

Mobility

NETWORKS

VEHICLE ACCESSIBILITY SOLUTIONS



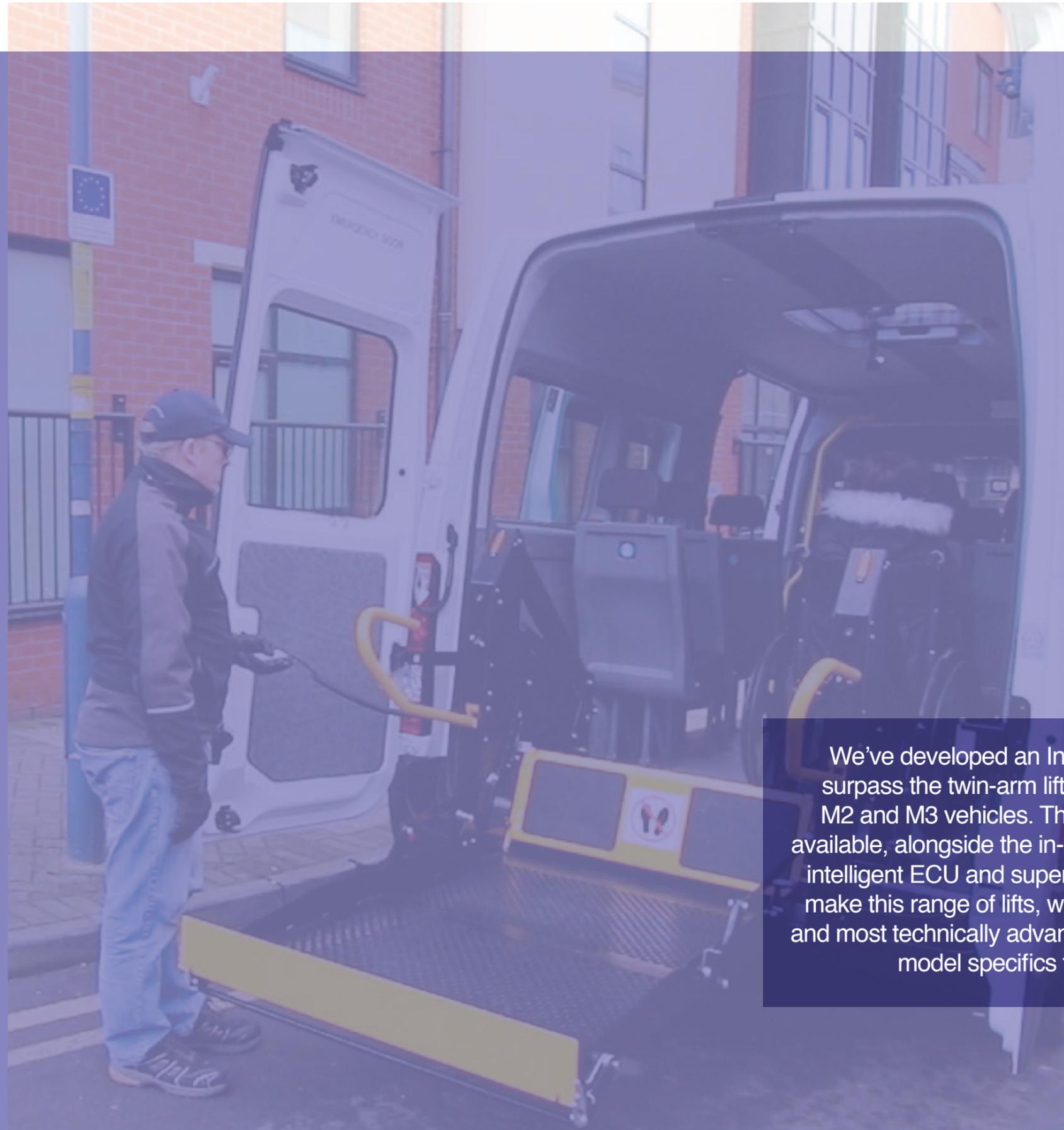
Inboard Lift Range

Leaders in **safety**, leaders in **technology**.

Introducing the new Generation iCLASS™ range from Mobility Networks Group. In collaboration with our partners, we develop inspired accessibility solutions to enrich lives and promote inclusivity.

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We've developed an Inboard lift range to surpass the twin-arm lifts available for M1, M2 and M3 vehicles. The range of models available, alongside the in-built app functionality, intelligent ECU and superior safety functions, make this range of lifts, we believe, the safest and most technically advanced in the world (see model specifics for details).

