

CENTRAFUSE USERS GUIDE

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Chapter 1

INTRODUCTION

Welcome to the Centrafuse mobile computer control interface. Centrafuse is a complete media and hardware management application for your mobile computer. Through it you can control media playback, control your blue-tooth enabled phone, navigate your vehicle, and perform engine diagnostics. Centrafuse runs on any mobile computer running Windows XP SP 2.

This guide will provide with the information you need to install Centrafuse and use its basic features. Advanced technical information may be found on the Flux Media website, www.cartft.com, which also includes message boards and a vibrant user community that is happy to help you. Centrafuse is extensible and customizable. You can extend by downloading third-party plug-ins. You can also create your own plug-ins via a Software Development Kit (SDK) provided by Flux Media to registered members.

Chapter 2

HOW TO GET STARTED

This chapter covers the following topics:

- Before you begin
- Installing the trial version of Centrafuse
- Activating the full version of Centrafuse
- Initial Setup - Starting Centrafuse for the first time

BEFORE YOU BEGIN

Before Centrafuse can be installed, the following preparations must have been completed:

1. The computer must meet minimum configuration requirements. For best results it is recommended that the mobile computer meet or exceed the Recommended System Specifications.
2. All hardware components such as GPS receivers, DVD players or radios must be installed or connected.
3. All drivers or special software required to operate the hardware has been installed.
4. Any pre-existing GPS Navigation software has been uninstalled.

MINIMUM SYSTEM REQUIREMENTS

600 MHz processor
256 MB of RAM
Windows XP SP2
Microsoft .Net 1.1 Framework

RECOMMENDED SYSTEM SPECIFICATIONS

1 GHz or faster processor
512 MB or more of RAM

INSTALLING THE TRIAL VERSION OF CENTRAFUSE

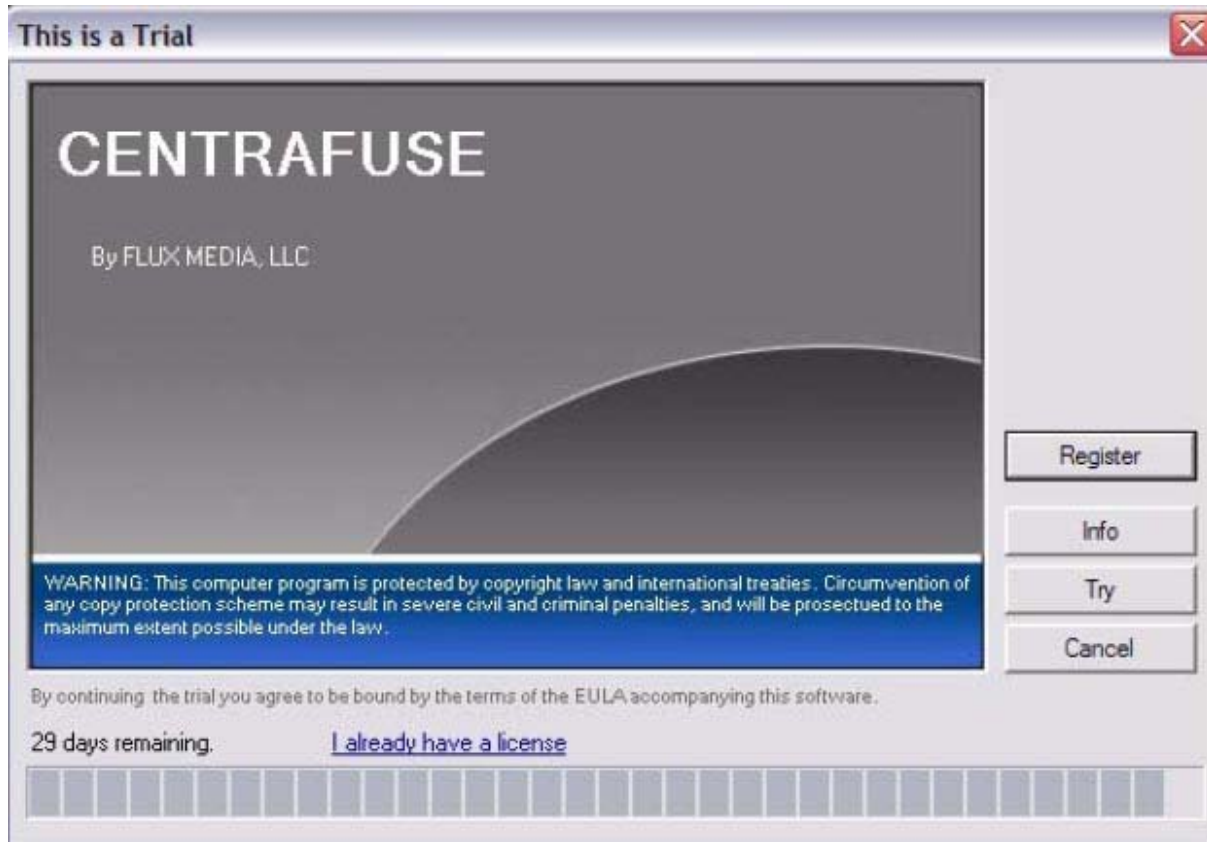


Figure 2-1: Trial version dialog box

To download the trial version of the program, do the following:

1. Direct a browser to <http://www.cartft.com/community/centrafuse>, and download the installer. The web page also contains links to popular third-party plug-ins as well as the installers for Microsoft .Net 1.1 Framework and Microsoft Speech Recognition Engine API 5.1.
2. Copy the downloaded files to your mobile computer.
3. If not already installed, install Microsoft .Net 1.1 Framework.
4. If you desire voice control for the computer, install Microsoft's Speech Recognition Engine.
5. Run the downloaded installer file.

Running the installer starts the Installation Wizard.

1. License Agreement: Read the end user license and agree to it.
2. Select Installation Folder: Identify the location where you will save the program and its supporting files. If you are unsure of the amount of disk space that the program will occupy, click "Disk Cost" to bring up a window that will display this information.

Identify whether or not the program will be available to all users on the computer, or only to the current user account.

Note: If you are installing the program from a different account than the one that will be used while operating the mobile computer, you must specify that the program be accessible by "Everyone"

3. Confirm Installation: Click "Next" to begin installation.
4. Installing Centrafuse: The installation progress bar will indicate progress of the installation.
5. Installation Complete: Click close to complete the installation.

ACTIVATING THE FULL VERSION OF CENTRAFUSE

When a trial version of Centrafuse is started, the application will display the "This is a trial" dialog box.

To register, you must purchase a license from CarTFT.com. This may be done online at <http://www.cartft.com/community/centrafuse>. CarTFT.com will send you a registration code.

Click "Register" and on the dialog box that opens, enter the registration code, along with your name and click "Register".

