Rose Point ECS - Administrator's Guide

This document is an administrator's guide for properly setting up Rose Point ECS version 4, outlining the installation procedure, folder permissions, firewall considerations, and custom configuration options. Please check our website for the latest version of this document.

Installation Guidelines

This section provides guidelines and best-practices for successfully installing Rose Point ECS and its updates. We may not be able to provide technical support for installations that do not conform to these guidelines.

User Accounts

When installing on a standard level Windows User Account you will be required to provide the system's administrator credentials. Regardless of which Windows User Account the program is installed on, it will be usable from any other Windows User Account on that same system.

Installing from a Disc Image

If you wish to install Rose Point ECS to several computer systems by imaging them from a pre-configured imaging system, following these guidelines will help ensure successful and trouble-free installation on the imaged systems.

Do not Activate Rose Point ECS on the source imaging system. If you do, it can create problems with our licensing system. Instead, use Rose Point ECS' 10-Day Trial Period to customize your configuration. Customization includes: designing custom instrument panel layouts, modifying options from the "Options..." window, etc.

Be sure you choose an imaging tool that does not clone Volume ID's. Instead, you should use a tool that will give each imaged system unique Volume IDs.

After you have deployed your image to a computer system intended for operation, you should Activate Rose Point ECS from that system, using the correct Rose Point ECS Product ID intended for the vessel that system will be used aboard.

Folders Used by Rose Point ECS

Rose Point ECS must have full access to specific folders.

If your organization utilizes Windows enterprise features, such as Active Directory Domains and Group Policies, you should configure those features so they do not interfere with our access to these folders.

The Program Folder

The default location for the Rose Point ECS program is "C:\Program Files\Rose Point ECS" but that can be changed using the setup program. (On 64-bit Windows systems, the default location will be "C:\Program Files (x86)\Rose Point ECS".)

The Charts Folder

The default location for chart installation is "C:\Charts" and that can also be changed using the setup program. Rose Point ECS requires read access to this folder in order to use charts and requires write access in order to install or update charts.

The Rose Point Navigation Systems Data Folders

In addition to the program and chart folders, Rose Point ECS uses a hidden folder for data storage. This folder is referred to as the "Rose Point Navigation Systems data folder". The easiest way to locate the folder is to start Rose Point ECS and then enter $data into the Find Box. That will open a Windows File Explorer at the correct folder. Rose Point ECS requires read and write access to this folder in order to function properly.

The Rose Point Navigation Systems data folder will be located at:

"C:\Rose Point Data"

The following directory is used to maintain license information. Read access to this folder is required to use Rose Point ECS and write access is required in order to activate Rose Point ECS:

"C:\ProgramData\CENKEYS"

Customizing Setup

It is possible to create a custom "module" which contains files to be installed by the Rose Point ECS setup program. These modules may add files to the program, data, and chart folders as described in "Folders Used by Rose Point ECS".

Each module is contained in a standard ZIP file that has been renamed to have a file type of ".cepkg" instead of ".zip". Inside the ZIP file, the contents of a folder named "Program" is copied to the Program Folder, the contents of a folder named "Data" is copied to the Data Folder, and the contents of a folder named "Charts" is copied to the Chart Folder. Any folders nested within Program, Data, or Charts are also copied during installation.

As an example, let's say you have customized admin.ini and screens.xml files. Follow these instructions to create a module that will cause setup to copy them there:

1. **IMPORTANT:** Enable the Windows File Explorer option to show file types first. If you don't do this, the rename later will not work correctly (but it will look like it did). To enable this option, open a File Explorer and select the View tab on the ribbon. Make sure that the "File name extensions" checkbox is checked.

2. Create an empty folder somewhere on your PC to work in and open that folder in Explorer.

3. Create a folder called "Data" in your working folder folder.

4. Copy your admin.ini to the new "Data" folder.

5. Create a folder called "xui" in the Data folder.

6. Copy your screens.xui file to the new "xui" folder.

7. Right-click on the "Data" folder and select "Send to > Compressed (zipped) folder"

8. Rename the ZIP file to "MyModule.cepkg"

9. Create a new folder called "Setup" in your working folder.

10. Copy everything from the standard Rose Point ECS Program Disc to the Setup folder.

11. Copy your MyModule.cepkg file to the Modules folder inside the Setup folder.

The Setup folder now contains a custom Rose Point ECS Program Setup that you can use to install Rose Point ECS along with your customizations. We recommend you copy the contents of the Setup folder to a USB Flash Drive and use that to setup your PC's.

