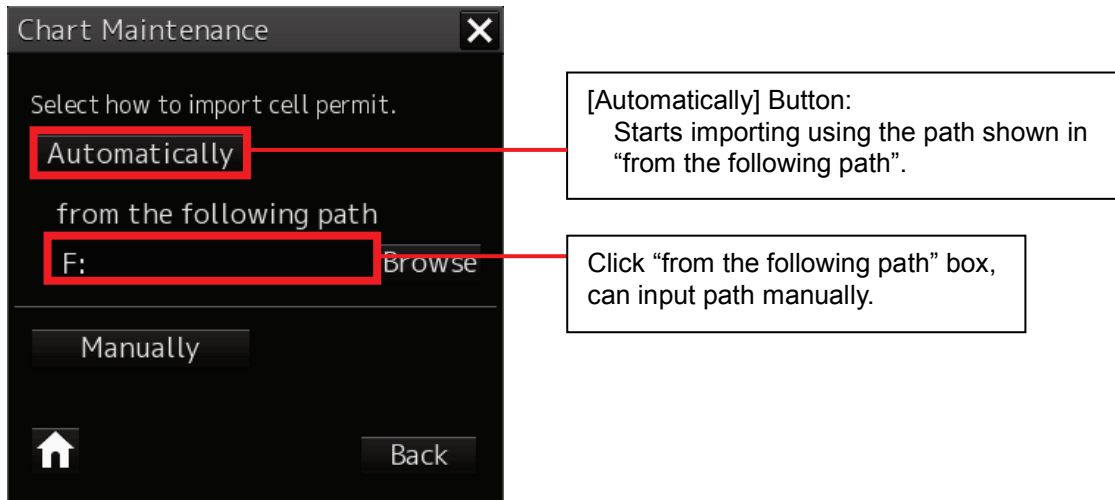
<Chart Category Selection Window>



- 4) Insert CD/DVD medium on which the cell permit file is stored and wait until import becomes ready.

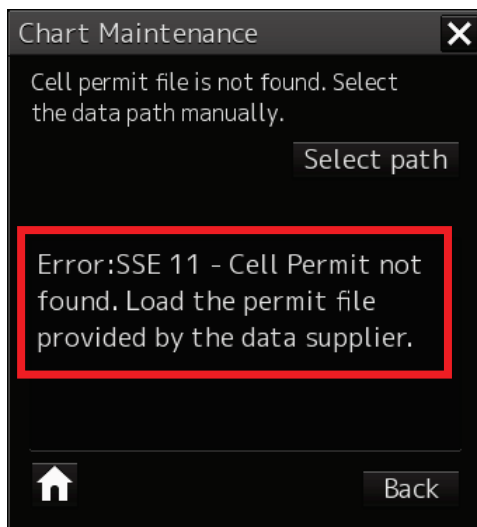
- 5) In the Cell Permit File Import Selection Window, click the [Automatically] button. Search a cell permit file from the path shown in “from the following path” and start importing it.

<Cell Permit File Import Selection Window>



If a cell permit file cannot be found, a file not found error message appears in the text box. By referring to "2.1.1.3 If a Cell Permit File Cannot Be Found (Resume by Specifying a Path)", respecify a path.

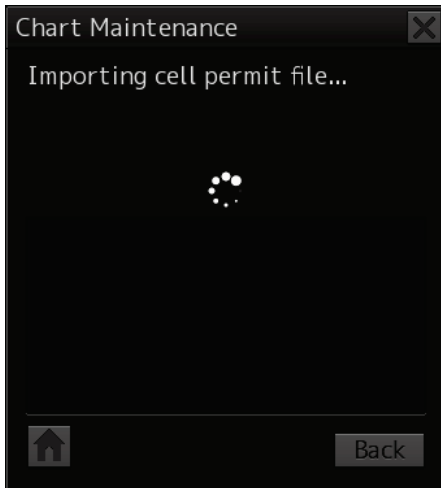
<Cell Permit File Not Found Window>



- Cell Permit File Importing Window

Import the detected cell permit file to the system.

<Cell Permit File Importing Window>

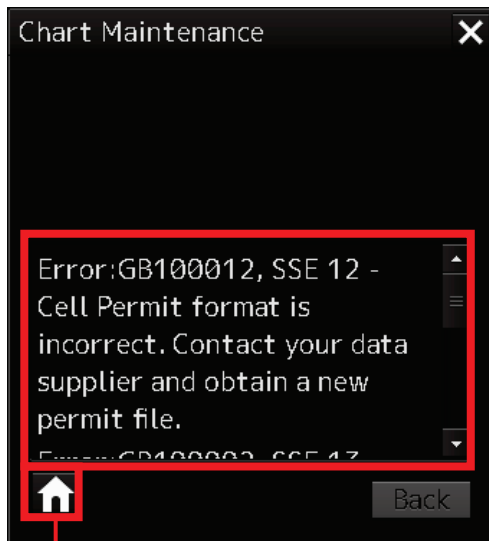


If the cell permit file is incorrect:

If a cell permit file is incorrect, an error message appears in the text box.

Stop importing with the [Home] button and redo import operation using a correct cell permit file.

<File Import Error Window>



[Home] Button:
Returns to the Home window.

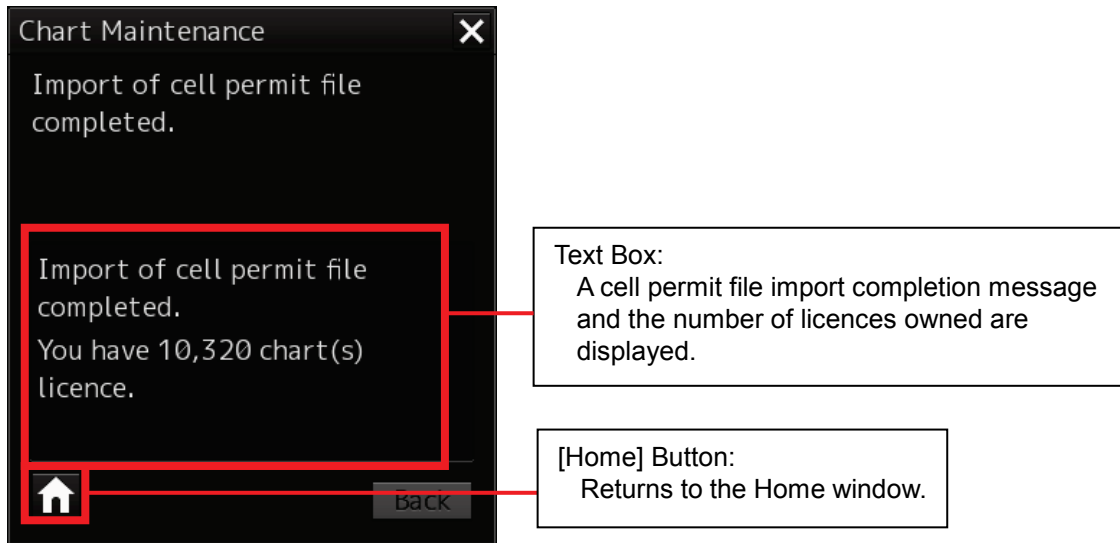
■ Examples of error messages if a cell permit file is incorrect

"SSE 12 - Cell Permit format is incorrect. Contact your data supplier and obtain a new permit file."...The format of the cell permit file is incorrect.

"SSE 13 - Cell Permit is invalid (checksum is incorrect) or the Cell Permit is for a different system. Contact your data supplier and obtain a new or valid permit file."...The CRC of the cell permit does not match.

- 6) When the import of a cell permit file is completed, a completion message and the number of licences owned appear in the text box, so check the result.

<Cell Permit File Import Completion Window>



- 7) Click the [Home] button to finish importing.

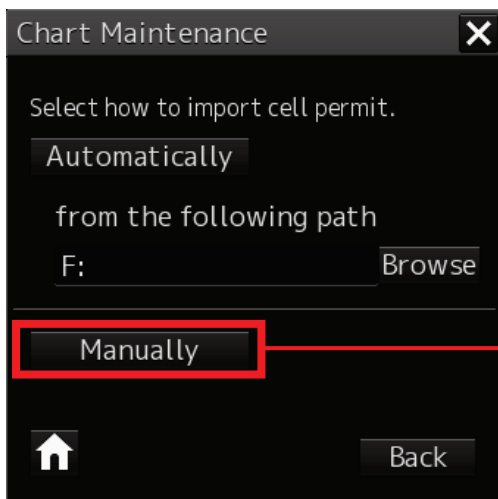
2.1.1.2 Importing Cell Permit Files from USB Memory (Manual Import)

When importing cell permit files from devices other than the DVD drive, such as USB memory and a hard disk, set up the import path first and then import them.

The following example describes the procedure for importing cell permit files from USB memory (F drive).

- 1) Start Chart Maintenance from Task Menu.
- 2) In the Home window, click the [Import / Update Licence file] button.
- 3) In the Chart Category Selection window, click the [ENC] button.
(The operation is the same as described in "2.1.1.1 Importing Cell Permit Files from CD/DVD Media (Automatic Import) " up to here.)
- 4) Insert USB memory on which the cell permit file is stored and wait until import becomes ready.
- 5) In the Cell Permit File Import Selection window, click the [Manually] button. The Cell Permit File Path Selection window appears.

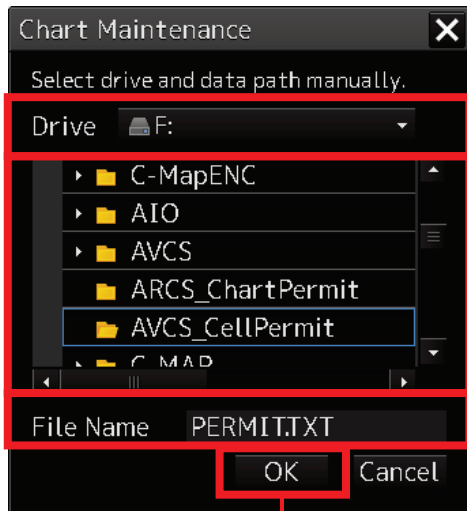
<Cell Permit File Import Selection Window>



[Manually] Button:
Select a path and then start importing.

- 6) Specify USB memory (F drive) in Drive. Also, specify a folder containing a cell permit file. When a folder containing a cell permit file is selected, the cell permit file name is displayed in the text box.

<Path Selection Window>



Drive Name:
Select a drive.

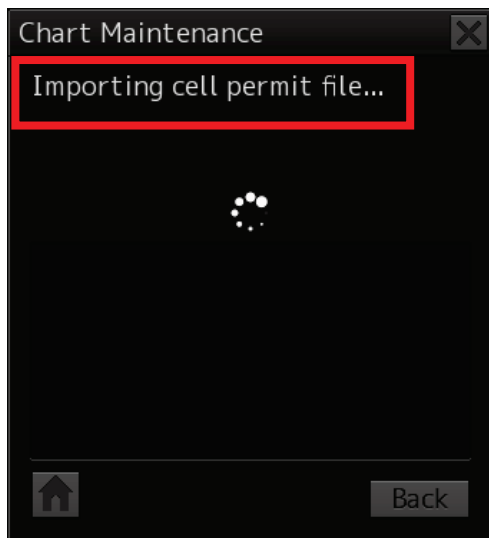
Folder name:
Select a folder.
The folders on the drive selected in Drive are displayed in a tree structure.

Text Box:
When a cell permit file is stored in the selected folder, the cell permit file name is displayed.

[OK] Button:
Pressing this button starts importing the cell permit file using the selected path.

- 7) Click the [OK] button. The import of the cell permit file starts using the selected path.

<Cell Permit File Import Window>



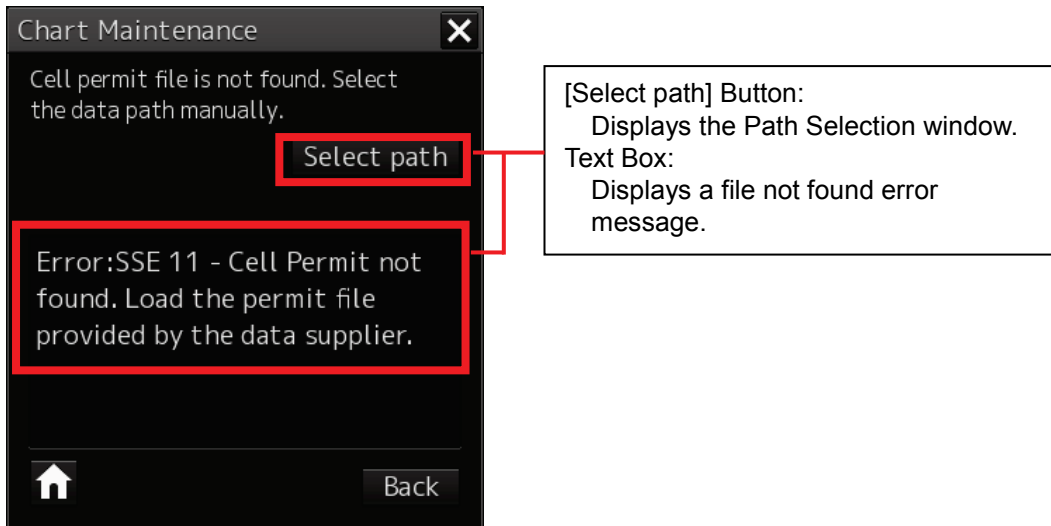
- 8) When the import of a cell permit file is completed, a completion message and the number of licences owned appear in the text box, so check the result.
- 9) Click the [Home] button to finish importing.