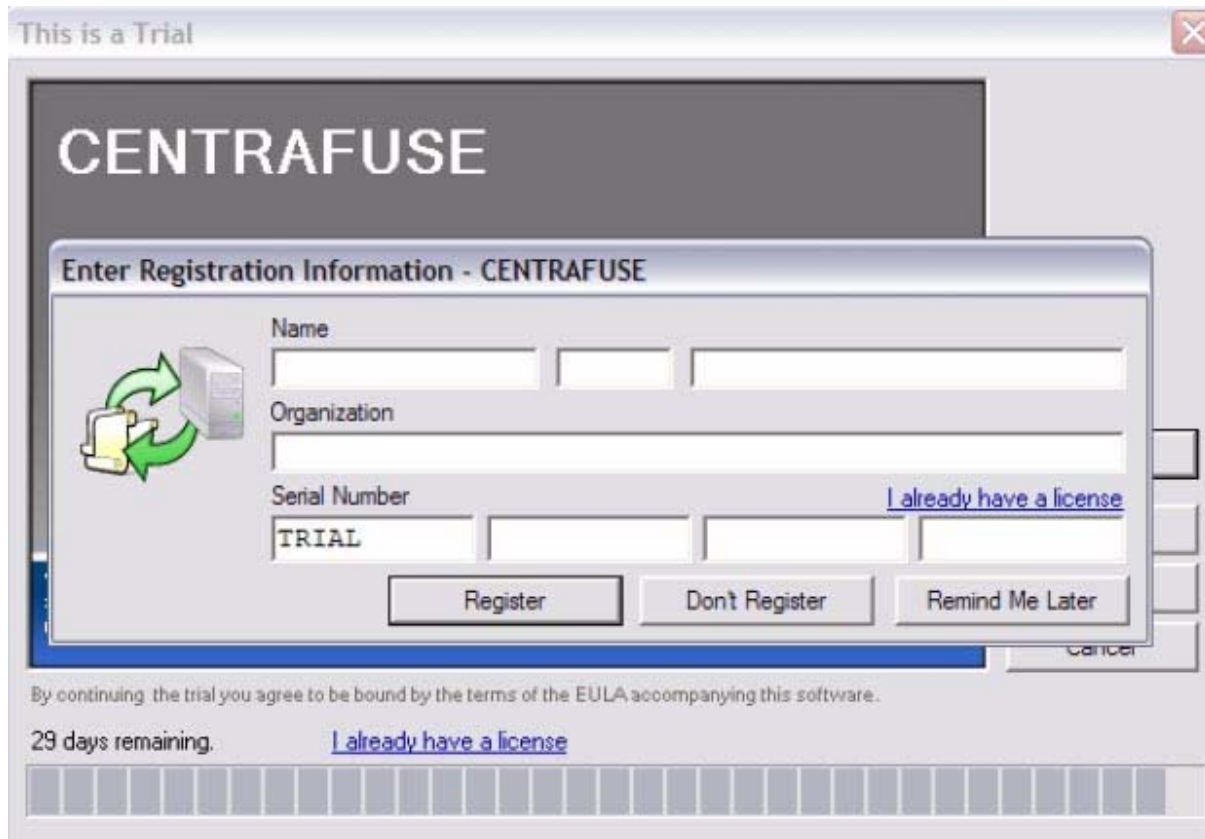


Figure 2-2: Registration screen

If you downloaded the trial versions of Centrafuse SE or Centrafuse XE, your registration code will unlock your currently installed software, requiring no additional downloads.

If you are registering a trial version of Centrafuse XLE, however, you will be sent a DVD containing a new install file that is larger than the trial download of XLE.

Before running the new installer, uninstall the trial version. Then, install the new version of Centrafuse XLE. Finally, you will be prompted to enter your serial number to unlock this full version of Centrafuse XLE.

To try the product during the 30 day trial period, Click "Try" in the "This is a trial" dialog box.

INITIAL SETUP - STARTING CENTRAFUSE FOR THE FIRST TIME

When you start Centrafuse for the first time, the Centrafuse Setup Wizard is run. It allows you to customize the settings that control your computer.

1. General Media Settings



Figure 2-3: General Media Settings window

Here you can choose day and night skins, the program language, screen resolution, startup and shutdown options and many other generalized settings. The default settings are configured for the United States. These settings are described in greater detail in *Chapter 5: Settings*. Page through all four pages using the navigation buttons in the bottom left of the screen. When satisfied with the settings, click “Save.”

2. Audio/Video General Media Settings



Figure 2-4: Audio/Video Settings window

Here you can register the folders which contain media. In multiscreen systems, you can specify which screens will display DVD's and video content. These settings are described in greater detail in *Chapter 5: Settings*. Page through all three pages using the navigation buttons in the bottom left of the screen. When satisfied with the settings, click “Save.”
 Additional Features Setup – see *Chapter 5: Settings*

3. You can register additional applications with Centrafuse or adjust other settings. It is recommended that you first familiarize yourself with Centrafuse before adjusting additional settings.

COMPLETING THE WIZARD

Once you are finished, tap the "Save" button. The wizard will then execute the Library Import process, importing media from files identified in step 2. This may take some time. Once the import process is complete, Centrafuse will be ready for you to use.

Chapter 3 MAIN MENU

This chapter covers the following topics:

- Status Display
- Control Bar
- Program Launcher



Figure 3-1: Main Menu

When Centrafuse is running, the screen can be split into three zones. The three zones are:

1. Status Display
2. Application Display
3. Control Bar

The status display and control bar are generally displayed regardless of which application is running.

STATUS DISPLAY



Figure 3-2: Status Display

The status display, located at the top of the screen, shows the status of the system and the media currently playing. The elements of the status display are listed below:

1. "Menu" drop-down menu. It can be used to quickly navigate through the major applications bundled with Centrafuse – simply touch the screen over the word "Menu" and tap the application you wish to go to.
2. Name of the currently playing media. Tapping the name will bring up the Media Library Selection screen which is described in *Chapter 4: Core Features*.

3. Type of media currently playing.
4. Time elapsed/remaining in the current track. Tapping the time will toggle between elapsed and remaining time.
5. Network Connectivity indicator. If the computer has network access, the indicator will show green. If the indicator is red, then there is no network connection. Tapping the indicator when it is red will prompt the computer to try to establish a network connection.
6. Local time and date. Tapping on the time will bring up a dialog box to change the time and date.

CONTROL BAR



Figure 3-3: Control Bar

The control bar, located at the top of the screen, is used primarily to control the media playback, display control, and for navigating between screens. The Control Bar's buttons are identified below, from left to right:

1. Volume controls – tap to change system volume
2. Mute – tap to toggle sound on or off
3. Rewind button – tap once to skip to previous track, tap and hold to scan backward along the track
4. Play/pause button – tap to pause or play media
5. Fast-forward button – tap once to skip to next track, tap and hold to scan forward along the track
6. Shuffle button – tap to toggle between playing the play list in order and shuffling items
7. Dim button – tap once to darken the screen. A second and third sequential tap will increasingly dim the screen. A fourth tap will return the screen to normal brightness. If you tap and hold until a beep, the screen will completely blank out. You can also tap and hold to toggle the skin between day and night mode.
8. Navigation button – when the button is labeled with an 'X' tapping it will exit the Centrafuse application. When it is labeled with an arrow, tapping it will return you to the main screen. If you tap and hold on the arrow button for two seconds, it will take you to the previous section.

PROGRAM LAUNCHER



Figure 3-4: Program launcher

The program launcher is used to list applications and plug-ins registered with Centrafuse. These applications and plug-ins may be started by tapping on the appropriate list location.

1. Navigation buttons – tap to move to the next or previous screens.
2. Application buttons – tap on the desired application to open its window.

Note: The applications bundled with Centrafuse are described in *Chapter 4: Core Features*.

Chapter 4 CORE FEATURES

This chapter covers the following topics:

- Media Player
- FM/AM Radio Player
- Satellite Radio Player
- DVD Player
- Audio Mixer
- Web Browser
- Phone Control (XE)

• GPS Navigation (XLE)

The core features of Centrafuse are the applications and plug-ins that are bundled with the Centrafuse application. There are three editions of Centrafuse, all of which share the same basic features. The XE and XLE editions include extra functionality, as detailed below:

Centrafuse SE	Centrafuse XE	Centrafuse XLE
Media player	Media player	Media player
FM/AM radio Player	FM/AM radio Player	FM/AM radio Player
Satellite radio Player	Satellite radio Player	Satellite radio Player
DVD player	DVD player	DVD player
Audio mixer	Audio mixer	Audio mixer
Web browser	Web browser	Web browser
	Phone control	Phone control
		GPS navigation

MEDIA PLAYER

The media player is used to play media stored on the mobile computer. The media player can play the following content:

AUDIO FORMATS

mp3, wav, wma, ogg, mp2, mp1, mpc, aac, mp4, m4a, ape, flac, wv, ofr, spx, mo3, xm, mod, s3m, it, mtm, ac3

VIDEO FORMATS

Any format supported by the Windows Media Player, such as avi, qt, mov, mpg, mpeg, mlv, wmv, bin, etc.

