

NavView User Guide – 04 Projects

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Table of Contents

| 4. | Pro | ojects | 4-1 |
|----|-------|--|------|
| 4 | 1.1 | Overview | 4-1 |
| | 4.1.1 | l.1 Project | 4-1 |
| | 4.1.2 | I.2 Station | 4-1 |
| 4 | 1.2 | Project Folder | 4-2 |
| | 4.2. | 2.1 Local > Station Folder | |
| | 4.2.2 | 2.2 Shared > Data Folder | |
| | 4.2.3 | 2.3 Shared > SyncFolder | |
| | 4.2.4 | | |
| | 4.2. | 2.5 Shared > Working Folder | 4-4 |
| 4 | 1.3 | Create a New Project | 4-5 |
| 4 | 1.4 | Open an Existing Project | |
| 4 | 1.5 | Launch a Project on Start Up | |
| 4 | 1.6 | Launch a Project From the Command Line | |
| 4 | 1.7 | Import a Station | |
| 4 | 1.8 | Edit a Project | 4-12 |
| | 4.8. | 3.1 Geodesy | 4-12 |
| | 4.8. | 3.2 Project Configuration | 4-12 |
| | 4.8. | 3.3 Active Station | 4-12 |
| | 4.8. | 3.4 Configuration Tab | 4-12 |
| | 4.8. | 3.5 Preferences | 4-13 |
| | 4.8. | 3.6 Units of Measure | |
| | 4.8. | 3.7 Display Format | |
| | 4.8. | 3.8 Other | |
| 4 | 1.9 | Project – Save As | |



4. Projects

This section provides an overview how projects are created, opened, and edited in NavView.

4.1 Overview

NavView uses the concept of *Projects* and *Stations* to define the overall configuration and setup of the software for a construction operation or project and the NavView clients in use for the project. These concepts and how they are applied are detailed in this section.

| Roles | Privileges |
|-----------------------|--|
| Not Logged In | Cannot Open, create New, Import or Save As a project |
| User | Cannot Open, create New, Import or Save As a project |
| Online/Supervisor | Can Open, create New and Save As a project; Cannot |
| | Import a project |
| Admin (Administrator) | Can Open, create New, Import and Save As a project |

If Roles and Privileges are enabled, the following are what is allowed for each role:

4.1.1 Project

In NavView terms, a project is a specific set of configurations and supporting files associated with a construction project or specific phase of a project. These are divided into three basic levels. The top level involves the configuration information that is required for and common to the entire project. This includes geodesy and project details. The next level involves the supporting files and data that are *Shared* for the project, for example, background drawings, digital terrain model (DTM) files, 2- dimensional and 3-dimensional visual object files, etc. The final level involves configurations and data specific to each of the NavView clients, also referred to as Stations, deployed for the project operation, for example device, calculation and vehicle configurations. These are considered to be *Local*.

Projects can be created, edited and opened as required. This capability can be used by the operator to easily switch between projects or configurations specific to different operations within a single project.

4.1.2 Station

A station is a NavView client involved in a project configured to meet a specific requirement. Examples of a station are the online survey NavView system, an ROV van NavView system providing vehicle tracking and monitoring for ROV operators, a DPS NavView system providing vehicle tracking and monitoring as well as limited control of operations for the DPOs, and a remote NavView system operating as the online system on a support vessel. A station uses the project configuration as the base for its configuration but is then refined with station configuration options such as devices interfaced with, vehicles added and their configuration and presentation options, etc.

Note: A Station is a specific instance of NavView client and is not to be confused with a vessel or vehicle configuration. A single vessel may have multiple stations deployed



throughout, each meeting a specific requirement for the manipulation and presentation of data, any one of which may define and configure one or more vehicles. A single vessel may also have only a single station that includes the definition and configuration for that vessel only.

The configuration for a NavView station is considered to be Local to that station.

Note: It is important to be aware that NavView utilizes and assigns *Globally Unique Identifiers* or *GUIDs* to all objects involved with a station's configuration making each station itself unique. As a result, a station is not to be duplicated within a project, i.e., **do not** manually copy an existing Local station folder in a project and use for another station.

