



ConSEL PLUS – Quick start



System version: 7.x

Document version: 1.5

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1. Introduction

The ConSEL PLUS software is an advanced dispatching system intended for the integration of various communication systems used on a daily basis by operating the position of managing, monitoring and supervising the activity and functioning of the enterprise.

The ConSEL PLUS software allows for the construction of dispatching systems both in companies with a small number of dispatcher stations and a relatively small number of users of radiocommunication systems, as well as for the construction of very complex and extensive (also in terms of geography) systems integrating many company information exchange systems.

The system provides integration and access from one device (dispatcher console) to all analog and digital radio communication systems.

ConSEL PLUS allows, among others for voice correspondence exchange, data exchange (including status handling), remote control of radiotelephones, repeaters, recording of correspondence, direct communication between dispatchers, transfer of connections between various communication systems (cross patch) and many others. It enables the visualization and graphical presentation of the data of current objects. It has an advanced report module, insight into historical data and many editors allowing for precise system configuration.

An extensive user authorization system and the ability to define in detail the authorizations held by each user make it a safe system, and the activities carried out in it are registered and fully accounted for.

2. Hardware requirements

Minimum requirements – ConSEL PLUS client version	
Operating system	X64: Windows 10, Windows 11, Windows Server 2019
CPU	1 GHz
RAM	4GB
HDD	64 GB Type Flash
Network card	Yes
Sound Card	Yes
Additional Equipment	4 x USB, speakers, microphone, monitor, keyboard, mouse

Recommended requirements – ConSEL PLUS client version	
Operating system	x64: Windows 10, Windows 11, Windows Server 2019
CPU	Intel Core i5
RAM	8GB
HDD	256 GB Type Flash
Network card	Yes
Sound Card	separate microphone input and speaker output
Additional Equipment	4 x USB, speakers, microphone, monitor (1920x1080), keyboard, mouse

Minimum requirements - Server (IPSC, Capacity Plus, MultiSite CP)	
Operating system	x64: Windows 10, Windows 11, Windows Server 2019
CPU	Intel Core i5
RAM	8GB
HDD	512 GB Type Flash
Network card	Yes

3. Installation of ConSEL PLUS radioserver

To install the ConSEL PLUS software, run the ConSELPLUSSetup.exe.

After selecting the installation language, choose how the application is to be licensed

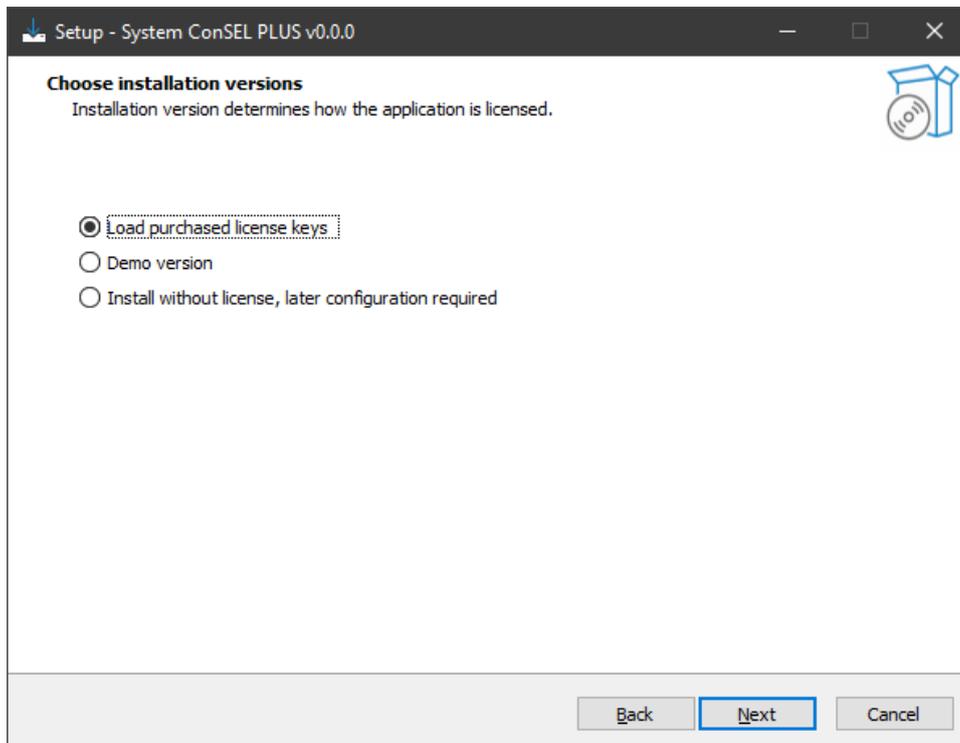


Fig. 3. 1 Choosing an installation version

- **Load purchased license keys** - The installer on completion will ask you to load previously purchased .nls2 license files.
- **Demo version** - The installer at the end will open a form that, when completed, will unlock all the features of the application for us for a period of 1 month.
- **Install without license, later configuration required** - The installer will not display license messages. Completing the configuration is done through the radio server configuration program.

The next step is to select the installation destination path, define the function of the server on which the installation takes place (Figure 3.2).

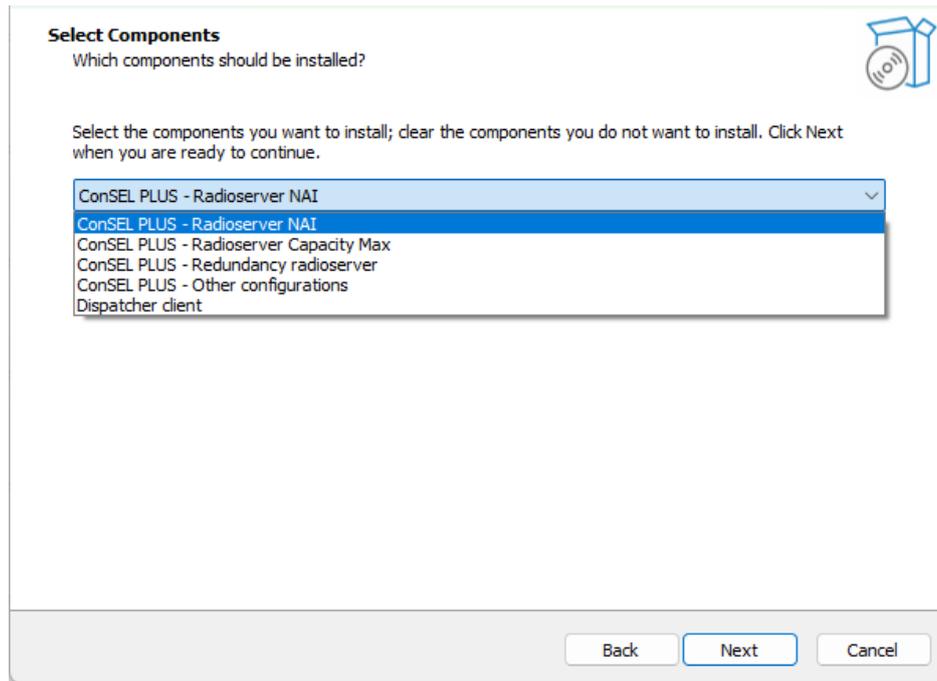


Fig. 3. 2 Choosing an installation component

- **ConSEL PLUS - Radioserver** - the program will be installed in a configuration prepared for direct cooperation with Motorola repeater / repeaters using LAN / WAN network and an activated Network Application Interface (NAI) license in devices or if the repeater will be used in Capacity Max system, it will need a Capacity Max license instead of NAI license.
- **Dispatcher client** - installation of the ConSEL PLUS system client.
- **ConSEL PLUS - Other configurations** - program installation without predefining the available functions and configurations.