Note: Centrafuse will play any video format that allows you to install codecs for Windows Media Player.

FOCUSING ON THE MEDIA PLAYER

To focus on the media player, tap on the "Media," button on the Main Panel, or select "Media" from the navigation menu in the upper left side of the Status Bar.

MEDIA PLAYER DISPLAY



Figure 4-1: Media Player display

MY LIBRARY BUTTON

Tap this button to bring up the library control screen, which is described in the next section.

HARD DISK BUTTON

Tap this button to return to the most recent playlist that was playing media files on the hard-drive.

HARD DISK EJECTION BUTTON

Located to the right of the Hard Disk button. Tap this button to discard the most recent playlist that was playing media files on the hard drive.

CD BUTTON

Tap this button to begin playing any CD in the CD player.

CD EJECTION BUTTON

Located to the right of the CD button. Tap this button to eject the current CD in the CD-drive.

USB BUTTON

Tap this button to search any attached USB storage.

PLAYLIST DISPLAY

Shows all tracks in the currently playing playlist. Tap on a particular item to skip to it.

VISUALIZATION WINDOW



Figure 4-2: Visualization window

For audio files, this window displays either album artwork or animated visualization of the currently playing media. For video files it displays the video output. Tap once to cycle through different visualizations. Double-tap to maximize the window so that it covers the whole screen.

FAVORITES BUTTON

Tap this button once to flag the currently playing track as a favorite. Tap and hold to switch to a playlist composed of all media flagged as favorites. Note that tapping the Favorites button for a track that is already a favorite will remove that track from the favorites list.

PAGE UP BUTTON

Tap this button once to go to the previous screenful of tracks for playlists that are too long to fit on the playlist display.

PAGE DOWN BUTTON

Tap this button once to go to the next screenful of tracks for playlists that are too long to fit on the playlist display.

LIST VIEW QUICK FIND FEATURE

In the Media Player list view, as well as all other list views within Centrafuse, you can quickly scroll to a certain letter by pressing and holding anywhere inside the list view. Centrafuse will display a letter, which you can change by moving your mouse or finger slightly up/down. When you lift up, the list view will jump to the first occurrence of that letter in the list. This can make it easy to locate items within large lists.

MY LIBRARY

My Library is the control center for playing media on the mobile computer. It provides access to all the audio, video, and picture media stored on the mobile computer. When playing media, Centrafuse maintains a list of media that is in the queue to be played. The library provides controls to add media to the queue, remove items from the queue, or to replace the current queue with a different one. The "My Library" screen is split into three regions.

1. Navigation buttons
2. Media browser
3. Queueing controls



Figure 4-3: Three regions of My Library screen

NAVIGATION BUTTONS

The browser presents media in a large hierarchical tree. You use the navigation buttons to navigate through the hierarchy and to control the media currently displayed in the browser.

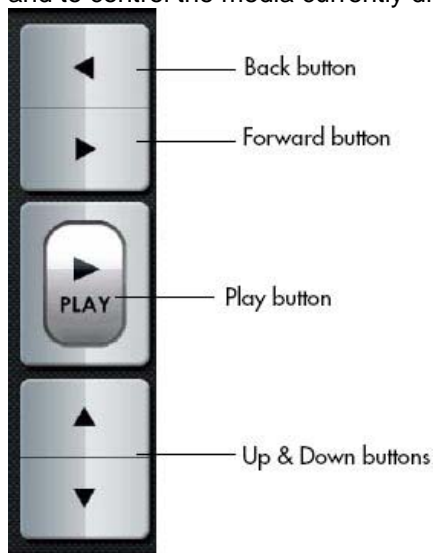


Figure 4-4: Media navigation buttons

BACK BUTTON

Tap this button to display all the items one level above the currently displayed level in the hierarchy tree.

FORWARD BUTTON

Tap to display the contents of the currently selected item in the browser.

PLAY BUTTON

Tap to play all the media within the currently selected item. For example, if you have a particular artist selected, tapping play will cause Centrafuse to queue up for playback every media item credited to that artist.

UP BUTTON

Tap to page up from your current location. If your location is the first on the list, tapping the Up button will page you to the first item on the list.

DOWN BUTTON

Tap to page down from your current location. If your location is the last item on the list, tapping the Down button will page you to the last item on the list.

MEDIA BROWSER

The media browser displays lists of media. To select an item on the list, tap its row. It is not possible to select multiple items simultaneously.



Figure 4-5: Media browser

LIBRARY BUTTON

Tap to have the browser display the highest level of the media library tree.

PLAYLISTS

Tap to have the browser display the playlists stored in Centrafuse. There are two default playlists that are stored in Centrafuse:

- 4. Queue: Shows the currently loaded playlist.
- 5. Favorites: Contains all media marked flagged as being a favorite.

Additional playlists can be created by the user.

Note: Playlist files (such as .m3u files) are not currently supported by Centrafuse.

QUEUEING CONTROLS

The queueing controls are used to add or remove items from the list of queued media.

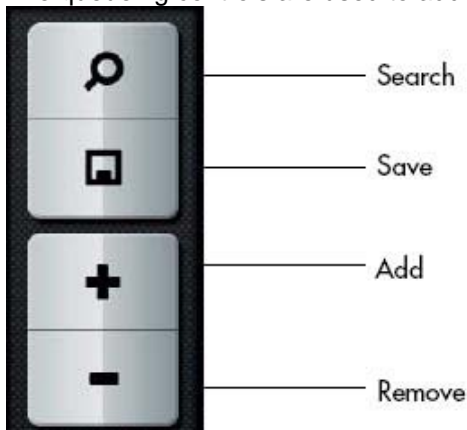


Figure 4-6: Queueing controls

SEARCH BUTTON

Tap the Search button to search for media. Select what media attribute, such as song title or author name, will be searched. Then, on the on-screen keyboard, type in the phrase or word you are looking for.

SAVE BUTTON

Tap the Save button to save the current queue of loaded songs. Type in the name of the playlist using the on-screen keyboard. Saved playlists will appear in the media browser whenever the Playlists button is tapped.

ADD BUTTON

Adds the currently selected item to the queue that is currently being edited.

REMOVE BUTTON

Removes the currently selected item from the queue that is currently being edited. Also, clicking the Remove button while highlighting an artist or album will remove that artist or album.

STACKED PLAYLISTS

Now that you know how to compile music playlists, Centrafuse gives you the ability to cycle through multiple or “stacked playlists” by clicking on the hard drive button multiple times.

As you create playlists in My Library, note that a number is displayed next to the hard disk button. This number represents the number of playlists you have compiled or saved in My Library. Cycling between each playlist is as easy as clicking the hard disk button until you hear the music you want.

Whether you have created hours worth of music across multiple playlists for a long trip, or short genre-specific playlists for your daily commute, the Stacked Playlists feature allows you to safely and conveniently navigate all of your varied music playlists using just one button.

Note: As you move from one playlist to the next, Centrafuse will remember exactly where you left off. When you eventually cycle back to previously listened to playlists, Centrafuse will begin playing the playlist at the exact point where you left it last.

FM/AM RADIO PLAYER

The Centrafuse FM Radio player is used to control radio play. In addition to the expected controls for tuning the radio and adjusting the volume, it can pause and resume the radio audio stream much like a DVR.



Figure 4-7: FM/AM Radio controls

SCAN BUTTON

Tap to begins an automated scan of the currently selected frequency band for stations. Tap again to halt the scan.

SEEK BUTTONS

Tap the fine seek buttons to change forward/backward the radio frequency to the next good radio signal. This feature must be supported by your radio hardware for it to work.

TUNING STEP BUTTONS

Tap the tuning step buttons to change the frequency by a user defined increment.
 Note: The size of the frequency change is selected by the user in the AM/FM Radio Settings

TUNE BUTTON

Used to jump the tuner to another frequency. Tap the Tune button and enter the desired frequency using the on-screen keyboard.

RADIO PRESETS

Tap to switch to a preset station. Tap and hold to assign the current station to that preset button.

