



LiNX Access iOS GBK54034 Issue 9 Jul 2021

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Welcome

1.1 About the LiNX Access iOS tool

Welcome to the user manual for the LiNX Access iOS tool.

The LiNX Access iOS tool is an application for Apple's iPhone, iPad and iPod touch.

It is used to:

- configure Dynamic Controls' range of LiNX wheelchair controllers
- view real-time and historical diagnostic information.

1.2 Using this manual

This manual will help you to understand, install, and use the LiNX Access iOS tool.

This manual uses the following information boxes to convey important and useful information:



Warnings provide important information that must be followed in order to install, configure and use the product safely and efficiently. Not following the instructions given in a warning can potentially lead to equipment failure, damage to surrounding property, injury or death.

🕖 Note

Notes provide supporting information in order to install, configure, and use the product. Not following the instructions given in notes or precautions can lead to equipment failure.

🚺 See also

The "See also" box provides cross-references to help you navigate the installation manual more easily.

1.3 Important information

Due to a policy of continuous product improvement, Dynamic Controls reserves the right to update this product and manual without notice. This issue of the manual supersedes all previous issues. Previous issues must no longer be used.

The latest version of this manual can be downloaded from Dynamic Controls' website at *www.dynamiccontrols.com*

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1.5 Personal data you collect and process

The App permits you to download information to your mobile device, such as the serial number and technical product data (battery levels, usage patterns, error codes, seat angle patterns, motor characteristics, and run time for example) of a product connected to the App, and to save that data on your mobile device as a file ("Configuration File"). Although the App does not collect any information about the product end user's health, the end users use of the product together with the Configuration File may reveal the fact, or be an indication, that the end user has a particular health condition, which may be considered sensitive information ("Sensitive Information"). The Configuration File and the Sensitive Information (individually and collectively the "End User Data") may be the Personal data of the product end user. You are the controller (as defined under the General Data Protection Regulation ("GDPR")) of the End User Data and it is your responsibility to provide required privacy notices and obtain any required consent of the end user prior to Processing the End User Data.

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- "Personal data" means any information relating to an identified or identifiable natural person ('data subject'), directly or indirectly, in particular by reference to an identification number or some other factor specific to the person's identity. Examples of personal data are your name or contact details or information about your usage of your product.
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- 4. See Article 6(1)(f) of the GDPR (necessity for purposes of legitimate interests).

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1.7 Glossary

Α

Access Key

A Bluetooth adaptor that plugs into the XLR connector of the Remote module and connects the Remote module to the LiNX Access Tool on your iOS device.

В

Bluetooth

A commonly used, short-range, wireless technology. Bluetooth is used between the LiNX Access Key and an iOS device to transmit programs and diagnostic information with the LiNX Access Tool.

Bulk edit

A feature that writes all parameters to the LiNX system when the user selects Write to Chair. (Compare with Live edit.)

С

Connection - Bluetooth

The process of linking two Bluetooth devices together each time they are within range of each other and data is about to be exchanged between them. This process occurs after the devices have paired. (See Pairing - Bluetooth.)

I

iOS

Operating system used by portable Apple devices such as iPhone, iPad, and iPod touch.

L_____

Live edit

A feature that writes parameter changes to the LiNX system immediately as they are entered. (Compare with Bulk edit.)

0

OEM

Original Equipment Manufacturer.



Ρ

Pairing - Bluetooth

Pairing is the process of establishing a connection between two Bluetooth devices (e.g. a LiNX Access Key and an iPhone or a PC) for the FIRST time. (Compare with Connection - Bluetooth).

R

Remote module

The physical device that controls the operation of the wheelchair.

Χ

XLR connector

A connector (industry standard) used with the LiNX system primarily for connecting to the battery charger. It is also used for attaching the LiNX Access Key, a Bluetooth device used to communicate with the LiNX Access tools.

2 Overview

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Overview



2.1 What it does

The LiNX Access iOS tool connects wirelessly to a LiNX wheelchair controller to read and write control configurations, and view diagnostic information.



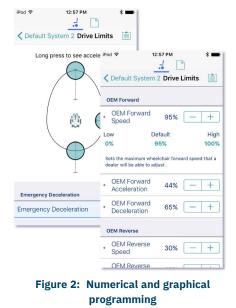
Figure 1: The LiNX Access iOS tool

👔 See also

Visit the Dynamic Controls website for more information on the LiNX product range and the LiNX Access Key: www.dynamiccontrols.com

2.2 Features

- Move easily between wheelchair and files
- Instant wireless configuration (live edit) and diagnostics
- Numeric, graphic and text parameter input
- Intuitive, user-friendly interface
- 10 m working range



2.3 Version information

2.3.1 The LiNX Access iOS tool

This manual has been written for the LiNX Access iOS tool, version 6.0 and later. For information regarding previously released versions, please see the downloads section on the Dynamic Controls website: *www.dynamiccontrols.com*

2.3.2 The LiNX System

The LiNX Access iOS tool supports all versions of the LiNX family of wheelchair controllers.



Warning

Performance adjustments must only be made by healthcare professionals or by persons who completely understand the adjustment process and the capabilities of the wheelchair user.

Before upgrading the firmware of the system, or a module in the system, always ensure that the battery charge level is sufficient and the park brakes are not manually or electronically released.

Incorrect settings, or programming in a location that is not safe, can cause injury to the user and bystanders, or damage to the wheelchair and surrounding property.

After you have configured the wheelchair, check to make sure that it performs to the specifications entered in the programming procedure. If the wheelchair does not perform to specifications, reprogram it. Repeat this procedure until the wheelchair performs to specifications. If the wanted operation cannot be reached, contact your service agent.

Ensure that the deceleration parameters are always higher than the acceleration parameters for a safe response. It is the responsibility of the health care professional to make sure that the user is capable of both cognitively understanding and physically operating the programmed features and functions.

With inappropriate programming settings, certain features and options may not be accessible or perform as expected.

Where any inconsistencies about chair status occur between the LiNX System and that reported by a programming tool, the user should take the status as reported by the LiNX System as correct.

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3 Set-up

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Set-up



3.1 System requirements

To use the LiNX Access iOS tool, you need:

- a LiNX wheelchair control system
- a LiNX Access Key
- an Apple iPhone, iPad or iPod touch (using iOS 11.0 or higher)
- the LiNX Access iOS application

3.2 Install the application

The LiNX Access iOS tool is a free application available from the Apple App Store. Search for 'LiNX Access'.

If your iOS device does not have the application installed, you will be prompted to install it when you attempt to pair with a LiNX Access Key for the first time.

3.3 Connect the application to a wheelchair

To connect the LiNX Access iOS tool to a wheelchair, see *Connect and disconnect to the LiNX Access tool.*

3.4 Application update notifications

All updates to the application are automatically notified on your iOS device (if this feature has not been disabled). This feature requires an Internet connection.

3.5 The LiNX Access Key (LAK)

A LiNX Access Key (LAK) is required for the LiNX Access iOS tool to communicate via Bluetooth with a LiNX system.

Figure 3: LiNX Access Keys

The LAK is inserted into a remote module's XLR socket. (See *Figure 4*.)

3.5.1 LAK versions

Two versions of the LiNX Access Key are supplied. The version determines the access you have to programming functions.

The two versions are:

- **Distributors**: Providers, dealers, therapists and wheelchair service agents (DLX-HKEY01-A)
- Manufacturers: OEMs and certain service agents (DLX-HKEY02-A)



3.5.2 LAK firmware

The LiNX Access Key's firmware must be version 4.0 or higher to support the features of the LiNX Access iOS tool.

Information on how to upgrade the firmware is at 6.3.6 Upgrade the firmware.

3.5.3 How to insert the LAK

Insert the LAK into a remote module's XLR socket — see *Figure 4*. The XLR socket's location depends on the remote module.







REM1xx/2xx



REM400

Figure 4: Inserting the LiNX Access Key

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4 Concepts and interface

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Concepts and interface



The LiNX Access iOS tool allows you to program, diagnose and analyse LiNX systems.

This chapter gives an overview of the tool and how to use it.

- For information on how to find your way around the tool, see section 5 Navigation.
- For information on how to perform particular tasks, see section 6 How to

4.1 Programming contexts

The LiNX Access iOS tool has two programming contexts:

- **Connection context**: access and program a system directly while connected to the LiNX system on a wheelchair
- File context: access and edit a program stored as a file on your device

4.1.1 Viewing the contexts

You can view the contexts by toggling between them on the context switch on the navigation bar. (See *6.2 Select the context.*)

4.2 Editing modes

Programs can be modified in one of two modes, which define when parameters are written to the wheelchair:

- live edit
- bulk edit

4.2.1 Live edit

| Live edit mode is available in the | Parameters with this symbol | OEM Forward | |
|---------------------------------------|-----------------------------------|--------------------------------------|---------|
| connection context only – that is, | can be edited in live update mode | OEM For- Ward Speed | 95% — + |
| when connected to a wheelchair. | | OEM For- • ward Accel- eration | 30% - + |
| Live edit writes parameter | | OEM For- | |
| changes immediately to the | Figure 5: Live ed | it mode indicat | or |
| wheelchair as you enter them. | | | |
| This is useful for quickly setting up | | | |

Not all parameters can be updated in live edit mode. Parameters that can be updated in live edit are identified by a circular icon to the left of the parameter name (see *Figure 5*).

🛕 Warning

or testing.

When in live edit mode, changes to parameters take immediate effect, changing the performance of the wheelchair immediately.

🛕 Warning

There is no function to undo a change in live edit mode. Before editing, save a copy of the program to use to restore settings, if required.





4.2.2 Bulk edit

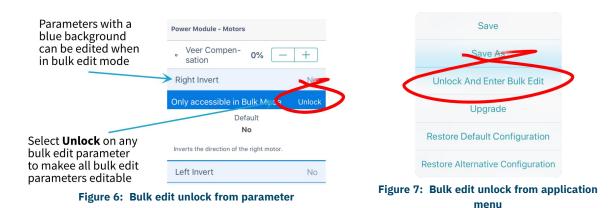
Bulk edit parameters are available in connection context and file context.

In bulk edit, all parameters are editable but none are written to the wheelchair immediately. They are written to the wheelchair when the Write function is selected.

In connection context, bulk edit parameters are identified by a blue background and must be unlocked to be editable. In file context, all parameters are bulk edit parameters.

4.2.2.1 Connection context

You can unlock bulk edit by opening any bulk edit parameter and tapping **Unlock** – *Figure* 6. Alternatively, you can tap on the Application Menu button (top-right hand corner) and select **Unlock And Enter Bulk Edit** – *Figure 7*. When unlocked, the editing mode switches from live edit to bulk edit, and all parameters are editable.





After unlocking bulk edit, the bulk edit icon and read and write options appear at the bottom of the screen.

- **Read** power-cycles the system and returns you to live edit, if your program is in sync with the wheelchair. Any edits you have made will be lost.
- Write writes your edits to the wheelchair, power-cycles the system and returns you to live edit.

4.2.2.2 File context

In file context, the read and write functions are available only if a wheelchair is connected to the system. To connect a wheelchair, open a connection in connection context and return to file context to edit the file.

🚺 Note

By default, live edit mode is enabled every time the system is powered up, including after a power cycle. The application remains in live edit mode until bulk edit mode is unlocked. At that point, the application changes to bulk edit mode and live edit mode is disabled. The application then remains in bulk edit until the system is written to and power-cycled.



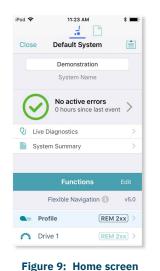
4.3 The interface

Find out here about the:

- Home screen
- Parameter editing screens
- Diagnostic screens
- Utility screens
- Navigation bar
- Application menu

4.3.1 Home screen

The Home screen is the default screen after connecting to a wheelchair or opening a configuration file. It provides general information about the system as well as access to the tool's programming and diagnostic screens.