4.2 Project Folder

NavView utilizes a specific project folder structure and while the user is not constrained to follow this structure for all aspects of the configuration, it is recommended. The project

folder structure follows the aforementioned concept of *Shared* and *Local*. It is designed to facilitate local and remote operations. **Error! Reference source not found.** shows the project folder hierarchy. Each NavView client has a copy of the Project folder.

Project folders contain two primary subfolders: Local and Shared. Within the Local folder are subfolders containing the configuration for specific stations based on that station's name. These include device interface configuration, calculations configuration, vehicles configuration, workspace window layout, etc. These folders and files are placed here by NavView and must be located here.

Note: It is not necessary for any one station to have the Local station folders for all stations on the network, only that for itself.

Those project files that are of a more general nature and may wish to be available to other NavView systems via the data server are in the Shared folder. These include files such as vehicle shapes, waypoints, pipelines, rig moves, etc. NavView automatically creates the Shared folders shown in **Error! Reference source not found.**. The user must populate them accordingly.

The critical project configurations that are used by all NavView stations are in the project folder itself, specifically addressing Geodesy, Preferences and Project.

While it is possible to utilize files in NavView that are not located within the respective project folder, it is strongly recommended

 Public Documents 🗸 📜 4D Nav 📒 NavView 🗸 📁 Project 🗸 📒 Local Station > 📒 Config 🗸 📒 Data > 📒 AdcpData 📒 Logs State Working 🗸 📁 Shared 🗸 📒 Data 📒 Database SyncFolder 🗸 📁 Visuals 2D Background 📒 3D Seaflooi 📒 GIS 🗸 📜 Objects 📒 2D Outlines 3D Models 📒 Working



that this be avoided. Keeping the project self-contained promotes file and project management, simplifies archiving and facilitates technical support because the project can easily be replicated by loading the project.



Note: File paths are saved to the respective configuration files relative to the project folder. Therefore, selecting files that are located outside of the project folder can result in paths that are easily broken.

The following provides a summary of the folders and their contents.

4.2.1 Local > Station Folder

- Config
 - Configuration files for the respective station, including vehicles, IO devices, network service settings, etc.
- Data
 - ADCP
 - Logs
 - NavView writes a log file capturing general information of the software's operation, including such things as the changes in states of calculations, software issues (exceptions) if they occur, etc.
 - Each file captures one day based on UTC with the file name giving the date covered, yyyy-mm-dd.log
 - RawData
 - When using the option to log raw device data, the captured data is written to this folder
 - A folder is created for each device being logged that contains the captured data
- Note: When creating a ZenDesk ticket reporting an issue, it is recommended to include the respective log file that includes the period the issue was experienced.
 - State
 - Files used to store the states of various NavView operations and assets, e.g., AnchorState.xml when using the Anchor Management module
 - Working
 - Local copies of waypoints, survey lines and pipelines data

4.2.2 Shared > Data Folder

- Database
 - This is the default folder that database files are written when using SQL localDB
 - Using this default simplifies the archiving of projects since all the data is contained in the project folder

4.2.3 Shared > SyncFolder

• Files that are to be automatically distributed to NavView clients connected to the network services can be located in this folder



- NavView monitors this folder and when a file is added it distributes it to the other NavView
- Files that are distributed are placed in this folder on the receiving NavView clients
- Note: Files used for displaying background visuals in the Map views such as *.dwg, *.dxf, *.geotiff, GIS files, do not need to be located in the SyncFolder in order to be distributed. They are distributed when loaded by any of the NavView clients connected to the network services.
- **Note:** DTM files used to generate the seafloor for display in the 3D views do not need to be located in the SyncFolder in order to be distributed. The DTM is distributed when it is loaded from Database Services by any NavView client connected to the network services when using SQL Server (not SQL localDB).