FM BUTTON

Tap to switch to the FM band. Centrafuse supports up to 3 screens worth of FM presets. If you are already in FM band when you click the FM button, you will toggle to the second screen of FM presets. A third tap will take you to the third screen. A fourth tap will toggle you back to your original screen.

AM BUTTON

Tap to switch to the AM band. The AM button also supports up to 3 screens worth of AM presets. You can toggle through these AM presets in the same way you toggle through the FM presets.

PAUSE/PLAY BUTTON

Tap to pause the radio stream, and tap again to start playing the stream again.
 Note: That status display will display by how many minutes and seconds the current playback is lagging behind the live radio signal.

REWIND BUTTON

Tap and hold to scan backward along the audio stream.

FAST FORWARD BUTTON

Tap and hold to scan forwards along audio stream.

INFORMATION BUTTON

Tap to display information about what is currently playing on the radio station. Centrafuse will display this industry-standard RDS (Radio Digital Signal) information if the radio station digitally encodes it in their signal. Your installed radio device must also support RDS.

SATELLITE RADIO PLAYER

Centrafuse supports 2 XM Radio devices —XMPCR and XMDirect.

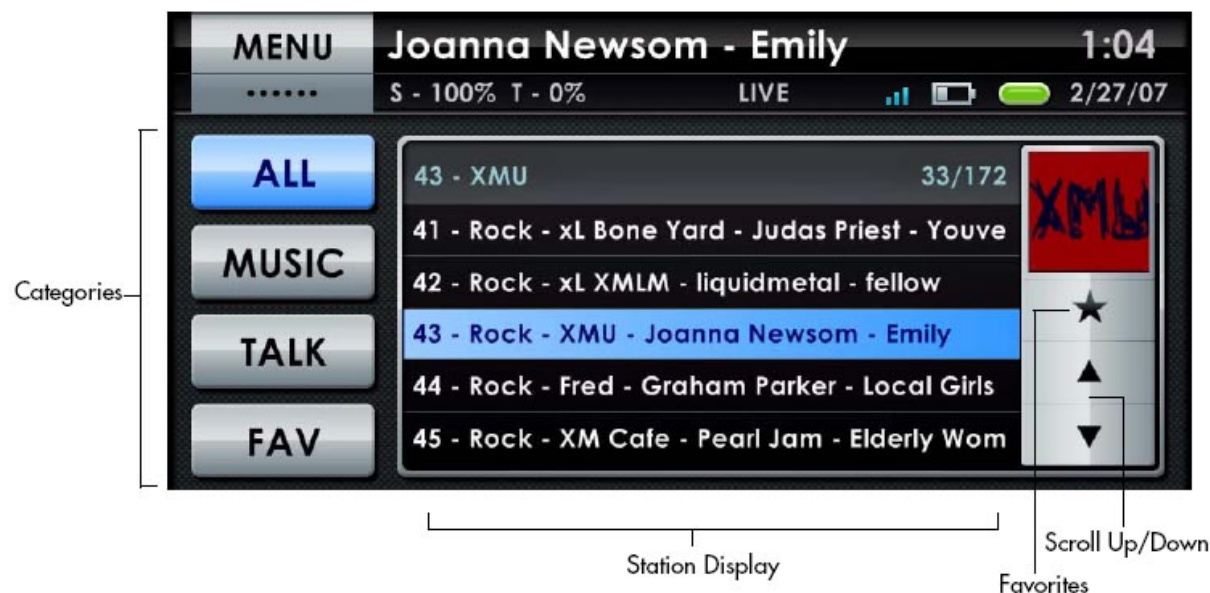


Figure 4-8: Satellite Radio Player

CATEGORY BUTTONS

Specify what category of music will be displayed in the station display. Tap once to display the stations that meet the button's criteria in the station display.

STATION DISPLAY

Displays a selection of available stations. Tap on a station to begin playing it.

FAVORITES BUTTON

Adds a station to the list of favorite stations. Note that tapping the Favorites button for a station that is already a favorite will remove that station from the favorites list.

SCROLL BUTTONS

Tap once to scroll the station display list up or down.

DVD PLAYER

You can use the Centrafuse DVD player to watch DVD's on the mobile computer. The playback buttons on the Control bar allow you to control the DVD playback.

Note: In order to play a DVD, you must first install any codecs required to have Windows Media Player play the DVD. Tap the menu button to have the player present the top menu of the DVD. To select a DVD menu item, tap the item on the screen. If the screen is not tapped for a few seconds, the DVD player will begin to show the video on the whole screen. You can restore the control buttons by tapping the screen.

MIXER

The Mixer controls the sound system's audio levels. The Mixer has four different screens:

1. Main Mixer
2. Equalizer
3. Levels
4. Presets

The audio levels are controlled by sliders, which can be positioned either by dragging your finger to the desired level, or by tapping the screen at the desired level.

MAIN MIXER



Figure 4-9: Main Mixer screen

This screen controls output levels of the Pre, Front, and Rear speakers, as well as the Sub woofer. It also controls the Treble and Bass levels as well as the Balance. The Main mixer is accessed by tapping the Main button once.

Note: The Pre output level controls the level of the wav output channel on the sound-card.

EQUALIZER



Figure 4-10: Equalizer screen

This screen is used to adjust the frequency response for the output speakers. The Equalizer is accessed by tapping the EQ button once.

LEVELS



Figure 4-11: Levels screen

This screen controls the computer audio input and output levels. You can adjust the Wav, Line, and CD output levels, as well as the CD In, Line In, Mic and Aux input levels. This Levels screen is accessed by tapping the Levels button once.

PRESETS



Figure 4-12: Presets screen

The Presets screen allows you to save and retrieve audio setups. For example, an audio setup that is desired for listening to rock music may differ from an audio setup that is desired for listening to an audio-book.

LOADING A PRESET

To load a previously saved preset audio setting, tap the desired Preset on the Preset button screen. Then tap the Load button.

SAVING A PRESET

To save the current settings as a preset, tap the Add button. Type in the name of the new preset using the on-screen keyboard.

DELETING A PRESET

To delete a preset, tap the desired Preset entry on the Preset screen. Then tap the Delete button.

THE SCROLL BUTTONS

Tap the scroll buttons to page up or down the list.

WEATHER



Figure 4-13: Weather application

The Weather application provides weather forecasts as supplied by weather.com©. Tap the links on the right side of the Weather screen to bring up weather related web pages in the Web Browser.

Note: The weather application is bundled free with this release of Centrafuse.