Mobility Networks Group

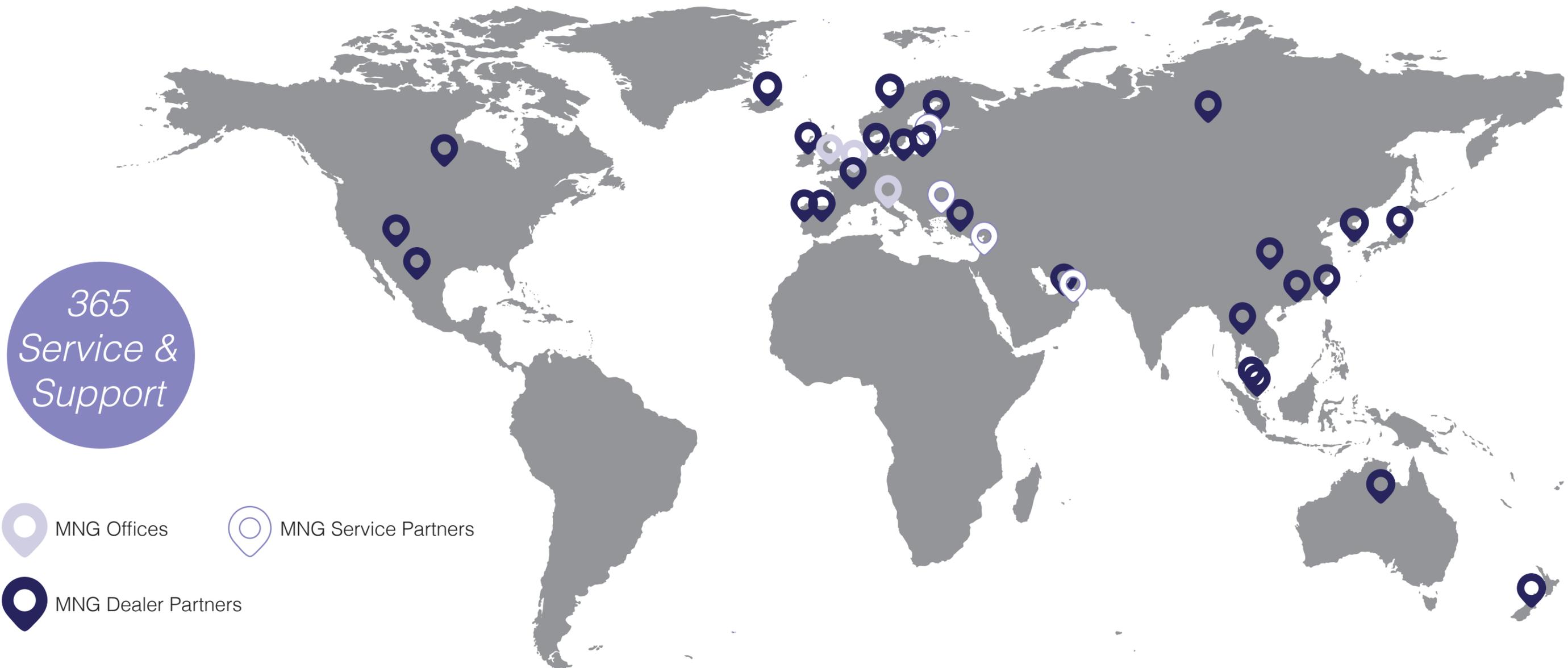
In collaboration with our partners, we develop inspired accessibility solutions to enrich lives and promote inclusivity.

We continually strive to understand mobility challenges faced by all and we care about and appreciate the needs of our customers. Our global network of dealers and service partners ensures that we're on hand 24/7 to meet the requirements of everyone that uses our products.

The team at Mobility Networks comprises of a high number of industry experts with many years' experience of both the accessibility industry and the vehicle conversion process. The group is able to utilise such experience and offer product consultation on an international scale. Our customers (no matter how remote) are able to rely upon an incredible level of product and technical support from concept to completion.

Our inboard range comprises of five classes; each serving a different sector of the global market.

Model	Market
Intelligent	
iCLASS™ 2021	Global
iCLASS™ FMVSS	North America, Commercial
iCLASS™ ADA	North America, Private
Safety	
sCLASS	Global
Ambulance/bariatric	
aCLASS	UK and Global. (Specialist product - contact us for more information).



365
Service &
Support

-  MNG Offices
-  MNG Service Partners
-  MNG Dealer Partners

We believe we've developed the safest, twin-arm inboard lift

Introducing Generation iCLASS™

There are three versions of the iCLASS™ available in the range.