4.2.4 Shared > Visuals Folder

- 2D Background
 - Recommended location for all files to be used for displaying background information in Map views, e.g., *.dwg, *.geoTIFF
- 3D Seafloor
 - Recommended location for DTM files to be loaded in NavView to display the seafloor in 3D views
- GIS
 - Recommended location for ESRI SHP files to be loaded for displaying background information in Map views
- Objects
 - 2D Outlines
 - Original recommended location for files to be used for vehicle outlines, 2D visuals for waypoints, etc.
- **Note:** Pre v3.6, vehicle outlines were distributed as geometries with the vehicle configuration to other NavView clients connected to the network services. From v3.6 onwards, only the file name and path is distributed with the vehicle configuration, therefore in order for other NavView clients to display vehicle outlines they must have a copy of the respective file in the same path. This can be achieved automatically by moving/copying this folder to the SyncFolder.
 - 3D Models
 - Original recommended location for files to be used for vehicle shapes, 3D visuals for waypoints, etc.
 - As with the 2D Outlines folder, the user should consider moving/copying this folder to the SyncFolder.

4.2.5 Shared > Working Folder

 Contains local copies of data pertaining to specific NavVIew operations and modules, e.g., AnchorConfig.xml when using the Anchor Management module.

4.3 Create a New Project

Projects are created using the New Project wizard. This steps the user through creating the project and configuring the critical component (Geodesy) after which the user can work through the remaining configuration process by directly accessing the respective configuration dialogs and windows. These will generally be Devices, Calculations and Vehicles in this order to setup how incoming data will be used. This will be followed by opening and configuring views to monitor operation and present the data in a way to accomplish the goals of the project, e.g., 2D views, 3D views, route guidance, etc.

- **Note:** If Roles are enabled, only a user with Supervisor or Administrator privileges can create a new project.
- 1. Launch the New Project wizard by expanding the File menu and clicking on New; or
- 2. From the No Project Loaded Dialog, click on New.
- 3. Enter the name of the new project. This should be descriptive but not long. Note that the wizard will not let you use the name of an existing project. Click Next.

| New Project | _ | | × |
|--|--------|------|----|
| Project Name | | | |
| | | | |
| Folder: C:\Users\Public\Documents\4D Nav\NavView | | | |
| New project name: New Project | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Cancel < Back | Next > | Fini | sh |

Figure 4-2 Project Wizard - Project Name Page

- 4. Configure the Horizontal CRS (see Geodesy section for details)
- **Note:** When creating a new project on a NavView remote that will connect to an existing project on the MongoDB and Redis services, i.e., the Horizontal CRS(s) and transformation(s) have already been setup and configured on the online licensed NavView, **do not** make any changes on this page, just click Next. This remote will get the configuration from the server when it is connected to the network services.

\min Open

New

Import

Save as



| 🔮 Ne | w Project | | | | – 🗆 X |
|------|-----------------------------|--------|---------------|------------|--|
| Hor | izontal CRS | | | | |
| | | | | | |
| | | | C:\ProgramDat | a∖4D Nav∖G | eodesy\EPSG\EPSG-v9_9.sdf |
| H | orizontal CRS Transforma | ations | | | |
| | Coordinate Reference System | 15 —— | | | Details Test |
| | Name | Code | Kind | Working | Summary |
| | WGS 84 | 4326 | geographic 2D | No | WGS 84 is a geographic 2D CRS last revised on 27- |
| | WGS 84 / World Mercator | 3395 | projected | Yes | Aug-2007 and is suitable for use in World. WGS 84 uses the World Geodetic System 1984 as its datum. |
| | | | | | WGS 84 is based on geographic 3D WGS 84. WGS 84 is a CRS for Horizontal component of 3D system. |
| | | | | | Used by the GPS satellite navigation system and for |
| | | | | | NATO military geodetic surveying. It was defined by information from OGP. |
| | | | | | |
| | Add Ren | | Set Working | User | Name: WGS 84 Code: 4326 |
| | Add Ref | | Sec working | User | |
| | | | | | |
| | | | | | Cancel < Back Next > Finish |

Figure 4-3 Project Wizard - Horizontal CRS Page

- a. If the default working Horizontal CRS is the desired CRS and no other CRS are to be added click Next, otherwise click Add to select a CRS from the EPSG database or User to add a user defined CRS.
 - i. Upon adding a CRS, you will be asked if you wish to
 - A. Set the newly added CRS to working, click Yes or No accordingly
 - B. Configure datum transforms for the new CRS, click Yes or No accordingly
 - C. Repeat step (a.) as required for the Horizontal CRS required for the project
- b. Click Next
- 5. Configure the Vertical CRS (see Geodesy section for details) and click Next.
- **Note:** When creating a new project on a NavView remote that will connect to an existing project on the MongoDB and Redis services, i.e., the Vertical CRS has already been configured on the online licensed NavView, **do not** make any changes on this page, just click Next. This remote will get the configuration from the server when it is connected to the network services.