WEB BROWSER

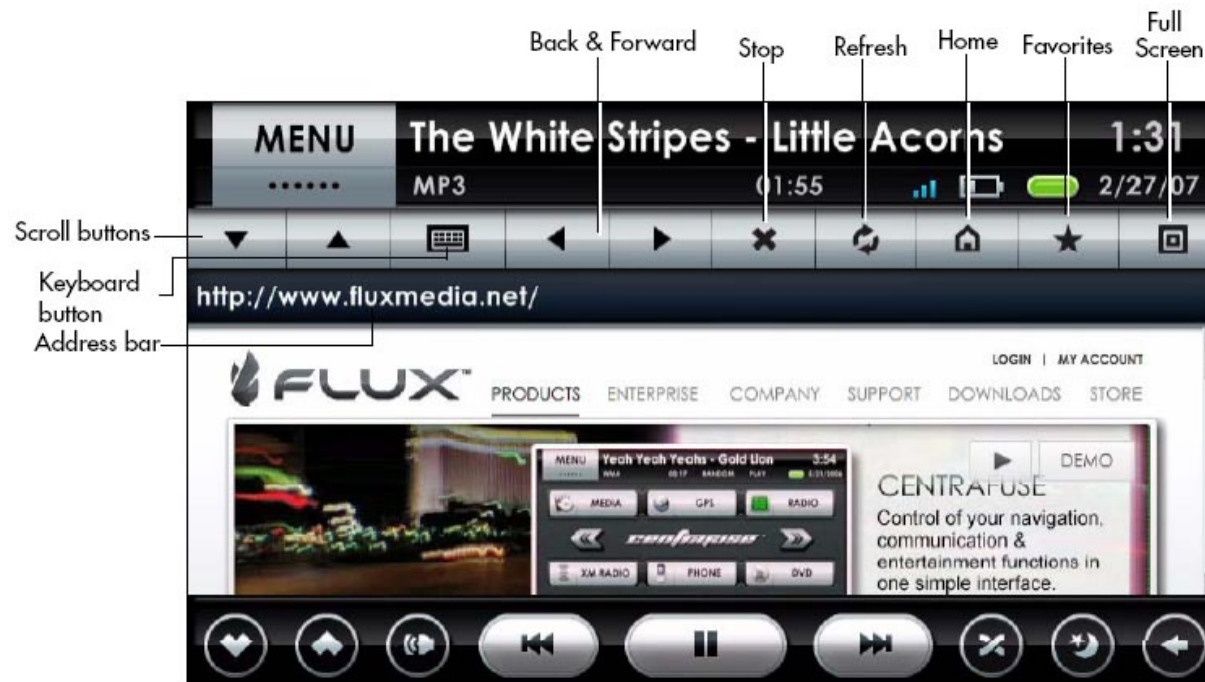


Figure 4-14: Web browser

When the system has web connectivity, you can access web pages using the browser plug-in. The browser has some unique, enlarged controls to facilitate mobile use. Tapping on links within a web page will cause the browser to open those links. Internet Explorer provides the browser engine for Centrafuse's browser. The Centrafuse Browser shares its home page setting and bookmarks with Internet Explorer.

Note: Pop-ups are disabled by default. To enable pop-ups, edit the Web Settings screen.

SCROLL BUTTONS

Tap these buttons to scroll the page up or down in the browser window.

KEYBOARD BUTTON

This button calls up the on-screen keyboard. To type text into a field on the browser window, tap the field, then tap the Keyboard button. After entering in the desired text, tap enter to insert the text into the field.

BACK AND FORWARD BUTTONS

Use these buttons to navigate backward or forward in the sequence of your current web browsing session. These buttons can also be used to navigate backwards or forwards from any pop-ups that appear during your session; assuming you have enabled pop-ups in your Web Settings screen.

STOP BUTTON

Tap this button to cancel the current operation by the browser.

REFRESH BUTTON

Tap this button to refresh the current web page.

HOME BUTTON

Tap this button to open your home page.

FAVORITES BUTTON

Tap this button to bring up a list of bookmarked websites.

FULL SCREEN BUTTON

Tap this button to toggle the browser display between the full screen and normal screen modes.

In the normal screen mode, the browser window is displayed between the Status display and the Control Bar.

In the full screen mode, the Status Display is removed, and the browser window covers the entire screen above the Control Bar.

ADDRESS BAR

To download a specific web address, tap the Address Bar. Then, on the on-screen keyboard, type in the desired web address.

NAVIGATION



Figure 4-15: Navigation screen

The Navigation application is used for trip planning and to track the vehicle's current location through GPS. There are two modes of operation: Planner mode and Nav mode. In Planner mode, you can shift the display to show any region on the current map. In Nav mode, the map will remain centered on the vehicle. The Navigation display has an information bar, buttons for route control, mode control, and display control.

INFORMATION BAR

The Information Bar cycles through displaying the following items:

1. Speed
2. Direction and Altitude
3. Number of Locked Satellites
4. Current Address

Each item is displayed for 10 seconds. Tapping the Information Bar will cause it to immediately display the next item in the sequence.

DISPLAY CONTROLS

You can adjust the scale of the map and the size of the map on the screen using the following buttons.

ZOOM BUTTONS

Tap these buttons to zoom the display in or out.

FULL SCREEN BUTTON

Tap these buttons to toggle the map display between the full screen and normal screen modes.

In the normal screen mode, the map is displayed between the Status display and the Control Bar.

In the full screen mode, the Status Display is removed, and the map covers the entire screen above the Control Bar.

ROUTE CONTROLS

Use the following buttons to configure your route and route plan.

CANCEL ROUTE BUTTON

Tap this button to cancel route.

ROUTE BUTTON

Tap this button to bring up Navigation menu. The Navigation menu is described in the next section.

VIEW MODE CONTROL

View Mode Control is described in section *View Mode Control* on page 33.

NAVIGATION MENU



Figure 4-16: Navigation menu

The Navigation menu is used to select the current map, to assign destinations, and to set routing preferences. The Navigation menu is launched from the Route button on the main Navigation window.

SELECTING MAPS

Most users like to maintain multiple maps. Local maps allow you to perform address searches quickly. Regional and continental maps allow for longer trips, but can be more cumbersome to use. Typically, you will want to have regional or local maps for areas you commonly drive, and then a cross-regional or continental map for long distance driving. To change maps, tap the Change Map button and select the map you wish to use. Then tap the Load button. Tapping Close will cancel the operation.

NEW ADDRESSES

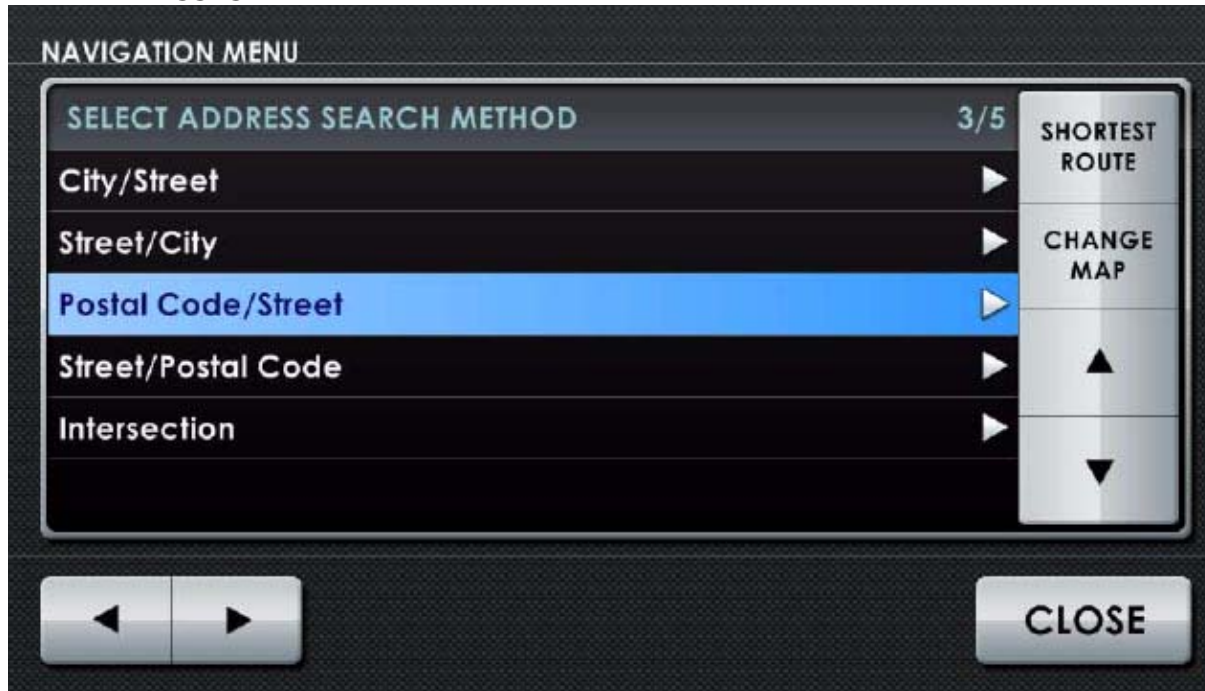


Figure 4-17: Entering a new address in the Navigation menu

To enter a new address, select New address on the Navigation menu and tap the Forward button. There are four methods to search for new addresses:

- City/Street – by Street address
- Street/City – by Street address (when you are unsure about the town)
- Postal Code/Street – by street address when the postal code is known
- Intersection – the intersection of two streets

CITY/STREET

Tap this item and click the Forward button to locate a street address, and the system will collect information needed to pinpoint the address. Throughout this operation, tapping the Back button returns you to the previous step. You will be prompted to select a city from a drop-down list. Either tap the scroll buttons to bring the desired city into view, or use the abbreviated on-screen keyboard to type the leading letters of the city name. As you type, the list will scroll to show cities whose names begin with the typed letters. To toggle the keyboard between numbers and letters, tap the “...” button on the lower-right corner of the keyboard. To backspace, tap the Backspace button just to the right of the typed text. Tap the name of the desired city and click the Forward button. The display then will list all streets known to be in that city. To select the desired street, follow the same process you used to select the desired city. Once you have selected the desired street, the system will prompt you to select the street number from the list of valid numbers associated with that street and city combination. Select the proper street number. To generate a route to that address, tap the GO button. Note that you do not have to wait until you have found an exact street number to tap GO. You can tap GO at the city or street steps. If you wish to check the location on the map, or review the planned route, tap the PREVIEW button.