🖊 Note

The **Program Name** and **System Name** are located at the top of the **Home** screen. If they are not visible, you can reveal them by swiping down on the Home screen.

🗾 Note

Further information about the home screen, and the screens accessed from it, is in the Navigation section.

4.3.2 Parameter editing screens

Edit a wheelchair's operational parameters from the parameter groups on the **Home** screen. Parameter groups include:

- Profiles / Functions
- Modules
- Actuator motions
- Trigger angles
- User preferences
- Core features *
- Drive limits *
- Gyro limits *
- Lighting

* Manufacturer only

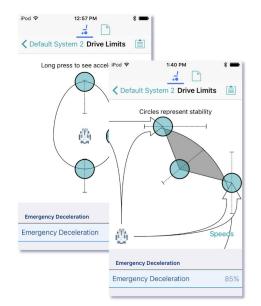


Figure 10: Drive limit speed and stability parameter editing screens





4.3.2.1 Editing a parameter

There are several ways to edit a parameter:

- Change numerical parameters with the +/- buttons, or the low, high or default buttons
- Change non-numerical parameters (yes/no, on/off, etc) with a slide control
- Change the text in the name of a parameter
- Edit some parameters with graphical input tools

For details on how to edit parameters, see 6.5 Modify parameters.

For details on how to modify profiles and functions, see 6.6 Modify profiles and functions.

Note: Function states

The colour of a function icon indicates the state of the function.



Function available

Function not available

Function inoperable

4.3.3 Utility screens

Utility screens display only when particular hardware or features are available.

There are four utility screens in LiNX:

- Adaptive load compensation calibration
- Gyro calibration
- Sip and puff calibration
- Joystick shaping calibration

4.3.3.1 Adaptive load compensation calibration

The Adaptive Load Compensation (ALC) calibration utility calculates the motor resistance values to help provide more consistent motor speed.

ALC must be enabled before this utility can be used.

See information about using the ALC calibration at *Tune Adaptive Load Compensation (ALC)*.

4.3.3.2 Gyro calibration

The Gyro calibration utility helps you set up a gyro module.

A gyro module must be fitted and connected to the system before this utility becomes available.

See information about setting up the gyro utility at *Tune the gyro*.





4.3.3.3 Sip and Puff calibration

Sip and puff calibration lets you set up sip and puff thresholds on your input module.

See information about calibrating sip and puff at Sip and puff calibration.

4.3.3.4 Joystick shaping calibration

Joystick shaping lets you reduce the extent the joystick has to be deflected to reach full demand in one or more quadrants.

See information about joystick shaping calibration at Joystick shaping.

4.3.4 Diagnostic screens

Diagnostic screens let you view information about system activity.

View:

- live diagnostics
- the system summary
- the chair log active and previous errors
- chair statistics

4.3.4.1 Live diagnostics – Drive

When connected to a wheelchair, tap **Live Diagnostics | Drive** to view real-time graphs and data:

- Speed Demand (%)
- Turn Demand (%)
- Left Motor
 - Voltage (V)
 - Current (A)
 - Resistance $(m\Omega)$
- Right Motor
 - Voltage (V)
 - Current (A)
 - Resistance (mΩ)
- Battery Voltage (V)
- Speed Dial (%)

Tap **Back** to exit the diagnostics.

| iPod 🗢 | 11:29 AM 🛛 🗱 📥 f | |
|-----------------------------|--------------------|--|
| Back Live Diagnostics Drive | | |
| Speed Demand Turn Demand | | |
| 100% | 100% | |
| -100% | -100% | |
| 0.00% | 0.00% | |
| Left Motor | Right Motor | |
| 32V | 32V | |
| -32V | -32V | |
| -0.00V | -0.02V | |
| 63A | 63A | |
| -63A | -63A | |
| 0.08A | 0.00A | |
| Mot | or Resistance | |
| 20mΩ | 20mΩ | |
| Battery Voltage | 29.90V | |
| Speed Dial | 0.00% | |
| | | |

Figure 11: Real-time diagnostics — drive

4.3.4.2 Live diagnostics – Angle Sensor

When connected to a wheelchair, and if one or more angle sensors are configured and enabled, tap **Live Diagnostics** and then select an angle sensor to view a real-time graph of the selected angle sensor's angle.

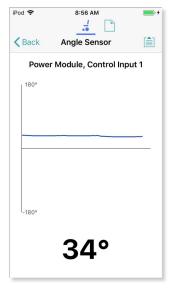


Figure 12: Real-time diagnostics — angle sensor

4.3.4.3 The system summary

Tap **System Summary** to view the System Summary screen.

The System Summary screen displays details of the system's connected modules and tools, such as:

- a connected module's identifier
- a module's software version
- a module's serial number
- the access level of the LiNX Access Key

A link to the Dynamic Controls website is at the bottom of the screen.

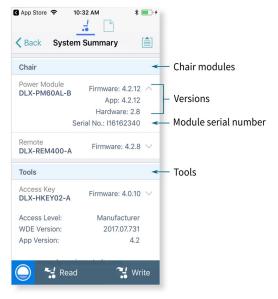


Figure 13: The system summary



4.3.4.4 Active errors

Tap Active Errors to access and view:

- the chair log
- chair statistics



Figure 14: Active error button

View the chair log

Tap Active Errors, then tap Chair Log to display:

- a list of active errors
- a list of previous errors in the event log

Each entry in the log displays the error, its flash code (e.g. FC 3:7), and the component where the error occurred.

Tap an error entry to view further information on the error.

Clear the event log

Scroll to the bottom of the list and tap Clear Event Log.

| iPod 奈 ✔ Default Syste | 3:39 PM | * |
|--|------------|---------|
| Chair Log | Statistics | |
| ACTIVE ERRO | RS | |
| Left motor open DLX-PM60AL-B | circuit | FC 3:7 |
| Right motor ope DLX-PM60AL-B | n circuit | FC 4:7 |
| EVENT LOG | | |
| Left motor open DLX-PM60AL-B 29/01/2020 at 10:20 | | FC 3:7 |
| Right motor ope DLX-PM60AL-B 29/01/2020 at 10:20 | | FC 4:7 |
| System Available | | ered Up |

Figure 15: Viewing the event log

View chair statistics

Tap **Statistics** to view current system statistics.



Figure 16: View chair statistics

The statistics screen is divided into the following sections:

- Battery usage
- Drive statistics



Battery usage

The battery usage statistics are in the top section of the statistics screen.

- To view more information about a battery usage statistic, tap the statistic, and a description displays under it.
- To reset the statistics, click **Reset Battery Usage** at the bottom of the battery usage section.

Available battery usage statistics are detailed in the table below:

| iPod 🗢 | 3:39 PM | | * • * |
|--|------------|------------|-------|
| C Default Syst | em 2 Cha | ir Log | |
| Chair Log | | Statistics | |
| BATTERY US | AGE | | |
| Battery Chargin 0 secs | ıg Time | | |
| Number of Cha 0 | rge Cycles | | |
| Band 1 Indicato 1 wk, 1 day, 8 hrs | r Time | | ■0000 |
| Band 2 Indicato 9 hrs, 41 min, 4 se | | | |
| Band 3 Indicato 36 min, 41 secs | r Time | | |
| Band 4 Indicato 6 days, 14 hrs, 56 | | | •••• |
| Band 5 Indicato | r Time | | |

Figure 17: Reading battery usage

| Battery usage statistics | Details |
|--------------------------------------|--|
| Battery Charging Time | The time that the batteries have been charged for |
| Number of Charge Cycles | The number of times the batteries have been charged |
| Band 1 Indicator Time | The total time the LiNX system is operated with the state of charge between 0 and 20% |
| Band 2 Indicator Time | The total time the LiNX system is operated with the state of charge between 20% and 40% |
| Band 3 Indicator Time | The total time the LiNX system is operated with the state of charge between 40% and 60% |
| Band 4 Indicator Time | The total time the LiNX system is operated with the state of charge between 60% and 80% |
| Band 5 Indicator Time | The total time the LiNX system is operated with the state of charge between 80% and 100% |
| Average Battery Voltage | The average battery voltage over the last 31 days |
| Last Charge Timestamp | The date and time when the batteries were last put on charge |
| Number of High Battery Events | The number of high battery warnings |
| Number of Low Battery Events | The number of low battery warnings |
| Number of Deep Discharge Warnings | The number of deep discharge warnings |
| Battery Usage Last Reset | Date when these statistics were last reset |

Drive statistics

The drive statistics are in the bottom section of the statistics screen, below the battery statistics.

- To view more information about a drive statistic, tap a statistic, and a description displays below it.
- To reset the statistics, click **Reset Drive Statistics** at the bottom of the drive statistics section.

| Drive statistic | Details |
|-------------------------------------|--|
| Average Motor Current | The average current drawn across all motors while driving |
| Maximum Left Motor Current | The peak measured motor current |
| Maximum Left Motor Current Time | Time spent drawing the "Maximum Drive Current Draw" |
| Maximum Right Motor Current | The peak measured motor current |
| Maximum Right Motor Current Time | Time spent drawing the "Maximum Drive Current Draw" |
| Powered Up Time | The total time the wheelchair controller is powered up |
| Drive Time | The total time the wheelchair has been driven |
| Average Drive Time | Average drive time |
| Time Near Maximum Current | The duration the current was within 20% of maximum threshold |
| Trip Distance | The total distance travelled by this wheelchair in meters since being reset by the user. |
| Total Distance Travelled | The total distance travelled by this wheelchair since being reset by a service agent. |
| Drive Statistics Last Reset | Date when these statistics were last reset |

4.3.5 Navigation bar

The navigation bar is at the top of each screen. Its contents change depending on the screen. (See a typical layout in *Figure 18*.)

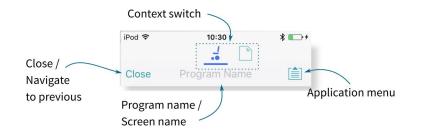


Figure 18: Navigation bar

4.3.6 Application menu

The Application menu contents depend on the selected context:

- Connection context: live and bulk edit
- File context

In the **connection context**, and when connected to a system, the following options are available:

- **Save** save the configuration as a file (.lci)
- **Save As** save the configuration as a file (.lci) with a different name
- Unlock And Enter Bulk Edit unlock all parameters for editing (only shown in live edit)





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- **Read from Chair** read the configuration from the connected LiNX system (only shown in bulk edit)
- Write to Chair write the configuration to the connected LiNX system (only in shown bulk edit)
- **Convert Configuration** convert to a valid configuration (only shown when conversion is possible)
- **Upgrade** go to firmware upgrade mode
- Store Authorisation store an Access Level Certificate (only shown if access level has not been stored)
- **Restore Default Configuration** swap current configuration for the stored default configuration
- **Restore Alternative Configuration** manage configurations (select, add, delete)

In **file context**, the options are:

- Save
- Save As
- Write to Chair (if connected to a LiNX system).
- **Convert Configuration** convert the file to a valid configuration

Warning

The Write to Chair option and the Write button (in Bulk Edit) overwrite the data on the connected LiNX system

| Save |
|-----------------------------------|
| Save As |
| Read from Chair |
| Write to Chair |
| Upgrade |
| Store Authorisation |
| Restore Default Configuration |
| Restore Alternative Configuration |

Figure 20: Application menu – connection context – bulk edit

| Save |
|-----------------------|
| Save As |
| Write to Chair |
| Convert Configuration |

Figure 21: Application menu – file context

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5 Navigation

| 5.1 Overview map | |
|-----------------------------------|----|
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| 5.4 Detail map – modules | 33 |
| 5.5 Detail map – actuator motions | |

Navigation

In this chapter, find out where to access specific parameters and diagnostic information in the LiNX Access iOS tool.