| Vertical CRS Vertical |
|---|
| Vertical CRS Transformations Coordinate Reference Systems Details Test MSL height 57/14 vertical No MSL height (ftt) 33000 vertical No MSL height (ftt) 33001 vertical No Details Test Summary MSL height (ftt) Structure MSL height (ftt) 33001 vertical No Structure Structure Details Test No Structure MSL height ft a vertical CRS last revised on 2012-08-10 and structure Structure Structure Structure Structure No Structure |
| Coordinate Reference Systems Name Code Kind Working MSL height 5714 Vertical Yes MSL height (ft) 33000 vertical No MSL height (ft) 33001 vertical No MSL height (ft) 33001 vertical No |
| Coordinate Reference Systems Name Code Kind Working MSL height 5714 Vertical Yes MSL height (ft) 33000 vertical No |
| Coordinate Reference Systems Name Code Kind Working MSL height 5714 Vertical Yes MSL height (ft) 33000 vertical No MSL height (ft) 33001 vertical No MSL height (ft) 33001 vertical No |
| Name Code Kind Working MSL height 5714 vertical Yes MSL height 5714 vertical Yes MSL height 33000 vertical No MSL height 100 Users Summary vertical No Users Summary Details - Details - Details Name: MSL height Code: 5714 |
| MSL height 5714 vertical Yes MSL height (ff) 33000 vertical No MSL height (ftUS) 33001 vertical No MSL height (ftUS) 33001 vertical No Level as its datum Kib Height is a vertical CRS last revised on 2012-08-10 and is suitable for rus in World MSL height uses the Mean Sea Level as its datum Kib Height is a Vertical CRS for Hydrography: It was defined by information from OGP. Details Name: MSL height Code: 5714 |
| MSL height 5714 vertical Yes MSL height (ft) 33000 vertical No MSL height (ftUS) 33001 vertical No MSL height (ftUS) 33001 vertical No Details No No No |
| MSL height (fft) 33000 vertical No MSL height (fftUS) 33001 vertical No Is sitiable for use in World, MSL height uses the Muse Sea Leave and the Muse Sea Vertical No Is sitiable for use in World, MSL height uses the Muse Sea Vertical No Is sitiable for use in World, MSL height uses the Muse Sea Vertical No Is sitiable for use in World, MSL height uses the Muse Sea Vertical Name: MSL height Code: 5714 |
| was defined by information from OCP. |
| Name: MSL height Code: 5714 |
| |
| Type: vertical |
| and the second |
| Area: World |
| Add Remove Set Working User Coordinate Vertical CS. Avis: height (H). Orientation: up. Uo 👻 |
| |
| Cancel < Back Next > Finish |

Figure 4-4 Project Wizard - Vertical CRS Page

6. Edit the Project Configuration (see Configuration for details) and click Next.



| 🔮 New Project | | - 🗆 X | 🔮 New Project | | | _ | | × |
|---------------------------|-----------------------|-----------------------|--------------------------------|--------|--------|--------|------|----|
| Project Configuration | | | Project Configuration | | | | | |
| | | | | | | | | |
| Project Id | | | Southern Most Latitude | -90 | | | | * |
| Start Date | Tuesday, June 4, 2024 | 15 | Northern Most Latitude | 90 | | | | |
| End Date | Select a date | 15 | Client Name | | | | | |
| Survey General Type | | | Positioning Contractor | | | | | |
| Survey Layout Description | | | Geophysical Contractor | | | | | |
| Survey Location | | | Position Processing Contractor | | | | | |
| Survey Countries | Select countries | - | Created By | | | | | |
| Western Most Longitude | -180 | | Checked By | | | | | |
| Eastern Most Longitude | 180 | | Approved By | | | | | |
| Southern Most Latitude | -90 | | Vessel Name | | | | | |
| Northern Most Latitude | 90 | | Company Logo: | | | | | ÷ |
| | | | | | | | | |
| | Cancel < Back Nex | «t > Finish | | Cancel | < Back | Next > | Fini | sh |