Each of the four versions serves a different market and a variety of customer requirements. Within each of the four versions, there are three models available.

At Mobility Networks, we're dedicated to designing, developing and manufacturing the safest possible lifts for everyone. From the moment our lift leaves the factory we want it to support everybody from installer through to the end user.

We use the latest technology such as our new Mobility Networks App and the all-new Safety Mode, to provide a lift that prioritises the safety of everyone that comes into contact with it.

By adhering to some of the strictest safety criteria in the world, such as the FMVSS U.S. regulations, we have rigorously tested and improved our iCLASS™ range to ensure it offers the best possible safety functions available to the market.

The iCLASS™ range of lifts feature innovative components such as the Intelligent ECU and countless safety benefits. The Mobility Networks App provides wireless connectivity; a unique feature designed to enhance user experience and provide an extra level of service and support.

The iCLASS™ lifts include sensors that monitor all the lift's safety features: platform occupancy, pressure mat, inner & outer barrier operation, seat

belt status, platform position, temperature, battery voltage and more.

The roll-off ramp (also known as the outer barrier or wheelchair retention device) features a hard-wearing rubber edge which creates a smooth bridge between the lift and the ground. It is tested with a wheelchair driven at 5mph to ensure it is a safe and efficient barrier. The roll-off ramp locks vertically into place which removes the risk of passengers rolling backwards off of the platform.

The sensitive floor is used between the lift and the floor of the vehicle. It stops the lift from operating when it senses the pressure of someone standing on it. This provides an audible warning sound to help prevent passengers stepping out of the vehicle when the lift is in use.

There are 3 different types of handrail available and each can be replaced easily and quickly as the handrail fixing sits on the outside of the frame.

“
Generation iCLASS™ is versatile, innovative & features a host of safety functions to support operators and passengers

Competitor Analysis

iCLASS™ 2021 vs Leading Global Competitor

	Folding platform	Competitor Lift
Stowed Height	1181mm	1219mm
Width	1196mm	1194mm
Depth	385mm	445mm
Platform size	840 x 1380mm	813 x 1295mm
Gross Weight	149Kgs	169Kgs
SWL	425Kgs	350Kgs

* Information correct as of September 2020

iCLASS™ 2021 vs Leading Global Competitor

	Folding platform	Competitor Lift
Stowed Height	1240mm	1241mm
Width	1195mm	1216mm
Depth	385mm	438mm
Platform size	820 x 1520mm	800 x 1500mm
Gross Weight	151Kgs	177Kgs
SWL	425Kgs	364Kgs

* Information correct as of September 2020

Mobility Networks App vs Leading Global Competitor App

Feature/Function	Mobility Networks App	Competitor App
App cost	£4.99 / €5.99 / \$6.99 per month	FOC
Bluetooth module	Standard	\$215
Installation	N/A	20 minutes
App language	English - multiple languages coming soon	Multiple
Lift operation controls	✓	✓
Vehicle battery display	✓	✓
Setting up and commissioning of lift	✓	
Diagnostics in event of breakdown	✓	
Access online help videos	✓	
Access to support	✓	
Warranty registration	✓	
Service reminders	✓	
Remote diagnosis for field engineers	✓	
Links to manuals	✓	
Connection to multiple units	✓	

Three platform types available

For each iCLASS in the range, there are three platform types to suit customer requirements.



Solid Platform

The solid platform is the perfect lift for budget-conscious consumers because it offers a low initial and lifetime cost. Its all-steel frame is designed with high quality and superior functionality. This lift sets the standard for platform lifts in the industry.

Folded Platform

The innovative Folded Platform lift provides a longer platform without obstructing visibility. These bi-fold platforms maximise unobstructed views for passengers. Longer platforms work well for users with larger wheelchairs/scooters or users needing a vehicle with a lower roof height as well as a large platform.

Split Platform

The SP model is a fully-automatic split platform lift that folds up and out of the way at the push of a button, offering complete access to the vehicle interior. This unique split platform design is a popular solution because it leaves a clear pathway for passengers to enter and exit without deploying the lift.