5.1 Overview map

Here are the parameters and diagnostic information accessible from the home screen:

🕖 Note

The parameter groups accessed and displayed by the LINX Access iOS tool vary depending on your LAK's access level (manufacturer or distributor), the system's configuration and the connected modules.

| iPod 🗢 12:19 | PM | Program Name |
|---|-----------------|--|
| Close | | System Name |
| Close | | Active Errors |
| <not s<="" th=""><th></th><th>Live Diagnostics</th></not> | | Live Diagnostics |
| Program | Name | System Summary |
| <not s<="" th=""><th></th><th>Profiles (including Attendant profile, where relevant)</th></not> | | Profiles (including Attendant profile, where relevant) |
| System I | Name | Modules |
| No active | errors | Actuator Motions |
| 97 hours sir | nce last event | Trigger Angles |
| U: Live Diagnostics | > | User Preferences |
| System Summary | > | Core Features * |
| | | Drive Limits * |
| Functi | ions Edit | Gyro Limits * |
| Flexible Navig | gation (i) 6.x | Lighting |
| Profile | REM 2xx > | * Manufacturer only |
| Figure 22: Home | screen overview | |

map

Drill down from these parameters to access further parameters (described below):

- Detail map
- Detail map profiles
- Detail map modules
- Detail map actuator motions



5.2 Detail map

The parameters accessible from the home screen are:

| iPod 🗢 12:19 PM | • | A |
|--|------|----|
| L | | |
| <not set=""></not> | | |
| Program Name | | Li |
| <not set=""></not> | | |
| System Name | | |
| No active errors 0 hours since last event | > | |
| U Live Diagnostics | > | S |
| System Summary | > | |
| Functions | Edit | |
| Flexible Navigation ① | 6.0 | |
| Profile REM 2xx | K) > | |
| Modules | > | Ρ |
| Actuator Motions | > | Μ |
| Trigger Angles | > | A |
| User Preferences | > | Т |
| Core Features | > | U |
| Drive Limits | > | |
| Gyro Limits | > | |
| Lighting | > | |
| First Programmed 28/01/2020 at 3:48 PM DLX-HKEY02-A C14134853 Last Programmed 30/01/2020 at 12:15 PM DLX-HKEY02-A C14134853 | | |
| | | С |
| Figure 23: Home screen detail stitched between Functions and Preferences) | | |
| * Manufacturer only | | D |

| Active errors | Chair Log | Active errors | | |
|--------------------|-------------------------------|------------------------------------|--|--|
| | | Event Log | | |
| | Statistics | Battery Usage | | |
| | | Drive Statistics | | |
| Live Diagnostics | Drive | Speed Demand | | |
| | | Turn Demand | | |
| | | Left Motor | | |
| | | Right Motor | | |
| | | Motor Resistance | | |
| | | Battery Voltage | | |
| | | Speed Dial | | |
| | Angle Sensor | | | |
| System Summary | Chair | System Modules | | |
| | Tools | Access Key | | |
| | | Access Level | | |
| | | WDE Version | | |
| | | Application Version | | |
| | | Link to Dynamic's website | | |
| | | Privacy Policy | | |
| | 0 5 0 D i 11 | | | |
| Profiles/functions | See 5.3 Detail r | nap – profiles | | |
| Modules | See 5.4 Detail r | nap – modules | | |
| Actuator Motions | See 5.5 Detail r | nap – actuator motions | | |
| Trigger Angles | Configurations | Configurations (Trigger Angle 1–7) | | |
| User Preferences | Drive Settings | Drive Settings | | |
| | Switched Drivin | • | | |
| | Sleep and Rest | • | | |
| | Quadrant Actio | ns in Rest | | |
| | Lock Settings | | | |
| | User Function N | ÷ | | |
| | User Function (| - | | |
| | Control Input/C | | | |
| | Display Setting | | | |
| | Energy Use Set | | | |
| | Speedometer a Audible Cues | na Odometer | | |
| | | | | |
| Core Features * | Battery Manage | ement | | |
| | Anti-rollaway | | | |
| | Actuators Firmware | | | |
| | System Configu | iration | | |
| | | | | |
| Drive Limits * | Emergency Dec | celeration | | |
| | Forward | | | |
| | Reverse | | | |

| | Turn |
|---------------|--------------------|
| | Stability |
| | Configuration |
| Gyro Limits * | OEM Forward Gyro |
| | OEM Reverse Gyro |
| | OEM Turn Gyro |
| | OEM Stability Gyro |
| Lighting | Turn Indicators |
| | Position |

5.3 Detail map – profiles

A profile is a container for user functions: drive, seating, mouse mover, utility and switch control. A profile can contain one or more functions. For profiles with multiple functions, the functions can be of the same type, or mixed. LiNX has two types of profile:

- Profile (many can be created)
- Attendant profile (one available, and only on an ACU module)

Wheelchair occupants can see all profiles except the attendant profile, while wheelchair attendants can only see the attendant profile.

5.3.1 Profile

| iPod 훅 | 3: | 36 PM | • | \$ 🕞 + |
|----------|-------------|--------|--------|-------------|
| Close | ~ | | | |
| | Profile | \geq | IN 5 | кх) > |
| Season a | Drive | | (IN 5) | xx > |
| ř | Tilt | | (IN 5) | xx) > |
| | Profile | | REM 4 | xx > |
| Search H | Drive | | REM 4 | xx > |
| ř | Tilt | | REM 4 | xx) > |
| 1 | Mouse Mov | er | REM 4 | xx) > |
| λ, | Attendant P | rofile | ACU 2 | xx > |
| Seasoff. | Drive | | ACU 2 | xx) > |
| ŕ | Tilt | | ACU 2 | <u>xx</u> > |

Figure 24: Profile detail

| Drive | General |
|----------------|-------------------------------|
| | Forward |
| | Reverse |
| | Turn |
| | Stability |
| | Latched Driving |
| | Performance |
| | Operation |
| Seating | General |
| | Axis |
| Mouse Mover | General |
| | Cursor Speeds |
| | Operation |
| Switch Control | General |
| Utility | General |
| | Forward Momentary/Short Press |
| | Forward Long Press |
| | Reverse Momentary/Short Press |
| | Reverse Long Press |
| | Left Momentary/Short Press |
| | Left Long Press |
| | Right Momentary/Short Press |
| | Right Long Press |
| | |

5.3.2 Attendant profile

| iPod 훅 | 3:36 PM | \$ ■ → |
|--------------|-------------------|---------------|
| Close | | |
| | Profile | (IN 5xx) > |
| ALCONO. | Drive | (IN 5xx) > |
| Ş | Tilt | (IN 5xx) > |
| | Profile | (REM 4xx) > |
| ACCESSION OF | Drive | REM 4xx > |
| R. | Tilt | (REM 4xx) > |
| 1 | Mouse Mover | (REM 4xx) > |
| ţ, | Attendant Profile | |
| ANT ANT | Drive | ACU 2xx > |
| | Tilt | (ACU 2xx) > |

| Drive | General |
|---------|-----------------|
| | Forward |
| | Reverse |
| | Turn |
| | Stability |
| | Latched Driving |
| | Performance |
| | Operation |
| | |
| | |
| | |
| | |
| Seating | General |
| | Axis |
| | |

Figure 25: Attendant profile

5.4 Detail map – modules

The parameters accessible from the **Modules** screen are:

| iPod 🗢 | 11:34 AM | • + | Modules | | Power module |
|---------------------|--------------|-----|---------|------------|---------------------------------|
| Back | Modules | | modules | | Fower module |
| ack | Modules | | | | |
| | | | | | |
| wer Modul | e | > | | | |
| EM 2xx | | > | | | |
| EM 4xx | | > | | | |
| M 5xx | | > | | | |
| CU 2xx | | > | | | ACU / Compact Remote / Input |
| YR 100 | | > | | | Module / REM modules / TPI |
| т 400 | | > | | | , |
| | | | | | GYR 100 |
| | | | | | ACT200-1 * |
| Figu | re 26: Modul | es | | | |
| i igure 20. mouules | | | | | |
| | | | | | |
| | | | | ACT400-1 * | t |
| | | | | | |
| | | | | | |
| Manufacturer only | | | | | |



5.5 Detail map – actuator motions

The parameters accessible from the **Actuator Motions** screen are:

| iPod 🕈 < Ac | 3:13 PM | ••• •• •• | Actuator Motions | Tilt, Recline, Elevate, Left leg, Right leg, Both legs, Recline and legs, Anterior Tilt | Identification |
|----------------|---------|-----------------|------------------|---|--------------------|
| Recline | | € > | | | Behaviour |
| Elevate | | < 0 | | | Actuation channels |
| Left Leg | | | | | |
| Right Leg | | ≥ , > | | | |
| Both Legs | | 2 × | | | |
| Recline and | Legs | 1. × | | | |
| Anterior Tilt | | S > | | | |

Figure 27: Actuator Motions

6 How to ...

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| 6.3.5 Save a program | |
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| 6.3.8 Tune Adaptive Load Compensation (ALC) | |
| 6.3.9 Calibrate sip and puff | |
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| 6.5 Modify parameters | |
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How to ...

iPod ᅙ

6.1 Open the LiNX Access iOS tool

1. Open the LiNX Access iOS tool using the LiNX icon on your device.

The **Connect to Device** screen opens.

 From the Navigation bar, select a context to work on either a connected wheelchair or a file stored on your device. See 6.2 Select the context for details on how to select a context.

6.2 Select the context

6.2.1 Wheelchair

To work on a connected wheelchair, select different (the **connection context**) from the context switch on the *Navigation bar*.

When you select the connection context, and if you are connected to a LiNX system, the last screen you were working on displays.

Otherwise, the **Connect to Device** screen displays.

(See 6.3.1 Connect and disconnect to the LiNX Access tool for how to connect to a LiNX system from the Connect to Device screen.)



Figure 29: Connect to Device screen









6.2.2 File

To work on a saved file, select (the **file context**) from the context switch on the *Navigation* bar.

When you select the file context, and if you have a file open, the last screen you were working on displays.

Otherwise, the **Load from File** screen displays, showing program files (lci) at the top, and bundle files (lcb) underneath.



The following system details are displayed at the top of this screen: Access Key Level; WDE Version; Application Version; Link to Dynamic's website; Privacy Policy.

🚹 See also

See 6.4.1 for how to open a file. See 6.4.7.1 for how to share a configuration (lci) or bundle (lcb) file. See 6.4.7.2 for how to import a configuration (lci) or bundle (lcb) file.

6.2.3 Toggle between contexts

Tap the icons on the context switch (see *Figure 31*) at any time to toggle between **connection context** and **file context**.

The selected context displays a coloured bar beneath its icon.



The following actions are only relevant when in **connection context**. (For actions related to the **file context**, see *6.4 File context actions*.)

Find out here how to:

- Connect and disconnect to the LiNX Access tool
- Manage chair configurations
- Change the program name and system name
- Modify a program
- Save a program

- Upgrade the firmware
- Tune the gyro (manufacturer only)
- Tune Adaptive Load Compensation (ALC)
- Calibrate sip and puff
- Store the Access Level Certificate



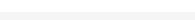
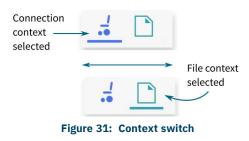


Figure 30: Load from File screen





6.3.1 Connect and disconnect to the LiNX Access tool

6.3.1.1 Connect

To connect the LiNX Access iOS tool to the wheelchair:

- 1. Power up a LiNX wheelchair system.
- 2. Insert a LAK into the remote module's XLR port.
- 3. Open the LiNX Access iOS tool application.
- 4. Select the connection context button: 🚣 (in the *Navigation bar*).
- 5. Tap the **Search for LAKs** button and select a LAK from the *Select an Accessory* list. A disclaimer screen displays.
- 6. Read the disclaimer message and tap **I Agree** to continue.