2.1.1.3 If a Cell Permit File Cannot Be Found (Resume by Specifying a Path)

If a cell permit file cannot be found in the Cell Permit File Search window, a file not found error message appears in the text box. Click the [Select path] button to respecify a path.

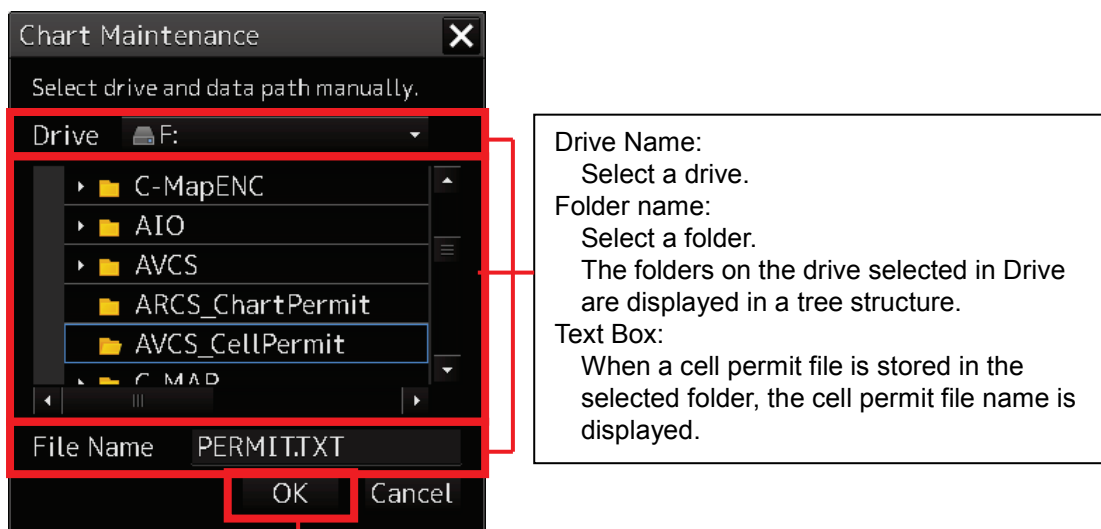
The following example describes the procedure from how to specify a path to how to resume importing a cell permit file by changing to USB memory (F drive).

<Cell Permit File Not Found Window>



- 1) In the Cell Permit File Not Found window, click [Select path]. Display the Path Selection window.
- 2) Specify USB memory (F drive) in Drive. Also, specify a folder containing a cell permit file. When a folder containing a cell permit file is selected, the cell permit file name is displayed in the text box.

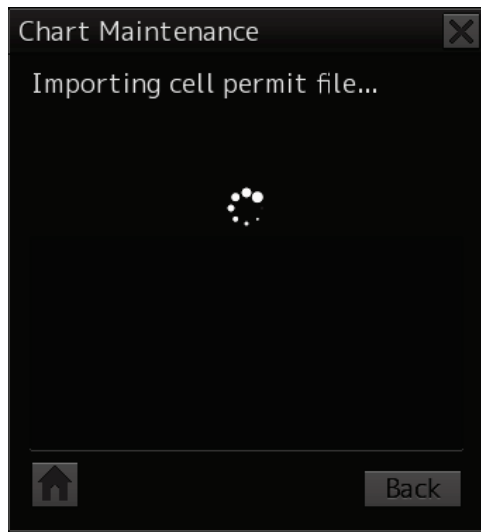
<Path Selection Window>



[OK] Button:
Pressing this button starts importing the cell permit file using the selected path.

- 3) Click the [OK] button. The import of the cell permit file resumes using the selected path.

<Cell Permit File Import Window>



- 4) When the import of a cell permit file is completed, a completion message and the number of licences owned appear in the text box, so check the result.
- 5) Click the [Home] button to finish importing.

2.1.1.4 Changing a Path to Use for Automatic Import

If a path is selected with the [Browse] button when always using USB memory to import cell permit files, the selected path will be saved as a path used by the auto-import. Cell permit files can then be imported with the [Automatically] button from the saved path thereafter.

The following example describes how to change "path used by the auto-import" by changing to USB memory (F drive).

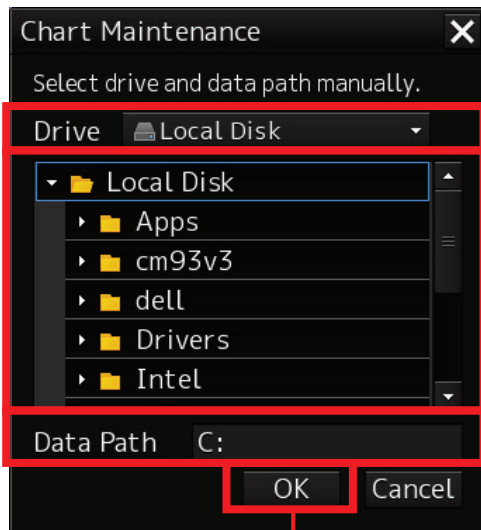
- 1) Start Chart Maintenance from Task Menu.
- 2) In the Home window, click the [Import / Update Licence file] button.
- 3) In the Chart Category Selection window, click the [ENC] button.
(The operation is the same as described in "2.1.1.1 Importing Cell Permit Files from CD/DVD Media (Automatic Import)" up to here.)
- 4) Insert USB memory on which the cell permit file is stored and wait until import becomes ready.
- 5) In the Cell Permit File Import Selection window, click the [Browse] button. The Cell Permit File Path Selection window appears.

<Cell Permit File Import Selection Window>



- Specify USB memory (drive F) as the drive name and select the path to be used by auto-import.
If a folder is selected, data path is displayed in the text box.

<Path Selection Window>



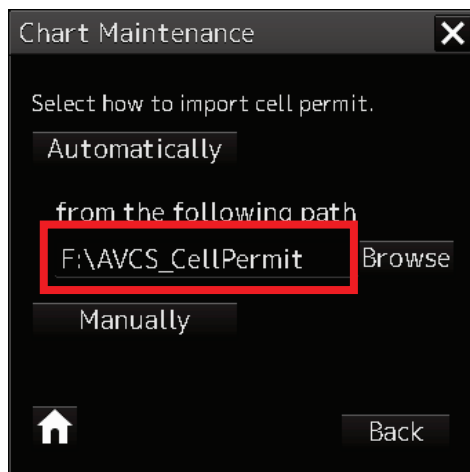
Drive Name:
Select a drive.

Folder name:
Select a folder.
The folders on the drive selected in Drive are displayed in a tree structure.

Text Box:
When a cell permit file is stored in the selected folder, the cell permit file name is displayed.

[OK] Button:
Changes "path used by the auto-import" with the path by which the cell permit file was selected.

- Click the [OK] button. Set the path selected as the path to be used in auto-import.



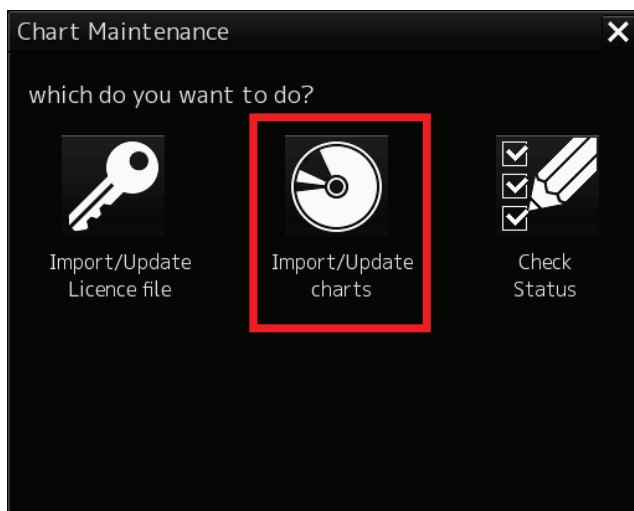
2.1.2 Importing Charts

2.1.2.1 Importing Charts from CD/DVD Media (Automatic Import)

The following example describes the procedure for importing S-57/S-63 charts, AVCS charts and AIO data from CD/DVD media.

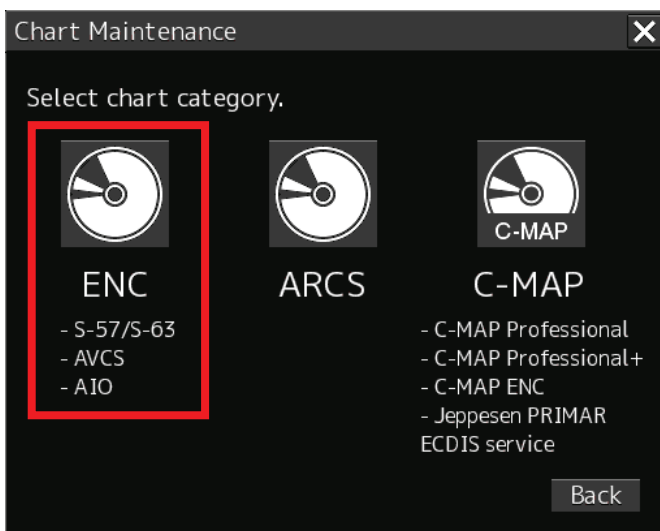
- 1) Start Chart Maintenance from Task Menu.
- 2) In the Home window, click the [Import / Update charts] button.

<Home Window>



- 3) In the Chart Category Selection window, click the [ENC] button.

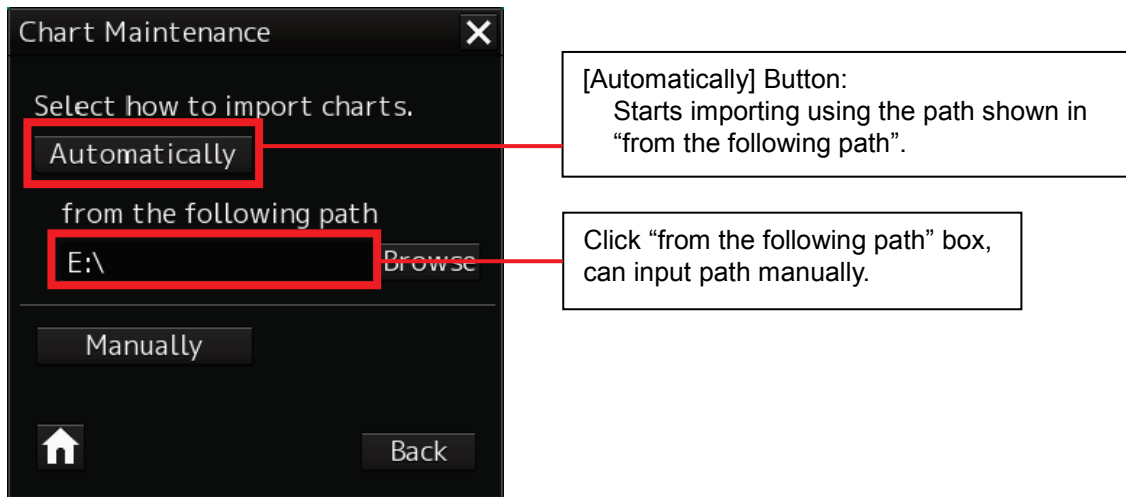
<Chart Category Selection Window>



- 4) Insert CD/DVD medium on which chart data (or AIO data) is stored and wait until import becomes ready.

- 5) In the Chart Import Selection window, click the [Automatically] button. Search chart data from the path shown in “from the following path” and start importing it.

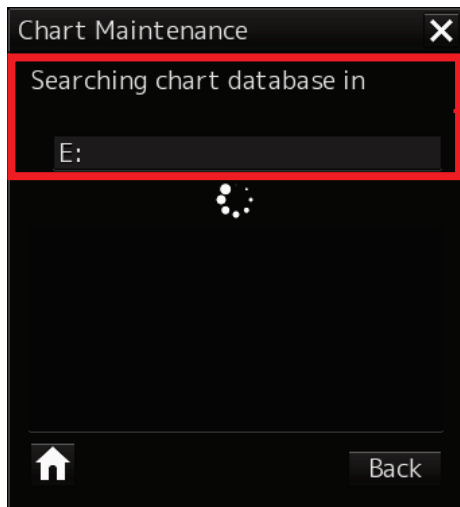
<Chart Import Selection Window>



- Chart Search Window

Search chart data.

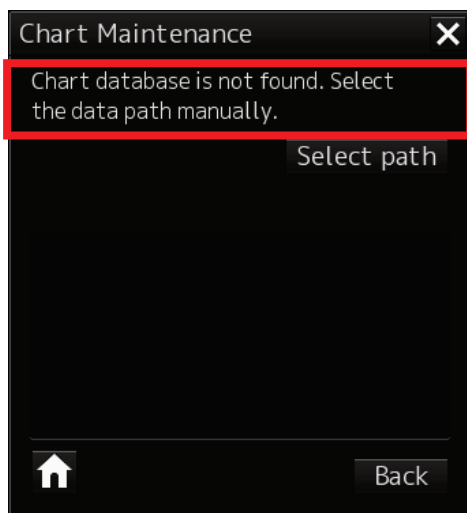
<Chart Search Window>



Searches chart data using the path shown in "Searching chart database in".