The next step in the installation is to define the optional components of the installation (Figure 3.3).

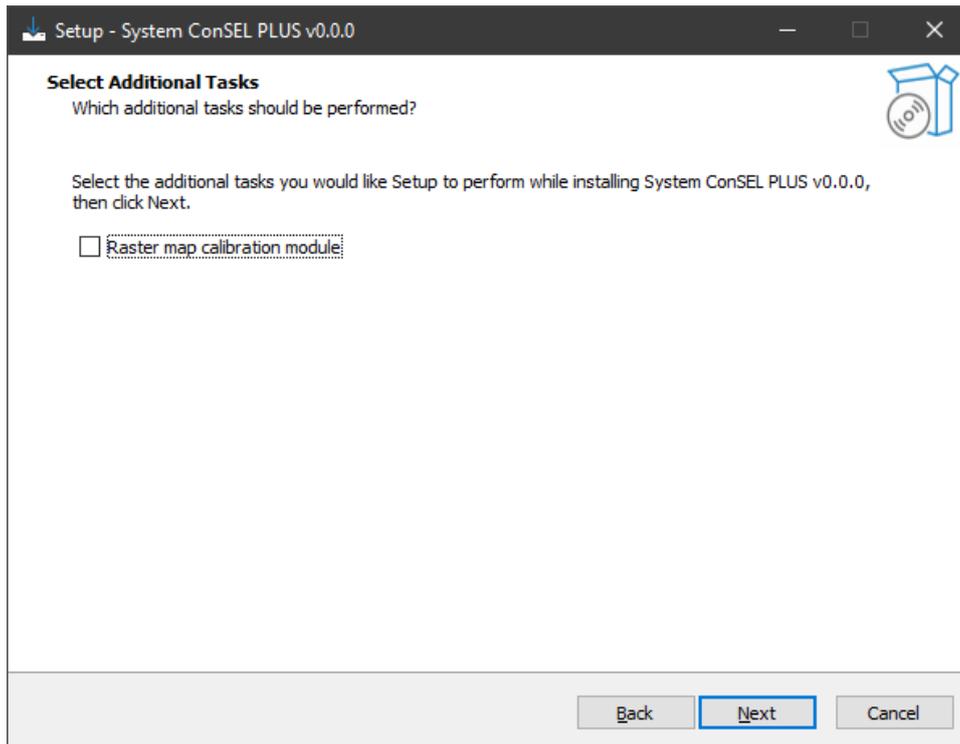
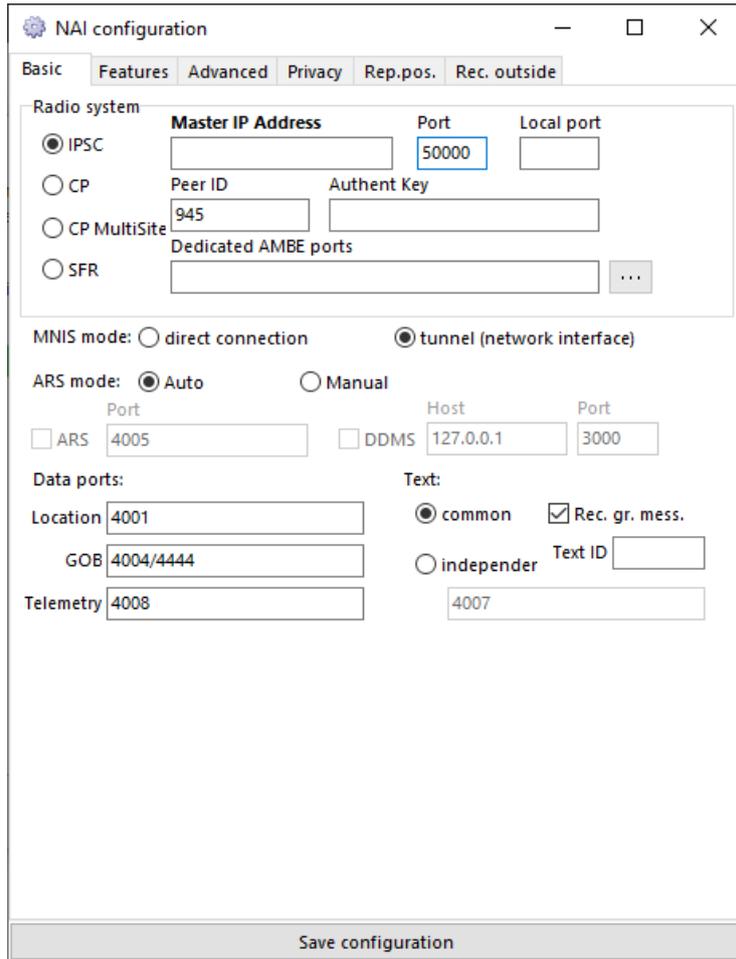


Fig. 3. 3 Additional options when installing the radio server

Raster map calibration module - installation of software that allows you to create individual maps built from raster files (bmp / jpg).

When the system that requires configuration, e.g. **ConSEL PLUS - NAI radio server** or **ConSEL PLUS – Capacity Max radio sever** is selected, the radio server configuration window will start during the installation (Figure 3.4).



The screenshot shows the 'NAI configuration' window with the following settings:

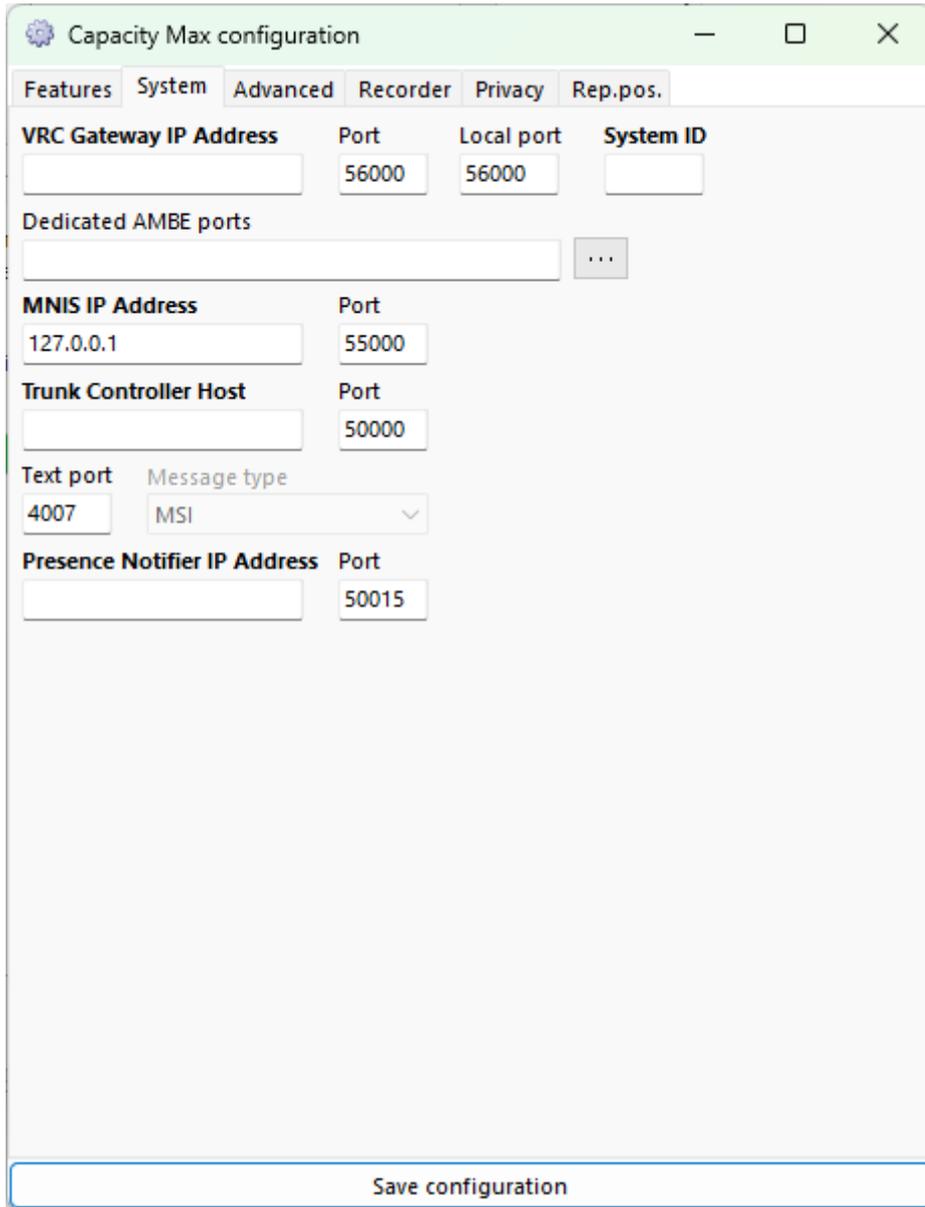
- Radio system:**
 - IPSC: Master IP Address (empty), Port (50000), Local port (empty)
 - CP: Peer ID (945), Authent Key (empty)
 - CP MultiSite: Dedicated AMBE ports (empty)
 - SFR: (empty)
- MNIS mode:** direct connection, tunnel (network interface)
- ARS mode:** Auto, Manual
- ARS:** ARS (Port: 4005), DDMS (Host: 127.0.0.1, Port: 3000)
- Data ports:** Location (4001), Telemetry (4008)
- Text:** common (Rec. gr. mess. checked), independer (Text ID: empty)
- Text ID:** 4007

At the bottom of the window is a 'Save configuration' button.

Fig. 3. 4 Configuration of the radio server

For the correct operation of the NAI system:

- Select the appropriate system, e.g. **IPSC**.
- Fill in the address and port of the repeater in the place of **Master IP address, Port**.
- Complete the **Authent Key** (authentication key - if required)



Capacity Max configuration

Features System **Advanced** Recorder Privacy Rep.pos.

VRC Gateway IP Address Port Local port System ID

56000 56000

Dedicated AMBE ports

...

MNIS IP Address Port

127.0.0.1 55000

Trunk Controller Host Port

50000

Text port Message type

4007 MSI

Presence Notifier IP Address Port

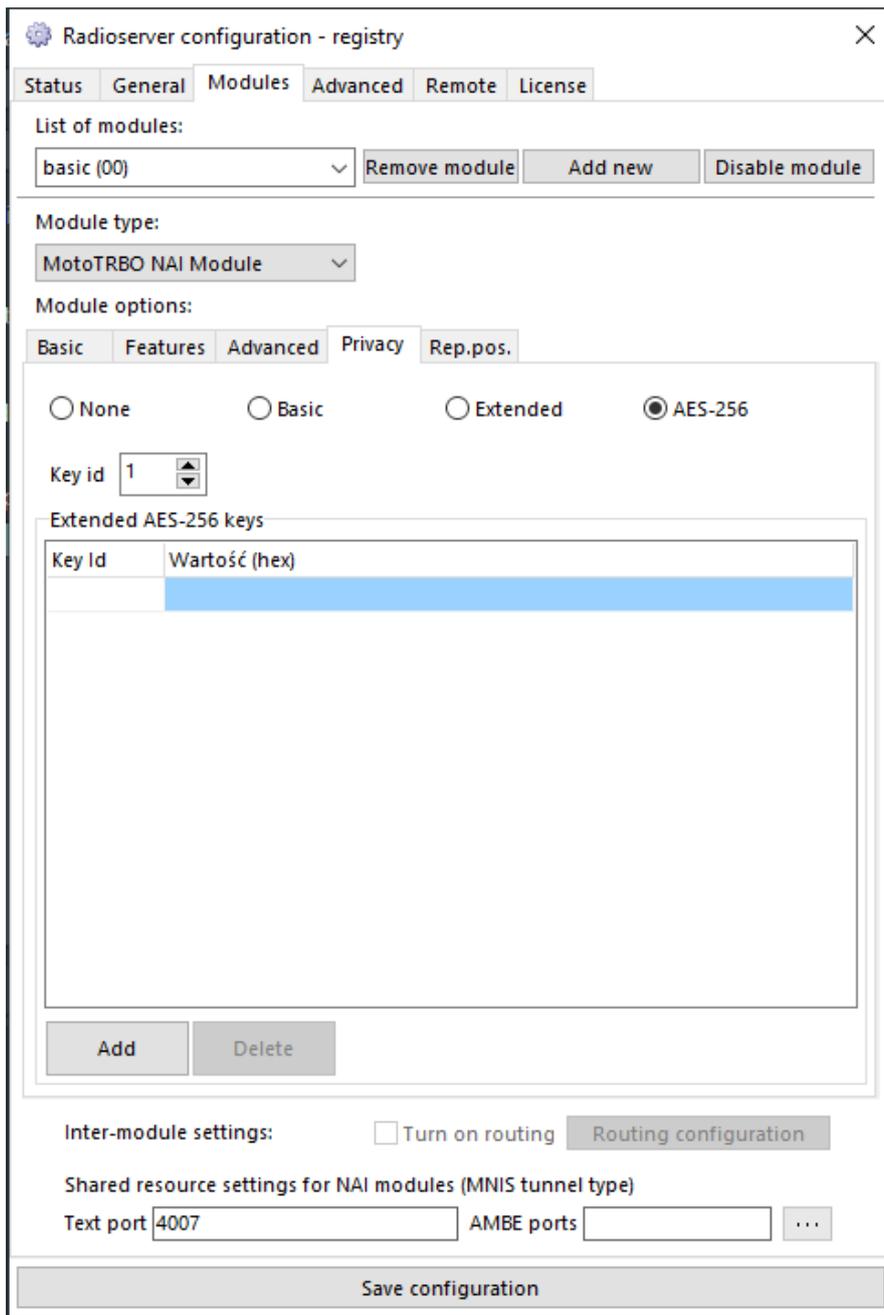
50015

Save configuration

Fig. 3. 6 System configuration

For correct operation of the Capacity MAX system:

- Fill in the **VRC Gateway IP address, MNIS IP address, Trunk controller Host, Presence Notifier, System ID.**
- In the **Recorder** tab enter **Recorder console ID, range of private radio, number of groups** that will be used in the system.