Figure 4-5 Project Wizard - Project Configuration Page

7. Configure the Preferences for the units and format used to display data in NavView (see Preferences for details) and click Next.

| 🧶 New Project | New Project - C X | | | | | | | | | | |
|---------------|-------------------|---------|--------------------------|-----------|--------|---|---------|---------------|--------|-----|--|
| Preferences | | | | | | | | | | | |
| | | | | | | | | | | | |
| Units of Meas | sure ——— | | Display Format | | | | Other - | | | | |
| Distance: | Me | tre v | Distance: | #,##0.00 | 0 u | | Text Vi | ew Stale Age: | 15.0 s | | |
| Depth: | Me | tre v | Depth: | #,##0.00 | 0 u | • | | | | | |
| Speed: | kno | ot 🛛 👻 | Speed: | #,##0.00 | 0 u | • | | | | | |
| Sound Veloc | ity: m/s | s * | Linear Acceleration: | #,##0.00 | 0 u | • | | | | | |
| Force: | kN | | Angular Velocity: | #,##0.00 | 0 u | • | | | | | |
| Pressure: | psi | • | Angular Acceleration: | #,##0.00 | 0000 u | • | | | | | |
| Density: | kg/ | ′m3 * | Angle: | d.ddd° | | • | | | | | |
| Torque: | kN. | .m * | Pressure: | #,##0.00 | 0 u | • | | | | | |
| Linear Accele | eration: m/s | s2 × | Density: | #,##0.00 | 0 u | • | | | | | |
| Angular Velo | city: °/s | | Geographic | i d° mm.r | mmmm' | • | | | | | |
| Angular Acce | eleration: % | 2 * | Coordinate Entry Format: | Grid | | • | | | | | |
| Temperature | dec | уС т | Time Format: | HH:mm:s | is.f | * | | | | | |
| Conductivity | Sm | • | Date Format: | M/d/yyyy | 4 | * | | | | | |
| | | | UTC/Local Time: | UTC | | * | | | | | |
| | | | | | | | | | | | |
| | | | | | Cancel | | < Back | Next > | Fin | ish | |

Figure 4-6 Project Wizard - Preferences Page

8. Specify the station to implement during the new project creation.



| New Project × | |
|---|---|
| Station Name | Station Name |
| | |
| Create new station Station | O Create new station Station |
| Is Active Station | Is Active Station |
| O Import existing station Folder: C\Users\Public\Documents\4D Nav\NavView | Import existing station Folder: CAUsers/Public/Documents/4D Nav/Nav/New |
| Project: Default | Project: Default ~ |
| Station: Default | Station: Default / * |
| | |
| | |
| | |
| | |
| | |
| | |
| Cancel < Back Next > Finish | Cancel < Back Next > Finish |

Figure 4-7 Project Wizard - Station Name Page

- a. If a new station is to be created
 - i. Select Create new station
 - ii. Enter the name to use
 - iii. Specify if new station is active or not by checking or unchecking the Is Station Active box. If a station is set Active any outputs it is configured for, e.g., configurable output for a video overlay system will be enabled for output. If a station is not set as Active outputs are not enabled
- b. If an existing station is to be used
 - i. Select Import existing station
 - ii. From the **Project** drop-down list, select the existing NavView project that the station to import is part of
 - iii. From the **Station** drop-down list, select the existing NavView station from those present in the selected project to import
 - iv. Specify if station is to be active or not by checking or unchecking the **Is Active Station** box in the Project Configuration window
- **Note:** The option to import an existing station into a new project facilitates the reuse of one that has already been configured and will be used in the new project in the same or very similar configuration. For example, on a permanent NavView installation on a construction vessel the configuration for the online survey station will generally be unchanged for the most part from one project to the next. This station will usually include the configuration for the devices interfaced with, vehicle configurations, etc. The option to import it from an existing project into the new project streamlines the setup process from project to project without introducing the issue of GUID conflicts created if the folder is simply copied in Windows Explorer and loaded.