The Safest Option

Don't compromise on safety or performance

We have four options of iCLASS™ available globally. To ensure you receive the best solution for your requirements, take a look at our feature comparison chart:

iCLASS™ TYPE	iCLASS™ FMVSS	sCLASS	iCLASS™ ADA	iCLASS™ 2021
Mobility Networks APP	✓	✓	✓	✓
Safety Mode	✓	✓	✓	✓
Access to user videos	✓	✓	✓	✓
ECU Activated Safety Lock	✓	✓	✓	✓
LCD screen display	✓	✓	✓	✓
Bluetooth diagnostics	✓	✓	✓	✓
Stainless steel fittings	✓	✓	✓	✓
Remote control	✓	✓	✓	✓
ECU temperature gauge	✓	✓	✓	✓
Steel inner barrier	✓	✓	✓	✓
Anti-slip material	✓	✓	✓	✓
Pressure mat	✓	✓	X	X
Platform illumination lights (positioned on arm)	✓	✓	✓	Option
Platform illumination strip lights (inside arm)	✓	✓	Option	Option
Amber warning lights	✓	✓	✓	✓
Outer barrier lock	✓	✓	X	X
Adjustable anti-rattle rubber stops	✓	✓	X	X
Handrails tested to 1112N Force	✓	✓	✓	X
Secured internal cables	✓	✓	✓	✓
Manual release valve	✓	✓	✓	✓
Handrail safety belt	Standard with folded platform (optional with SP and P)	Options	Options	X
Battery voltage monitoring	✓	✓	✓	✓
Digitally displayed cycle counter	✓	✓	✓	✓
Threshold warning audible buzzer and red flashing beacon	✓	✓	X	X
Occupant platform safety sensor	✓	✓	✓	✓

Plug & Play External Powerpack Connections

*Plug & Play Door Opener (HDO/RDO)	✓	✓	✓	✓
*Plug & Play Radio remote control	✓	✓	✓	✓
*Plug & Play Handrail Joystick on powerpack side	✓	✓	✓	✓
*Plug & Play Internal LED lighting strip	✓	✓	✓	✓
**Plug & Play Platform illumination lights	✓	✓	✓	✓

*Plug & Play: The lift includes the wiring or function to add e.g. Door Opener quickly. No additional wiring is needed. Additional item e.g. Door Opener not included as standard.

**Outside arm platform illumination lights are supplied disassembled from lift – installer to install

Anti-slip platform



Platform lights



Amber warning lights



Warning buzzer



Outer barrier



Pressure mat



Innovative design and technology enhances safety

The platform has a sensor that will prevent the platform closing when someone is on the platform.

Activation of the pressure mat stops the lift and sounds an alarm warning both user and operator that they are approaching the lift / edge of the vehicle while the lift is in operation (FMVSS & sCLASS only).

Handrails are tested to 1112N force to ensure they provide more than adequate support for operators and users. (FMVSS, ADA & sCLASS only).

When the App is opened and the lift is paired, a warning message and diagram will appear prompting the user to be within a 3 metres of the lift. This promotes correct and safe operation.

The App disables the remote buttons when the warning message is shown due to inactivity. The outer barrier has been wheelchair crash tested at 5mph x 85kg to help prevent wheelchairs from leaving the platform while in operation.

If the outer barrier does not engage when the lift is

moving from the ground, the lift will stop within 7cm to protect the user from unsafe use. (FMVSS & sCLASS only).

Amber warning lights when the lift is being operated, platform illumination lights and LED Strip lights, all help to give passengers and operators maximum visibility. (Model dependent lighting options available).

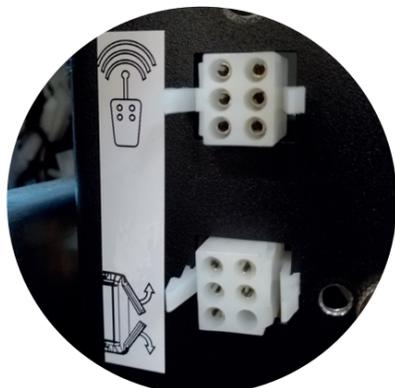
The weatherproof mesh platform alongside the anti-slip material used on the pressure mat, provides a safe surface in all weather conditions.

The lift's hand control includes illuminating back-lit buttons.

ECU powered locks prevent the lift from drifting between uses and from deploying suddenly after infrequent use. No other lift on the market has this safety feature.

Using the Mobility Networks App includes access to an abundance of user videos and guides.

External Power Pack Connections - ADA & iCLASS™



External Power Pack Connections - FMVSS



Manual release valve



Power Switch - FMVSS & sCLASS



Power Switch - ADA & 2021 iCLASS™



Audible warning buzzer



Internal cables are tied for easy access and reduction of accidental damage.

Our external plug and play power pack connections are more accessible; resulting in easy installation and integration of options.

The manual override is possible using the manual pump handle. This enables the lift to be maneuvered even if the electrics fail, and ultimately, allows the passengers and operators to move to a safe environment before contacting support.

