



CURTIS INSTRUMENTS AG

# ECON ecosystem

## System Requirements

### Summary

This document specifies the operating system requirements as well as the respective minimum specifications needed to operate an ECON programming software.

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## Revision History

Rev	Date	Author	Changed
0.1	01-Mar-2019	Franz Leu	Initial draft
0.2	04-Mar-2019	Richard Sumka	Updated ECON-i requirements
0.3	05-Mar-2019	Franz Leu	Added some more details
A	06-Mar-2019	Franz Leu	Release
B	16-Oct-2019	Franz Leu	Reworked compatible devices, Released
C	07-Feb-2020	Franz Leu	Removed support for 32-bit iOS
D	16-Apr-2020	Franz Leu	Added chapter Data Privacy
E	05-Jun-2020	Franz Leu	Updated OS/system requirements
F	10-Aug-2020	Franz Leu	Clarified OS/system requirements
G	08-Jul-2021	Franz Leu	Extended Internet connection domain whitelist
H	16-May-2022	Franz Leu	Updated OS/system and device requirements
I	02-Oct-2023	Franz Leu	Updated Android minimum version requirement

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## 1 Introduction

To configure, diagnose and to update Curtis wheelchair control systems, ECON programming software is available for various systems and platforms.

To manage users and their access levels and privileges, the Q3DC cloud server is a central part of the ECON ecosystem.

This document specifies platforms for which programming tools of the ECON family are available and defines the respective system requirements.

The Curtis 1313 Handheld programmer that can as well be used for the same purpose is not considered part of the ECON family and therefore is excluded from the specifications in this document.

## 2 Available ECON Versions

### 2.1 Windows - ECON-W

For the PC platform used with Windows as operating system, ECON-W is available. ECON-W is the application that supports the full feature set available.

#### 2.1.1 System requirements

- ✓ Windows 10, 32 or 64-Bit Operating System
- ✓ Minimum of 2GB RAM
- ✓ Minimum of 100MB available disk space
- ✓ Internet access (for authentication only, once every month)
- ✓ To install the software, the Windows user account used is required to have administrative credentials

#### 2.1.2 Internet connection

The Internet connection is used for various purposes:

- ✓ Validation of user account and respective system access privileges
- ✓ Application update (upon requirement, usually 2-4 times a year)
- ✓ Interactive assist connections

For these functionalities to work properly, access to at least the needed web addresses must not be blocked by any Firewall or alike. The following web addresses must be freely accessible to have all services available:

- ✓ [econ-r.curtisinst.com](http://econ-r.curtisinst.com)
- ✓ [q3dc.quantumrehab.com](http://q3dc.quantumrehab.com)
- ✓ [econ.curtisinst.net](http://econ.curtisinst.net)
- ✓ [www.prideprovider.com](http://www.prideprovider.com)
- ✓ [www.quantumrehab.com](http://www.quantumrehab.com)

To allow for crash and quality monitoring to help improve the reliability and quality, the following additional web addresses should as well be freely accessible:

- ✓ \*.appcenter.ms (particularly [api.appcenter.ms](http://api.appcenter.ms))
- ✓ [api.mobile.azure.com](http://api.mobile.azure.com)

To establish a connection to a wheelchair system, no Internet connection is required as long as the available offline time has not been used up. 30 days offline time is available after every successful online authentication.

#### 2.1.3 System connection options

- ✓ CAN via PEAK-System PCAN add-on card or USB Interface cable
- ✓ CAN via Sontheim USB Interface cable
- ✓ Bluetooth – via integrated BT interface, BT add-on card or dongle

## 2.2 Mobile iOS - ECON-i

ECON-i features a subset of the ECON-W functionality to cover for most of the daily needs. Connection to the wheelchair system is established using Bluetooth. For ECON-i v2.53 and later:

### 2.2.1 System requirements iOS

- ✓ iOS 13.3 or higher, 64-Bit version

### 2.2.2 Compatible iOS devices

- ✓ iPhone 6S / 6S Plus / SE, or [later](#) (Gen 9 or later)
- ✓ iPad 5<sup>th</sup> gen, iPad Air 3<sup>th</sup> gen, iPad Mini 4<sup>th</sup> gen, iPad Pro, or [later](#)

## 2.3 Mobile iOS and Android - ECON-R (Interactive Assist)

Interactive Assist can be used to remotely diagnose and configure a system on a wheelchair. It uses a secure connection channel over the internet from the ECON-W desktop application to the mobile application on iOS or Android, which is connected to the wheelchair system by Bluetooth. For ECON-R v1.5 and later:

### 2.3.1 System requirements iOS

- ✓ iOS 13.3 or higher, 64-Bit version

### 2.3.2 Compatible iOS devices

- ✓ iPhone 6S / 6S Plus / SE or [later](#) (Gen 9 or later)
- ✓ iPad 5<sup>th</sup> gen, iPad Air 3<sup>th</sup> gen, iPad Mini 4<sup>th</sup> gen, iPad Pro, or [later](#)

### 2.3.3 System requirements Android

- ✓ Android 11 or higher

## 3 Q3DC cloud server

The Q3DC cloud server keeps track of all users that have registered to use an ECON programming device. It allows for centralized and easy control of access privileges for accessing a wheelchair system.

User accounts are associated to the locations/customers a user belongs to. No personal data except the email address that is used for the account creation and subsequent login is required nor stored.

All data communication is SSL secured.

The Q3DC server works with Chrome, Firefox and Edge.

## 4 Data Privacy

On the cloud server, only personal data as visible and entered when creating a personal account is stored. All ECON versions do store technical data only and no personal data is stored in any of the versions.