Note: Geodetics, Waypoints, Survey Lines, Pipelines, Backgrounds, Databases not imported.

- 9. If modules and features are present that require specific project configuration, e.g., Anchor Module, the respective wizard pages will display after the Station page. Complete these and continue with the wizard.
- 10. Click Finish to complete the creation of the new project and base configuration. NavView will create the project folder and specific base sub-folders shown in Figure 4-8 under



Public Documents\4D Nav\NavView\ and then be ready to proceed with the rest of the configuration.

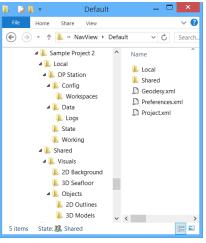


Figure 4-8 Project Folders Created

- 11. (Optional) Upon completing the new project wizard and prior to proceeding with the configuration of the project, supporting files should be copied into the respective folders, e.g., dwg files to be used as backgrounds for 2D views into Shared\Visuals\2D background, dwg/veh/shp files to be used for vehicle outlines into Shared\Visuals\Objects\2D Outlines, and 3DS model files into Shared\Visuals\Objects\3D Models. This are then available during the configuration process.
- 12. Proceed to access the individual configuration dialogs and windows to continue the configuration.

4.4 Open an Existing Project

The user has the option to open an existing project and station or create a new station in an existing project. This facilitates opening a previously setup station and project (e.g., opening a station and project in the field after setting it up in the office) and setting up client NavView systems in a multi-NavView spread (e.g., online secondary, DP and ROV stations on a construction vessel).

- **Note:** If Roles are enabled, only a user with Online/Supervisor or Administrator privileges can create a new station.
- 1. Launch Open Project wizard by expanding the File menu and clicking on Open; or
- 2. From the No Project Loaded Dialog, click Open.
- 3. Select the project from the drop-down list and click Next.





| Open Project | | | - | | \times |
|----------------|-------------------|--------------|-------------|----|----------|
| Select Project | | | | | |
| Folder: | C:\Users\Public\[| Documents\4D | Nav\NavView | | |
| Project name: | Remote Demo | | * | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | Cancel | < Back | Next > | Fi | nish |

Figure 4-9 Open Project Wizard - Select Project Page

4. Specify the station to use for the project.

| Open Project | - | | \times | Q Open Project − □ × |
|----------------------------------|---|-----|----------|----------------------------------|
| Select Station | | | | Select Station |
| | | | | |
| • Existing Station • New Station | | | | O Existing Station O New Station |
| Station name: Station1 💌 | | | | New station name: Online |
| Override Active Station setting | | | | ✓ Is Active Station |
| Is Active Station | | | | |
| | | | | |
| Cancel < Back | | Fin | ish | Cancel < Back Next > Finish |

Figure 4-10 Open Project Wizard – Select Station Page

- a. If an existing station in the project is to be used
 - i. Select Existing Station
 - ii. Select the station from drop-down list of those present in the project being opened
 - iii. Specify if the existing station's Active Station setting is to be overridden by checking or unchecking the **Override Active Station** setting box
 - iv. If overriding the existing station's Active Station setting, specify if station is to be active or not by checking or unchecking the **Is Active Station** box
- b. If creating a new station in the project

i. Select New Station

- ii. Enter the new station name
- iii. Specify if new station is Active or not by checking or unchecking the **Is Station** Active box
- c. Click Finish

4.5 Launch a Project on Start Up

When NavView is launched it loads the last project and station it was configured for when it was exited. This information is contained in the file C:\Program Data\4D

Nav\NavView\Settings.xml. If this file has been deleted or if either the specified project or station folder cannot be located, the operator is prompted to open an existing project or create a new one via the prompt shown is Figure 4-11.