The oil level is visible on all models to ensure that not too much oil is used and thus prevents oil spillages and general

damage to the lift. It also shows the operator if more oil is needed which is important for the functionality and safety of the lift.

The Power Switch increases safety since it prevents the lift being used unless it has been switched on - reducing the likelihood of accidental use and damage. When the lift is switched off, it eliminates the draw of power from the battery.

The audible warning buzzer ensures that a warning signal can be heard from anywhere around or inside the vehicle. It's important to have such a signal especially when working with the visually impaired who may not be able to see the visual warning lights or red flashing beacon.

The Safest Option



The App

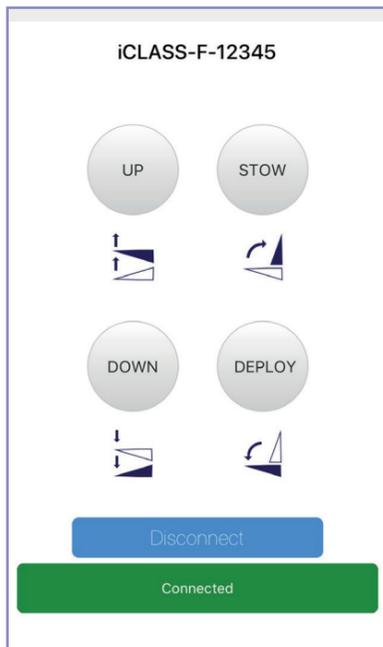
The Mobility Networks App has more features and safety functions than any other app for our market.

Features



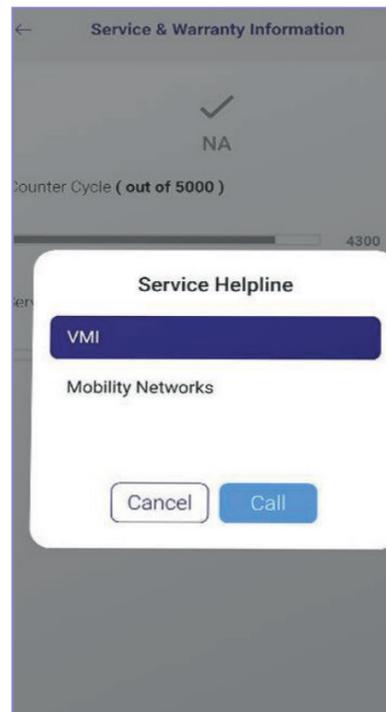
Remote Control

The App allows the user to control all the features of the lift via their mobile or tablet.



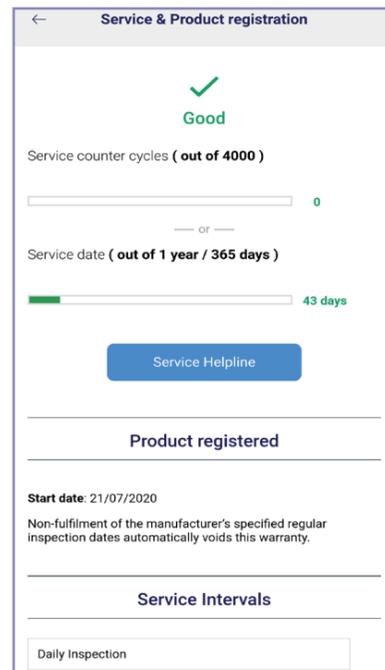
Service Reminders

Service reminders will remind customers to service the lift at the correct intervals; service reminders will appear on the LCD Screen and within the App.



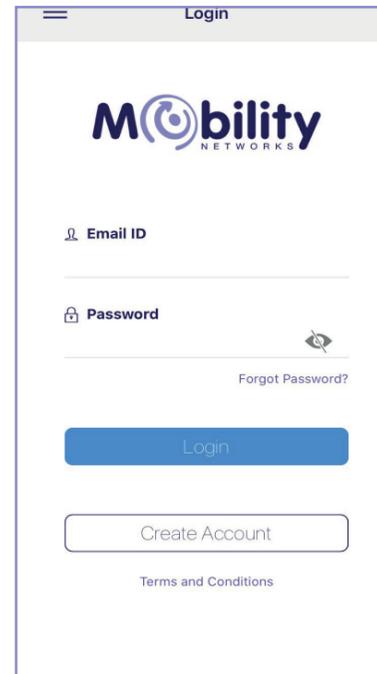
Warranty

Full warranty is provided if the lift is registered using the App. The user can register the lift at any time in the first 200 cycles. The start date of warranty will be available to see within the App at any time for the user.