Radioserver configuration - registry

Status General **Modules** Advanced Remote License

List of modules:
 basic (00) Remove module Add new Disable module

Module type:
 MotoTRBO NAI Module

Module options:
 Basic Features **Advanced** Privacy Rep.pos.

None
 Basic
 Extended
 AES-256

Key id 1

Extended AES-256 keys

Key Id	Wartość (hex)

Add Delete

Inter-module settings: Turn on routing Routing configuration

Shared resource settings for NAI modules (MNIS tunnel type)
 Text port 4007 AMBE ports ...

Save configuration

Fig. 3. 7 Privacy configuration

If the radio system has an extended privacy key configured, go to the **Privacy** tab (Figure 3.7) and complete the required information.

After completing the configuration of the radio server, press the **Save settings** button.

When installing the demo version, the window for generating a temporary license (Section 4 - Radio server license) will be opened in the next step.

The system service: **Aksel - SckClient** is responsible for the functions of the radio server.

Radio server license

ConSEL can be licensed as follows:

- **Demonstration license** - to generate such a license, select the demo option next to the licensing version during installation (Fig. 3.1) and fill in the following information:

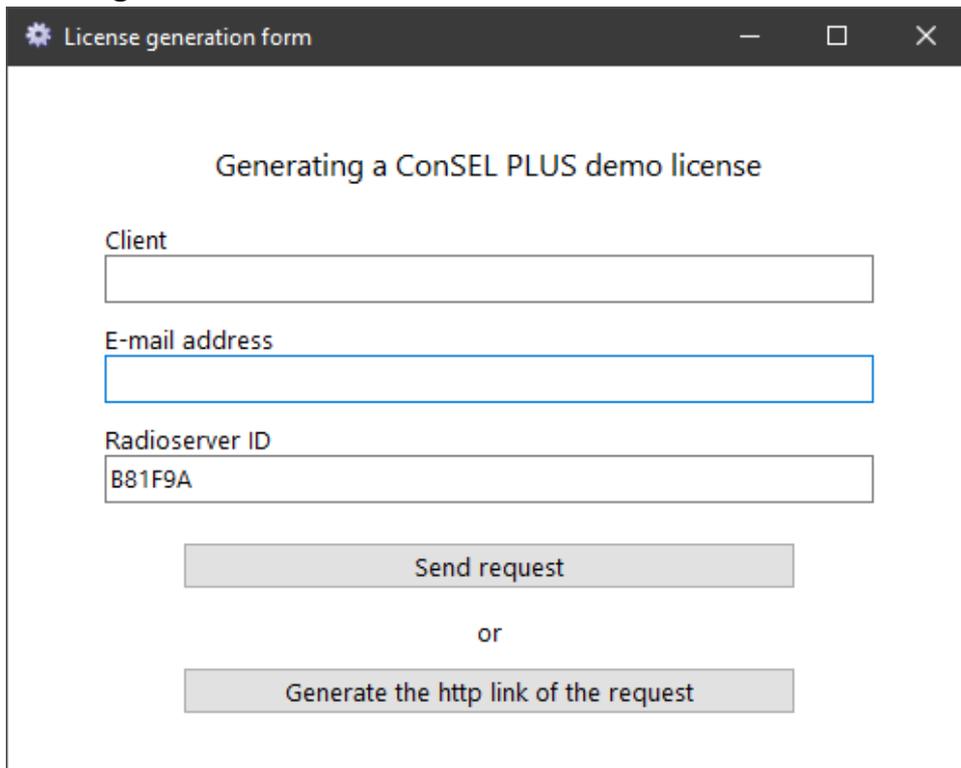


Fig. 4. 4 Demo license form window

If the radio server is connected to the Internet, press the **Send request** button. The demo license will be assigned to this computer.

If the radio server is not connected to the Internet, press the **Generate http link** of the request button. The link will be copied to the system clipboard. This link should be entered in the browser of a computer with Internet access. The file SckClient.nls2 will be downloaded and you need to copy it to the installation directory.

- **Purchased license files** - If the option *Load purchased license keys* was selected during installation, the window shown below will appear:

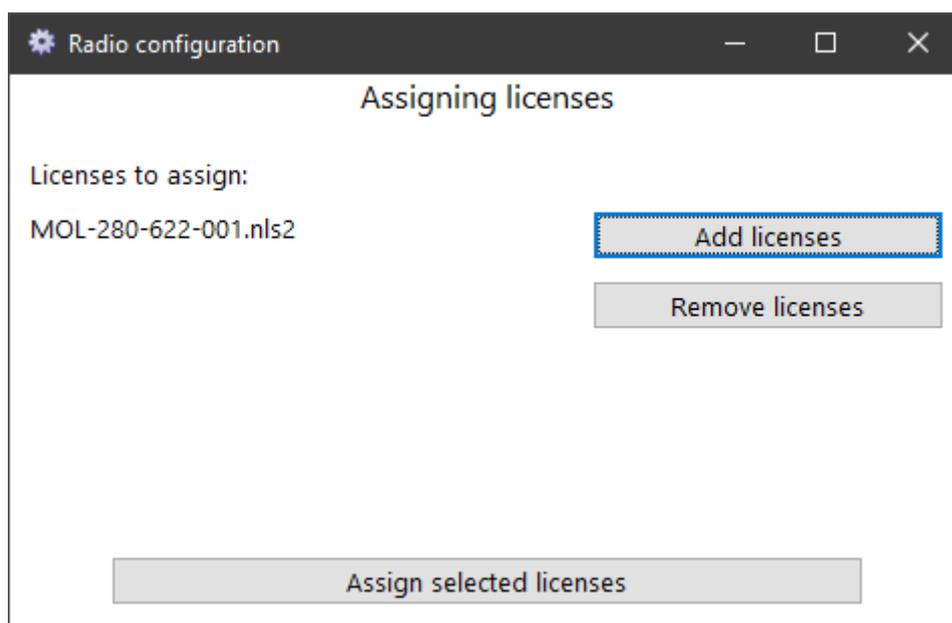


Fig. 4. 5 Assigning licenses form window

To add licenses, click the *Add licenses* button, a dialog box will open with the option to select previously downloaded licenses, several licenses can be selected at once. After selecting them, they will be displayed on the left side. To approve the licenses, it is necessary to click *Assign selected licenses*. A message will open with the result of the assignment, and then the window will close.

4. Installation of the ConSEL PLUS client (console)

The main *ConSELPLUSSetup.exe* installer allows you to install the radio server and the application client on a given device. Successful installation completion creates the *KlientConSELPLUSSetup.exe* file in the selected directory, which is used to install the ConSEL PLUS client itself.

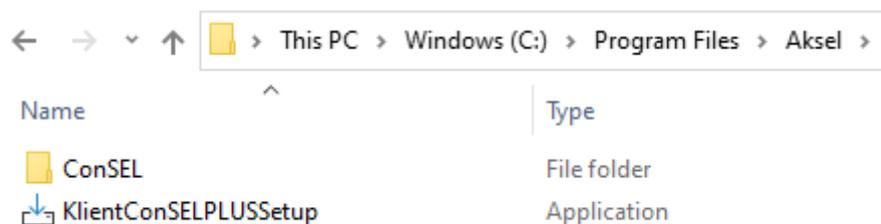


Fig. 5.1 ConSEL client installation file

The client installation file (Fig. 5.1) can be transferred to another device which is to have access to the ConSEL system. This file is also available at http://radioserver_address:5591/Klient.exe.