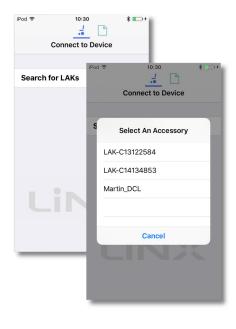


Figure 32: Selecting a LAK



Figure 33: Agree to terms in disclaimer message

🕖 Note

If the list of available devices takes a long time to populate when you tap on **Search for LAKs**, you may be able to speed the process up by removing the number of previously used devices that appear in your iOS device's Bluetooth list **My Devices**.

To remove devices from My Devices:

- 1. from your iOS device's home screen, go to **Settings** \rightarrow **Bluetooth**;
- 2. tap on a device under My Devices
- 3. tap on Forget This Device
- 4. repeat 1) to 3) for each device under the My Devices heading.



6.3.1.2 Disconnect

To disconnect the LiNX Access iOS tool from the wheelchair:

1. Tap **Close** (at the top of the screen).

| iPod 🗢 | 10:30 | * 💽 + |
|--------|--------------|-------|
| | 1 | |
| | •• | |
| Close | Program Name | |

Figure 34: Disconnecting from a connected wheelchair

If all data is saved, the tool returns to the *Connect to Device* screen. If any data is unsaved, the following options display:

Save – saves the configuration to a file,

Write to Chair – writes the configuration to the chair,

Disconnect – disconnects without saving or writing,

Cancel – return to the configuration.

🛕 Warning

If you click **Disconnect**, any unsaved data is lost.

6.3.2 Manage chair configurations

This section explains how to:

- select a chair configuration
- add a chair configuration
- delete a chair configuration

6.3.2.1 Select a chair configuration

🔰 Note

When a new configuration is selected, the system automatically power-cycles before the configuration becomes active.

To select a chair configuration (and make it the active configuration for the wheelchair):

- Tap on the Application Menu button and select Restore Alternative Configuration from the menu. The Chair configs screen displays.
- Tap a named configuration. A warning message displays.
- 3. On the warning message, tap **Yes** to proceed with your selection.

The system returns you to the home screen.

| iPod 穼 | 1:56 PM | *+ |
|-----------|---------------------------|---|
| K Back | Chair Configs | |
| OEM Defau | It is Config 1 | |
| 1 Defa | u lt S ystem 2 | |
| 2 Defa | ult System 1 | OEM Default is Config 1 |
| 3 Defa | ult System | 1 Default System 2 |
| 4 en | npty | 2 Default System 1 Warning |
| 5 en | npty | The selected configuration will become the active configuration of the chair. |
| 6 en | npty | Cancel Yes |
| 7 en | npty | |
| 8 en | npty | 6 empty 7 empty |
| | | |
| | | 8 empty |
| | | |
| | | |

Figure 36: Select a chair configuration



Figure 35: Unwritten changes in the connection context

6.3.2.2 Add a chair configuration (manufacturer only)

🕖 Note

If in bulk edit mode: before you add the active configuration to the store, ensure it has been written to the chair. To do this, tap **Write** in the blue bar at the bottom of the screen. Wait for the success message before proceeding.

To add the active chair configuration to the chair configuration store:

- Tap on the Application Menu button and select Restore Alternative Configuration from the menu. The chair config screen displays.
- Tap an --empty-- configuration slot.
 A Working dialogue displays while the configuration is saved to the empty slot, and the empty slot is renamed with the program name.
- 3. Tap **Back** to return to the Home screen.

6.3.2.3 Delete a chair configuration (manufacturer only)

To delete a configuration from the configuration store:

- Tap on the Application Menu button and select Restore Alternative Configuration from the menu. The Chair Configs screen displays.
- 2. Tap and hold a named configuration until its background turns grey, and then swipe to the left.

A red **Delete** button displays.

3. Tap **Delete**. The configuration is removed and replaced with an **--empty--** slot.

6.3.3 Change the program name and system name

The program and system names can be changed depending on your LiNX Access Key version:

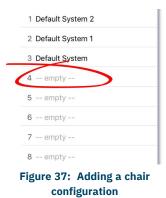
- Distributors (DLX-HKEY01-A): can edit the Program Name
- Manufacturers (DLX-HKEY02-A): can edit the Program Name and System Name

The names are located near the top of the home screen.

- 1. Type in the name(s) you require.
- 2. Tap **Return** (on the keyboard).
- 3. Save the name(s) as required.



Figure 39: Change program name or system name



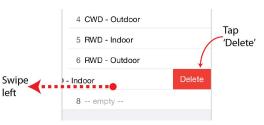


Figure 38: Deleting a chair configuration





🕖 Note

- In Connection context, live edit, the new names are saved automatically to the wheelchair.
- In Connection context, bulk edit, tap Write to write the names to the wheelchair.
- In *File context*, save or write the file from the Application menu.

6.3.4 Modify a program

Program parameters can be modified numerically, textually and graphically. (See 6.5 *Modify parameters*.) There are two edit modes in which to modify a program:

- Live edit
- Bulk edit

🕖 Note

When a parameter is modified, its background colour changes to yellow to indicate it has been modified. The yellow background reverts to white when the modified parameter value is written to the controller or saved to a file.

In live edit, it may be difficult to see the background colour changing as the live edit operation can occur rapidly.

6.3.5 Save a program

Save a program using:

- Save
- Save As

6.3.5.1 Using Save

To save the current program as a file to your iOS device.

- 1. Tap the **Application** menu button
- 2. Tap **Save**.
 - If you have previously saved the program to a file in the current session it will automatically save to the same file (and overwrite it).
 - If you have not previously saved the program, you will be prompted to Save as with a new file name. After saving the program, the tool displays a confirmation message with the file's name.
- Save Save As Save As Unlock And Enter Bulk Edit Upgrade Restore Default Configuration Restore Alternative Configuration
- 3. Tap **Dismiss** to remove the message and continue.

🚺 Note

All files are saved with a .lci extension.

If, when you save, you are prompted to Save As with a new file name:

- If the program name is set, you can save with the program name.
- If the program name has not been set, the file can be saved with a date/time stamp: **YYYYMMDD**-**HHMMSS.lci** where:YYYY = year; MM = month; DD = day; HH = hour; MM = minutes; SS = seconds



6.3.5.2 Using Save As

To save the current program with a different name to your iOS device:

- 1. Tap the Application menu button 📃.
- 2. Select Save as.
- 3. Enter a new file name (or use the displayed file name).
- 4. Tap **Save**. After saving the program, the tool displays a confirmation message with the file's name.
- 5. Tap **Dismiss** to remove the message and continue.



Figure 41: Using Save As

Note

All files are saved with a .lci extension.

- If the file has not been saved before, and if the program name is set, the save as dialog suggests saving with the program name.
- If the program name has not been set, the file can be saved with a date / time stamp: YYYYMMDD-HHMMSS.lci where: YYYY = year; MM = month; DD = day; HH = hour; MM = minutes; SS = seconds.
- If the file has been saved before, the save as dialog suggests saving with "Copy of" prepended before the name. For each subsequent save, it suggests saving with an incremental numerical value appended to the name.

6.3.6 Upgrade the firmware

- 1. Tap the **Application** menu button
- 2. Tap Upgrade.

The screen displays "Entering Firmware Upgrade Mode. Please Wait...".

If the connected modules are up-to-date, the Upgrade screen displays FIRMWARE UP-TO-DATE with a list of connected modules and their respective versions.

Modules that need upgrading display under NEW FIRMWARE AVAILABLE.

- If no modules require updating:
 - Tap the **Done** button (top-left, navigation bar) to finish.

Otherwise:

Upgrade FIRMWARE UP-TO-DATI DLX-GYR100-A DLX-REM215-A Save DLX-PM75AL-A Save As DLX-HKEY02-A Unlock And Enter Upgrade Restore Default Configuration **Restore Alternative Configuration**

Figure 42: Upgrading the firmware

- - Tap a single module to upgrade it, or
 - Tap the **Upgrade All** button (top-right, navigation bar). During a module upgrade, a progress bar displays. Once the upgrade has completed, its status displays (succeed or fail).
 - Tap Done to finish.

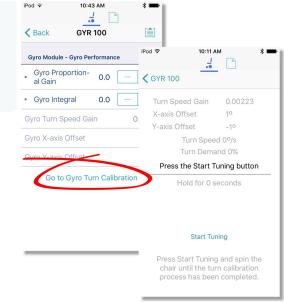


6.3.7 Tune the gyro

🕖 Note

A gyro module must be connected and enabled in the current drive function before continuing. Gyro tuning is available only in live edit. For more information on gyro tuning, refer to the LiNX Systems Installation Manual (GBK54036).

- 1. From the **Home** screen, tap **Modules**.
- 2. Tap **GYR 100**.
- 3. Tap Go to Gyro Turn Calibration.
- 4. Follow the instructions on the screen.





6.3.8 Tune Adaptive Load Compensation (ALC)

🚺 Note

Adaptive Load Compensation (ALC) must be enabled before tuning. To enable ALC:

- 1. From the Home screen, tap Modules.
- 2. Tap Power Module.
- 3. Scroll down to **Load Compensation**, enable Bulk Edit, and switch on **Adaptive Load Comp Enabled**.
- 4. Tap Write to Chair.

To tune the adaptive load compensation:

- 1. From the **Home** screen, tap **Modules**.
- 2. Tap Power Module.
- Scroll down to Power Module Load Compensation, and tap Go to ALC Calibration.
- 4. Follow the instructions on the screen.

| < | Modules Po | wer Modu | le | |
|----|--|-----------|---------|---|
| Po | ower Module - L | oad Compe | nsation | iPod 🗢 3:14 PM |
| • | Load Compen- sation Up- per Limit | 350mΩ | - | H Cack Adaptive Load Comp |
| | | | | Motor 1 |
| 0 | Motor Re- sistance | 20mΩ | _ | + Finished |
| Ad | daptive Load | Comp En | abled | 0mΩ |
| 0 | Load Com- pensation | 70% | | Motor 2 |
| | Percentage | | | 0mΩ |
| 0 | Maximum Compen- sation Rate of Change | 250V/s | _ | - Start Tuning |
| • | / | ALC Calib | ration | For LiNX systems with MR5 firmware (and below): drive the wheelchair until both motor compensation processes have completed. The chair will only learn in the forward direction. |
| | | | | For LINX systems with MR6 firmware (and above): to account for any variation in a motor's resistance values when driving forwards compared to when driving in reverse, tune the wheelchair in both directions. First drive the wheelchair forwards until finished? Then, drive |

Figure 44: Tuning Adaptive Load Compensation



6.3.9 Calibrate sip and puff

🔰 Note

An input module must be connected and Sip and Puff enabled in the module before calibrating. To enable Sip and Puff:

- 1. From the Home screen, tap Modules.
- 2. Tap **IN 5xx**.
- 3. Tap **User Input Configuration**, unlock Bulk Edit, and select Sip and Puff from the **User Input Configuration** drop-down menu.
- 4. Tap Write to Chair.

6.3.9.1 Open sip and puff calibration

- 1. From the Home screen, tap Modules.
- 2. Tap **IN 5xx**. The IN5XX screen opens.
- 3. Ensure *Sip and Puff* is selected in **User Input Configuration**.
- 4. Tap Go to Sip and Puff Calibration.
- 5. Calibrate *sip*, *puff* and *test* as required.

| | 4:24 PM | ∦ 72% 💽 + |
|--|--|--------------|
| K Back | IN 5xx | |
| User Input - Confi | guration | \sim |
| User Input Confi | iguration | Sip and Puff |
| User Input - Sip a | nd Puff Setup | |
| Sip and Puff Rar | np Time | 200ms |
| Go to Sip A | and Duff Oal | |
| 00 10 010 / | and Purr Call | bration |
| Jack Socket Tip - | | bration |
| | Port Settings | - + |
| Jack Socket Tip - Input Port De | Port Settings - 0.0s | - + |
| Jack Socket Tip - Input Port De bounce | Port Settings - 0.0s - Port Settings | - + |

Figure 45: Open sip and puff calibration

6.3.9.2 Calibrate sip

- 1. Tap the Sip tab.
- 2. Use the sliders on the right of the screen to set the sip levels as required.