STREET/CITY

If you know the name of the street, but are unsure of the city where the address is located, you can search for the address by street name and then by the city. Tap on “Street/City” and click the Forward button to locate a street address by this method. Throughout this operation, tapping the Back button returns you to the previous step. You will be prompted to select a street from a drop-down list of all streets on the map. Either tap the scroll buttons to bring the desired street into view, or use the abbreviated on-screen keyboard to type the leading letters of the street name. As you type, the list will scroll to show streets whose names begin with the typed letters. To toggle the keyboard between numbers and letters, tap the “...” button on the lower-right corner of the keyboard. To backspace, tap the Backspace button just to the right of the typed text. Tap the name of the desired street and click the Forward button. The display then will list all cities that have a street with that name. To select the desired city, follow the same process you used to select the desired street. Once the city is selected, the system will prompt you to select the street number from the list of valid numbers associated with that street and city combination. Select the proper street number. To generate a route to that address, tap the GO button. As in the City/Street function, you do not have to wait until you have found the exact street number to tap GO.

If you wish to check the location on the map, or review the planned route, tap the PREVIEW button.

POSTAL CODE/STREET

For large regional maps containing many streets and cities, the previous methods may be inconveniently cumbersome. A quicker option is to narrow down the search to a specific postal code. Tap this item and click the Forward button to locate a street address by this method. Throughout this operation, tapping the Back button returns you to the previous step.

You will be prompted to select a postal code from a drop-down list of all the postal codes on the map. Either tap the scroll buttons to bring the desired postal code into view, or use the abbreviated on-screen keyboard to type the leading characters of the postal code. As you type, the list will scroll to show postal codes whose names begin with the typed letters. To toggle the keyboard between numbers and letters, tap the “...” button on the lower-right corner of the keyboard. To backspace, tap the Backspace button just to the right of the typed text.

Tap the name of the desired postal code and click the Forward button. The display then will list all streets known to be in that postal code. To select the desired street, follow the same process you used to select the desired city. Once the street is selected, the system will prompt you to select the street number from the list of valid numbers associated with that street and postal code combination. Select the proper street number. To generate a route to that address, tap the GO button. Remember, you can tap GO even if you don't know the exact street address. If you wish to check the location on the map, or review the planned route, tap the PREVIEW button.

STREET/POSTAL CODE

An alternate way to search large regional maps containing many streets and cities is to search by street name, then narrow down the search to a specific postal code. Tap “Street/Postal Code” and click the Forward button to locate a street address by this method. Throughout this operation, tapping the Back button returns you to the previous step.

You will be prompted to select a street from a drop-down list of all streets on the map. Either tap the scroll buttons to bring the desired street into view, or use the abbreviated on-screen keyboard to type the leading letters of the street name. As you type, the list will scroll to show streets whose names begin with the typed letters. To toggle the keyboard between numbers and letters, tap the “...” button on the lower-right corner of the keyboard. To backspace, tap the Backspace button just to the right of the typed text. Tap the name of the desired street and click the Forward button. The display will then list all postal codes known to contain a street with that name. To select the desired postal code, follow the same process you used to select the desired street. Once the street is selected, the system will prompt you to select the street number from the list of valid numbers associated with that street and postal code combination, or you can simply tap Go to generate a route view. Select the proper street number.

To generate a route to that address, tap the GO button. Or, as in previous sections, if you don't know the exact address, click Go anyway, at the street or city level, to get a general route that you can fine-tune later. If you wish to check the location on the map, or review the planned route, tap the PREVIEW button.

INTERSECTION

You can also search for the intersection of two streets. Tap a location and click Forward to prompt the system to collect information needed to pinpoint the intersection. Throughout this operation, tapping the Back button returns you to the previous step. You will be prompted to select a city from a drop-down list. Either tap the scroll buttons to bring the desired city into view, or use the abbreviated on-screen keyboard to type the leading letters of the city name. As you type, the list will scroll to show cities whose names begin with the typed letters. To toggle the keyboard between numbers and letters, tap the “...” button on the lower-right corner of the keyboard. To backspace, tap the Backspace button just to the right of the typed text. Tap the name of the desired city and click Forward. The display then will list all streets known to be in that city.

To select the first of the intersecting streets, follow the same process you used to select the desired city. Once the first street is selected, the system will prompt you to select another street. Select the second street. If the two streets do not intersect, you will receive an error message. To generate a route to that intersection, tap the GO button. If you wish to check the location on the map, or review the planned route, tap the PREVIEW button.

FAVORITES

The system will store a list of favorite addresses. To select a favorite address as a destination or to modify the list of addresses, tap the Favorites item on the Navigation menu and click Forward.

Favorite addresses are collected into folders. These folders are used to separate addresses into groups. For example, a vehicle used both for personal travel and for business might have one folder for all business clients and another for personal destinations.

FOLDER MANAGEMENT

To select a folder, tap the folder name and click Forward. To add a folder, tap the Add button. To delete a folder, tap the Remove button.

NOTE: When you delete a folder, the system will delete the folder, whether it contains an address or not.

MANAGING ADDRESSES

Once you have selected a folder, the system will display a list of addresses within the folder. To select an address, Tap the Address button, and then tap Go. To preview the route, select the address and tap the PREVIEW button.

To add a new address, tap the Add button. You will be prompted to select from one of the following options:

1. Select the current location – tap this button to add the current location to the Favorites list.
2. Add a new address – tap this button to add a new address. You will be prompted to select an address using one of the New Address methods documented at section *New Addresses* on page 34.
3. Add the current destination – tap this button to select the current destination. Import locations – Will import lists of locations that can be downloaded from various web sites. Locations are typically stored in comma-delimited files of the format Location name, Latitude, Longitude

Once you have selected an address, you will be prompted to provide a name for this entry. Using the on-screen keyboard, type in the name you wish to give to this location. To delete an address, select the target address, and tap the Delete button.

POINTS OF INTEREST



Figure 4-18: Point of Interest categories

Tap this item and click Forward to search for a point of interest. Points of interest are divided up into numerous categories. You cannot add or delete categories. Select the desired category and either tap the Search button or the Forward button to see all entries in that category in the Select location menu. Click the Show/Hide button to toggle a category's route icons on or off.

POINT OF INTEREST: DIAL



Figure 4-19: Point of Interest Dial feature

After selecting a Point of Interest category, and drilling into a particular Point of Interest location, Centrafuse allows you to telephone that location. Tap the “DIAL” button in the top right hand corner of your screen and Centrafuse will automatically call the number of your location; no manual dialing required.

SEARCHING FOR A POINT OF INTEREST

If you tap the Search button, you will be prompted to enter a word or phrase that is contained in the name of your destination. All entries containing that phrase or word will be displayed in the Select location menu.

SELECT LOCATION MENU

This list displays all locations that meet the search criteria. If no search was performed, it displays all the entries within a folder. Use the scroll buttons to scroll to the desired destination, and tap the desired item. Then tap the GO button to route to that item or the PREVIEW button to see a potential route to that item.