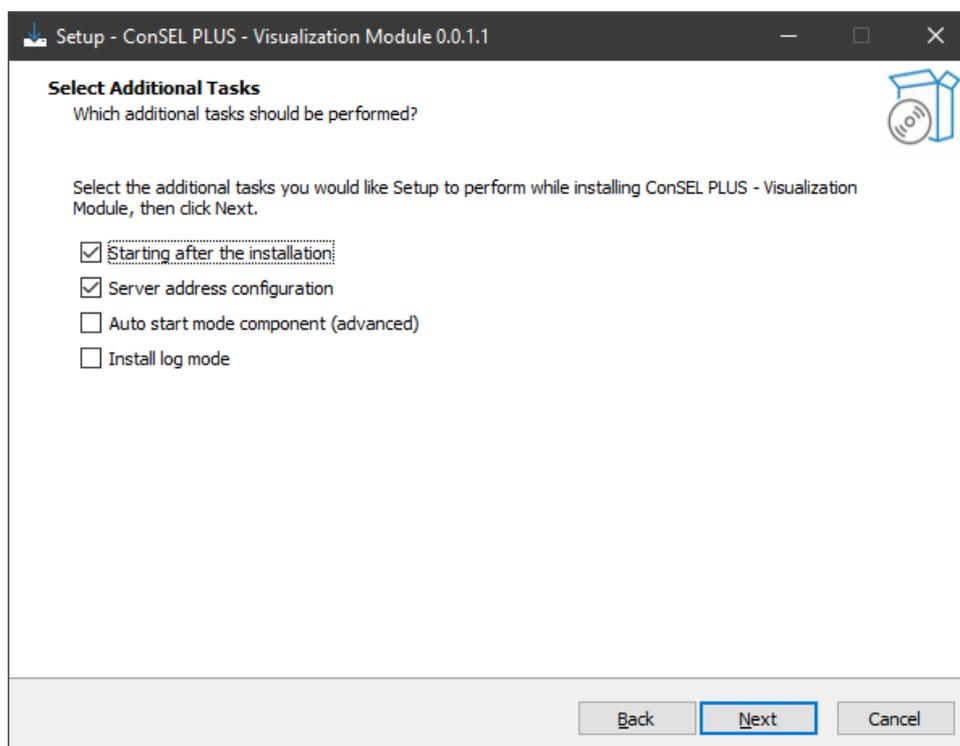


Fig. 5.2 Installation of the ConSEL client

When installing the client, you can select additional tasks:

- **Launch after installation** – ConSEL PLUS client will be launched after installation.
- **Server address configuration** - during the installation, the server address configuration window will be displayed.
- **Auto-run component (advanced)** - an option thanks to which the client application will be automatically launched at system startup and after it is shut down.
- **Install in login mode** - during the installation, a window with the configuration of the log server address will be displayed.

For example, after selecting the **Server address configuration** option, complete the configuration server address, which is located on the radio server (Fig. 5.3).

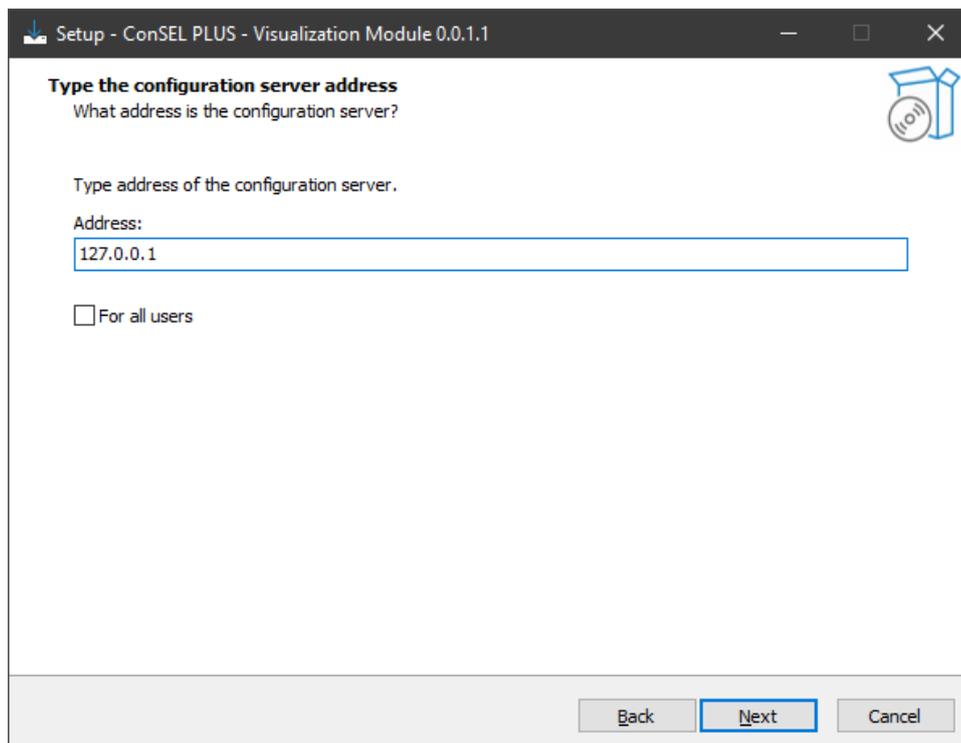


Fig. 5. 3 Configuration of the address of the configuration server

5. Console configuration

After installing ConSEL PLUS, a shortcut on the desktop will be created. After pressing it twice, the ConSEL PLUS system client will start.

In order for the system to work properly, the dispatcher's console must be additionally configured. The Console Administration window is available from the main program menu (Fig. 6.1).