Firewall Considerations

Rose Point ECS uses the following Internet hosts for various services:

*.coastalexplorer.net	Product activation, updates, weather, chart purchases.
*.rosepointnav.com	Other Rose Point services.
*.rosepoint.com	Other Rose Point services.
*.weather.gov	River stage information.
*.noaa.gov	NOAA RNC and NOAA ENC chart updates.
*.nationalmap.gov	Aerial Photo Web Maps and Topographic Web Maps.
*.ienccloud.us	USACE IENC chart updates.
*.ienc.us	USACE IENC chart updates.
*.amazonaws.com	Redirects from other USACE services.
*.teamviewer.com	Required for TeamViewer remote support. (Ports 80, 5938)
*.dyngate.com	Required for TeamViewer remote support. (Ports 80, 5938)
*.braintreegateway.com	Secure credit card processing for Primar chart purchases.

We require opening port 80 and port 443 for all the above, or simply not using a restrictive firewall in the first place. Please read the **Caveat** below carefully.

Caveat: At the time of this writing, the above list of domains constitutes the complete set that Rose Point ECS depends on for Internet services. However, we strongly recommend that you **not** restrict your computer systems to only access online services at the above locations. In particular, Rose Point Navigation Systems has no control over the locations of non-Rose Point services (such as those from NOAA, the USACE, etc.) and they should be considered as changing at any time. Additionally, some of the services at the above locations may redirect to services at other locations, and those may also change at any time, preventing Rose Point ECS from obtaining those services.

Custom Instrument Panels and Screen Layouts

The "Instruments" Task Pane and any custom task panes that have been added as well as any custom screen layouts that have been saved are all stored in a single file called "screens.xui". This file is in a folder called "xui" which is also in the Rose Point Navigation Systems data folder (see the above section for instructions on locating that folder on your PC).

Besides the screens.xui file, the custom screen layout feature also uses folder called "Screens" which contains thumbnail images of the custom screen layouts.

Admin.ini Settings

Administrative settings are stored in a standard Windows .INI file called "Admin.ini" which is in the "C:\Rose Point Data" folder. This file makes it easy to adjust options that do not appear in the user interface of Rose Point ECS, and to distribute those settings to all the vessels of a fleet.

Please note that this is a plain text file, so security measures should be taken to prevent the file from being modified by unauthorized users! This can be done with standard Windows security settings.

The **[Options]** section lists any administrative options that apply to all users and roles. These options include:

RequireLogin=yes|no	If the value is yes, then users are required to log in. If the value is no then users are not required to log in and it is always assumed that the current user has the *Administrator* privilege. The default value is no.
HaveOwnShip=yes|no	If the value is no, then all features related to "own- ship" and navigation are removed. (e.g. the Move Boat Here button) This setting is provided when Rose Point ECS will be used ashore and the navigation features are not needed. The default value is yes.

Default Options

The **[Default Options]** section controls exactly what settings are reset when the **Reset All** command is used. This section is simply a list of setting identifiers and the values they should be reset to. Valid value identifiers are listed in *Appendix A*.

Appendix A: Option Names and Values

The following tables provide the name, type, and default value for each option. Refer to Appendix B for more information about the different types of values used by these options.

Vessel Configuration Options

OwnShip.Name	TEXT	""
OwnShip.CallSign	TEXT	""
OwnShip.LengthOverall	DISTANCE	""
OwnShip.Beam	DISTANCE	""
OwnShip.Draft	DEPTH	""
OwnShip.BridgeClearance	HEIGHT	""
OwnShip.CruisingSpeed	SPEED	"5 kt"
OwnShip.PortTurnRadius	DISTANCE	""
OwnShip.StarboardTurnRadius	DISTANCE	""
OwnShip.TowLength	DISTANCE	""
OwnShip.TowBeam	DISTANCE	""
OwnShip.TowOffset	DISTANCE	""