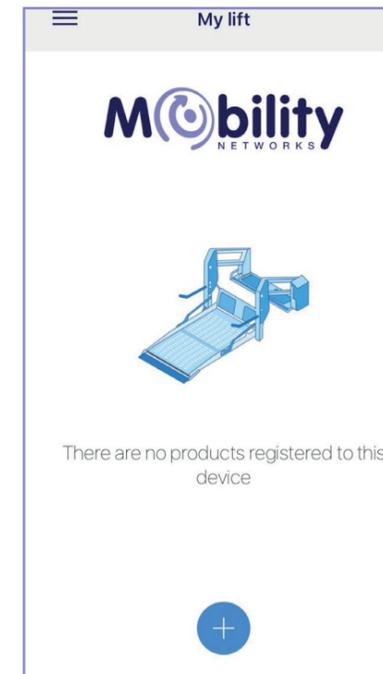
User Logins

Depending on the user's role (end user / installer / engineer) a number of the lift's parameters are editable.



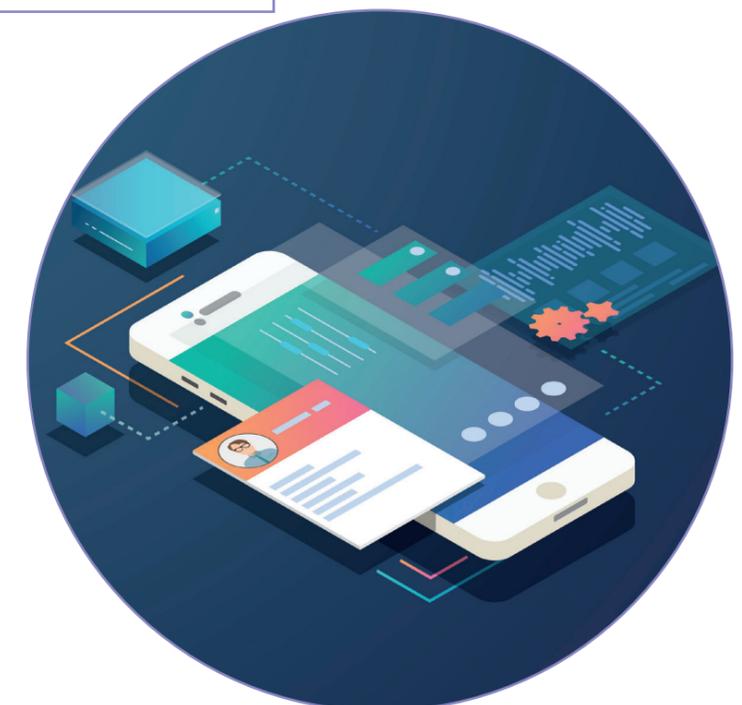
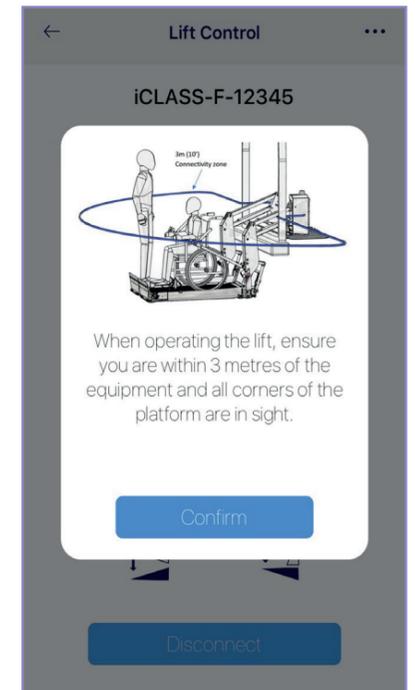
Lift Inventory

A user with the relevant access e.g. an Installer will be able to see a list of all the lifts under their supervision. A user can have multiple lifts inside the inventory and access them directly without entering the pin.



Safety PIN

PINs for remote control of the lift decrease the possibility of misuse of the remote control and increase end user safety. Each lift has a random PIN generated and assigned to it.