HISTORY

To reselect a previously selected destination, tap the History item and click Forward. The previous destinations will be displayed in a list. Scroll down until the desired destination is visible, select it, and tap the GO button to route to it. Or tap the PREVIEW button to see a preview of the route.

TRIP PLANNER

You use the Trip planner to plan a trip that has multiple stops. A trip with multiple stops consists of a folder containing a sequence of destinations.

FOLDER MANAGEMENT

To select a folder, tap the folder name and click Forward. To add a folder, tap the Add button.

To delete a folder, tap the Remove button.

NOTE: When you delete a folder, the system will delete the folder, whether it contains an address or not.

MANAGING ADDRESSES

Once you have selected a folder, the system will display a list of planned destinations within the folder.

To add a new address, select the previous destination, and tap the Add button. You will be prompted to select from one of the following options:

1. Select the current location – tap this button to add the current location to the Favorites list.
2. Add a new address – tap this button to add a new address. You will be prompted to select an address using one of the New Address methods documented in section *New Addresses* on page 34.
3. Add the current destination – tap this button to select the current destination.

Once you have selected an address, you will be prompted to provide a name for this entry. Using the on-screen keyboard, type in the name you wish to give to this location. To select an address, Tap the Address button, and then tap Go. To preview the route, select the address and tap the PREVIEW button. To delete an address, select the target address, and tap the Delete button.

AVOID ROADS

If you wish to avoid particular roads or intersections, you can store this preference in a list of addresses to avoid. The addresses to be avoided are grouped in folders.

AVOIDING ADDRESSES

Select the folder containing the addresses you wish to avoid and tap the Avoid button. The folder will be flagged as being avoided.

PERMIT USE OF ADDRESSES

Select the folder containing the addresses you wish to permit routing past and tap the Use button. The folder will no longer be flagged as being avoided.

FOLDER MANAGEMENT

To select a folder, double-tap the folder name. To add a folder, double-tap the Add button. To delete a folder, double-tap the Remove button.

Note: When you delete a folder, the system will delete the folder, whether it contains an address or not.

MANAGING ADDRESSES

Once you have selected a folder, the system will display a list of planned destinations within the folder.

To add a new address, select the previous destination, and tap the Add button. You will be prompted to select from one of the following options:

1. Select the current location – tap this button to add the current location to the Favorites list.
2. Add a new address – tap this button to add a new address. You will be prompted to select an address using one of the New Address methods documented in section *New Addresses* on page 34.
3. Add the current destination – tap this button to select the current destination. Once you have selected an address, you will be prompted to provide a name for this entry. Using the on-screen keyboard, type in the name you wish to give to this location. To select an address, Tap the Address button, and then tap Go. To preview the route, select the address and tap the PREVIEW button. To delete an address, select the target address, and tap the Delete button

VIEW MODE CONTROL



Figure 4-20: View Mode Control screen

Use the View mode controls to change the map display.

3D VIEW



Figure 4-21: 3D View screen

In 3D view, the map is displayed as if from a “bird’s eye view”; flying above and behind the vehicle. It provides a view of the planned route that more closely matches what the driver sees out of the front of the vehicle. Tapping the zoom buttons will change the angle of the 3D view. Tap the 3D button to switch to 3D view.

2D VIEW



Figure 4-22: 2D View screen

In 2D view, the map is displayed in a traditional overhead view. Tap the 2D button to switch to the 2D view.

DAY SKIN

The Day Skin uses map colors that are suited for daytime driving. In the daytime, bright sunlight reflected off of surfaces in the car can result in glare that makes the display hard to see. The Day Skin improves the visibility of the screen.

Tap the Day Skin button to switch to the day skin.

NIGHT SKIN

The Night Skin uses map colors and intensities that are suited for night-time driving. In the nighttime, bright colors can interfere with night vision. The Night Skin makes the display visible without interfering with night-vision. Tap the Night Skin button to switch to the Night Skin.

ORIENT NORTH

Tap this button to display the map so that the top of the display points to North. Note: This setting only impacts the 2D view of the map. The 3D view always points in the direction of travel.

ORIENT FORWARD

Tap this button to display the map so that the top of the display points in the direction of travel. Note: This setting only impacts the 2D view of the map. The 3D view always points in the direction of travel.

SHOW TURNS



Figure 4-23: Show Turns screen

Tap this button to display a list of planned turns. The list shows the distance to the turn, the name of the street being turned onto, and a graphic indicating what sort of turn (left, right, straight-ahead, etc.). It is possible to alter the planned route from this list. For example, to avoid a particular road, tap the item on the list of turns, and tap the Avoid button. Note that double-tapping on a listed turn on the right side of the screen will display the turn on the map to the left. This is useful in anticipating what future turns will look like before actually getting there. Click on the map to return to normal. To close the window, tap the Close button at the bottom right of the screen.

HIDE TURNS

Tap this button to close the window showing the list of planned turns.

PLANNER MODE

In Planner mode, when the display is in 2D mode, the map will not be centered on the vehicle. This allows you to shift the map around to display items that are far away. Tap this button to switch to Planner mode.

NAV MODE

In Nav mode, the map is centered on the vehicle. The map will display the region surrounding the car. Tap this button to switch to Nav mode.

SHOW ROUTE

Tapping this button will result in the whole route being displayed on the screen. The map will be displayed in Planning mode with a 2D view.

USING THE MAP DISPLAY

You can also use controls embedded into the map in planning routes and reviewing directions.

If you tap on a location on the screen, you will be asked if you wish to get directions to that address.

If Centrafuse is trying to guide you on a route, you will be able to see a transparent turn signal in the upper-left-hand screen.

Tap it to bring up a display informing you about your next turn.

Chapter 5 SETTINGS

CENTRAFUSE SETTINGS MENU

The Settings application allows you to configure Centrafuse to work with your hardware and to customize Centrafuse according to your preferences.

GENERAL SETTINGS

The general settings control the behavior of Centrafuse across all applications. To change a setting, tap the item on the screen, and then select the desired option out of the displayed list of options. The settings are detailed below. Once you have completed making changes, you can apply the new settings by tapping the Save button. Tap the Cancel button to cancel all changes.

PAGE 1 GENERAL SETTINGS

DAY SKIN

Selects the skin to be used in the daytime.

NIGHT SKIN

Selects the skin to be used at nighttime.

LANGUAGE

Selects the language used in the application display.

RESOLUTION

Selects the screen resolution.

AUTOPLAY MEDIA

Specifies whether any media found on a newly inserted device such as a CD, a DVD, or a USB device will be automatically played.

HIDE CURSOR

Specifies whether Centrafuse hides the mouse pointer.

FULLSCREEN

Specifies whether the Centrafuse application will occupy the full screen.

CLICK SOUNDS

Specifies whether taps on the screen will be acknowledged with sounds

PAGE 2 GENERAL SETTINGS

KEYBOARD LAYOUT

Identifies which on-screen keyboard will be used for data entry. Different keyboards support different languages.

STARTUP LOCATION

Specifies which application or plug-in will be switched to by default when Centrafuse starts.

TIME ZONE

Identifies the timezone that the mobile computer will be operating within. This feature will set the time zone system setting for Windows.

MAIN PAGE CLOSE BUTTON ACTION

Specifies what will happen when a person presses the Close Button on the Main Screen. You can customize the application to respond by doing one of the following:

- Shutting down the computer
- Restarting the computer
- Ignoring the command
- Exiting Centrafuse

STARTUP SOUND

Specifies whether Centrafuse will play the starting audio clip during application startup.

DAYLIGHT SAVINGS

Specifies whether the clock is adjusted for daylight savings time. This setting sets the Daylight Savings Time setting in Microsoft Windows.

LOGARITHMIC VOLUME

Specifies whether the volume control the volume logarithmically or linearly. Since people perceive volume logarithmically, logarithmic control tends to work more intuitively than the Windows default linear control.