If chart data cannot be found, a data not found error message appears. By referring to "2.1.2.3 If Chart Data Cannot Be Found (Resume by Specifying a Path)", respecify a path.

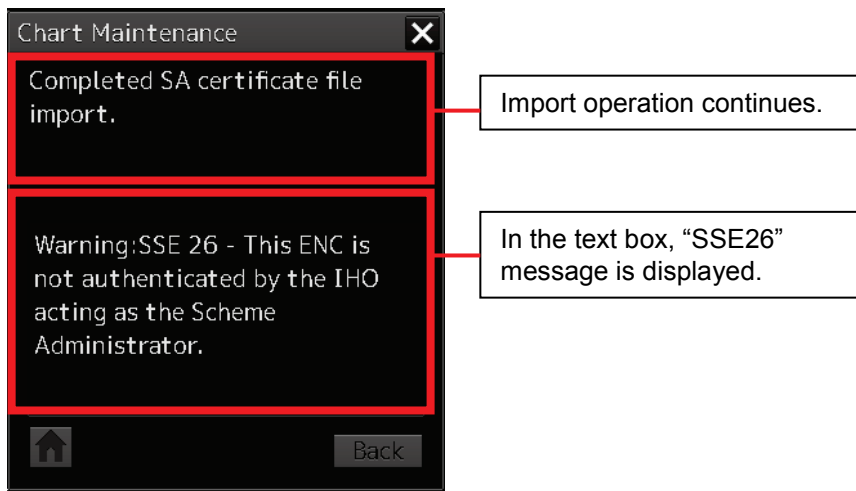
<Chart Not Found Window>



In the case of S-63 charts or AVCS charts, Check the SA certificate file.
(In the case of S-57 charts and AIO data, skip and check chart data.>

When an SA certificate file is other than IHO.CRT, "SSE26" error message appears; however, it is not an error, so import operation continues.

<When an SA Certificate File Is Other than IHO.CRT>



If SA certificate files cannot be imported normally:

If SA certificate files cannot be imported normally such as when SA certificate files cannot be found, an error message appears and import operation stops.

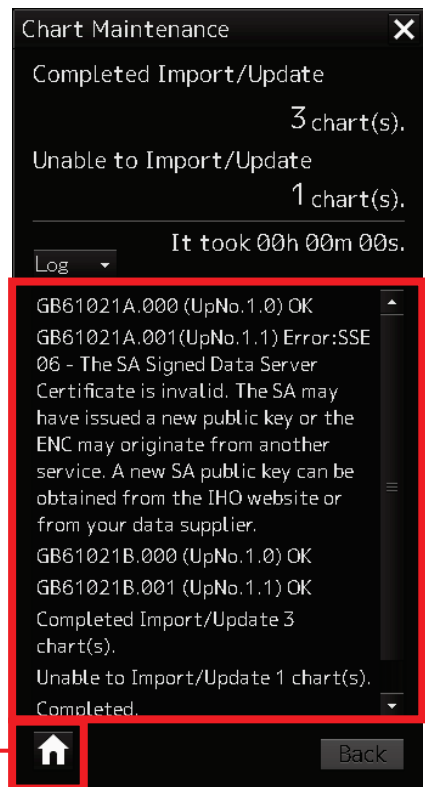
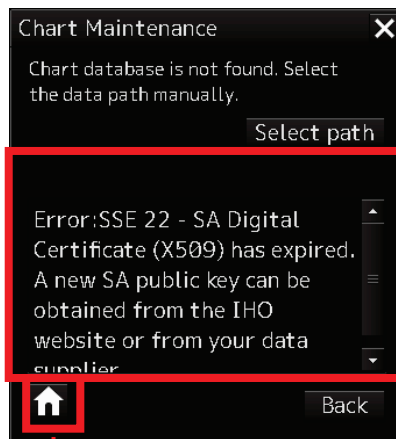
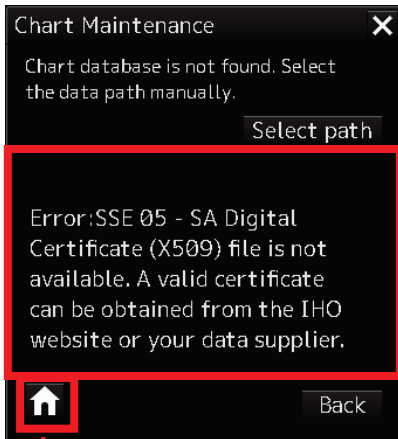
Close the Import window using the [Home] button, prepare a medium containing a normal SA certificate file first, and then import charts from the beginning.

■ **Examples of Error Message Generations**

<When a file cannot be found>

<Expiry data has been reached>

<A file is incorrect>

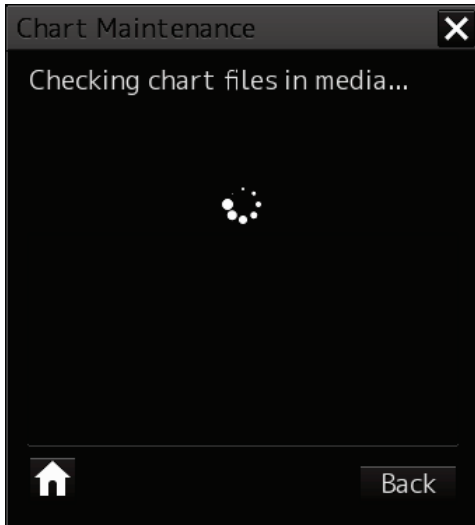


[Home] Button:
Returns to the Home window.

- Chart Data Check Window

Check chart data.

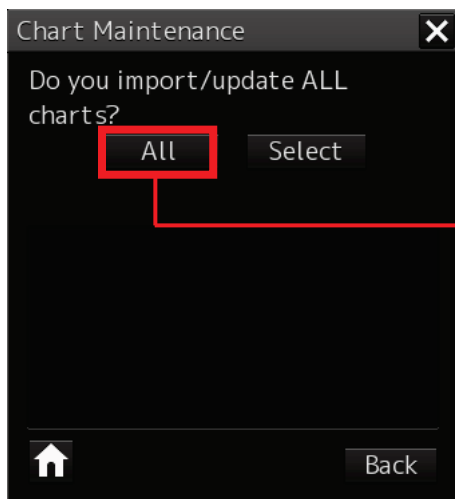
<Chart Data Check Window>



- 6) When chart data check is completed, the Chart Import Method Selection window appears. Click the [All] button. The import of chart data with chart licence starts.

In the case of chart update, all the charts newer than already imported charts will be imported from charts with chart licence.

<Chart Import Method Selection Window>

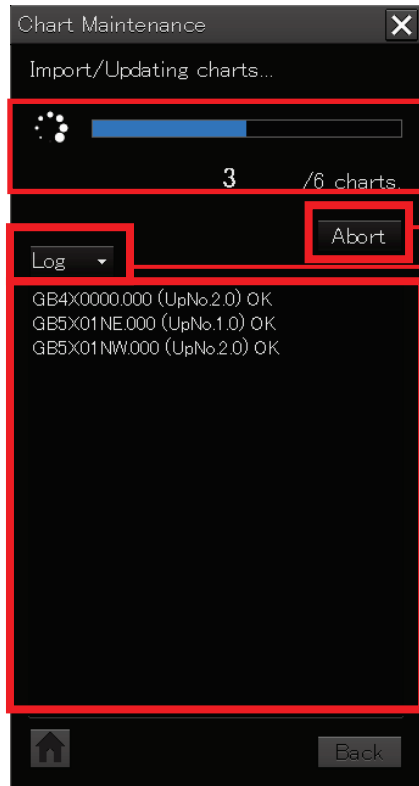


[All] Button:
Imports all charts that require update.

When the [Select] button is pressed, charts to be imported can be selected individually for import. For more information about operation, see "2.1.2.5 Importing Charts by Selecting".

When chart import is started, the number of imported charts is displayed and progress is shown by a progress bar.

<Chart Import Progress Window (When Displaying Import Log)>



Progress Bar:
Displays the progress of import.

[Log Display Switch] Button:
Switches between show/hide of import log.

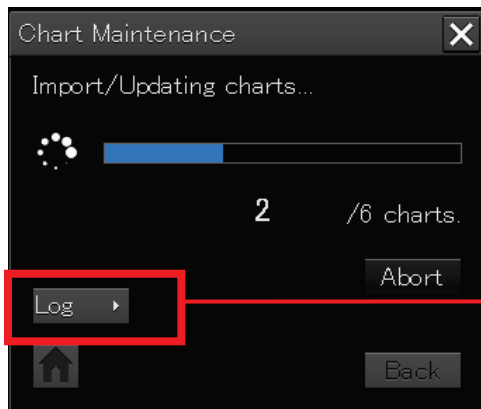
Import Log:
Displays a log during import.

[Abort] Button
Import stopping confirmation message is displayed.
Stops the import click the [OK] button.

When the [Log Display Switch] button is selected:

When the [Log Display Switch] button is clicked, the log text box is hidden.

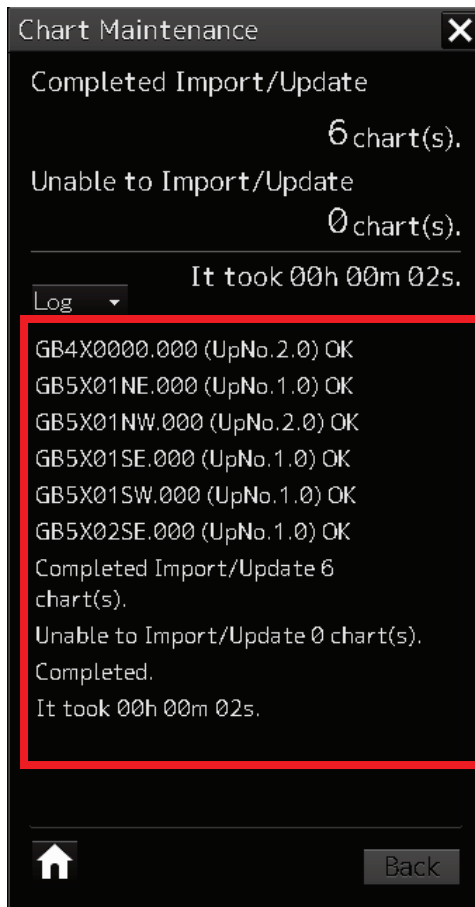
<Chart Import Progress Window (When Hiding Import Log)>



[Log Display Switch] Button:
Switches between show/hide of import log.

- 7) When the import of chart data is finished, the number of imported charts is displayed
List of messages for each chart appears in the log text box.

<Chart Import Completion Window>

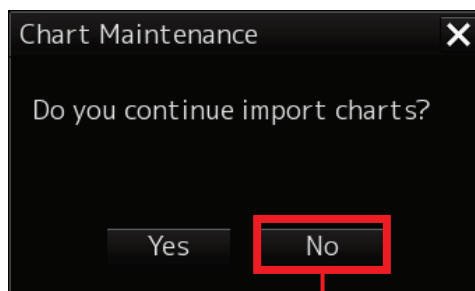


Log Text Box:
Import log and import completion messages are displayed.

- 8) In the case of CD/DVD media, the chart import continuation confirmation dialog appears after import is completed.

If charts have been imported from all CD/DVD media, click the [No] button.
Finish chart import and close the window.

<Chart Import Continuation Confirmation Dialog Box>

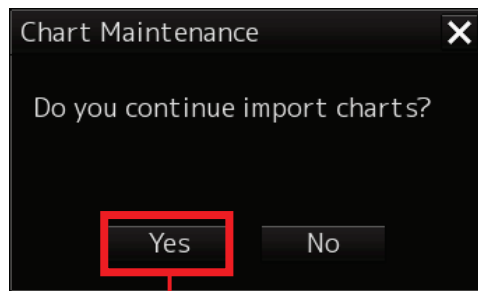


[No] Button:
Finish chart import and close the dialog box.

If there are still charts to be imported:

If there are still charts that need to be imported, click the [Yes] button in the Chart Import Continuation dialog box. The Chart CD/DVD Media Insertion Window appears, so change CD/DVD medium and click the [OK] button.

<Chart Import Continuation Confirmation Dialog Box>



[Yes] Button:
Continues chart import. The Chart CD/DVD Media Insertion Confirmation dialog box appears.

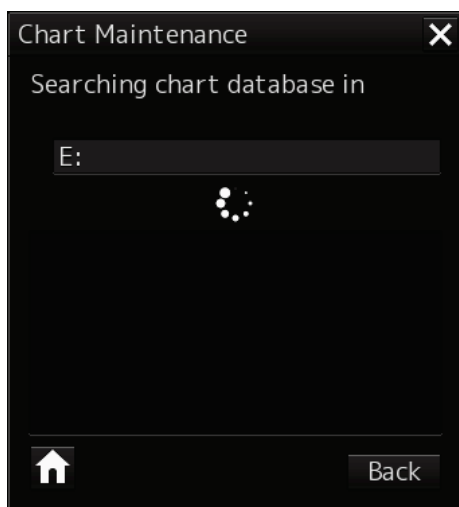
<Chart CD/DVD Media Insertion Confirmation Dialog Box>



[OK] Button:
Starts searching charts on CD/DVD medium.