6.3.9.3 Calibrate puff

- 1. Tap the **Puff** tab.
- 2. Use the sliders on the right of the screen to set the puff levels as required.

6.3.9.4 Test sip and puff

- 1. Tap the **Test** tab.
- 2. Use the **Test** screen to test your sip and puff calibrations.



| No SIM No SIM 4:26 PM 74% + Sip & Puff Calibration Done | No SIM ♥ 4:25 PM \$ 73% → + Sip & Puff Calibration Done | No SIM 🗢 4:26 PM 🕴 74% 💽 Sip & Puff Calibration Done |
|--|--|---|
| Sip Puff Test | Sip Puff Test | Sip Puff Test |
| Soft Sip 🕂 42 Peak | No Input V O | |
| | | 50 |
| | | 5 |
| 50 | 50 | Hard Puff 493 |
| U | | |
| | | 50 |
| No Input | Hard Puff A 81 | |
| Peak Peak | Peak | |

Figure 46: Sip and Puff calibration and test screens

🕖 Note

Refer to the LiNX System Installation Manual (GBK54036) for technical details on how to calibrate sip and puff.

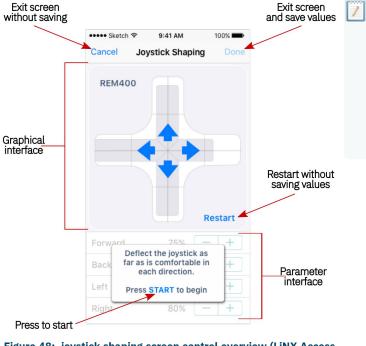
6.3.10 Joystick shaping

- From the Home screen, tap on: Modules | [Remote Module] | User Input - Joystick Shaping For example, for a REM400 remote module, tap on: Modules | Rem400 | User Input - Joystick Shaping
- 2. Tap on the **Go to Joystick Shaping Calibration** button that is located at the end of the Joystick Shaping parameters list (*Figure 47*). The calibration screen opens with an instruction pop-up explaining how to perform the calibration.



Figure 47: Go to Joystick Shaping Calibration button (LiNX Access iOS)





Note

- Select **Cancel** at any time to exit the calibration screen without saving any changes.
- Select **Restart** at any time to reset the calibration screen and display the configuration's existing values.
- Select **Done** to exit the screen and save any values that have changed.

Figure 48: joystick shaping screen control overview (LiNX Access iOS)

- 3. Tap **OK** on the pop-up, or deflect the joystick in any direction to continue.
- 4. Ask the user to deflect the joystick in all four directions. The user can deflect the joystick in any of the quadrants, in any order, but should be deflected to a point that is comfortable and repeatable.
- 5. Once the user has completed deflecting the joystick in each quadrant, tap on the **Done** button to exit the calibration screen. At this point, the calibration values, as indicated with the light blue bars and also shown numerically in the parameter interface, will be saved to the configuration.

🖊 Note

Refer to the LiNX System Installation Manual (GBK54036) for technical details on joystick shaping.

6.3.11 Store the Access Level Certificate

The Access Level Certificate determines how you view and edit offline programs (*.lci files) when in file context.

If you do not store your certificate, you get read-only access to your stored .lci files.

The certificate is taken from a connected LiNX Access Key and provides access to your files on one of two levels:

- Distributor access to a limited number of parameters
- Manufacturer access to all parameters



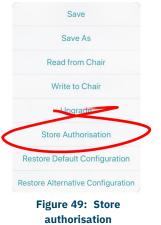
To edit files with distributor's access requires an Access Level Certificate from a distributor-level LiNX Access Key (DLX-HKEY01-A).

To edit files with manufacturer's access requires an Access Level Certificate from a manufacturer-level LiNX Access Key (DLX-HKEY02-A).

To store an Access Level Certificate:

- 1. Connect to a LiNX system.
- 2. Tap the **Application** menu button 🗎.
- 3. Select Store Authorisation^{‡1}.
- 4. Tap **Store** to continue^{‡2} or **Don't Store** to cancel.

After storing a certificate, you can edit your stored files.



🕖 Notes

‡1 A message displays showing how many authorisations remain and asking if you want to continue. LiNX Access Keys only permit ten Store Authorisation operations. Once ten authorisations have occurred, the menu item is greyed out.

‡2 If the LiNX Access iOS tool application is removed from your iOS device, the Access Level Certificate will be lost.

🗾 Note

Once a certificate has been stored on your iOS device, the access level granted by the stored certificate does not have to be the same as the access level granted by subsequent LiNX Access Keys. You can mix the access levels of LiNX Access Keys and stored Access Level Certificates.

With mixed access levels, the higher level takes precedence when editing parameters. That is, if either the Access Level Certificate or the LiNX Access Key is at manufacturer-level access, you can edit parameters at manufacturer level: a manufacturer's LiNX Access Key (DLX-HKEY02-A) overrides a stored distributor-level certificate, and a stored manufacturer's-level certificate overrides a distributor's LiNX Access Key (DLX-HKEY01-A).

6.4 File context actions

The following tasks are only relevant when in file context. (For tasks related to the connection context, see *6.3 Connection context actions*.)

Find out here how to:

- Open and close a file
- Modify a file
- Convert configuration
- Save a file

- Write a file to a wheelchair
- Delete a file
- Share a file

6.4.1 Open and close a file

6.4.1.1 Open a file

- 1. Select the file context button: (in the *navigation bar*).
- 2. Tap a file from the list in the **Load From File** screen.

🚺 Note

If you already have a file open, click **Close** (at the top-left of the screen) to return to the **Load from File** screen.



Figure 50: Load from file

6.4.1.2 Close a file

Click **Close** at the top left of the Home screen.

If all data is saved, the tool returns to the *Load from file* screen.

If any data is unsaved, the *Unsaved Changes* options display: **Save** — save the file, **Close** — close the file without saving changes,

Cancel – return to editing file.

🛕 Warning

Click **Close** in the Unsaved Changes option and any unsaved data is lost.



Figure 51: Unsaved changes in file

6.4.2 Modify a file

Values and parameters in a file can be edited:

- textually
- numerically
- graphically

(Note: Use Save or Save As after editing a file.)

6.4.2.1 If the file cannot be modified

If the file cannot be edited, or certain parameters are not available, check:

the Access Level Certificate has been stored

The Access Level Certificate from your LiNX Access Key has to be stored on your iOS device before you can edit files. (See section 6.3.11 Store the Access Level Certificate.)

the access level

LINX

Editing is limited by the stored Access Level Certificate.

- Manufacturers (using the DLX-HKEY02-A Access Key) can edit the full range of available parameters.
- Distributors (using the DLX-HKEY01-A Access Key) can edit a limited range.

To view the access level: open the System Summary and view Access Level at the bottom of the screen.

6.4.3 Convert configuration

If you have a file with an invalid configuration you will be able to open it but not write it to the chair.

An invalid configuration dialog appears when you open it.

The convert configuration option allows some invalid files to be converted to a valid configuration.

- 1. Tap the Application menu button 📃. If your file can be converted the Convert Configuration option will be displayed.
- 2. Tap **Convert Configuration** and follow the screen prompts.

6.4.4 Save a file

Save a file using:

- Save
- Save as

6.4.4.1 Using Save

To save the current program as a file to an iOS device:

- 1. Tap the Application menu button 📃.
- 2. Tap **Save**.

All files are saved with a .lci extension.

/ Note

After saving the program, the tool displays a message that the save was successful and with the file's name.

• If the program name has been set, the file can be saved with the program name.

• If the program name has not been set, the file can be saved with a date / time stamp: YYYYMMDD-HHMMSS.lci where: YYYY = year; MM = month; DD = day; HH = hour; MM = minutes; SS = seconds.

3. Tap **Dismiss** to remove the message and continue.





Figure 52: Convert configuration





6.4.4.2 Using Save As

To save the current program as a file with a different name:

- 1. Press the Application menu button 🗎.
- Select Save As.
 A dialog displays asking for the new file name.
- 3. Enter the new file name.
- 4. Tap **Save**.

After saving the program, the tool displays a message showing the file's name and that the save was successful.

5. Tap **Dismiss** to remove the message and continue.



🕖 Note

All files are saved with a .lci extension.

- If the file has not been saved before, and if the program name has been set, the save as dialog suggests saving the file with the program name.
- If the program name has not been set, the file can be saved with a date / time stamp: YYYYMMDD-HHMMSS.lci where: YYYY = year; MM = month; DD = day; HH = hour; MM = minutes; SS = seconds.
- If the file has been saved before, the save as dialog suggests saving with "Copy of" prepended before the name. For each subsequent save, it suggests saving with an incremental numerical value appended to the name.

6.4.5 Write to the wheelchair

🚺 Note

This feature is only available when a wheelchair is connected.

There are two options to write a program to a connected wheelchair:

- The Write button (when in bulk edit)
- The Application menu

The Write button

When in bulk edit, tap the **Write** button at the bottom of the screen.

| 🥥 🐕 Read | | 🔧 Write |
|-------------------------|-------|---------|
| Batt Gauge Mini- mum | 22.5V | - + |
| Batt Gauge Dead Zone | 3.5V | - + |
| back End | 32.UV | |

Figure 55: Read/write a file

The Application menu

- 1. Tap the Application menu 🗎.
- 2. Select Write to Chair.

| Save | |
|-----------------------|---|
| Save As | |
| Write to Chair | > |
| Convert Configuration | |

Figure 56: Write to chair





🚺 Note

After writing to the wheelchair, the tool power-cycles the system and then automatically reconnects to the system when the power returns.

🛕 Warning

When you write to the wheelchair from File context, the data on the wheelchair is over-written.

6.4.6 Delete a file

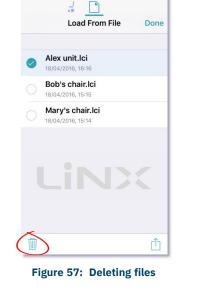
To delete a file:

🛕 Warning

- 1. Select **Edit** from the **Load From File** screen (top-right).
- 2. Select one or more files from the file list displayed.

Files are deleted immediately when you tap the trash can.

- 3. Tap the trash can (bottom-left of the screen).
- 4. Tap **Done** to leave the screen.



16:18

6.4.7 Share a file

You can:

- share a .lci or .lcb file from the iOS tool (including by email)
- import a .lci or. lcb file into the iOS tool

6.4.7.1 Share a .lci or .lcb file from the LiNX Access iOS tool

To share one or more files with other people:

- 1. Select Edit from the Load From File screen (top-right navigation bar).
- 2. Select one or more files from the file list displayed.
- 3. Tap the **Share** icon ⁽¹⁾ at the bottom-right of the screen. A standard range of Share options displays.
- Select the Share option you require (Mail, for example).
 Selected program files will be added as attachments to the selected option.
- 5. Follow the prompts to share or send the files.

