

System Requirements Client for using IngSoft InterWatt

(Version: 2022-12-20)

§ 1 Preliminary remark

This document describes the system requirements that are necessary to install the client components of the software "IngSoft InterWatt". This document only becomes contractually binding when this document is incorporated into a contract.

It describes the current state of the system requirements at the time of its writing and thus those system requirements that are necessary to use the current version of the software. Subsequent versions of the software may have different system requirements if they improve the performance or security of the overall system.

§ 2 Overview of client programs

IngSoft InterWatt keeps the data on a central server, with which various so-called client programs exchange data. Only these client programs are intended for direct use by users.

The following client programs are currently available:

Name	Description	System requirements (short version)
EnergieMonitor	Web interface for setting up and everyday operation of the system (e.g. display of evaluations, input of readings and energy calculations, setup of user administration, building structures, meter assignment, etc.).	Microsoft Edge, Google Chrome, Mozilla Firefox, oder Safari (MacOS) respectively in the current version or the direct previous version
App for Android	Offline-capable recording of meter readings and other functions such as message reception. (The use of the apps may have to be licensed separately)	Android from version 8.0
App for iOS		iOS from version 12.0
StrukturEditor	Discontinued, cancelled of 2023: Expert tool for advanced, basic configuration tasks. Although this access is web-based, it requires a Windows system.	Microsoft Windows from Windows 10

§ 3 General System Requirements

1. One e-mail address per user

Every user of the IngSoft InterWatt system needs a valid e-mail address, to which the system e.g. sends a link to set up a personal password.

2. Permanent Internet or intranet connection during use

For customers who use IngSoft InterWatt as a solution hosted by IngSoft: For communication with the server, a constant Internet connection is required while using the client software. required (exception: some functions of the apps can also be used offline).

If a customer operates its own IngSoft InterWatt server and this server makes its services available on an intranet, the clients need instead of the Internet connection a connection to this intranet.

3. Communication via https

Communication with the IngSoft InterWatt server is based on the https protocol (port 443). If the licensee operates its own IngSoft InterWatt server on the intranet, it can also be configured for unencrypted transmission (http protocol, port 80), but this is not recommended.

4. PDF-Reader

IngSoft InterWatt generates most reports either as PDF files or as Microsoft Word documents. Adobe Acrobat Reader version 9.0 or later or equivalent software is required to view the PDF files.

5. Microsoft Word

IngSoft InterWatt generates most reports either as PDF files or as Microsoft Word documents (*.docx). Microsoft Word or a compatible program is required to view and process Word files.

6. Spreadsheet calculation software

IngSoft InterWatt can also generate results in the format of CSV files. For display and further processing, the use of a spreadsheet program such as Microsoft Excel is recommended.

§ 4 System Requirements EnergieMonitor

"EnergieMonitor" refers to the web interface to IngSoft InterWatt, which can be run on all devices with a current browser with HTML5 support, regardless of the operating system of the client.

1. Supported browsers

Due to differences in the implementation of Internet standards in the different browsers, different representations in the different browsers do not constitute a shortcoming.

The browser versions marked with (*) below are the primary supported browsers for which the display is optimized at a minimum screen resolution of 1280px x 1024px. With other browsers, deviations in the display (including other breaks, additional scroll bars, etc.) appear.

Browser	Version	Limitations / Notes
Google Chrome (*)	Current version + predecessor	No restrictions
Microsoft Edge (*)	Current version + predecessor	No restrictions
Mozilla Firefox (*)	Current version + current ESR version	No restrictions
Safari (MacOS)	Current version + predecessor	No restrictions

2. Necessary browser settings

IngSoft InterWatt requires JavaScript and cookies enabled.

3. Network requirements

The use of the WebSocket protocol (according to RFC 6455 specification) must be possible.

4. Communication with external services

When the use of geographic navigation is enabled, the client software loads map data directly from Google.

§ 5 System requirements for the app for devices with Android operating system

1. Requirements

Assuming Android version 8.0 or higher, if the OCR function is to be used to detect counter readings, an integrated camera is required.

2. Communication with external services

The app is distributed and updated via Google's app store, so appropriate access must be possible.

Push messages are sent to the device via Google Firebase Cloud Messaging.

§ 6 System requirements for the app for devices with iOS operating systems

1. Requirements

iOS version 12.0 or higher is required.

2. Communication with external services

The app is distributed and updated via Apple's app store, so access must be possible.

Push messages are sent to the device via Google Firebase Cloud Messaging and Apple Push Notification Service.

§ 7 System Requirements StrukturEditor

The "StrukturEditor" will be discontinued in 2023. It is currently (as of December 2022) only required for special configuration tasks such as defining role descriptions.

The "Struktur Editor" is a so-called rich client, which must be installed on the PC of the user with administrative tasks in the IngSoft InterWatt system. An essential prerequisite is the Microsoft .Net Framework 4.8, which is automatically installed with current Microsoft operating systems, but which can also be installed free of charge (for which However, administrator rights are required).

1. Fully supported operating systems

a) Windows 10

All editions of Windows 10, except Mobile , Mobile Enterprise, and Windows 10 S.

b) Windows 11

All editions of Windows 11, except Windows 11 Mixed Reality

2. Operating systems on which the operability is probable but is not guaranteed

Windows XP Service Pack 3, 32-bit editions only, Windows Vista, Windows 7 and Windows Server 2010 or later (but not Server Core).

3. Other necessary software

For some functions, the "Struktur Editor" directly calls HTML pages of the associated IngSoft InterWatt server, which are then defined in the browser defined as the default for opening URLs on the user's computer. can be opened. The same requirements apply to this browser as described below for the "EnergieMonitor".

4. Installation using Microsoft ClickOnce technology

The "Struktur Editor" is supported by the respective IngSoft InterWatt server. As a so-called ClickOnce installation. If the corresponding .Net-Framework and the Microsoft Installer (min. in version 3.1) and the corresponding installation page on the IngSoft InterWatt server is called with a supported browser, the user can also install the "Struktur Editor" without administration rights.

If the "Struktur Editor" is installed in this way, it will update itself automatically when a new version is deployed to the server.

For installation and updates to work, https or http connection to the IngSoft InterWatt server and the download of files from this address must not be restricted by firewalls (in particular, files with the extensions *.application, *.deploy, *.exe, and *.dll).

5. Required user rights for the installation and update of the "Struktur Editor"

If the required Microsoft .Net-Framework is installed on the respective computer, normal user rights are sufficient for installation. If the .Net Framework is not available, so this can only be done automatically during the ClickOnce installation if the user has administrator privileges.

6. Required rights for using the "Struktur Editor"

Normal user rights are sufficient to operate the "Struktur Editor". The "Struktur Editor" requires in relation to the so-called .Net-Code-Access-Security "Full Trust". Since the "Struktur Editor" is signed by IngSoft with a code signing certificate, "Full Trust" is granted in Windows standard configurations.

If the code access security has been individually configured in the user's network, it must be ensured that the "Struktur Editor" "Full Trust".

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