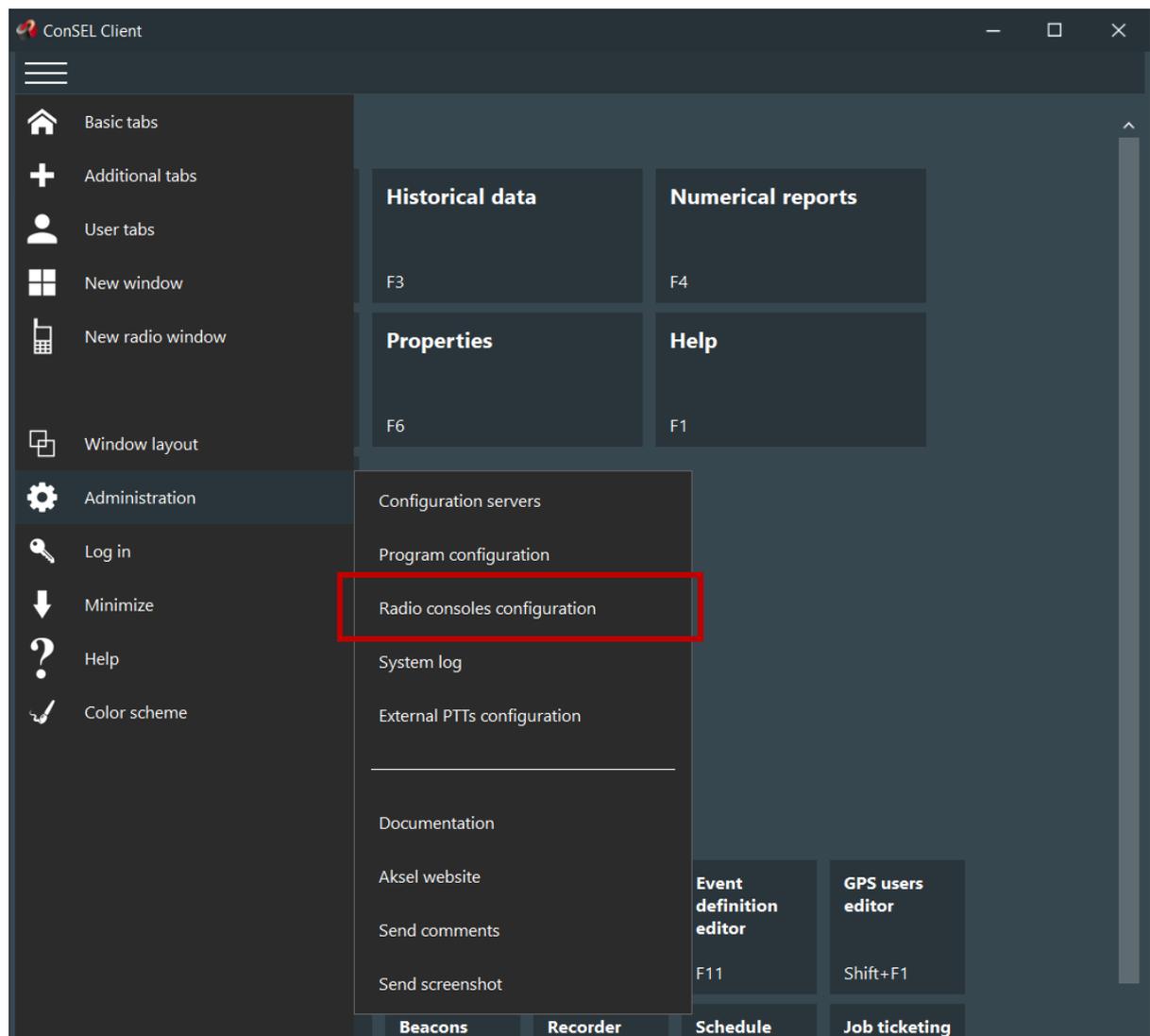


Fig. 6. 1 Configuration of radio consoles

Example:

For NAI console, you must configure **Virtual Radio ID** and groups **TX** and **RX**.

For Capacity Max, you must configure **Console radio ID, default talkgroup, individual voice call type.**

Emergency calls ‘Emergency’ - in order for the console to receive / confirm the emergency call, it is necessary to configure on NAI tab Alarm state: Receiving and Confirming.

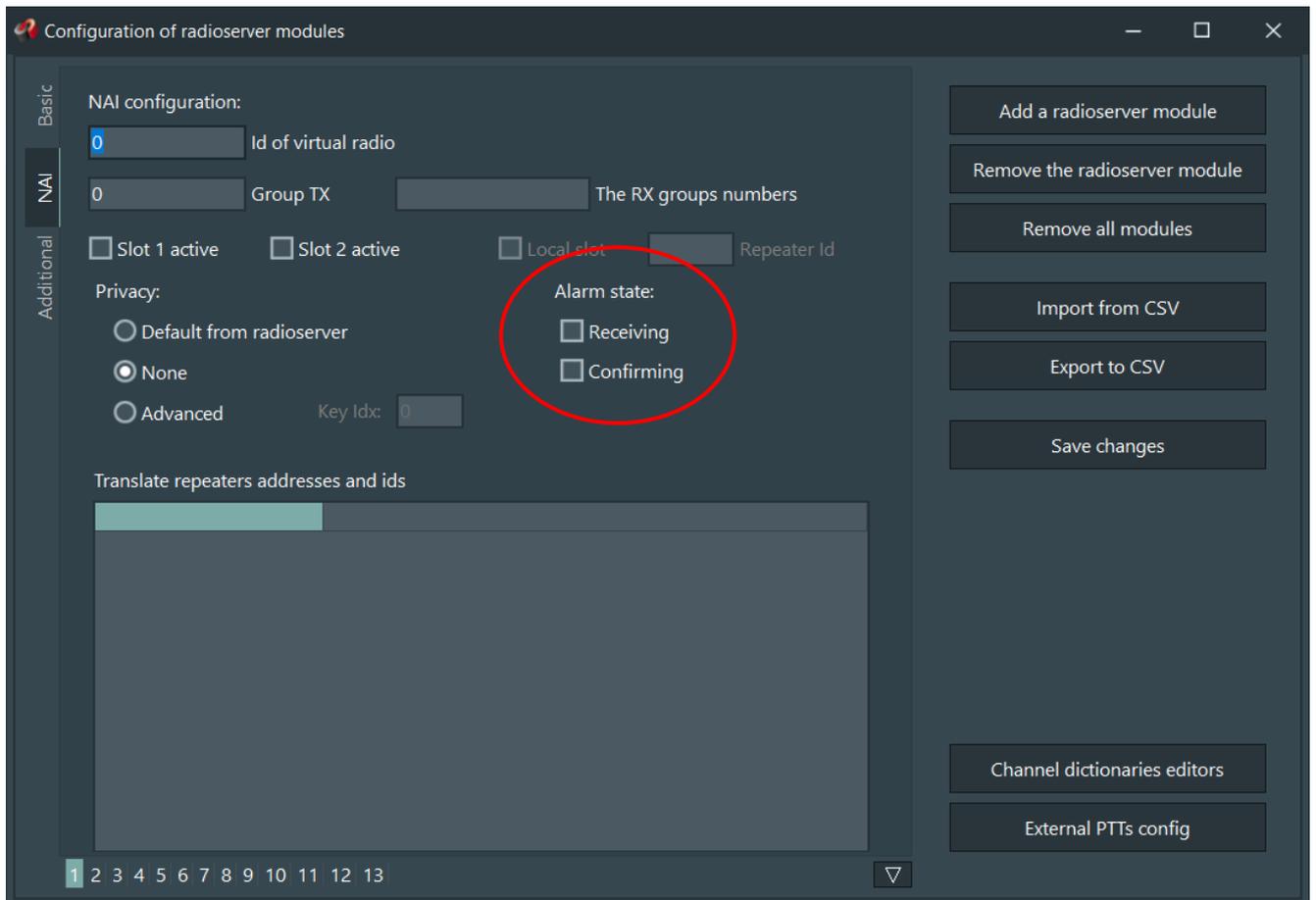


Fig. 6. 2 Configuration of radio consoles (Alarm State: Receiving / Confirming).