LINX

1:41 PM New Message

| iPod 🗢 1:40 PM 🖇 🚥 ≁ | iPod 🗢 11:21 AM 🕸 🖚 | iPod ♀ 1:4 |
|--|--|-------------------|
| | K Back | Cancel New M |
| Load From File Done | Today at 11:19 AM | To: |
| DD1.lci | Tap to share with AirDrop | Cc/Bcc: |
| 20/12/2016, 1:55 PM | | Subject: |
| DD2.lci 19/12/2016, 4:20 PM | iMac | |
| DD3.lci 19/12/2016, 4:20 PM | $\mathbf{x} \mathbf{a}$ | |
| Demonstration Default 4.0.lci 19/12/2016, 4:23 PM | dynamic () Import with Mail More LINX Access | DD1.lci |
| Demonstration Default 4.1.lci 19/12/2016, 4:20 PM | | Sent from my iPod |
| | | |
| | Add to More iCloud Drive | |
| | Cancel | |

Figure 58: Selecting the share options

Figure 59: Share options

Figure 60: Sending a file via Mail

6.4.7.2 Import a .lci or .lcb file into a LiNX Access iOS tool

To import a .lci or .lcb file into the tool:

- 1. Email the file (as an attachment) to the email app on your iOS device.
- 2. Tap the file attachment in your email app.

A range of Share options displays (see Figure 59: Share options above).

Select the 'Import with LiNX Access' option.
 The file displays in the Load from File screen's file list.

6.4.8 Program a system from a bundle file

🕖 Note

You may not be able to use the LiNX Access iOS tool for all bundle file operations. Some LiNX power modules (those with serial numbers prior to **F17119xxx**) do not support bundle files that contain configurations. If this is the case in your system, use the LiNX Access PC tool instead.

To program a system from a bundle file using the LiNX Access iOS tool:

- 1. Open the LiNX Access iOS tool.
- 2. Connect to a LiNX system.
- 3. Make sure you are in file context (tap the context switch to toggle between connection context and file context). The **Load From File** screen displays program files at the top and bundle files underneath.

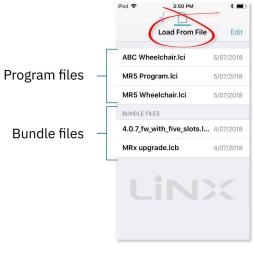


Figure 61: Load from file screen

4. Tap on the bundle file (*.lcb) that you want to write to the wheelchair. The contents of the bundle file will be displayed — see *Figure 62* — with configurations at the top, and module firmware below.

| | iPod 🗢 3:50 PM | * |
|-------------------|---|---------|
| | Configurations | |
| | R03F10A1A00L-01 R03F10A1A00L-01 | 0 |
| | R03F10A1A00T-01 R03F10A1A00T-01 | 0 |
| Configurations – | R03F10A2A00L-02 R03F10A2A00L-02 | 0 |
| _ | R03F10A2A00T-02 R03F10A2A00T-02 | 0 |
| | R03F10A3A00L-01 R03F10A3A00L-01 | 0 |
| | R03F10A3A00T-01 R03F10A3A00T-01 | 0 |
| [| Power Module Firmware | |
| Module firmware — | DLX-PM120-B App ID 23 DLX-PM120AL-A DLX-PM120AL-B DLX-PM60-B | : 4.0.7 |



5. Tap on the **Write to Chair** icon () at the top-right of the screen. The bundle file will be written to the connected system. As the file is written, the *Writing Bundle* progress bar is displayed — *Figure 63*.

| 03F10A2A00L-02 | С |
|-----------------------------------|--------|
| J3F10AZAUUL-02 | |
| 03F10A2AQ | 0 |
|)3F10A2A0 DT- Writing Bundle | C |
| 03F10A3A00L-01 | C |
|)3F10A3A00L-01 | C |
| 03E1043400T-01 | ~ |
| Figure 63: Writing bundle file pr | ogress |



기 Note

If your system is one that does not support bundle files with configurations, when you tap on the Write to Chair icon, the following warning will be displayed and you will not be able to continue:

| w | Warning Iriting a bundle that includes |
|--------|---|
| config | connected power module. |
| | |
| | Cancel |

If you see this message, then you will need to use the LiNX Access PC tool instead to write your bundle file to the system.

- 6. When the progress bar disappears from the screen, tap on the **Done** button (top left screen). The tool restarts the system and then automatically reconnects to it. At this point, the configuration files will be located in the configuration store.
- 7. To view and select a configuration, tap on the **Application** menu button (i) at the top of the screen and then select **Restore Alternative Configuration** the Chair Configs screen will open *Figure 64*.

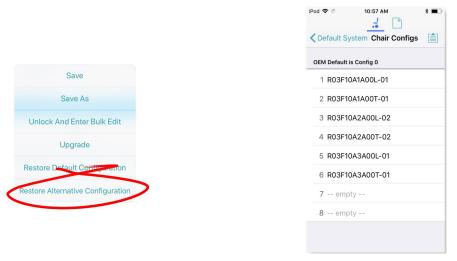


Figure 64: Opening chair configs

8. Tap on one of the chair configurations from the list to make your chosen configuration the active configuration. At this point, a warning will be displayed telling you that if you proceed, then the 'selected configuration will become the active configuration' — tap on 'Yes" to continue.

6.5 Modify parameters

🕖 Note

When you edit a parameter's value, its background colour changes from white to yellow to indicate it has changed from its previous value. Once the value is written to the controller or file, the background reverts to white. In live edit, it might be difficult to see the parameter background changing since live edits can be very rapid.

You can modify parameters:

- textually
- numerically
- graphically

6.5.1 Modify parameters textually

Functions and profiles can have their names changed when in bulk edit mode. To do this:

- 1. Unlock bulk edit.
- Tap inside the name you wish to edit. A cursor appears in the field.
- Edit the name as required.
 Click the **Return** button. The new name appears with a yellow background behind the name text field.
- 5. Continue editing the program, or write or save it, as required.

6.5.2 Modify parameters numerically

- Tap a parameter's name. Its details, including the default, low and high values and summary, display.
- 2. Either:
 - Increment and decrement the parameter with the plus (+) and minus (-) buttons, respectively.
 Tap these buttons to change the value in discrete steps, or tap and hold to change them more quickly.
 - Or:
 - Set the parameter value by tapping the low, default or high button.

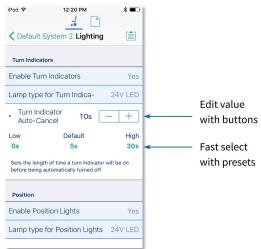


Figure 66: Modifying parameters numerically



Figure 65: A function name after editing (and before saving or writing)



6.5.3 Modify parameters graphically

A number of parameters can be edited graphically.

These parameters are grouped according to the access level (manufacturer or distributor):

OEM Drive Limits

- Emergency Deceleration
 - Emergency Deceleration
- OEM Forward
 - OEM Forward Speed
 - OEM Forward Acceleration
 - OEM Forward Deceleration
- OEM Reverse
 - OEM Reverse Speed
 - OEM Reverse Acceleration
 - OEM Reverse Deceleration
- OEM Turn
 - OEM Turn Speed
 - OEM Turn Acceleration
 - OEM Turn Deceleration
- OEM Stability
 - Turn at Max Speed
 - OEM Turn Transition
 - Max Speed in Turn
- Configuration
 - Allow Distributors to Ignore Drive Lockout

Distributor Drive Function

- Forward
 - Max Forward Speed
 - Forward Acceleration
 - Forward Deceleration
- Reverse
 - Max Reverse Speed
 - Reverse Acceleration
 - Reverse Deceleration
- Turn
 - Max Turn Speed
 - Turn Acceleration
 - Turn Deceleration
- Stability
 - Turn Transition

Gyro OEM Drive Limits

- OEM Forward Gyro
 - Gyro OEM Forward Speed
 - Gyro OEM Forward
 Acceleration
 - Gyro OEM Forward
 Deceleration
- OEM Reverse Gyro
 - Gyro OEM Reverse Speed
 - Gyro OEM Reverse
 Acceleration
 - Gyro OEM Reverse
 - Deceleration
- OEM Turn Gyro
 - Gyro OEM Turn Speed
 - Gyro OEM Turn Acceleration
 - Gyro OEM Turn Deceleration
- OEM Stability Gyro
 - Gyro Turn at Max Speed
 - Gyro OEM Turn Transition
 - Gyro Max Speed in Turn

To edit parameters graphically, tap a drive setting from the **Home** screen.

They include:

- Drive functions in the profiles
- Drive Limits (manufacturer only)
- Gyro Limits (manufacturer only)

Graphically, you can edit:

- speed settings
- acceleration/deceleration settings
- stability settings

Speed graphs are at the top of the drive parameter lists.

Acceleration/deceleration and stability graphs are accessed from the speed graph.

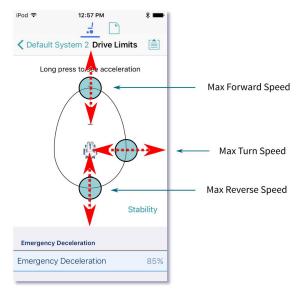
6.5.3.1 Edit speed settings

The speed graph allows you to adjust:

- Maximum Forward Speed
- Maximum Turn Speed
- Maximum Reverse Speed

Tap and drag the blue circles inwards or outwards to decrease or increase parameter values respectively.

For example, if you tap and drag the top blue circle in *Figure 68* towards the centre of the graph, the Maximum Forward Speed value decreases.





🕖 Note

The exact value for each parameter is shown at the top of the screen when adjusting the parameter, and is also displayed in the parameter list.

🗾 Note

If a gyro module is enabled, the graphic in the centre of the graph changes from a person in a wheelchair to a gyroscope to indicate that the parameters being changed are gyro-specific.

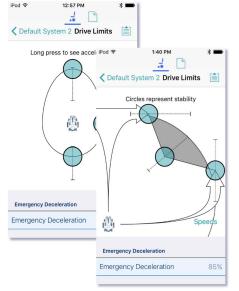
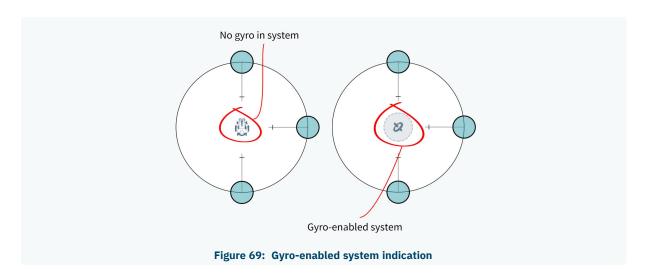


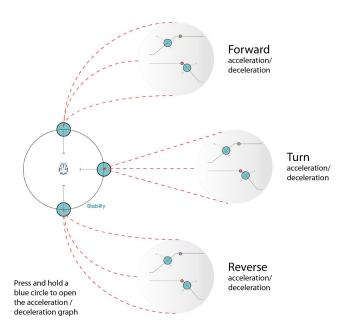
Figure 67: Modifying parameters graphically



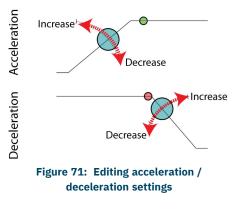
6.5.3.2 Edit acceleration / deceleration settings

Acceleration / deceleration parameters are accessible through the speed graph. To edit acceleration or deceleration settings, press and hold one of the blue circles in the speed graph screen (as detailed below).

- Press and hold the Max Forward Speed blue circle to be taken to the Forward Acceleration and Forward Deceleration screen.
- Press and hold the Max Turn
 Speed blue circle to be taken to the Turn Acceleration and Turn
 Deceleration screen.
- Press and hold the Max Reverse Speed blue circle to be taken to the Reverse Acceleration and Reverse Deceleration screen.







For each acceleration / deceleration parameter (forward, turn and reverse), the acceleration value can be edited with the upper graph, and the deceleration value can be edited with the lower graph. (See *Figure 71*.)

Press and drag the blue circles to decrease or increase the parameter value. All changes to the acceleration / deceleration values are displayed at the top of the screen.



6.5.3.3 Edit stability settings

To edit the stability settings, access the stability settings screen.