AIS Display and Alert Options

AIS.ShowTracks	BOOL	"yes"
AIS.TrackLength	PERIOD	"30 min"
AIS.ShowPredictors	BOOL	"yes"
AIS.ShowVesselNames	BOOL	"yes"
AIS.ShowVesselSpeeds	BOOL	"yes"
AIS.FlashLostAndDangerousTargets	BOOL	"yes"
AIS.HideLostTargetsAfter	PERIOD	"3 min"
AIS.DangerCPA	DISTANCE	"0.25 nm"
AIS.DangerTCPA	PERIOD	"5 min"
AIS.ShowBaseStations	BOOL	"no"
AIS.ShowAidsToNavigation	BOOL	"no"
AIS.ShowSearchAndRescuePlanes	BOOL	"no"
AIS.ShowClassBTargets	BOOL	"yes"
AIS.ShowDeadReckonedPosition	BOOL	"no"
AIS.AssumeStationaryTargetsAreSafe	BOOL	"no"
AIS.Logging	BOOL	"no"
AIS.DefaultVesselColor	COLOR	"S52:RESBL"
AIS.ShowVessels	BOOL	"yes"
AIS.ShowTracks	BOOL	"yes"

AIS.TrackLength	PERIOD	"30 min"
AIS.ShowPredictors	BOOL	"yes"
AIS.ShowVesselNames	BOOL	"yes"
AIS.FlashLostAndDangerousTargets	BOOL	"yes"
AIS.HideLostTargetsAfter	PERIOD	"3 min"
AIS.DangerCPA	DISTANCE	"0.25 nm"
AIS.DangerTCPA	PERIOD	"5 min"
AIS.ShowBaseStations	BOOL	"no"
AIS.ShowAidsToNavigation	BOOL	"no"
AIS.ShowSearchAndRescuePlanes	BOOL	"no"
AIS.ShowClassBTargets	BOOL	"yes"
AIS.ShowDeadReckonedPosition	BOOL	"no"
AIS.AssumeStationaryTargetsAreSafe	BOOL	"no"
AIS.ShowPredictedPassingLocations	BOOL	"true"
AIS.ShowVesselSpeeds	BOOL	"yes"
AIS.HilightDangerZones	BOOL	"no"
AIS.Logging	BOOL	"no"
AIS.BoundaryCrossingAlarm	BOOL	"no"

Alert and Alarm Options

Alerts.CourseUpdateAtWaypoints	BOOL	"true"
Alerts.BoundaryCrossing	BOOL	"true"
Alerts.DepthAbove	BOOL	"false"
Alerts.DepthAboveValue	DEPTH	"1000 ft"
Alerts.DepthBelow	BOOL	"false"
Alerts.DepthBelowValue	DEPTH	"10 ft"
Alerts.XTEOver	BOOL	"true"
Alerts.XTEOverValue	DISTANCE	"0.25 NM"
Alerts.Obstacles	BOOL	"true"
Alerts.LookAhead	PERIOD	"1 min"
Alerts.TimeBetweenAlerts	PERIOD	"30 secs"
Alerts.AudioDevice	AUDIO_DEVICE	"beeper"
Alerts.EnableVoiceAlerts	BOOL	"true"
Alerts.WhichVoice	SPEECH_VOICE	""
Alerts.Volume	SPEECH_VOLUME	"100"
Alerts.SpeechRate	SPEECH_RATE	"0"

Default Formatting Options

Default.TrackLineColor	COLOR	"red"

Default.TrackLineSize	LINESIZE	"1px"
Default.HeadingLineColor	COLOR	"black"
Default.HeadingLineStyle	LINESTYLE	"solid"
Default.HeadingLineSize	LINESIZE	"2px"
Default.SternLineColor	COLOR	"black"
Default.SternLineStyle	LINESTYLE	"dashed"
Default.SternLineSize	LINESIZE	"2px"
Default.BoundaryLineColor	COLOR	"red"
Default.BoundaryLineSize	LINESIZE	"1px"
Default.MarkSymbol	MARKSYM	"square"
Default.MarkTextColor	COLOR	"blue"
Default.MarkBackgroundColor	COLOR	"yellow"
Default.MarkFont	FONT	"8pt Tahoma"
Default.EventSymbol	MARKSYM	"circle"
Default.EventTextColor	COLOR	"blue"
Default.EventBackgroundColor	COLOR	"yellow"
Default.EventFont	FONT	"8pt Tahoma"
Default.AnnotationSymbol	MARKSYM	"circle"
Default.AnnotationTextColor	COLOR	"blue"
Default.AnnotationBackgroundColor	COLOR	"yellow"
Default.AnnotationFont	FONT	"8pt Tahoma"
Default.BoundryCircleSymbol	MARKSYM	"circle"
Default.BoundryCircleTextColor	COLOR	"blue"
Default.BoundryCircleBackgroundColor	COLOR	"yellow"
Default.BoundryCircleMarkFont	FONT	"8pt Tahoma"