Chart data search is performed. For the succeeding operation, see page 2-14 "<Chart Search Window>

<Chart Search Window>



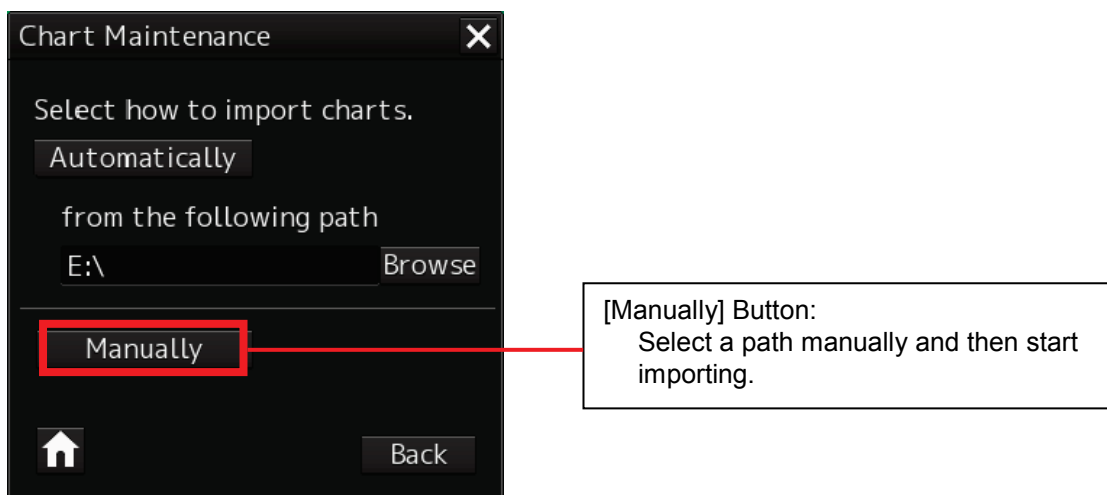
2.1.2.2 Importing Charts from USB Memory (Manual Import)

When importing chart data from devices other than the DVD drive, such as USB memory and a hard disk, set up the import path first and then import them.

The following example describes the procedure for importing charts from USB memory (F drive).

- 1) Start Chart Maintenance from Task Menu.
- 2) In the Home window, click the [Import / Update charts] button.
- 3) In the Chart Category Selection window, click the [ENC] button.
(The operation is the same as described in "2.1.2.1 Importing Charts from CD/DVD Media (Automatic Import)" up to here.)
- 4) Insert USB memory on which chart data is stored and wait until import becomes ready.
- 5) In the Chart Import Selection window, click the [Manually] button. The Chart Data Path Selection window appears.

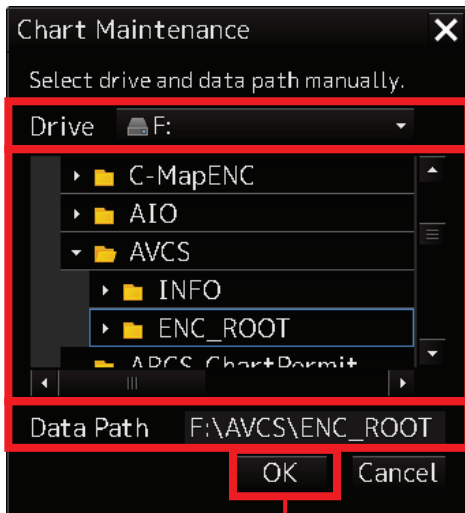
<Chart Import Selection Window>



6) Specify USB memory (F drive) in Drive.

Select the folder higher by one layer than the folder (ENC_ROOT) in which the chart data is stored.

<Path Selection Window>

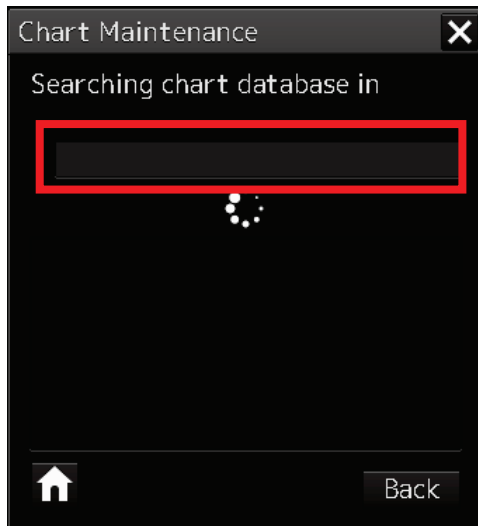


Drive Name:
Select a drive.
Folder name:
Select a folder.
The folders on the drive selected in Drive are displayed in a tree structure.
Text Box:
Select a folder, data path is displayed.

[OK] Button:
Start the import of the chart.

7) Click the [OK] button. The import of charts starts.

<Chart Search Window>



8) When chart data check is completed, the Chart Import Method Selection window appears. Click the [All] button. The import of chart data with chart licence starts.

9) When the import of chart data is finished, the number of imported charts is displayed.

Import results are displayed in the chart to log text box.

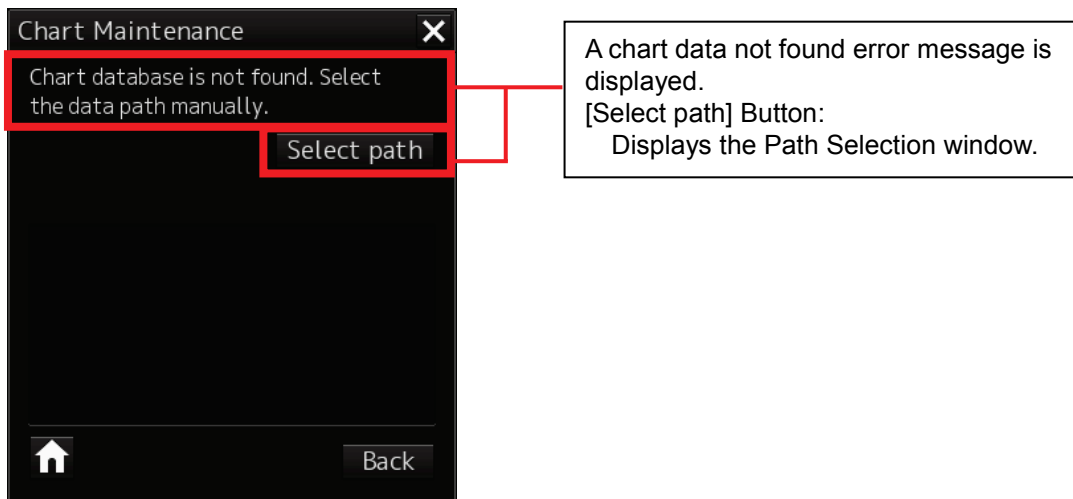
10) Click the [Home] button to finish importing.

2.1.2.3 If Chart Data Cannot Be Found (Resume by Specifying a Path)

If chart data cannot be found, a data not found error message appears. Click [Select path] to display the Path Selection window and then select a chart path.

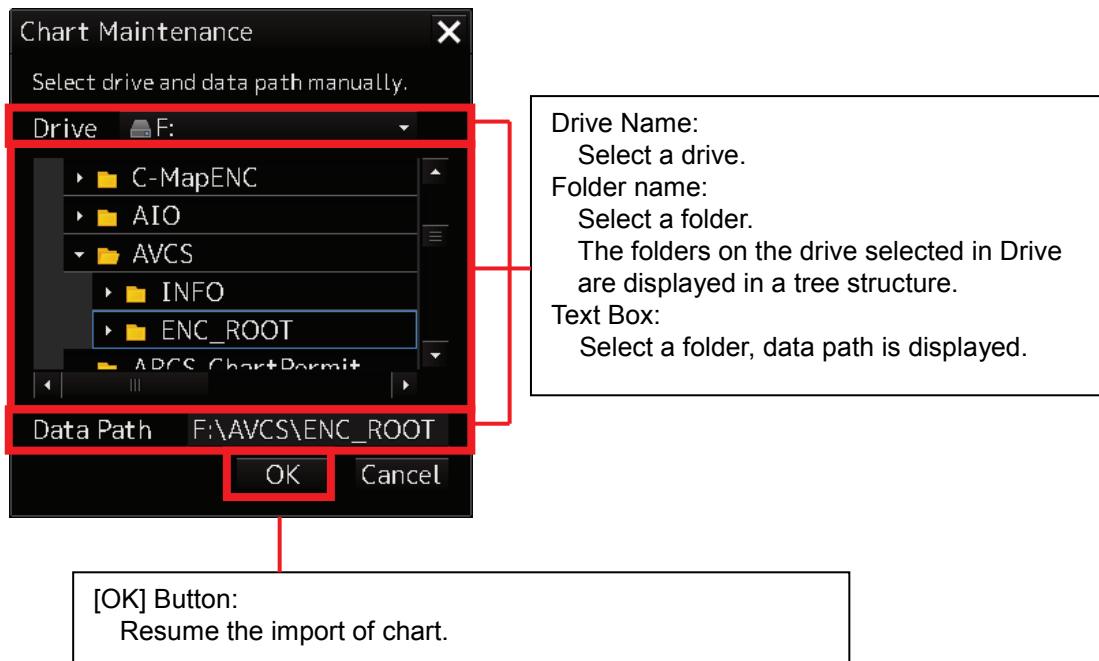
The following example describes the procedure from how to specify a path to how to resume importing charts by changing to USB memory (F drive).

<Chart Not Found Window>



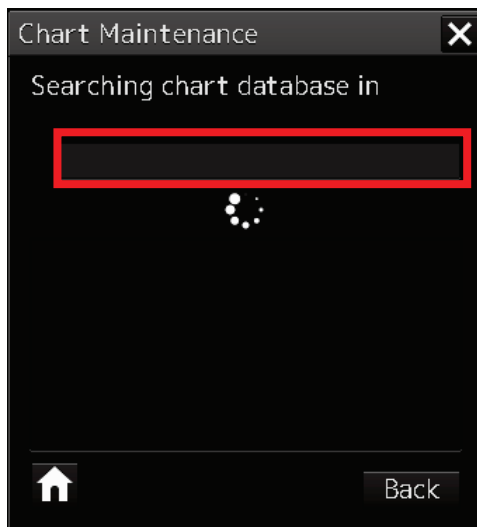
- 1) In the Chart Not Found window, click [Select path]. The Path Selection window is displayed.
- 2) Specify USB memory (F drive) in Drive. Also, select a folder containing chart data. Select the folder higher by one layer than the folder (ENC_ROOT) in which the chart data is stored.

<Path Selection Window>



- 3) Click the [OK] button. The import of chart data resumes using the selected path.

<Chart Search Window>



- 4) When chart data check is completed, the Chart Import Method Selection window appears. Click the [All] button. The import of chart data with chart licence starts.
- 5) When the import of chart data is finished, the number of imported charts is displayed. Import results are displayed in the chart to log text box.
- 6) Click the [Home] button to finish importing.

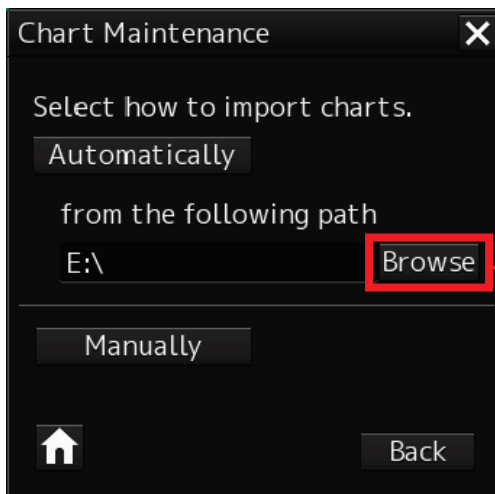
2.1.2.4 Changing a Path to Use for Automatic Import

If a path is selected with the [Browse] button when always using USB memory to import chart data, the selected path will be saved as a path used by the auto-import.. Chart data can then be imported with the [Automatically] button from the saved path thereafter.

The following example describes how to change path used by the auto-import. by changing to USB memory (F drive).

- 1) Start Chart Maintenance from Task Menu.
- 2) In the Home window, click the [Import / Update charts] button.
- 3) In the Chart Category Selection window, click the [ENC] button.
(The operation is the same as described in "2.1.2.1 Importing Charts from CD/DVD Media (Automatic Import)" up to here.)
- 4) Insert USB memory on which chart data is stored and wait until import becomes ready.
- 5) In the Chart Import Selection window, click the [Browse] button. The Chart Data Path Selection window appears.

<Chart Import Selection Window>



[Browse] Button:
Changes path used by the auto-import.

- 6) Specify USB memory (drive F) as the drive name, and then select the path to be used by auto-import. When a folder is selected, the data path is displayed in the text box.

<Path Selection Window>

Chart Maintenance

Select drive and data path manually.

Drive F:

- ▶ C-MapENC
- ▶ AIO
- ▶ AVCS
 - ▶ INFO
 - ▶ ENC_ROOT
 - ▶ APCS ChartPermit

Data Path F:\AVCS\ENC_ROOT

OK Cancel

Drive Name:
Select a drive.