To access the stability settings screen:

• Tap the word '**Stability**' shown at the lower-right of the speed setting graph.

To return to the speed settings screen:

• Tap the word '**Speeds**' in the stability setting graph.

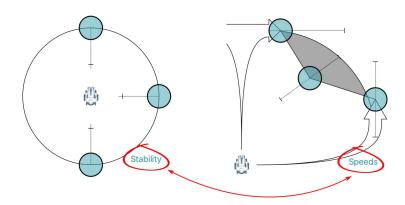


Figure 72: Selecting stability settings

Tap and drag the blue circles, in or out, to decrease or increase parameter values respectively.

In the **Drive Limits** stability graph, the following settings can be set (by the manufacturer only):

- Turn at Max Speed
- OEM Turn Transition
- Max Speed in Turn

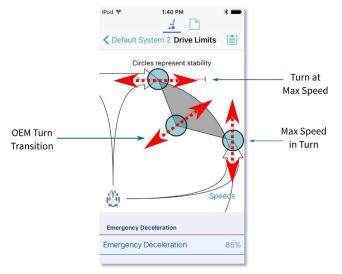


Figure 73: Editing stability settings



6.6 Modify profiles and functions

Functions are grouped in profiles. You can:

- add and delete profiles
- add, delete and move functions

To access this functionality, tap **Edit** in the Functions title bar on the home screen. (Doing this automatically opens the edit screen in bulk edit.)

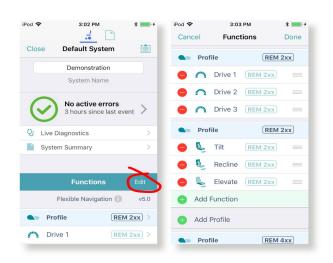


Figure 74: Edit functions

🗾 Note

To edit the contents of functions and profiles, open them from the home screen.

Just below the *Functions* title bar, you will see the navigation restriction information and the configuration version.

Click on the information link to reveal what navigation restrictions are placed on the system. The information displayed depends on the modules in the system. See the *LiNX Systems Installation Manual* for more information about navigation restrictions.

| | Function | is Edit |
|----------|-----------------|----------------|
| | Flexible Naviga | tion 🚺 v5.0 |
| | Profile | (REM 2xx) > |
| ALCON DA | Drive 1 | (REM 2xx) > |

Figure 75: Link to open navigation restriction information

The text to the right of the navigation restriction information link, displays the version of the system's current configuration.



Figure 76: Configuration version



6.6.1 Add and delete profiles

6.6.1.1 Add a profile

- 1. Tap the Add Profile button.
 - Add Profile
- 2. Give your profile a name.
- 3. Select the required User Input.
- 4. Tap **Done** to return to the **Functions** Edit screen.
- 5. Add functions to your profile.
- 6. Tap **Done** (top right of the screen) to return to the home screen.
- 7. From the home screen, tap the **Write** button to write the program to the chair; or, on the Application menu, save your changes to a file.

| Name | Name |
|--------------------------|------|
| Please select User Input | |
| REM 2xx | |
| REM 4xx | |
| CR 4xx | |
| ТРІ | |
| IN 5xx | |

🕖 Note

A profile cannot be written to the wheelchair until it contains functions (see Add a function).

6.6.1.2 Delete a profile

🚺 Note

A profile cannot be deleted until all its component functions have been deleted. (See Delete a function.)

1. Tap the red **Delete** button to the left of the profile name.



2. Tap the **Delete** button that appears.

Profile (REM 4xx) Delete

The profile is deleted.

- 3. Continue editing, or tap **Done** (top right of the screen) to return to the home screen.
- 4. From the home screen, tap the **Write** button to write the program to the chair; or, on the Application menu, save your changes to a file.

Figure 77: Add profile



6.6.2 Add, delete and move functions

This section describes how to:

- Add a function (including duplicate a function)
- Delete a function
- Move a function

6.6.2.1 Add a function

There are three ways to add a function:

- Add a new function
- Copy a function template (A function template is a preset function.)
- Duplicate an existing function

Add a new function

1. Tap the Add function button.



2. Tap the **New function** button.



- 3. Select the Function type you require.
- 4. Select a User input.^{‡1}
- 5. Tap **Done** (top right of the screen).
- 6. Continue editing, or tap **Done** again to return to the home screen.
- 7. From the home screen, tap the **Write** button to write the program to the chair; or, on the Application menu, save your changes to a file.

🚺 Note

#1If you select a user input of "Follow Profile", then when you change the user input at the profile level the function also updates. A function with a user input set to "Follow Profile" displays with a box around its user input.

| | Profile | REM 2xx > |
|-----------|---------|-------------|
| STAR A | Drive | (REM 2xx) > |
| ACT PARTY | Drive | REM 2xx |
| ALAN A | Drive | REM 2xx |

Figure 78: Follow profile

Copy a function template

1. Tap the **Add function** button.

Add Function

2. Tap the From template button.

| Parent profile | rem4xx |
|----------------|---------------|
| Name | Name |
| New function | From template |

- 3. Select the template you require.
- 4. Tap **Done** (top right of the screen).
- 5. Continue editing, or tap **Done** again to return to the home screen.
- 6. From the home screen, tap the **Write** button to write the program to the chair; or, on the Application menu, save your changes to a file.

Duplicate an existing function

- 1. Tap a function.
 - A blue **Duplicate** button appears.



- Tap the blue **Duplicate** button. An identical copy of the function is added below it.
 Note: The duplicate will have the same name as the original. To give the new function a new name, access it at the functions list on the home screen.
- 3. Continue editing, or tap **Done** (top right of the screen) to return to the home screen.
- 4. From the home screen, tap the **Write** button to write the program to the chair; or, on the Application menu, save your changes to a file.

🕖 Note

You can also duplicate a function from the home screen. To do this:



Duplicate and Delete buttons appear.



2. Tap Duplicate.

An identical copy of the function is added below it.

3. Give the new function a new name.

6.6.2.2 Delete a function

1. Tap the red **Delete** button to the left of a function name. A **Delete** button appears on the right.



2. Tap the **Delete** button. The function is deleted.

| Drive | REM 4xx | _ | Delete |
|-------|---------|---|--------|
| | | | |

- 3. Continue editing, or tap **Done** (top right of the screen) to return to the home screen.
- 4. From the home screen, tap the **Write** button to write the program to the chair; or, on the Application menu, save your changes to a file.

🔰 Note

You can also delete a function from the home screen. To do this: 1. Swipe a function to the left.

Duplicate and Delete buttons appear. Profile (REM 4xx) > Duplicate Delete REM 4xx > 🐛 Tilt REM 4xx > 2. Tap Delete. A dialog appears. **Profile** (REM 4xx) > Delete Are you sure you want to proceed with the deletion? Delete Cancel Seating 3. Tap Delete in the dialog.

6.6.2.3 Move a function

- 1. Tap and hold the three horizontal lines on the right of a function.
- 2. Drag the function to a new location and release.

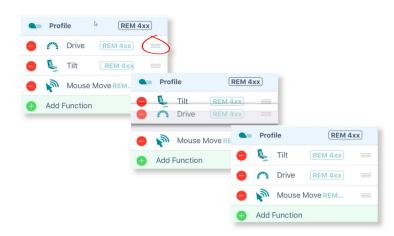


Figure 79: Move a function

- 3. Continue editing, or tap **Done** (top right of the screen) to return to the home screen.
- 4. From the home screen, tap the **Write** button to write the program to the chair; or, on the Application menu, save your changes to a file.

기 Note

A function can be moved to a new location in a profile or to a new profile.

6.6.3 Edit function icons

The drive and seating function icons are dynamic to reflect the activity in each function.

6.6.3.1 Drive icon

The drive icon indicates the percentage of maximum speed selected for a drive function.

| | Profile | (REM 2xx) > |
|---------|---------|-------------|
| Sea | Drive | (REM 2xx) > |
| Seas. | Drive | REM 2xx > |
| ALUER A | Drive | REM 2xx > |
| | | |

Figure 80: Dynamic drive function icons

The icon changes when you edit the speed graph.

6.6.3.2 Seating icon

The seating icon can be edited to indicate what part of the seat the function is for.

To do this:

- 1. From the home screen, open a seating function.
- 2. Scroll to Axis.
- 3. Open Motion.
- 4. Unlock bulk edit.
- 5. From the **Motion** drop-down menu, select the motion you require. The function icon changes to the icon of the selected motion.

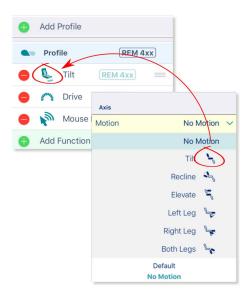


Figure 81: Edit a function seating icon

6. Tap the Write button on the home screen to write the icon edit to the chair.

6.7 Configure control inputs and outputs (control IO)

On selected LiNX modules, you can configure a control input (CI) to select and control an output (CO) such as another LiNX module, function or feature.

An input, for example, can be an external buddy button connected to a control input pin on a power module, a multi-way switch connected to a CI pin on an input module, or one of the rocker buttons on a remote module. Outputs include seating, lighting, horns, and function selection.

Control IO can be configured with unconditional or conditional rules. An unconditional rule (or **always** rule) is applied to an output when you want to ensure that the output is activated whenever its input is triggered.

A conditional rule (using **if** and **if/else**) is applied to control IO where you want the activation of an output to be subject to the state or function of the system at the time the input is triggered. That is, instead of an output always activating when its input is triggered (like the always rule), it will activate only if the condition is true.

🚯 See also

For more detailed descriptions about conditional control IO, including worked examples, see the LiNX System Installation Manual (GBK54036).

This section describes how to set up control IO for your system:

- 1. Select and configure an input
- 2. Configure an always rule
- 3. Configure a conditional rule
- 4. *Configure advanced settings* (optional)

6.7.1 Select and configure an input

- 1. From the home screen, scroll down and tap on **Modules**.
- 2. From the **Modules** screen, select the module that your input is connected to. For example, *Power Module*.
- 3. Scroll down until you find the **Port Settings** for the control input that you want to configure. For example, *Control Input 1 Port Settings*.
- 4. Under **Port Settings**, tap on **Input Type** to reveal which input types are available for the input.
- 5. Tap on one of the Input Types to reveal its control IO slots. For example, Momentary, Switch 1 etc.