App Features



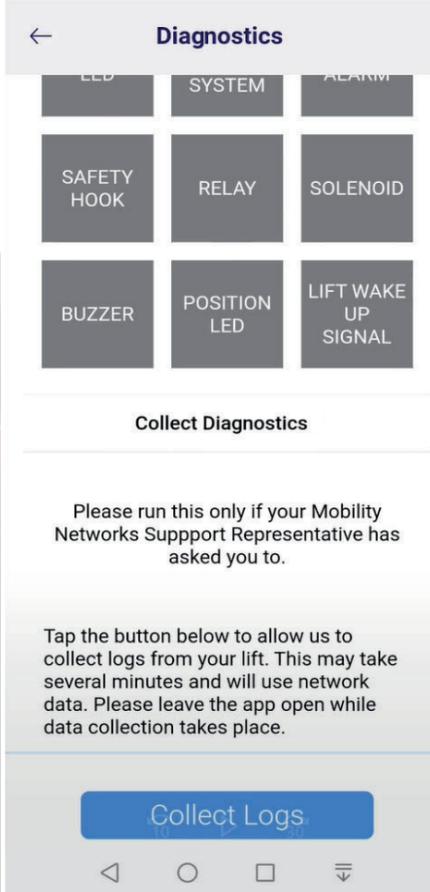
Diagnostics

On the rare occasion that a user encounters a problem with their lift, our app will offer a significant reduction in diagnostic time.

Phone calls and emails are reduced as all the lift's key statistics e.g. voltage, can be viewed in the App. This will address some of the more frequently troubleshooted issues when using the iCLASS™.

Simply tell us the error code displayed on the LCD Screen and send us the data log from within the app for us to diagnose the lift's issue.

The user can tell us the error code displayed on the LCD screen and send us the log from inside the App. The diagnostic page displays all the active inputs / outputs so the person servicing the lift can quickly identify what sensor is not functioning properly.



“
The LCD Screen is a game changer for efficient lift diagnostics



Firmware Updates

Users can download the latest version of the App and this may include ECU updates which in turn, directly upgrade lift functionality. Remotely downloading firmware updates is an efficient way to fix minor issues with the lift's performance.



ECU Activated Safety Lock

ECU powered locks prevent the lift from drifting between uses and from deploying suddenly after infrequent use. No other lift on the market has this safety feature.



LCD Screen

- The LCD screen displays approximately 30 different messages for the user including; "Service Due Now", "Safety Mode High Temp", "Check Safety Switch", "Firmware Updating" etc.

- Error codes are logged inside the App (if the error occurs when the App is paired) and we can access this log quickly and easily to assess a problem.

- This level of functionality via a built-in LCD screen does not exist outside of Generation iCLASS™.

- The LCD error messages are explained in the manual and in the App the errors are displayed as on the LCD (if paired), the user can access either and identify the problem quickly.

- The LCD screen also displays; Cycle count, whether the lift is 'stowed', 'deployed' etc. and it turns itself off after five minutes of inactivity.



Safety Mode Explained

Safety Mode is an innovative new function added to the Generation iCLASS™ range which improves safety and quality assurance for all.

Safety mode is unique to Mobility Networks. Developing a higher standard of technology has enabled us to produce this mode which ensures high quality manufacturing and extra safe usage.

Safety Mode delays the deploy operation of the lift by 10 seconds. Having Safety Mode protects the lift, the installer and the end user. By ensuring the functionality of all the lifts safety features before it leaves our factory, and then ensuring that the installer is both trained and has carried out all the necessary pre-delivery installation checks, we have substantially raised the bar both in terms of product quality and user safety.

The End of Line Inspection check

This check is performed on each iCLASS™ lift and the ECU produces data stating whether the lift passes or fails each aspect of this check. The lift will not be put into Safety Mode until it has passed this checkpoint with a 100% success rate. A receipt displaying the results of the test is sent with the lift.

-We can prove that each lift left the factory with all features in 100% working order.

-We remove the element of human error from quality assurance as the ECU data cannot be tampered with.

-It is a higher level of control, accuracy and transparency from manufacturing the lift through to installation.

How does the lift act in Safety Mode?

Safety Mode delays the Deploy operation by 10 seconds, activates the buzzer and displays on the LCD screen: "SAFETY MODE" every time the lift is deployed after powered on. After an initial 10 seconds delay, the lift resumes operation and resets the delay every time the lift is powered off.

From Safety Mode to Full Operation Mode

After a lift is installed and commissioned, and all the checks are performed by the installer – the lift can be taken out of Safety Mode and put into Full Operation mode. The Full operation mode no longer delays the deploy operation. If the App procedure is followed, Mobility Networks will be informed and the warranty will start.