Folder name:
Select a folder.
The folders on the drive selected in Drive are displayed in a tree structure.

Text Box:
Select a folder, data path is displayed.

[OK] Button:
Set the pass which chose as a pass to use in auto-import.

- 7) Click the [OK] button. changed to the selected path is the path to be used in automatic import.

<Chart Import Selection Window>

Chart Maintenance

Select how to import cell permit.

Automatically

from the following path

C: Browse

Manually

Back

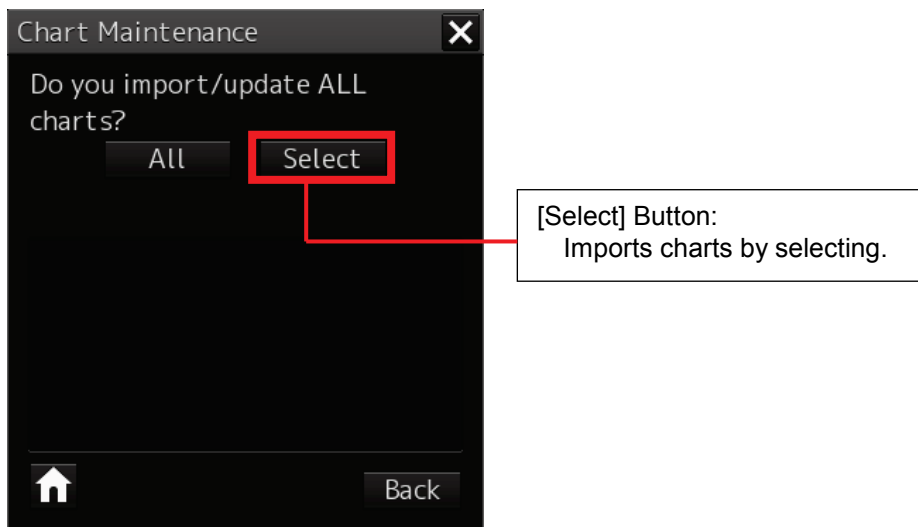
2.1.2.5 Importing Charts by Selecting

Charts to be imported can be selected individually for import.

The following example describes the procedure for importing charts from CD/DVD media.

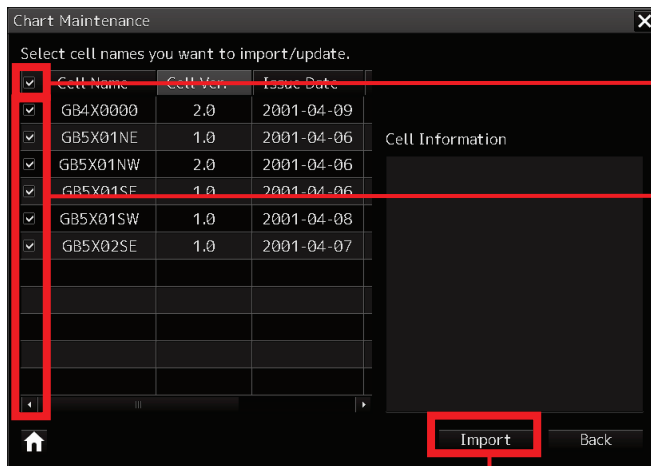
- 1) Start Chart Maintenance from Task Menu.
- 2) In the Home window, click the [Import / Update charts] button.
- 3) In the Chart Category Selection window, click the [ENC] button.
- 4) Insert CD/DVD medium on which chart data (or AIO data) is stored and wait until import becomes ready.
- 5) In the Chart Import Selection window, click the [Automatically] button. Search chart data from the path shown in path used by the auto-import and start importing it.
(The operation is the same as described in "2.1.2.1 Importing Charts from CD/DVD Media (Automatic Import)" up to here.)
- 6) When chart data check is completed, the Chart Import Method Selection window appears. Click the [Select] button. A window for selecting charts to be imported appears.

<Chart Import Method Selection Window>



7) Select charts to be imported by checking their checkboxes.

<Chart Selection Window>



Checkboxes:
Select charts to be imported.
The checkboxes of the charts that need to be updated are checked when the Chart Selection window is displayed.

Checkbox (Title Bar):
Select (deselect) all selectable charts.

- : Unselected chart
- : Chart to be imported
- : Unselectable

[Import] Button:
Starts importing the selected charts.

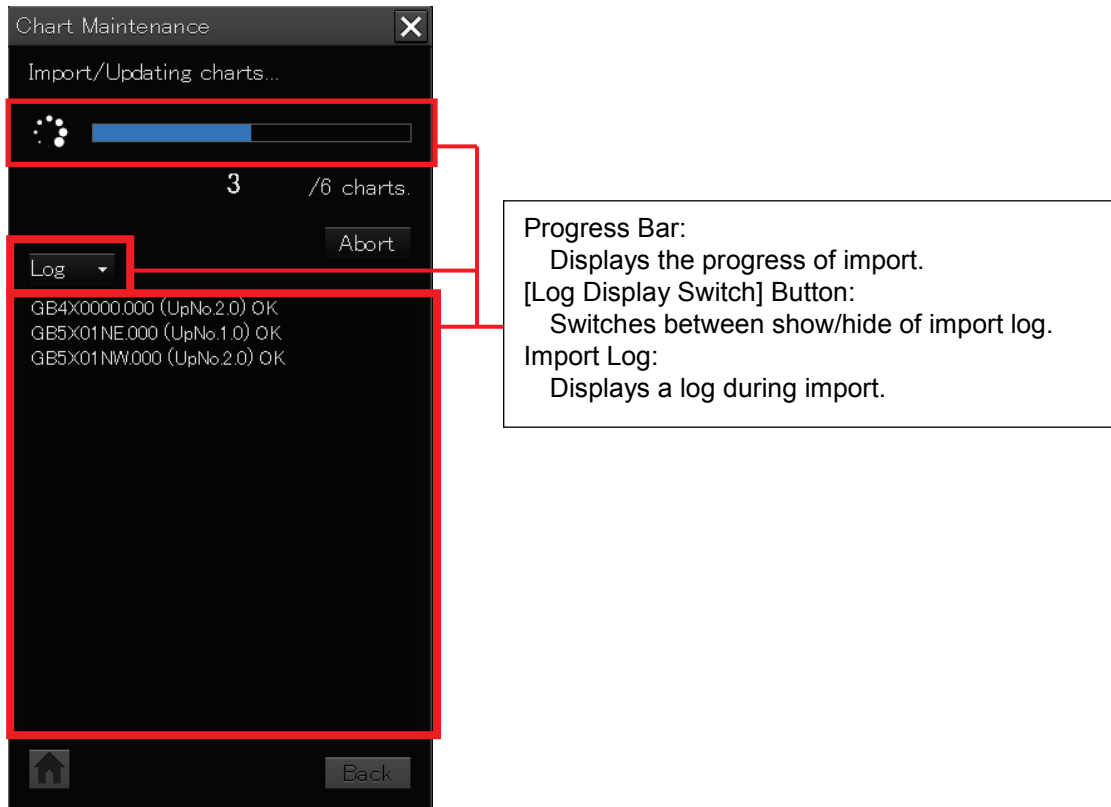
Caution:

If there are no cell permits for charts or charts have already been expired, the corresponding checkboxes will be disabled.

- 8) Click the [Import] button after selecting charts to start importing them.

When chart import is started, the number of imported charts is displayed and progress is shown by a progress bar.

<Chart Import Progress Window (When Displaying Import Log)>



- 9) When the import of chart data is finished, the number of imported charts is displayed

Import results are displayed in the chart to log each text box.

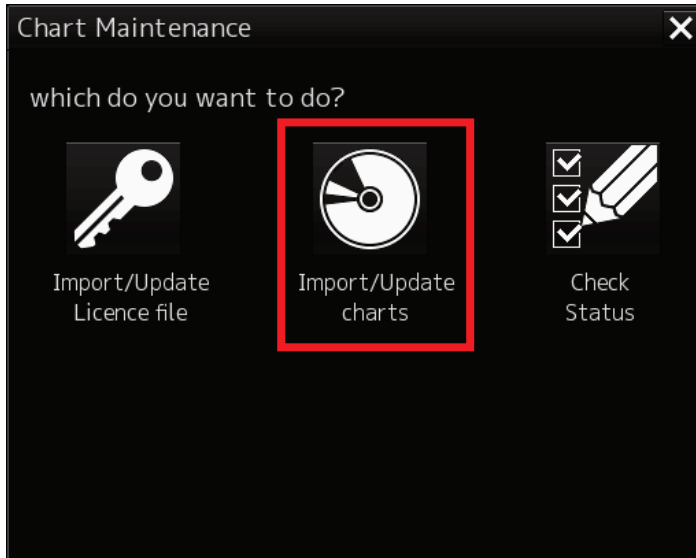
- 10) In the case of CD/DVD media, the chart import continuation confirmation dialog appears after import is completed.

- If charts have been imported from all CD/DVD media, click the [No] button.
Finish chart import and close the window.
- If there are still charts that need to be imported, click the [Yes] button in the Chart Import Continuation dialog box. The Chart CD/DVD Media Insertion Window appears, so change CD/DVD media and click the [OK] button. Chart data will then be searched. For the succeeding operation, please see the operation described from page 2-15.

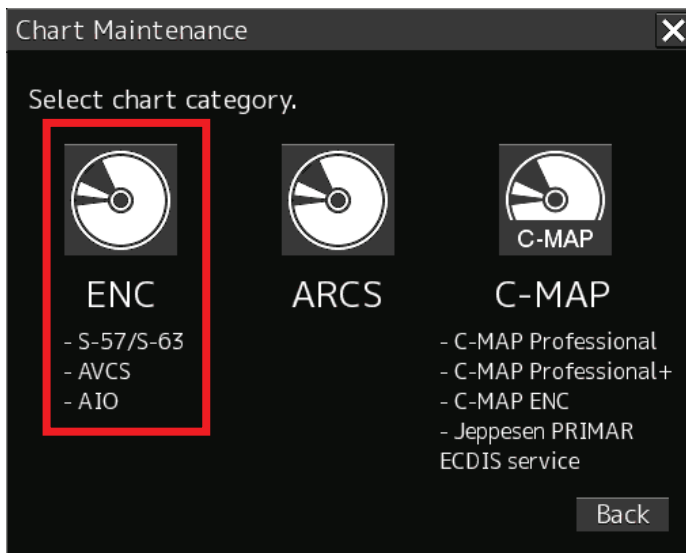
2.2 Updating Charts

To update charts, perform the same operation as import.

- 1) Start Chart Maintenance.
- 2) In the Home window, click the [Import / Update charts] button.



- 3) Go to the Chart Category Selection window and click the [ENC] button.

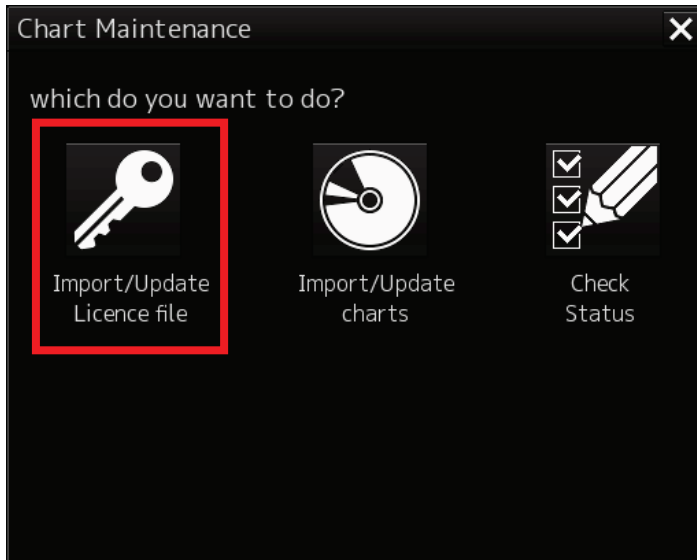


For the succeeding operation, see "[2.1.2 Importing Charts](#)".

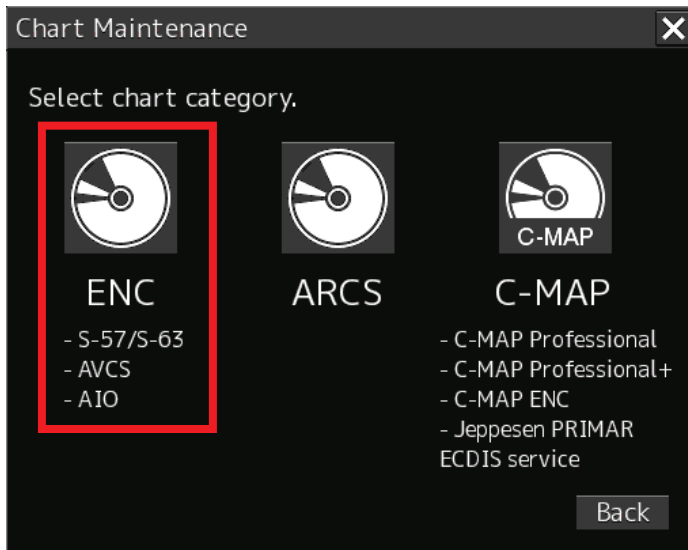
2.3 Updating Cell Permit Files

To update cell permit files, perform the same operation as import.