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| Pod 🗢 3:00 PM | | iPod 🗢 🕴 | 3:00 PM | • | iPod 🗢 | 3:02 PM | - |
|--|--|--|---|-----|---------------------|----------------------|-----|
| Close | | < м | lodules | | K Modules Po | ower Module | |
| Modules | > | Power Module | D | > | Control Input 1 - P | Port Settings | |
| Actuator Motions | | REM 1xx | Ym | > | Input Type | Not Connected | v |
| Trigger Angles | | REM 2xx | 2 | > | Control Input 2 - F | Port Settings | |
| User Preferences | , | REM 4xx | \sim | > | Input Type | Not Connected | · ~ |
| Core Features | > | REM 5xx | | > | Control Input 3 - F | Port Settings | |
| Drive Limits | > | CR 4xx | | > | Input Type | Not Connected | · ~ |
| Gyro Limits | > | ACU 2xx | | > | Control Input/Out | tput - Port Settings | |
| ighting | > | TPI | | > | Input Type | Not Connected | · ~ |
| | | IN 500 | | > | | Not Connected | l |
| | | GYR | | > | | Button | i. |
| | | | | | | | |
| | | ACT 200-1 | | | | | |
| | ∎⊃ [,] | | 3:04 PM | • | | | |
| # <u>D</u> | | | | | | | |
| Modules Power Module | | iPod 🗢 💈 | er Module | ••• | | | |
| Modules Power Module | | iPod 🗢 📑 | er Module | | | | |
| Modules Power Module | incred ~ | Pod 🕈 | er Module | | | | |
| Modules Power Module | incred ~ | Pod 🕈 | er Module t Settings Button | | | | |
| Modules Power Module Ontrol Input 1 - Port Settings Input Type Not Onne Conne | incred ~ | Pod 🕈 | er Module t Settings Button Not Connected | | | | |
| Modules Power Module Ontrol Input 1 - Port Settings Onput Type Not Onne Conne | incted v ected utton witch | iPod ♥ 3 ✓ Modules Powe Control input 1 - Port Input Type | er Module t Settings Not Connected Way Switch histor Bands | | | | |
| Modules Power Module Power Module nput Type Not Onne Conne C | ■ ccted ~ accted utton witch ands | iPod ♥ 3 ✓ Modules Powe Control input 1 - Port Input Type | t Settings Button Not Connected Button Way Switch | | | | |
| Modules Power Module ontrol Input 1 - Port Settings Input Type Not Onne Conne Conne Conne Conne Module Conne Conne Resistor B | incred v ected v ected utton witch ands ensor | iPod ♥ 3 ✓ Modules Power Control Input 1 - Port Input Type | er Module t Settings Button Not Connected Button -Way Switch istor Bands | | | | |
| Modules Power Module | incred v ected v ected utton witch ands ensor | Modules Power | er Module t Settings Button Not Connected Button Way Switch istor Bands Angle Sensor Function Key Default | | | | |
| Modules Power Module Control Input 1 - Port Settings Input Type Not Connected Output Type Not Connected Output Type Connected Output Angle Sets the type of input device connected Sets the type of input device connected | incred ✓ ected ✓ utton i which i ands i ensor i in Key i | Modules Powe Control Input 1 - Port Input Type Cont Cont Cont Sets the type of input | er Module t Settings Button Not Connected Button -Way Switch istor Bands Angle Sensor Function Key | | | | |
| Modules Power Module | incred ✓ ected ✓ utton i which i ands i ensor i in Key i | Modules Power | er Module t Settings Button Not Connected Button Way Switch istor Bands Angle Sensor Function Key Default Connected | | | | |

Note 1

Control IO slots that are configurable are marked with 义 and labelled **None** or, if they have been configured, display the configuration summary.

| Configurable 🔶 | Momentary | $\mathbf{>}$ | None |
|------------------------------|---------------|--------------|---------------|
| Not configurable 🔶 | Momentary | | Drive Lockout |
| Restricted \longrightarrow | Momentary | 0 | Restricted |
| Figure 83: Cor | nplex configu | rations | |

Complex configurations, which have been pre-configured for the manufacturer, are not configurable through the tool. For these slots:

- if the slot can display the configuration summary, the slot will display the configuration summary and show this icon: .
- *if the slot cannot display the configuration summary, because of its complexity, it will display 'Restricted'*

and the slot will show this icon: $^{\circ}$.

6.7.2 Configure an always rule

LINX

To configure an always rule, you need to select an output from the output list.

The following steps (1-3) are used when no rules have yet been defined. If a rule already exists, and you want to add further outputs to a rule, go to step 4.

1. Open the output list by tapping on the right-hand side of the control IO slot (*Figure 84* ①).

| iPod 🗢 | 11:07 AM 🔲 🗲 | iPod 🗢 11:07 AM | • + | iPod 🗢 11:07 | AM 💼 🗲 | iPod 🗢 11:0 | 07 AM 💼 🗲 |
|---------------|-------------------|------------------------|------------------|--------------------|----------------|-------------------|------------|
| | .i 🗋 | Cancel Control Input 1 | - Mo Done | Cancel Control Inp | ut 1 - Mo Done | Cancel Control In | put 1 - Mo |
| Modules | Power Module | Always | Select Action | Always | Tilt Extend | Always | |
| Control Input | 1 - Port Settings | | | Seating | Extend | Seating 1 | |
| Input Type | Button 🗸 | Seating | > | Tilt D |) > | Extend | |
| | Advanced > | Drive | > | Recline | > | Retract |) |
| Momentary | None None | Control C 2 | > | Elevate 3 | > | Latche | |
| Short Press | None | Functio | > | Left L | > | Latch ct | |
| | | Display Actions | > | Right Leg | > | Toggle | |
| Long Press | None | Lighting | > | Both Legs | > | Toggle Latched | |
| On Press | > None | Horn | > | Recline and Legs | > | De | lete |
| Control Input | 2 - Port Settings | Connectivity | > | Anterior Tilt | > | | |
| Input Type | Button 🗸 | Seating Safety Outputs | > | Dele | ete | | |

Figure 84: Assigning an output where no rules exist for slot

- 2. From the output list, select an output, drilling down through the options as they are presented (*Figure 84* ⁽²⁾).
- 3. Tap on **Done** (*Figure 84* ③). A summary of the rule is displayed in the control IO slot.

The following steps (4–6) are used when a rule already exists, and you want to add further outputs.

- 4. Tap on the left-hand side of the control IO slot (*Figure 85* ①) to expand the slot and reveal the **Add Rule** button.
- 5. Tap on **Add Rule** (*Figure 85* ^②), which opens the conditions list.
- 6. Tap on the output button (*Figure 85* ③) to display the output list (*Figure 85* ④).
- 7. Continue to add an output as described above in steps 2–3.

| | | | | Condition button | Output button | | |
|-------------------------------|----------------|--|-----------------|-------------------------|------------------|--------------------------|---------|
| iPod 🗢 11:23 AM | M 💼 🗲 | iPod 🗢 11:23 AM | • + | iPod 🗢 11:23 AN | 1 | iPod 🗢 11:23 AM | |
| | | | | Cancel Control Input | 1 - Mo., Done | Cancel Control Input 1 - | Mo Done |
| Modules Power Mo | dule | Modules Power Mod | ule 📋 | Always | Select | Always | Select |
| Control Input 1 - Port Settir | ngs | Control Input 1 - Port Setting | ļs | Aiways | Action | | Action |
| Input Type | Button 🗸 | Input Type | Button 🗸 | Always | 3) ~ | Seating | > |
| | Advanced > | | Advanced > | Chair is Driving | | Drive | > |
| Momentary | Tilt Extend | Momentary | Ad Rule | Seating is in Motion | | Control Outputs | > |
| short a the > | None | Always | Tilt Extend | System is in Navigation | n Menu | Functions | > |
| | | | | System is in Rest | | Display Actions | > |
| Long Pre | None | Sets the action to be pe activated. | e the switch is | Active Function is | > | Lighting | > |
| On Press | None | Short Press | None | Delete | | Horn | > |
| Control Input 2 - Port Settin | | SHOT PIESS | None | | | Connectivity | > |
| Input Type | Button 🗸 | Long Press | None | | | Seating Safety Outputs | > |
| | | <u></u> | | Conditions | list | Output lis | t |

Figure 85: Assigning an output where rules already exist for slot

Note 1

You can easily switch between viewing the conditions list and the output list by tapping on the condition and output buttons, respectively.

| button IPod 2:22 PM 🚽 📼 + | iPod 2:22 PM 4 + button |
|----------------------------------|----------------------------------|
| Cancel Control Input 1 - Mo Done | Cancel Control Input 1 - Mo Done |
| System is Select Action | System is in Rest |
| Avs. | Seating |
| air is Driving | Drive |
| Seating is in Motion | Control Outputs |
| System is in Navigation Menu | Functions > |
| System is in Rest 🗸 | Display Actions |
| Active Function is | Lighting |
| Delete | Horn > |
| | Connectivity |
| | Seating Safety Outputs |

6.7.3 Configure a conditional rule

Conditions are selected from the conditions list. To assign a condition to your rule:

- 1. Tap on the left-hand side of the control IO slot Figure 87 \oplus) to reveal the Add Rule button.
- 2. Tap on Add Rule(Figure 87⁽²⁾) the condition list is displayed.
- 3. Select a condition from this list (Figure 87 ③) the condition button will display your choice.

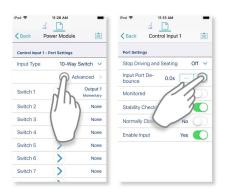
| iPod 10:15 AM Carcel Control Input 1 - Mo System is in Rest Select Always 4 | | iPod ♥ 10: ↓ | | iPod 🗢 10:14 AM |
|---|------------------|---|------------------|---|
| System is Select | | Modules Power | | |
| in Rest | | Modules Power | | |
| in Rest | Settings | | dule 📋 | Kodules Power Modu |
| Always 4 | | Control Input 1 - Port S | gs | Control Input 1 - Port Settings |
| | Button 🗸 | Input Type | Button 🗸 | Input Type |
| Chair is Driving | Advanced > | | Advanced > | |
| Seating is in Motion | Add Rule | Momentary | None | Momentary |
| System is in Navigation Menu | | Sets the action to be per activated. | None | short my |
| System is in 2st | 2/ | / | None | |
| Activ on is | None | Short Press | | |
| Delete | None | Long Press | None | On Press |
| \bigcirc | N | 0 | ngs | Control Input 2 - Port Settings |
| | None | Un Press | Button 🗸 | Input Type |
| Cancel Control Input 1 - Mo | nput 1 - Mo Done | | | Cancel Control Input 1 |
| System is in Rest | > Tilt Extend | System is in Rest | Select Action | System is in Rest |
| Seating Tilt 8 and | Tilt Extend | Seating | | |
| Extend | x × | Tilt | > | Seating |
| Retract | Im > | Recline | m > | Drive |
| Latched Ext | 6 | Elevate | 5 | Control Outputs |
| Latched Retract | | Left Leg | | Functions |
| Latened Retract | | | | |
| Toggle | > | Right Leg | > | Display Actions |
| \sim | > | Right Leg Both Legs | > | |
| Toggle | | | | Lighting |
| Toggle Toggle Latched | > | Both Legs | > | Display Actions Lighting Horn Connectivity |
| Condition | None None | On Press | Button V | Control Input 2 - Port Settings |

Figure 87: Assigning a condition and output

- 4. Tap on the output button (*Figure 87* 9) to display the output list.
- 5. From the list, select an output, drilling down through the options as they are presented (*Figure 87* ⑤ to ⑦).
- 6. Tap on **Done** (*Figure 87* [®]) a summary of the rule is displayed in the control IO slot.



6.7.4 Configure advanced settings



The advanced settings allow you to configure the control inputs further. Tap on the **Advanced** button to reveal the following options:

- Stop Driving and Seating
- Input Port Debounce
- Monitored
- Stability Checking
- Normally Closed
- Enable Input

Stop Driving and Seating



This option ensures activation of this control input in any way will cause driving and seating operations to stop.

Tap on the slider button to select **Yes** or **No**.

Input Port Debounce

Input Port Debounce 0.0s - + This option sets the time the signal on the input port has to be stable for before the system responds to the input.

Set the **Input Port Debounce** time by tapping on the **+** and **-** buttons.

If it is set to zero seconds, no additional debounce is applied.

🗾 Note

When Input Port Debounce is set to any value greater than zero, the following button inputs cannot be configured: short press, long press, on press.

Monitored

Monitored No

This option sets whether this input is monitored for electrical faults.

Tap on the slider button to select **Yes** or **No**.

Stability Checking

Stability Checking Yes

This option sets whether this input is monitored for signal stability. Tap on the slider button to select **Yes** or **No**.



| Normally Closed | No | This option sets whether the switch is normally-open or normally-closed. |
|----------------------------|--------------|--|
| | | Tap on the slider button to select Yes or No . |
| | | |
| Enable Inp | out | |
| Enable Inp Enable Input | out Yes 🌔 | This option sets whether the input is enabled. |

🚹 See also

For more detailed descriptions about the advanced settings, and worked examples using these steps, see the LiNX System Installation Manual (GBK54036).

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