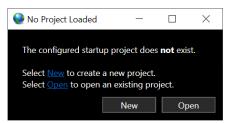


Figure 4-11 No Project Loaded Dialog

- New: Launches the new project wizard
- Open: Launches the open project wizard
- **X:** Closes the dialog but does not close the application. A project may still be opened or created from the main menu

4.6 Launch a Project From the Command Line

NavView can be launched into a specific project and station from the command line or from a *.bat file using the following format

[Path]\NavView.exe "ProjectName" /s:"StationName"

For example, using the desktop link to NavView to open the NavView project **Project** and the station **Station**:

"C:\Users\Public\Desktop\NavView.lnk" "C:\Users\Public\Documents\4D Nav\NavView\Project" /s:"Station"

4.7 Import a Station

NavView supports the option to import a previously created station simplifying their reuse for multiple projects. This can be useful when creating a project in the office for deployment in the field that involves multiple stations that do not change between projects. For example, an Anchor project can often re-use stations for the rig and each anchor tug.

Note: If Roles are enabled, only a user with Administrator privileges can import a station.

Note: Geodetics, Waypoints, Survey Lines, Pipelines, Backgrounds, Databases not Imported.

- 1. Access the Import Station by expanding the File menu and clicking on Import.
- 2. **Project**: Select the existing NavView project that contains the station to be imported.

| 🔮 Import S | Station | _ | | \times | | | | | | |
|----------------|-----------------------------|------------|------|----------|--|--|--|--|--|--|
| Import Station | | | | | | | | | | |
| Folder: | C:\Users\Public\Documents\4 | 4D Nav∖Nav | View | | | | | | | |
| Project: | Project | | * | | | | | | | |
| Station: | Station | | • | | | | | | | |
| | | Import | Can | cel | | | | | | |





4D Nav, LLC NavView User Guide – 04 Projects Document: 4DN_NVUG_S04_01A Release: 01 Revision: A 4D NAV

- 3. **Station**: Select the station to import from those present in the selected project. a. Click **Import.**
- 4. If the station already exists in the project, you will be asked if you want to overwrite the station, answer Yes to overwrite the station or No to abort the import process and return to the Import Station dialog
- 5. If the import is successful, you will be prompted to open the new (imported) project station, answer Yes to switch to the new station or No to remain with the current station and return to the Import Station dialog.
- 6. Click Cancel or X to close the dialog.

4.8 Edit a Project

Editing the project in this case refers to accessing and editing the configuration that was setup as part of the new project wizard. These are as follows.

4.8.1 Geodesy

This is accessed by clicking the Horizontal CRS and/or Vertical CRS buttons in the Project section of the Setup ribbon, or alternatively clicking on the same in the Explorer window. See the Geodesy section for details.

Note: If Roles are enabled, only users with Supervisor or Administrator privileges can edit the Geodesy. Others can view the settings but not change them.

4.8.2 Project Configuration

This is accessed by clicking the Configuration button in the Project section of the Setup ribbon, or alternatively clicking on the same in the Explorer window. This provides access to the Project Configuration page. This page has the Config Preferences and Environmental Parameters Tabs. These configurations are discussed in detail here.

Note: All users can edit the project configurations.

Any changes to any tabbed or non-tabbed options will activate the Apply button. Clicking the Apply button applies all the changes regardless of the tab displayed at the time and leave the window open.

Clicking the OK button applies all the changes regardless of the tab displayed at the time and closes the window.

4.8.3 Active Station

Above all the tabs, the checkbox **Active Station** provides the option to control if the station is to be active (outputs are enabled) or not active (outputs are disabled).

4.8.4 Configuration Tab

The Config tab enables the user to enter general project information to assist project management and tracking.



| 🥘 New Project | | — | | New Project | | | _ | | \times |
|---------------------------|-----------------------|--------|--------|--------------------------------|--------|--------|--------|------|----------|
| Project Configuration | | | | Project Configuration | | | | | |
| | | | | | | | | | |
| Project Id | | | Â | Southern Most Latitude | -90 | | | | * |
| Start Date | Tuesday, June 4, 2024 | 15 | | Northern Most Latitude | 90 | | | | |
| End Date | Select a date | 15 | | Client Name | | | | | |
| Survey General Type | | | | Positioning Contractor | | | | | |
| Survey Layout Description | | | | Geophysical Contractor | | | | | _ |
| Survey Location | | | | Position Processing Contractor | | | | | |
| Survey Countries | Select countries | × • | _ | Created By | | | | | |
| Western Most Longitude | -180 | | | Checked By | | | | | |
| Eastern Most Longitude | 180 | | | Approved By | | | | | |
| Southern Most Latitude | -90 | | | Vessel Name | | | | | |
| Northern Most Latitude | 90 | | ¥ | Company Logo: | | | | | Ť |
| | | | | | | | | | |
| | Cancel < Back | Next > | Finish | | Cancel | < Back | Next > | Fini | sh |