If we are configuring the Capacity Max system, the emergency state configuration window requires configuring only **receiving** emergency calls

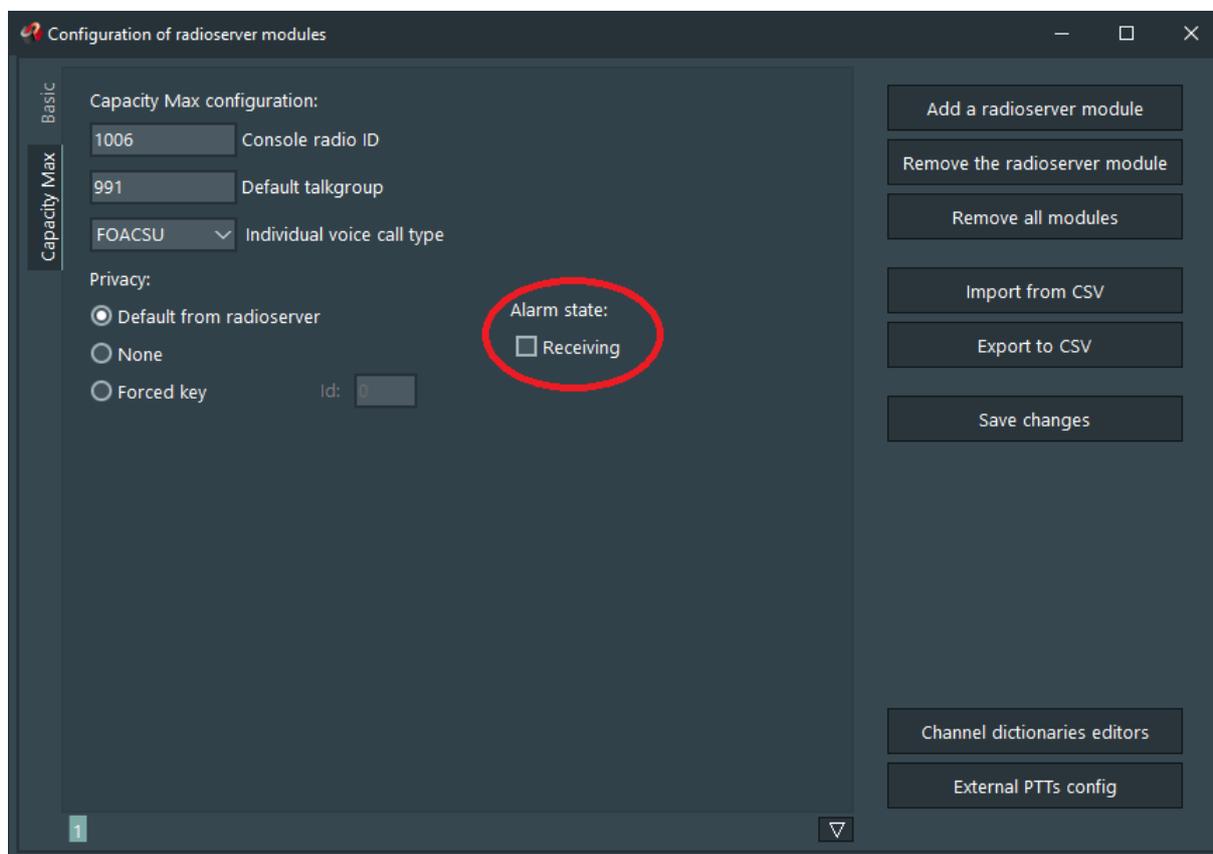


Fig. 6. 3 Configuration of alarm state for Capacity Max

6. Start-up - basic information

After installing the system and configuring the consoles / console, the system is ready for use.

- ConSEL client

All options of additional configuration (editors) and predefined tabs are available from the main menu of the program. Some of the functionality is transferred to the quick launch buttons on the main screen of the application (Fig. 7.1). The system also allows you to build your own tabs that meet the customer's needs.