- 1) Start Chart Maintenance.
- 2) In the Home window, click the [Import / Update Licence file] button.



- 3) Go to the Chart Category Selection window and click the [ENC] button.



For the succeeding operation, see "[2.1.1 Importing Cell Permit Files \(S-63, AVCS and AIO\)](#)"

2.4 Using Check Status

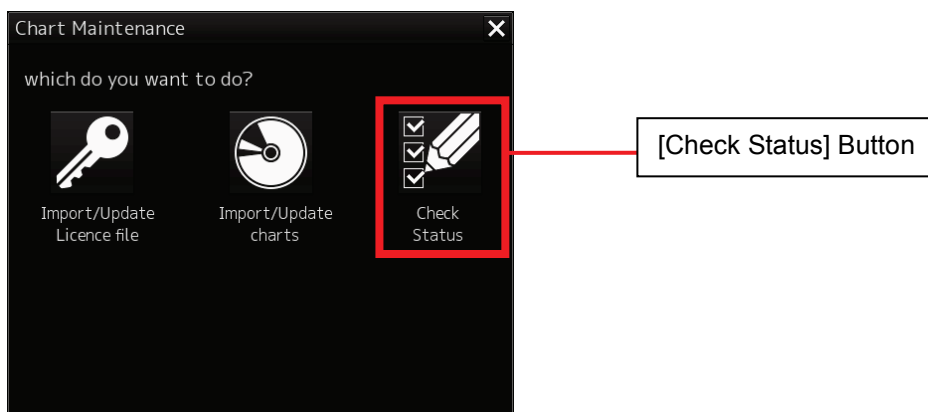
Check Status provides the following functions.

- Display a list of imported charts and chart license information.
- Display the log when importing/updating cell permits and charts permits.
- Display the log when importing/updating charts.
- Delete already imported charts.

2.4.1 How to Start Check Status

On Task Menu, start Check Status according to the following procedure.

- 1) Click the [Chart Maintenance] button on Task Menu.
- 2) In the Chart Maintenance window, click the [Check Status] button. The Check Status window appears.



2.4.2 Configuration of the Check Status Window

The Check Status window consists of the Status List window and the Log window.

- Status List Window: Displays a list of imported charts and chart license information.
You can also delete already imported charts by selecting them.
- Log Window: Displays the log when importing/updating charts.
Also displays the log when importing/updating cell permits and charts permits.

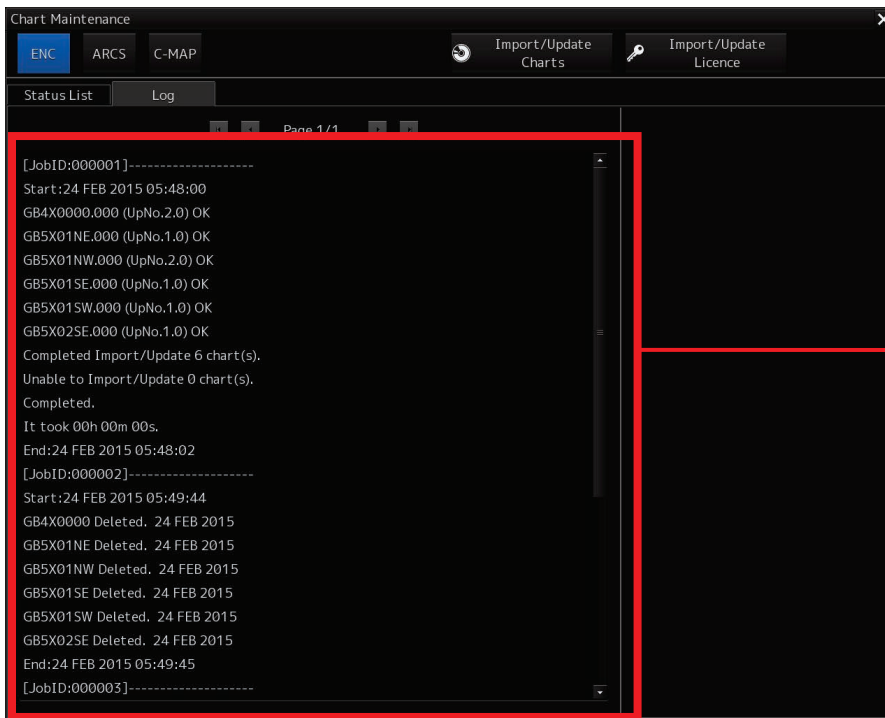
2.4.2.1 Status List Window

The screenshot shows the 'Chart Maintenance' window with the following components and callouts:

- Window Switching Tabs:** Switch between the Status List window and the Log window.
- Chart Type Buttons:** Change the chart type (ENC, ARCS, C-MAP).
- [Import/Update Licence] button:** Executes import/update.
- [Delete] Button:** Deletes charts.
- Licence Information:** Displays licence information of charts. SA certificate Information: Displays SA certificate Information. Cell Information: Displays cell information of charts.
- Folder List Display:** Displays folders containing imported charts.
- Chart List Display:** Displays a list of imported charts.

Cell Name	Cell Ver.	Issue Date	Weekly No.	Last I
AR201130	3.0	2014-12-23	WK07-15	2015
AR201140	1.15	2015-01-30	WK07-15	2015
AR202100	1.7	2014-07-28	WK07-15	2015
AR203100	1.8	2014-04-29	WK07-15	2015
AR204130	1.0	2014-04-15	WK07-15	2015
AR204160	1.3	2015-01-28	WK07-15	2015
AR301150	1.5	2014-08-26	WK07-15	2015
AR302120	3.1	2014-10-30	WK07-15	2015
AR302130	1.0	2011-04-11	WK07-15	2015
AR302160	1.0	2011-03-29	WK07-15	2015
AR302170	1.1	2013-04-30	WK07-15	2015
AR302180	1.4	2014-07-29	WK07-15	2015
AR303110	1.1	2011-10-31	WK07-15	2015
AR303120	1.0	2011-10-12	WK07-15	2015
AR304180	1.2	2013-12-02	WK07-15	2015
AR30419A	1.1	2014-08-05	WK07-15	2015
AR401570	2.2	2014-12-29	WK07-15	2015
AR401590	1.0	2010-06-14	WK07-15	2015
AR402490	1.8	2014-06-30	WK07-15	2015
AR402500	1.12	2015-01-30	WK07-15	2015
AR402520	1.3	2013-10-29	WK07-15	2015

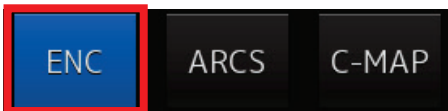
2.4.2.2 Log Window



Log Window:
Displays a log recorded when importing/updating licences and charts.

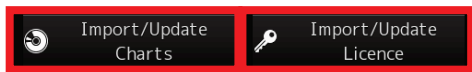
<Functions of Each Button>

Chart Type Buttons:



[ENC] Button:
Displays the Chart information and ENC log.

Import/Update Buttons:



[Import/Update Licence] Button:
Imports/updates licences. Goes to the Licence Import window for the type of charts being displayed. Please see "2.1.1 Importing Cell Permit Files".

[Import/Update Charts] Button:
Imports/updates charts. Goes to the Chart Import window for the type of charts being displayed. Please see "2.1.2 Importing Charts".

Window Switching Tabs



The window for the selected tab appears.

[Status List] Tab:

Display information about the licences on a chart and a list of imported chart.

[Log] Tab:

Displays a log recorded when importing/updating licences and charts.

[Delete] Button:



[Delete] Button:

Deletes the items whose checkboxes are marked in the Chart List. Please see "2.7 Deleting ENC Charts"

<Folder List Display>

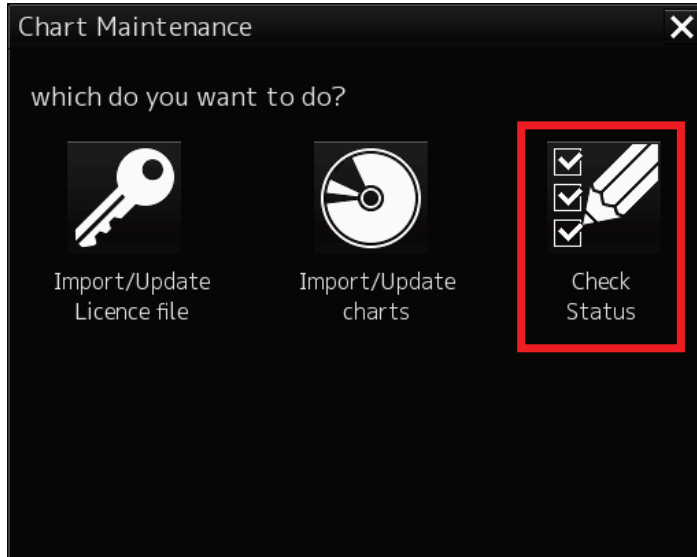


Displays a list of folders containing imported charts. Charts contained in the selected folder are displayed in the Chart List window.

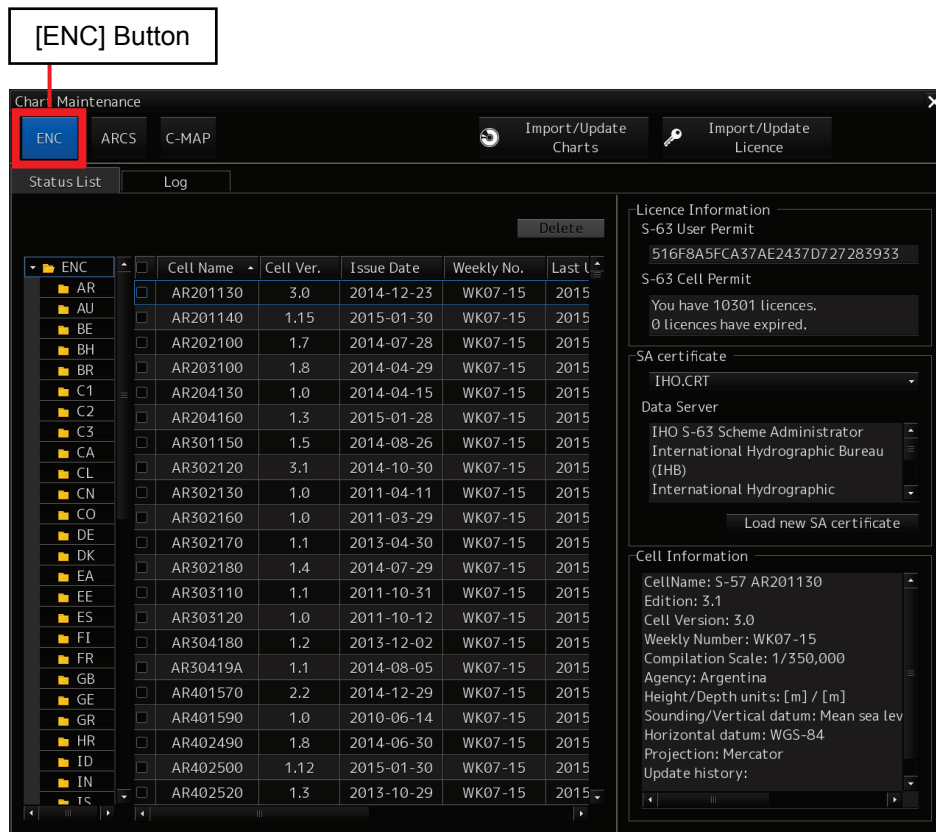
2.5 Checking Chart Update History

2.5.1 Checking from Chart Maintenance

- 1) Start Chart Maintenance from Task Menu.
- 2) Click the [Check Status] button in the Home window.



- 3) Click the [ENC] button in the Check Status window.



4) Check the update history in the Last Update column of the Chart List window.

The screenshot shows the 'Chart Maintenance' application. The 'Chart List' window displays a table with the following columns: Cell Name, Cell Ver., Issue Date, Weekly No., and Last Update. A red box highlights the data for several rows in these columns. A red line connects this box to a larger table below. The right-hand pane shows 'Licence Information' and 'Cell Information' for the selected chart.