RUN AS SYSTEM SHELL

Specifies whether Centrafuse prevents users from accessing the Windows Desktop. When Centrafuse runs as the system shell, users are not able to start up applications that are not registered with Centrafuse.

PAGE 3 GENERAL SETTINGS

IGNITION OFF ACTION

Specifies how the mobile computer will be shutdown when the ignition is turned off. This modifies how Windows handles the powering down action.

STARTUP/SHUTDOWN COMMANDS

When starting up or shutting down the system, Centrafuse can execute a sequence of commands, either in the form of executable applications or Windows Scripts. Centrafuse supports four different sequences:

- Startup – commands executed during application startup
- Standby – commands executed when the computer is powering down to standby mode or is hibernating
- Resume – commands executed when the computer resumes from a standby mode
- Shutdown – commands executed when the computer is fully powering down

To configure a particular sequence, tap the sequence you wish to modify and tap the Forward button.

To add a command, tap the Add button and select in the file browser the particular application or script you wish to be executed. To delete a command, tap the command to highlight it, and then tap the Remove button.

To insert a command in the middle of a sequence, highlight the command that will be executed just before the inserted command then tap the Add button. Once you are satisfied with the commands, tap the Close button to return to the previous screen. To save changes, tap the OK button. To cancel changes, tap the Close button.

UNIT

Specifies the system of units used in various displays. The choices are:

- Imperial, which is the system where distances are measured in miles, and temperatures in °F.
- Metric, which is the system where distances are measured in meters, and temperatures in °C.

DAY SKIN SWITCH TIME

Specifies at what time in the morning the Day Skin is applied.

HIDE TASKBAR

Specifies whether the Windows Taskbar will be hidden.

AUTO SWITCH SKIN

Specifies whether the application will switch automatically between day and night skins.

SINGLE CLICK

Specifies whether double-taps or single-taps are required to select certain items.

MULTIPLE INSTANCES

Allows multiple instances of Centrafuse to run at the same time. This setting is useful when running Centrafuse on a multiuser environment.

PAGE 4 GENERAL SETTINGS

NIGHT SKIN SWITCH TIME

Specifies at what time at night the Night Skin is applied.

AUDIO/VIDEO

The audio/video settings control media playback settings for Centrafuse. To change a setting, tap the item on the screen, and then select the desired option out of the displayed list of options. The settings are detailed below. Once you have completed making changes, you can apply the new settings by tapping the Save button. Tap the Cancel button to cancel all changes.

PAGE 1 AUDIO/VIDEO SETTINGS

MUSIC FOLDERS

This setting is used to specify which folders in the file system contain music. To add a folder, tap the Add button, and navigate to the specific folder using the Centrafuse file system browser. When a folder is added, all subfolders are also added.

VIDEO FOLDERS

This setting is used to specify which folders in the file system contain video content. To add a folder, tap the Add button, and navigate to the specific folder using the Centrafuse file system browser. When a folder is added, all subfolders are also added.

PICTURE FOLDERS

This setting is used to specify which folders in the file system contain pictures. To add a folder, tap the Add button, and navigate to the specific folder using the Centrafuse file system browser. When a folder is added, all subfolders are also added.

CROSS FADE TIME

Specifies the time, in seconds, where media tracks will be overlapping as the old track fades out and the new track fades in.

NORMALIZATION

Specifies whether Centrafuse will adjust the playback volume to avoid a sudden change in volume when transitioning from playing one media track to playing another.

AUTO START MUSIC

Specifies whether Centrafuse will start playing media when the application starts.

CROSS FADING

Specifies whether the system will cross-fade when transitioning between one media item and another.

COVER ART

This setting allows you to disable cover art in My Library. Toggling this setting off will render a list of tracks in My Library, rather than square cover art boxes filled with album art or generic cover art images.

PAGE 2 AUDIO/VIDEO SETTINGS

TITLE SCROLL DELAY

When a media title is too long to fit in the status display, the start of the title is displayed statically for a period of time, then the system scrolls the entire title through the display. This setting specifies the duration of that initial static display.

DVD DISPLAY

Specifies which display will be used for DVD playback.

VIDEO DISPLAY

Specifies which display will be used for Video display.

VISUALIZATION DISPLAY

Specifies which display will be used for displaying visualizations of audio media.

SORT BY TRACK

Centrafuse sorts tracks alphabetically by default. Toggling this setting will sort tracks by track number.

USE PRE AS MASTER VOLUME

Specifies whether Centrafuse will adjust the volume of the wav output channel on the soundcard.

FOLDER TAG READING

Specifies whether Centrafuse will automatically read tags from all media files when an external drive is plugged in.

ENABLE EQ

Specifies whether the equalizer is enabled.

PAGE 3 AUDIO/VIDEO SETTINGS

SPEAKER OUTPUT

Specifies which speakers receive audio output.

CONTROL REAR/SUB

Specifies whether your sound-card supports separate channels for the rear speakers and the subwoofer. Do not enable this setting unless your sound-card supports these channels.

ADJUST REAR/SUB WITH MAIN

Specifies whether Centrafuse should adjust the volume for the rear speakers and the subwoofer in parallel to the master speaker.

FRONT AS MASTER

Specifies whether Centrafuse will only adjust the volume for the front speaker channel. Use this setting only if your sound-card supports multiple channels.

AM/FM RADIO

DEVICE

Specifies what model of radio is incorporated into the mobile computer system.

LINE IN DEVICE

Specifies which computer audio input stream receives the output of the radio.

FM TUNING RANGE

Specifies the frequency range assigned to FM radio stations in the region. The Standard range is apportioned to FM radio stations in the US, and the Enhanced range is apportioned to FM radio stations in Europe.

AM TUNING RANGE

Specifies the frequency range assigned to AM radio stations in the region. The Standard range is apportioned to AM radio stations in the US, and the Enhanced range is apportioned to AM radio stations in Europe.

TUNING STEP

Specifies the increment, in MHz, that the frequency will be changed whenever one of the step tuning buttons is tapped.

SATELLITE RADIO

DEVICE

Specifies what model of radio is incorporated into the mobile computer system.

LINE IN DEVICE

Specifies which computer audio input stream receives the output of the radio.

PORT

Specifies which COM port is used to communicate with the radio.

REFRESH CHANNEL LIST

Tap this to download a refreshed channel list from the radio.

NAVIGATION

The navigation settings are used to configure the GPS unit.

PAGE 1 NAVIGATION

PORT

Specifies which COM port is used to communicate with the GPS unit.

BAUD RATE

Specifies the speed of serial communications with the GPS unit.

GPS PROTOCOL

Specifies the GPS communication protocol. The two supported protocols are the National Maritime Electronics Association (NMEA) protocol and the SiRF technology protocol.

FONT SIZE

Specifies the font size for text on the map.

FULLSCREEN

Specifies whether the Navigation application launches with the map in the full screen mode or the normal screen mode.

AUTOZOOM

Specifies whether Centrafuse will automatically adjust the map zoom based on vehicle speed and proximity to your next turn.

VOICE PROMPTS

Specifies whether the system will give voice prompts.

CYCLE GPS INFORMATION

Specifies whether the Information bar cycles automatically through the different types of information it displays.

PAGE 2 NAVIGATION

MAP LABELS

Specifies the size of text labels on the map.

NOTIFICATIONS

Specifies whether notifications are delivered visually, verbally, or a combination of both.

VOICE PROMPTS

Specifies what types of events result in voice prompts.

POI DISTANCE

When searching for points of interest, the system will only return items within the specified distance.

AVOID U-TURNS

Specifies whether U-Turns should be permitted in the route planning.

AUTO TOGGLE DAY/NIGHT

Specifies whether the map will switch automatically between the night and day color schemes.

SORT FAVORITES BY DISTANCE

Specifies whether lists containing favorite addresses are sorted by distance rather than alphabetically.

SHOW ON TURN APPROACH

Specifies whether the system switches to the Navigation application as a turn approaches.

PAGE 3 NAVIGATION

NAVIGATION DISPLAY

Specifies which display is to be used for the Navigation display.