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QUALITY ASSURANCE TEST
Date.....June 25, 2020
Time.....07:51:22
Test Rev....0.0.1

Type.....FMVSS-P
S/N.....75064
F/W.....1.3.0

Test Cycles: 20

Voltage Test: PASSED
Program Serial Number: PASSED
Program Manufacture Date: PASSED
Program RTC: PASSED
Floor Level Set: PASSED
Stow Level Set: PASSED
Tolerances Set: PASSED
Outer Barrier - Lifting: PASSED
Outer Barrier - Hook: PASSED
Outer Barrier - Pressure Switch:
PASSED
Outer Barrier Sensors: PASSED
Vehicle Consent: PASSED
Pressure Switch: PASSED
Safety Mat: PASSED
Input Verification: PASSED
Handset Operation: PASSED
Angle Sensor Verification: PASSED
Outputs Verification: PASSED
LCD Installed: PASSED
Bluetooth Test: PASSED
Temp Sensor Test: PASSED
SD Card Installed: PASSED
Debug Mode Set: PASSED
EEPROM Check: PASSED
Safety Mode Set: PASSED
POWER LED: PASSED
INSPECTION STATUS: PASSED

Tested performed by:
.....

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Quality Assurance Receipt



1

QUALITY

Quality assurance is now completed by the ECU as well as our dedicated workers, increasing consistent levels of quality and ensuring safety functions are working fully.

2

SAFETY

The End of Line Inspection check covers all the safety functions of the lift ensuring that when it leaves the factory, all safety functions are in perfect working order.

3

INTELLIGENT

The intelligent ECU produces data that cannot be tampered with, The receipt that travels with the lift will be unique to that lift and prove that it has passed all the safety and quality checks.

HDO & RDO

Electrically operated door openers. The RDO (Rear Door Opener) and HDO (Hatch Door Opener)

Hatch Door Opener (HDO)

The mobilityHDO is a “plug and play” system – making the installation process fast and smooth. It gives full functionality without taking up too much space, which is a huge advantage in smaller vehicles.

It is mounted on the vehicle wall with a special bracket, which leaves room on the floor for further adaptation or equipment.

The HDO comes with a universal bracket. Please note; special brackets applies for Mercedes Vito, VW T5 and Fiat Scudo.

The hatch door can also be used manually, so if the power fails, the original dampers of the hatch door will prevent the hatch from lowering in inappropriate situations. specific mounting brackets, especially all major European minibus brands.

Features

- No power? No worries. The hatch door can still be used manually, and if the power fails, the original dampers of the hatch door will prevent the hatch from lowering in any inappropriate situation.
- The only adjustments needed are the open and closed positions of the hatch.
- Tested at 10.000 cycles, this HDO is tested to the limit, to ensure a life time product.
- Plug 'n play: Simply plug it in and everything is activated.



Rear Door Opener (RDO)

The mobilityRDO is an electrically operated rear door opener, which is used in conjunction with the 2021 Generation iCLASS™™ range. The system is designed to be a “plug and play” system making it easy to mount, connect and use, thus saving man-hours.

The mobilityRDO uses magnetic switches which means lesser wear and no need for regular adjustments. The customer will get a more durable solution with this option, and it can be fitted into most vehicles.

Two motors open the swing doors independently - they are identical which makes the mounting fast and easy with no risk of mistakes.

The RDO switches work by magnetism. This means it is maintenance free with no need for adjustments on a regular basis. This is controlled via a wireless remote that is connected to the wheelchair lift, ensuring every component works together.

Features

- Plug 'n play: Simply plug it in and everything is activated.
- The two motors are identical - they do not mirror each other. This makes mounting fast and easy with no risk of making mistakes.
- Non-mechanical switches, all electric and no hydraulics: the “in and out” stop-switches work by magnetism. This means no wear and no need for adjustments on a regular basis.
- The moving arm is easily adjustable. You will be able to fit this door opener into most car models.
- Depending on car model, the door opener can be placed horizontally or vertically. Either way, it has full functionality.



The mobilityRDO has been tested over 10.000 cycles to ensure durability

We listen to our customers and respond to the needs of the market

Our lifts feature a super-quiet motor and several anti-rattle features.

We use optical sensors instead of limit switches which are more durable and provide a higher level of performance.

ECU controlled safety hook; the anti-drift hook is always engaged unless the lift is being deployed.

Cable-free inner barrier mechanism, this makes for an easy reset and no parts need to be replaced.

Our app gives a full history of the use of the lift; this can be useful to pinpoint when events occurred and help with diagnostics, spare parts and training.

Our Accreditations

ISO
14001

We're committed to reducing our environmental impact

FMVSS
403

We meet the product compliance standards for the U.S.A

EMC
R10.5

FCC

Electrical system compliance supports our safety focus

FMVSS
CE

ISOP
9001

We invest time and resources into our production processes and quality management

Mobility
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