Cell Ver.	Issue Date	Weekly No.	Last Update
3.0	2014-12-23	WK07-15	2015-04-10
1.15	2015-01-30	WK07-15	2015-04-10
1.7	2014-07-28	WK07-15	2015-04-10
1.8	2014-04-29	WK07-15	2015-04-10
1.0	2014-04-15	WK07-15	2015-04-10
1.3	2015-01-28	WK07-15	2015-04-10

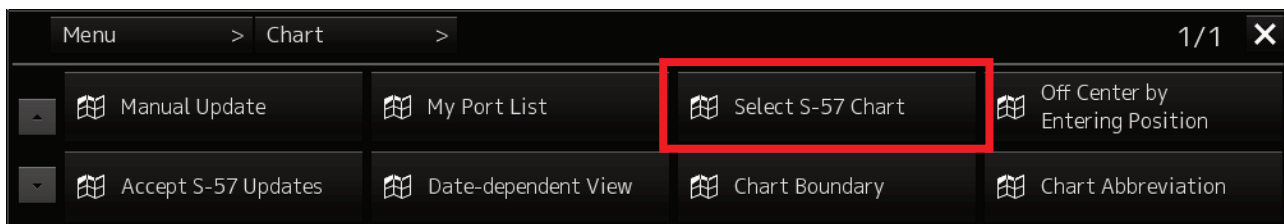
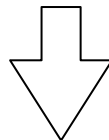
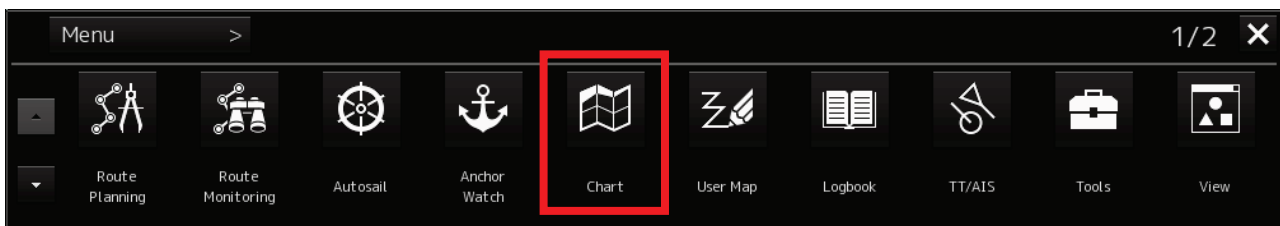
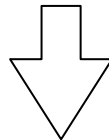
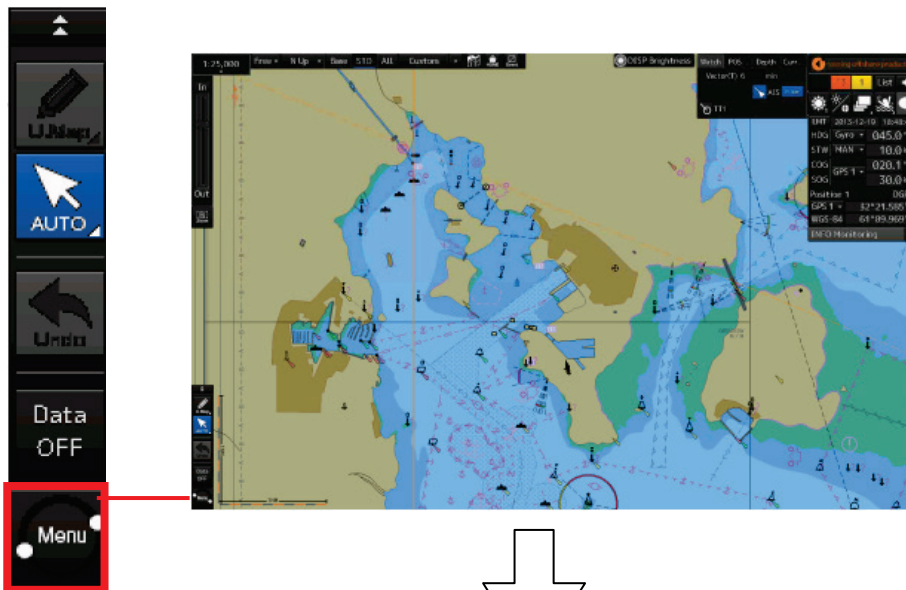
Cell Ver.:
The chart editions are displayed.

Issue Date:
The chart issue dates are displayed.

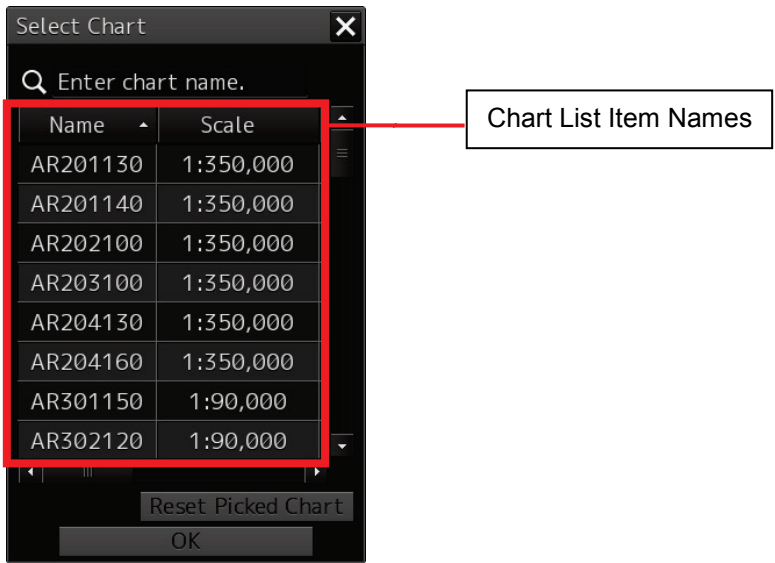
Last Update:
The last date when charts were imported to the system are displayed.

2.5.2 Checking from ECDIS screen

- 1) Start ECDIS.
- 2) Select [Menu] - [Chart] - [Select S-57 Chart] in this order.



A Chart List is displayed.



3) Scrolling the Last Update column on Chart List to the right will display the update history.

Chart List Items (All Items)

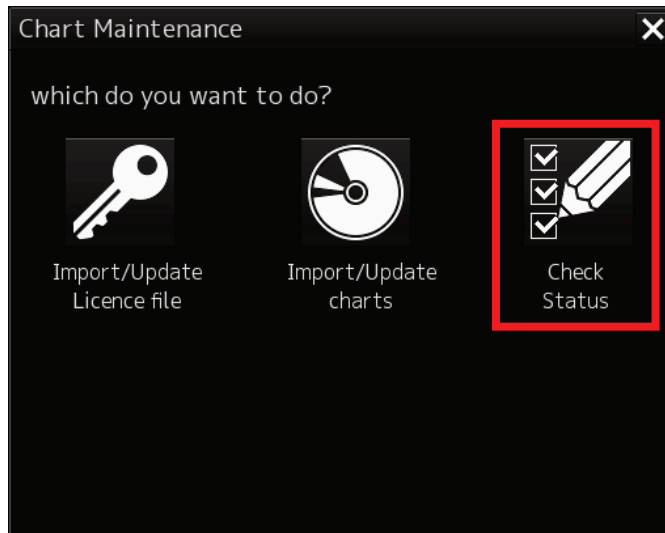
Name	Scale	Up No.	Issue Date	Last Update	Accepted
AR201130	1:350,000	3.0	2014-12-23	2015-04-10	Yes
AR201140	1:350,000	1.15	2015-01-30	2015-04-10	Yes
AR202100	1:350,000	1.7	2014-07-28	2015-04-10	Yes
AR203100	1:350,000	1.8	2014-04-29	2015-04-10	Yes
AR204130	1:350,000	1.0	2014-04-15	2015-04-10	Yes
AR204160	1:350,000	1.3	2015-01-28	2015-04-10	Yes
AR301150	1:90,000	1.5	2014-08-26	2015-04-10	Yes
AR302120	1:90,000	3.1	2014-10-30	2015-04-10	Yes

Up No.:
The chart update numbers are displayed.
Issue Date:
The chart issue dates are displayed.
Last Update:
The last chart update dates are displayed.

2.6 Checking the Contents of Contracts

The contents of contracts can be checked from Check Status.

- 1) Start Chart Maintenance from Task Menu.
- 2) Click the [Check Status] button in the Home window.



- 3) Click the [ENC] button in the Check Status window. The ENC chart information is displayed.

[ENC] Button

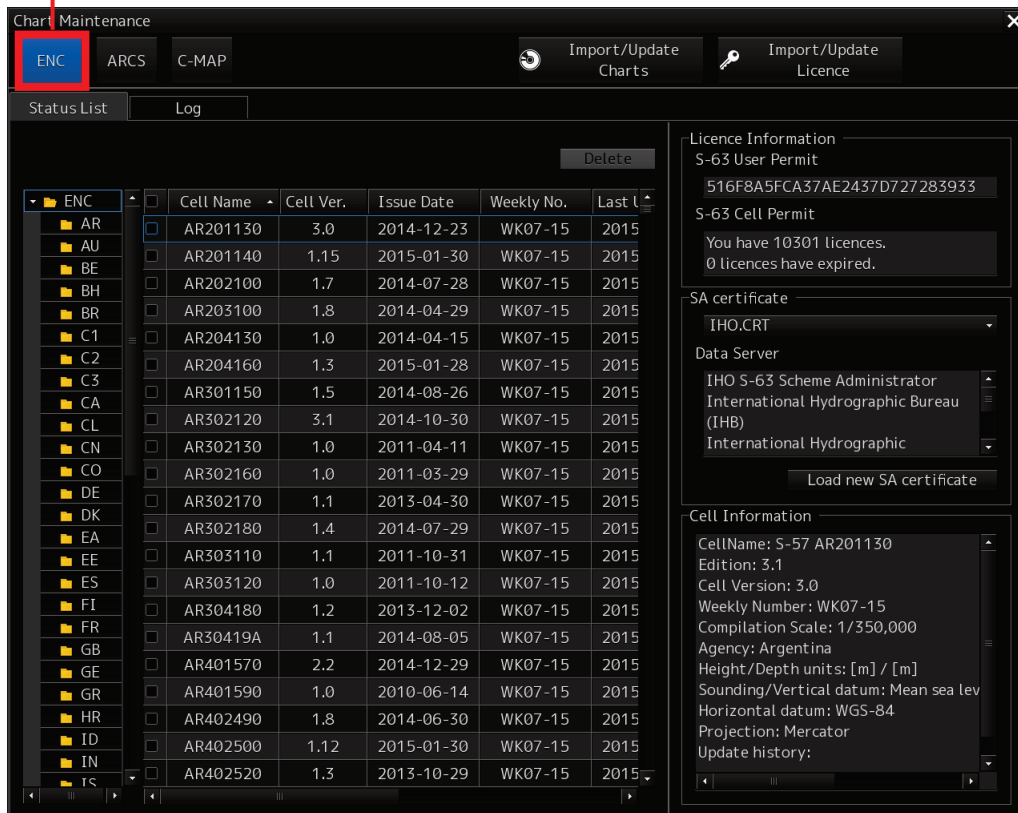


Chart Maintenance

ENC ARCS C-MAP

Import/Update Charts Import/Update Licence

Status List Log

ENC	Cell Name	Cell Ver.	Issue Date	Weekly No.	Last U
AR	AR201130	3.0	2014-12-23	WK07-15	2015
AU	AR201140	1.15	2015-01-30	WK07-15	2015
BE	AR202100	1.7	2014-07-28	WK07-15	2015
BH	AR203100	1.8	2014-04-29	WK07-15	2015
BR	AR204130	1.0	2014-04-15	WK07-15	2015
C1	AR204160	1.3	2015-01-28	WK07-15	2015
C2	AR301150	1.5	2014-08-26	WK07-15	2015
C3	AR302120	3.1	2014-10-30	WK07-15	2015
CA	AR302130	1.0	2011-04-11	WK07-15	2015
CL	AR302160	1.0	2011-03-29	WK07-15	2015
CN	AR302170	1.1	2013-04-30	WK07-15	2015
CO	AR302180	1.4	2014-07-29	WK07-15	2015
DE	AR303110	1.1	2011-10-31	WK07-15	2015
DK	AR303120	1.0	2011-10-12	WK07-15	2015
EA	AR304180	1.2	2013-12-02	WK07-15	2015
EE	AR30419A	1.1	2014-08-05	WK07-15	2015
ES	AR401570	2.2	2014-12-29	WK07-15	2015
FI	AR401590	1.0	2010-06-14	WK07-15	2015
FR	AR402490	1.8	2014-06-30	WK07-15	2015
GB	AR402500	1.12	2015-01-30	WK07-15	2015
GE	AR402520	1.3	2013-10-29	WK07-15	2015
GR					
HR					
ID					
IN					
IS					

Delete

Licence Information

S-63 User Permit

516F8A5FCA37AE2437D727283933

S-63 Cell Permit

You have 10301 licences.
0 licences have expired.

SA certificate

IHO.CRT

Data Server

IHO S-63 Scheme Administrator
International Hydrographic Bureau
(IHB)
International Hydrographic

Load new SA certificate

Cell Information

CellName: S-57 AR201130
Edition: 3.1
Cell Version: 3.0
Weekly Number: WK07-15
Compilation Scale: 1/350,000
Agency: Argentina
Height/Depth units: [m] / [m]
Sounding/Vertical datum: Mean sea lev
Horizontal datum: WGS-84
Projection: Mercator
Update history:

2.6.1 Checking the Expiry Dates of Cell Permits Having Contract

Check the expiration dates in the Expiry Date column of the Chart List window.

Last Update	Expiry Date	Accepted	DS_ID
2015-04-10	2015-12-31	Yes	GB
2015-04-10	2015-12-31	Yes	GB
2015-04-10	2015-12-31	Yes	GB
2015-04-10	2015-12-31	Yes	GB

Expiry Date: Expiration date of permit
Expires within 30 days → Yellow
Already expired → Orange

If the chart expiry data has been reached, please check the contents of the contract and contact your chart distributor.