Units of Measurement and Display Formats

Units.SlideSpeed	SLIDESPEEDUNITS	"fps"
Units.Depth	DEPTH_UNITS	"fathoms"
Units.Distance	DISTANCE_UNITS	"nautical-miles-and-yards"
Units.Height	HEIGHT_UNITS_	"feet"
Units.LocationFormat	LOCATION_FORMAT	"degrees-and-minutes"
Units.Speed	SPEED_UNITS	"knots"
Units.Temperature	TEMPERATURE_UNITS	"fahrenheit"
Units.TimeFormat	TIME_FORMAT	"twentyfour-hour"
Units.BearingFormat	BEARING_FORMAT	"magnetic"
Units.Fuel	VOLUME_UNITS	"gallons"
Units.Sailing	SAILING	"mercator"

Voyage Recorder Options

VDR.RecordVoyageData	BOOL	"yes"
VDR.KeepFor	PERIOD	"7 days"
VDR.AllNavigationData	BOOL	"yes"
VDR.AIS	BOOL	"yes"
VDR.RadarImage	BOOL	"no"
VDR.FishFinderImage	BOOL	"no"
VDR.Video	BOOL	"no"

Auto-Save Options

Documents.AutoSave	BOOL	"yes"
Documents.AutoSaveInterval	PERIOD	"1 min"

Application Options

Admin.LoginType	LOGIN_TYPE	"none"
APP.ShoreStation	BOOL	"no"
APP.ShowLatLonEntryHelper	BOOL	"yes"
APP.Exclusive	BOOL	"no"
APP.HideStartBar	BOOL	"no"
APP.UpdateClockFromGPS	BOOL	"no"
Toolbar.ClockShowSeconds	BOOL	"false"
Toolbars.AutoHide	BOOL	"false"
WINDOW.ShowStatusBar	BOOL	"yes"

Chart Options

Charts.AutoInstallCD	BOOL	"yes"
Maptech.ChartKitFolder	DIRECTORY	"C:\\ChartKit"
Maptech.Contour3DFolder	DIRECTORY	"C:\\3dcharts"
S63.UserPermit	STRING	""

Miscellaneous Options

Tracking.Enabled	BOOL	"yes"
NetMux.AutoConnect	BOOL	"yes"
StandardDisplay.Scale	STRING	"1:10,000"
StandardDisplay.Orientation	STRING	"north-up"
StandardDisplay.FollowMode	FOLLOW_MODE	"center"

Appendix B: Option Types

The following value types are used by the options:

TEXT	This is arbitrary text.
DISTANCE	This represents a linear distance and the units must be included. For example "100 ft". The valid units include:

nm	Nautical miles
mi, mile, miles	Statute miles
yd, yds, yard, yards	Yards
ft, foot, feet	Feet
in, ins, inch, inches	Inches
km	Kilometers
m, meter, meters	Meters
cm	Centimeters
mm	Millimeters

DEPTH	The represents a depth value and the units must be included. Valid units include:

f, fm, fms, fathoms	Fathoms
ft, foot, feet	Feet
m, meter, meters	Meters

HEIGHT	The represents a depth value and the units must be included. Valid units include:

ft, foot, feet	Feet
m, meter, meters	Meters

BOOL	This represents a true/false, on/off, or yes/no value. Valid values include:

true, yes, on	Option is enabled
false, no, off	Option is disabled

PERIOD	This represents a period of time. The units must be specified. Multiple values and units may be used as in "2h 30m". Valid units include:

w	Weeks
d	Days
h	Hours
m	Minutes
s	Seconds

SPEED	This represents a speed. The units must be specified. Valid units include:

kn, kt, kts, knots	Knots
m/h, mph	Miles (statute) per hour
k/h, kph	Kilometers per hour