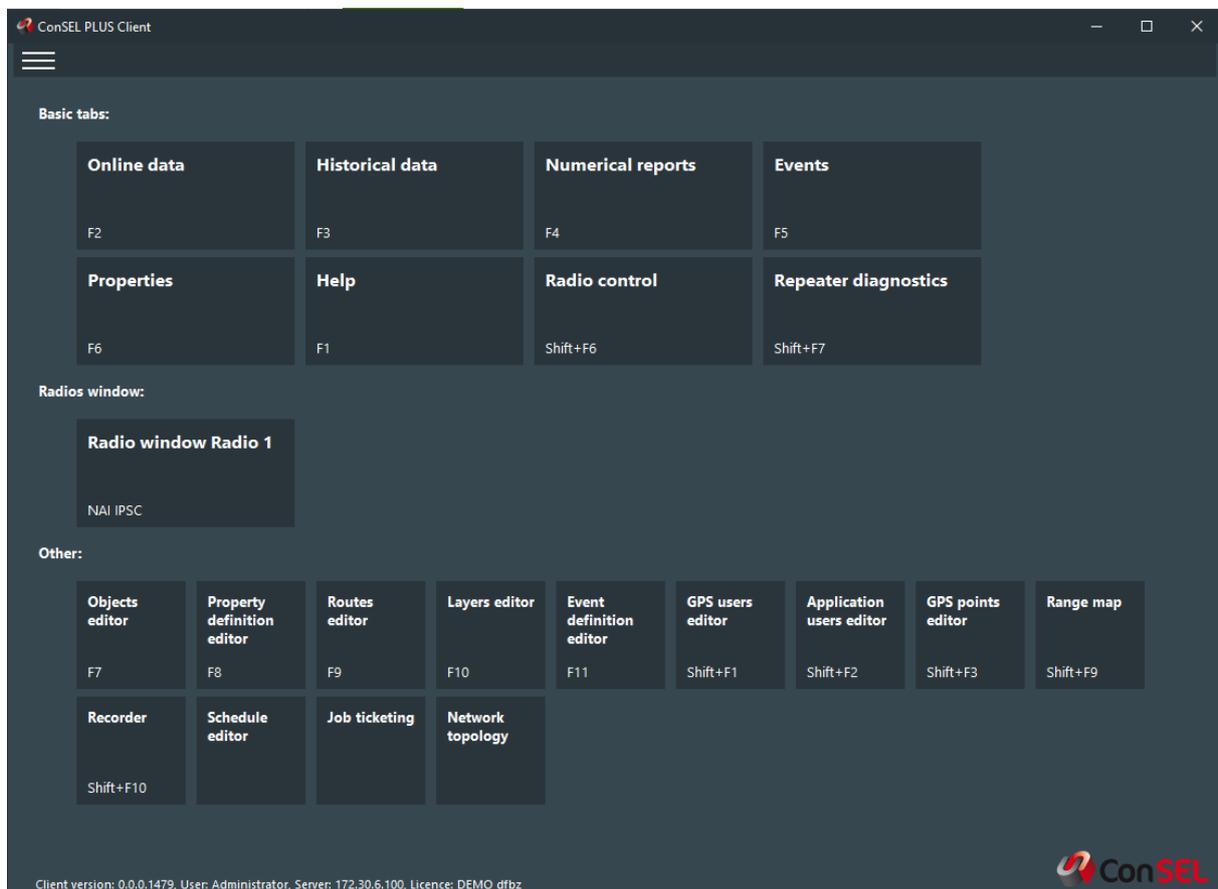


Fig. 7. 1 Home screen - quick launch buttons

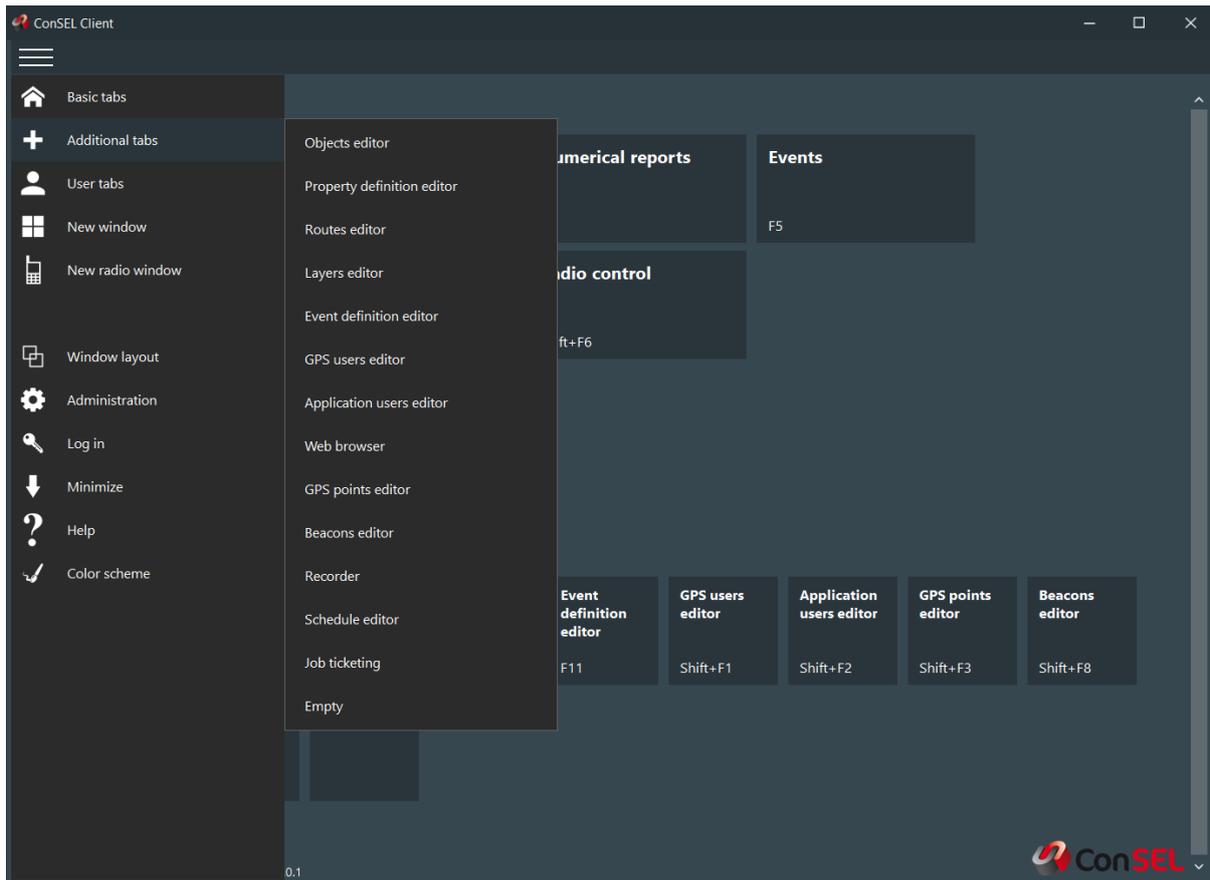


Fig. 7.2 Main menu - additional tabs

- Radio server

If there is a need to change the configuration of modules on the radio server, run the **Radio server configuration** program delivered with the installation, available in the **Start Menu**.

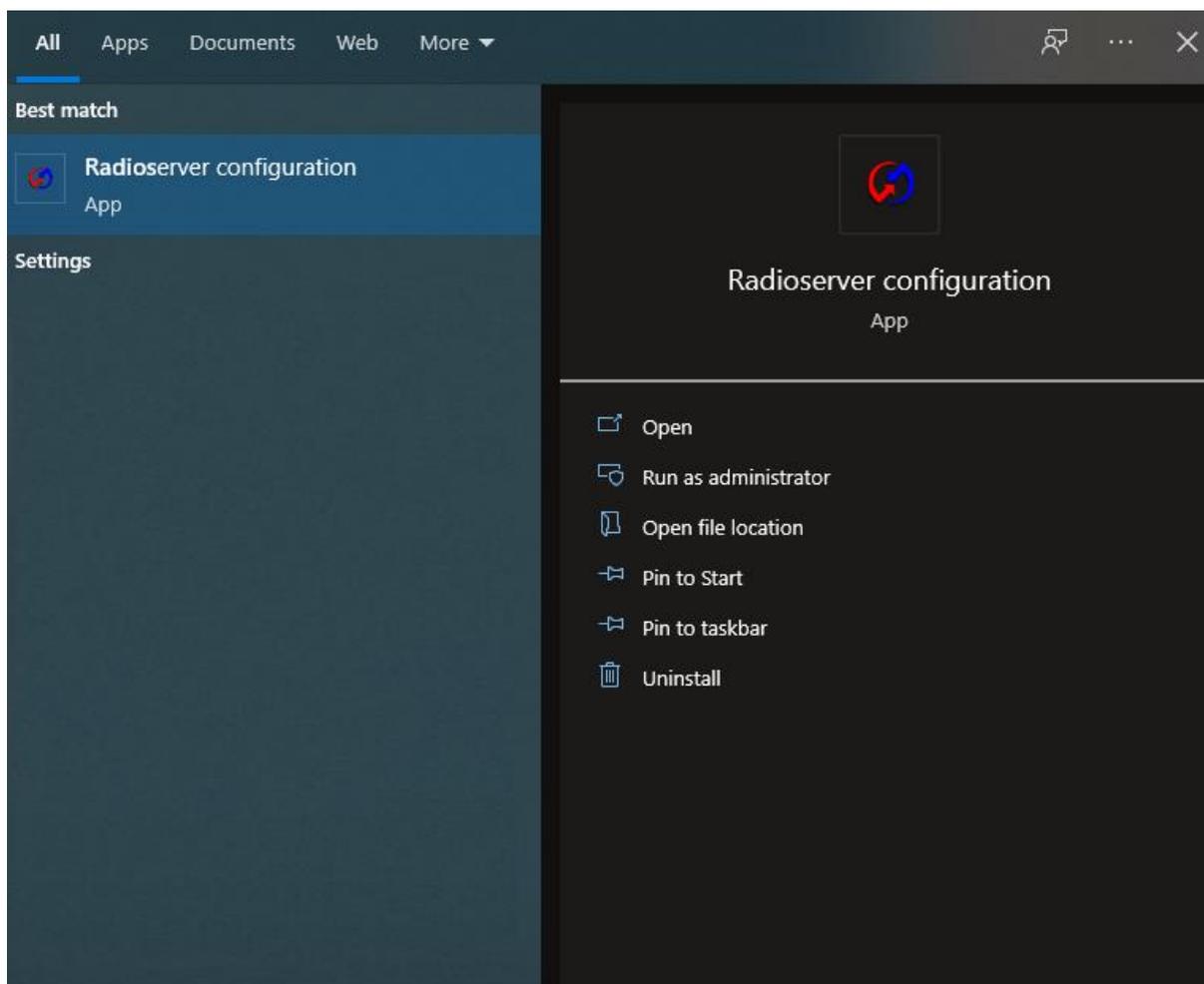


Fig. 7. 3 Radioserver configuration

7. Change log

Date	Changes	Author
12.04.2023	Added configuration of Capacity Max system	Jacek Holona