2.6.2 Checking Licence information

The screenshot shows the 'Chart Maintenance' window with a 'Status List' table and a 'Licence Information' panel. The table lists various chart cells with columns for Cell Name, Cell Ver., Issue Date, Weekly No., and Last Update. The 'Licence Information' panel shows details for an 'S-63 User Permit', including the permit ID '516F8A5FCA37AE2437D727283933' and cell information for 'S-57 AR201130'.

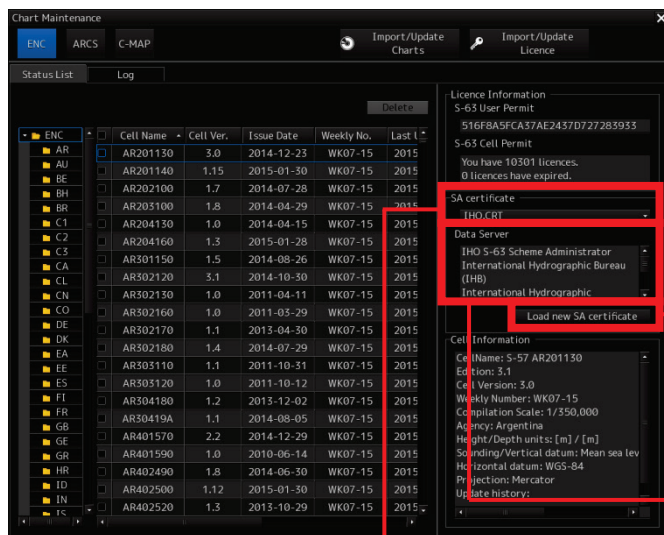
S-63 User Permit:
Displays the S-63 user permit.

S-63 User Permit
516F8A5FCA37AE2437D727283933

S-63 Cell Permit:
Displays the number of S-63 chart licences owned and the number of expired chart licences.

S-63 Cell Permit
You have 10301 licences.
0 licences have expired.

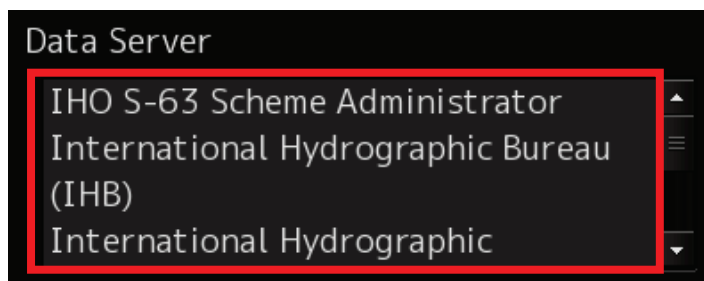
2.6.3 Checking SA Certificate Files



SA certificate:
Displays the SA certificate file names.



Data Server:
Displays the data server information of the SA certificate files.



Load new SA certificate:
Clicking the [Load new SA certificate file] button in the SA certificate column will import a new SA certificate file.



Caution:

It is necessary to select and import an SA certificate file into the system for each of the data servers (PRIMAR, UKHO (AVCS), Hydrographic and Oceanographic Department of Japan Coast Guard, etc.).

ECDIS provides a function for enabling to use charts issued from multiple data servers. When importing charts, it is necessary to import and select an SA certificate file on chart CD-ROM issued by a data server for ENC certification and assurance.

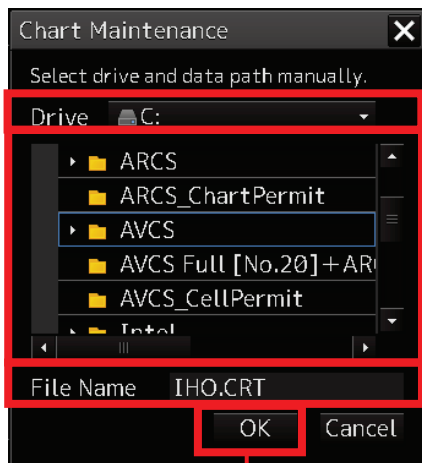
2.6.4 Reimporting SA Certificate Files

- 1) Insert media (CD/DVD, USB memory) on which an SA certificate file has been stored and wait until import becomes ready.
- 2) Click the [Load new SA certificate] button.

Load new SA certificate

- 3) When the Path Selection window appears in a separate window, specify the drive and folder in which the SA certificate file is stored.

<Path Selection Window>



Drive Name:
Select a drive.

Folder name:
Select a folder.
The folders on the drive selected in Drive are displayed in a tree structure.

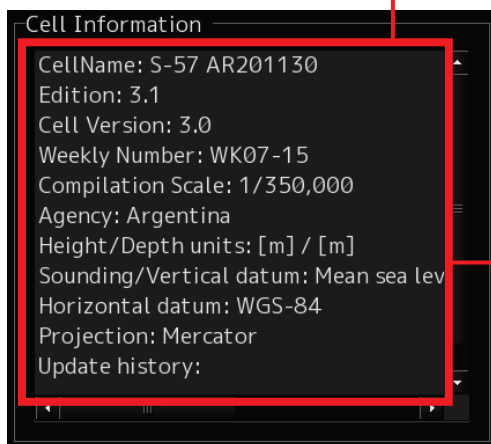
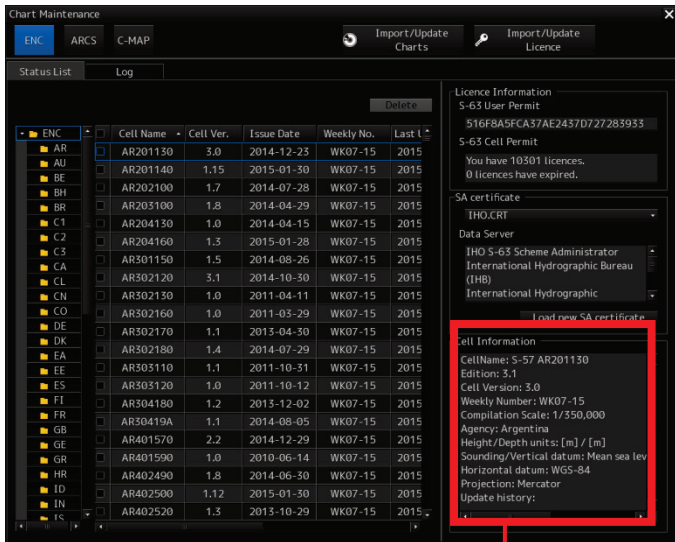
Text Box:
When an SA certificate file is stored in the selected folder, the file name is displayed.

[OK] Button:
Import the SA certificate file and closes this window. (If a file name is not displayed in the text box, the [OK] button is disabled.)

For following operations, refer to page 2-15 and subsequent pages.

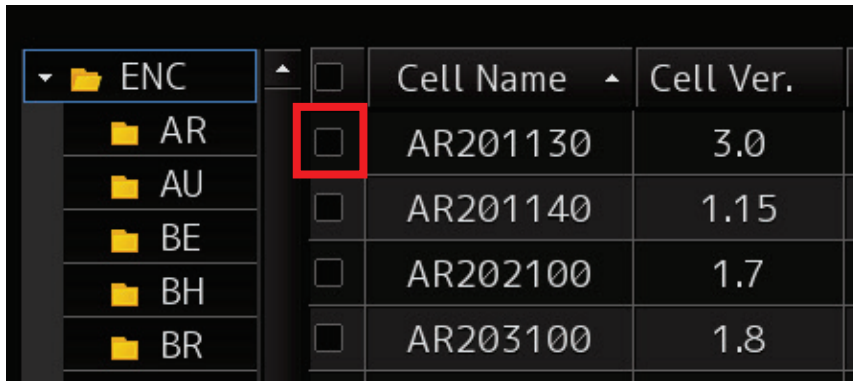
2.6.5 Checking Chart Cell Information

Check Cell Information in the Check Status window.



Cell Information:
Displays the information of the selected chart in the chart list.

- 4) Check the checkboxes of charts that need to be deleted in the Chart List window.

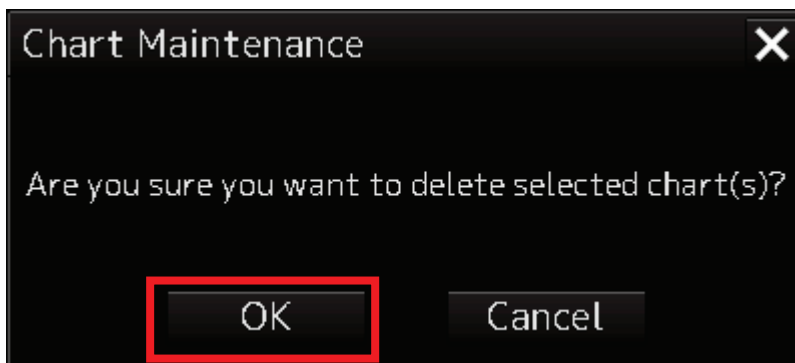


	<input type="checkbox"/>	Cell Name	Cell Ver.
ENC	<input type="checkbox"/>		
AR	<input type="checkbox"/>	AR201130	3.0
AU	<input type="checkbox"/>	AR201140	1.15
BE	<input type="checkbox"/>	AR202100	1.7
BH	<input type="checkbox"/>	AR203100	1.8
BR	<input type="checkbox"/>		

- 5) Click the [Delete] button in the Chart List window.



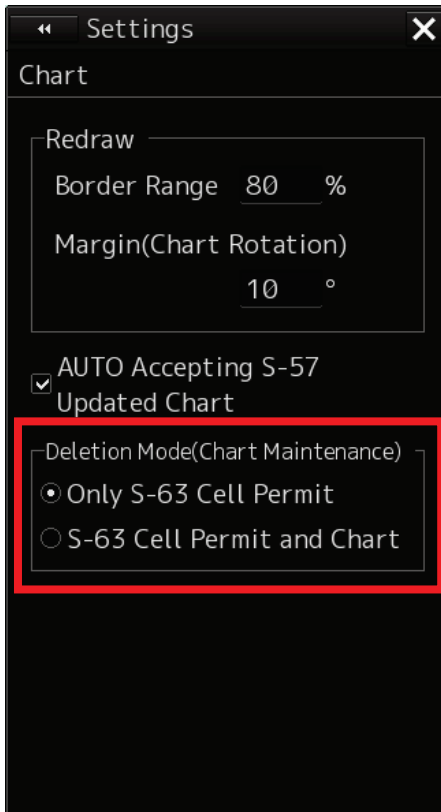
- 6) The Delete dialog box appears. Clicking the [OK] button will delete the checked charts in the Chart List.



If deleted ENC chart on Check StatusWindow, select either

- Delete the license only, or
- Delete the license and the chart.

- 1) Start ECDIS screen or RADAR screen (chart display option) from Task Menu.
- 2) Select [Menu] – [Settings] – [Chart].
Display the setting dialog about chart operation.
- 3) Select the Deletion Mode on Deletion Mode (Chart Maintenance).



Deletion Mode (Chart Maintenance):

Set the Deletion Mode on Check Status Window.

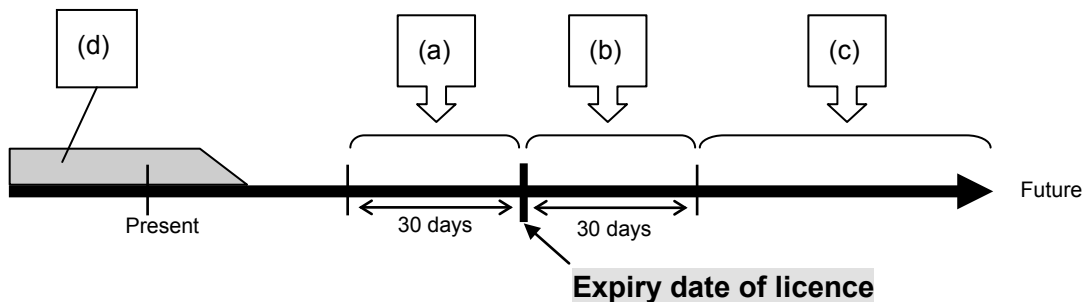
- Only S-63 Cell Permit
Delete the license only.
- S-63 Cell Permit and Chart
Delete the license and the chart.

The setting of Deletion Mode (Chart Maintenance) is valid only under S-63 (ENC that requires the permit). Under S-57 (ENC that does not require the permit), the chart is also deleted regardless of this setting.

Section 3 ARCS Charts

3.1 About ARCS Charts

Licences (Chart Permits) have an expiry date.



- (a) For 30 days before expiry date of licence
A warning message is displayed. Please refer to "Notice regarding Alert Information of ARCS Charts" provided as a reference document at the end of this document.
- (b) For 30 days after expiry date of licence
An error message is displayed. Please refer to "Notice regarding Alert Information of ARCS Charts" provided as a reference document at the end of this document.
Although the licence has been disabled, ARCS charts can be displayed continuously.
- (c) From 30 days after expiry date of licence
A warning message is displayed. Chart permits are disabled and no ARCS charts are displayed. Please refer to "Notice Regarding Alert Information of ARCS Charts" provided as a reference document at the end of this document.
- (d) If charts that have been displayed so far can no longer be displayed, the following causes may be considered.
 - ARCS charts are of trial version (free for 3 months).
 - The details of the contract were changed.

Caution:

- Regarding the contents of the contract, please check with the chart contractor or chart dealer.