Figure 4-13 Project Configuration - Config Tab

4.8.5 Preferences

The Preferences configuration enables the user to configure the default units and format for the presentation and entry of data in windows, dialogs and reports. In the case that window/report specific control of the units and/or formats is supported, the default are those set in Preferences.

| 0 | New Project | | | | | — | | × |
|---|-----------------------|------------|--------------------------|-------------------|----------|---------------|--------|-----|
| P | references | | | | | | | |
| | | | | | | | | |
| r | Units of Measure —— | | Display Format ——— | Other - | | | | |
| | Distance: | Metre 👻 | Distance: | #,##0.000 u | Text Vie | ew Stale Age: | 15.0 s | |
| | Depth: | Metre 🛛 👻 | Depth: | #,##0.000 u | ·] | | | |
| | Speed: | knot 🛛 👻 | Speed: | #,##0.000 u | ·] | | | |
| | Sound Velocity: | m/s * | Linear Acceleration: | #,##0.000 u | ·] | | | |
| | Force: | kN × | Angular Velocity: | #,##0.000 u | ·] | | | |
| | Pressure: | psi 🛛 🗸 | Angular Acceleration: | #,##0.000000 u | ·] | | | |
| | Density: | kg/m3 🛛 👻 | Angle: | d.ddd° – | ·] | | | |
| | Torque: | kN.m 🛛 👻 | Pressure: | #,##0.000 u | ·] | | | |
| | Linear Acceleration: | m/s2 × | Density: | #,##0.000 u | ·] | | | |
| | Angular Velocity: | °/s • | Geographic | i d° mm.mmmm' 🛛 👻 | ·] | | | |
| | Angular Acceleration: | °/s2 × | Coordinate Entry Format: | Grid | ·] | | | |
| | Temperature | degC 🛛 🗸 👻 | Time Format: | HH:mm:ss.f | ·] | | | |
| | Conductivity | Sm 🛛 | Date Format: | M/d/yyyy - | ·] | | | |
| | | | UTC/Local Time: | UTC I 🗸 | ·] | | | |
| | | | | | | | | |
| | | | | Cancel | < Back | Next > | Fin | ish |

Figure 4-14 Project Configuration - Preferences Tab



4.8.6 Units of Measure

Select the units to be used when displaying data. These settings will also dictate the units assumed when data is loaded or entered without a unit designation. If units are included in any data loading and entry process, the data is loaded and accepted in those units.

4.8.7 Display Format

Select the format to be used to display the respective data. In general, the following apply to these settings:

- Options are presented in a drop-down list
- The number of decimal places to display is indicated by the number of the respective format type after the decimal place
 - For distances, depths, speed and density the number 0's
 - For angles the number of d's if the format is to be degrees and decimal degrees, m's if the format is to be degrees minutes and decimal of minutes, etc.
- For time the number of f's following the seconds (ss) for decimal seconds
- The use of a delimiter between thousands and hundreds is indicated by creating the digit spaces to the left of the 1s with '#'
- The presence of a unit term is indicated by the presence of a 'u'
- The location of the hemisphere term is indicated by the location of the 'l' for geographic coordinates

4.8.8 Other

Options applicable to the general operation of NavView are presented her.

- Text View Stale Age
 - Enter the age at which any data displayed in a Text view is presented with strike through indicating it is old

4.9 Project – Save As

Save As is used to save the current NavView project to a New project folder.

Note: Waypoints, Survey Lines, Pipelines, Backgrounds, Databases not copied over to new project folder.



- **Note:** If Roles are enabled, only a user with Online/Supervisor or Administrator privileges can access Save As.
- In the directory containing stored projects, i.e.
 C:\Users\Public\Documents\4D Nav\NavView add a new folder with the new project name.
- 2. Select Save As in the file menu.
- 3. Navigate to the new folder and select.
- 4. Select Open in the NavView file menu and select the new project to load into NavView.

