

# **ConSEL PLUS – Quick start**



System version: 7.x

Document version: 1.5



ul. Lipowa 17, 44-207 Rybnik





#### Content

1.	Introduction	4
2.	Hardware requirements	5
3.	Installation of ConSEL PLUS radioserver	7
4.	Installation of the ConSEL PLUS client (console)	15
5.	Console configuration	17
6.	Start-up - basic information	20
7.	Change log	22





This publication and its content are the property of Aksel Sp. z o.o. and may not be transferred, reproduced or published in whole or in part without the express written consent of the copyright owner. All other rights arising from the legal protection of intellectual property, including rights resulting from patenting or registration of a utility model, are also reserved. The information contained in this volume of documentation is not the basis for the completion of the delivery, which is each time agreed upon in the content of the relevant commercial agreement. The content of the documentation is correct at the time of issue. We reserve the right to introduce changes resulting from technical progress.





#### 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			
СРИ	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			

Recomended 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

🚣 Setup - System ConSEL PLUS v0.0.0		-	□ ×
Choose installation versions Installation version determines how the application is licensed.			(no)
<ul> <li>Load purchased license keys</li> <li>Demo version</li> <li>Install without license, later configuration required</li> </ul>			
	<u>B</u> ack	<u>N</u> ext	Cancel

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).





Select Components Which components should be installed?	(III)
Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.	
ConSEL PLUS - Radioserver NAI	$\sim$
ConSEL PLUS - Radioserver NAI ConSEL PLUS - Redundancy radioserver ConSEL PLUS - Other configurations Dispatcher client	
Back Next C	Cancel

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).





🚣 Setup - System ConSEL PLUS v0.0.0				×
Select Additional Tasks Which additional tasks should be performed?				
Select the additional tasks you would like Setup to perform while in then click Next.	nstalling System	n ConSEL PLUS vi	0.0.0,	
Raster map calibration module				
	<u>B</u> ack	<u>N</u> ext	Ca	ancel

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).





WAI configuration								
Basic	Features	Advanced	Privacy	Rep.pos.	Rec. ou	tside		
Radio s	Radio system Master IP Address Port Local port							
IPS	● IPSC 50000							
ОСР		Peer ID	Au	thent Key				
OCP	MultiSite	945						
0.		Dedicated AN	/IBE ports					
	ĸ							
MNIS m	node: 🔿 d	lirect connect	tion	() tur	nnel (netv	vork interf	ace)	
ARS mo	Dort	luto	⊖ Ma	nual	nst	Por	+	
	4005				27.0.0.1	30	00	
Determ				Tert				
Data po	orts:							
Locatio	n 4001				common	≥кес	. gr. mess	•
GO	B 4004/44	144		0	independ	ler Text ID		
Telemetr	y 4008			7	4007			
				_				_
			Save co	onfiguratio	n			

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 Advance	d 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	$\sim$					
Presence Notifier IP Address Port 50015						
	Save cor	nfiguratior	า			

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 Modu	les Advanced Remote License					
List of modules:						
basic (00)	Remove module Add new Disable module					
Module type:						
MotoTRBO NAI Module	$\sim$					
Module options:						
Basic Features Adv	anced Privacy Rep.pos.					
⊖ None ⊂	) Basic 🔿 Extended 💿 AES-256					
Key id 1 🚔						
Extended AES-256 keys						
Key Id Wartość (h	nex)					
Add Del	ete					
Inter-module settings: Turn on routing Routing configuration						
Shared resource settings for NAI modules (MNIS tunnel type)						
Text port 4007	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:

🏶 License generation form 🦳 —	×
Generating a ConSEL PLUS demo license	
Client	1
E-mail address	,
Radioserver ID	1
B81F9A	
Send request	
or	
Generate the http link of the request	

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:





🏶 Radio configuration			—		×		
	Assigning license	es					
Licenses to assign:							
MOL-280-622-001.nls2			Add lice	enses			
		F	Remove li	icenses			
Assign selected licenses							
	2						

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.



ConSEL PLUS

### 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.

🚣 Setup - ConSEL PLUS - Visualization Module 0.0.1.1		—		
Select Additional Tasks Which additional tasks should be performed?			(In the second s	,
Select the additional tasks you would like Setup to perform while Module, then click Next.	installing ConSEL PLU	JS - Visualiza	ition	
✓ Starting after the installation				
Server address configuration				
Auto start mode component (advanced)				
Install log mode				
	<u>B</u> ack	<u>N</u> ext	Cancel	

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).

🚣 Setup - ConSEL PLUS - Visualization Module 0.0.1.1		-	
Type the configuration server address What address is the configuration server?			(In the second s
Type address of the configuration server.			
Address:			
127.0.0.1			
For all users			
	<u>B</u> ack	<u>N</u> ext	Cancel

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).

🔏 Con	SEL Client					-	×
♠	Basic tabs						^
+	Additional tabs	Historical dat	ta	Numerical repo	orts		
-	User tabs						
	New window	F3		F4			
	New radio window	Properties		Help			
⊕	Window layout	F6		F1			
٥	Administration	Configuration serve	ers				
٩	Log in	Program configura	tion				
¥	Minimize	Radio consoles con	figuration				
?	Help	System log					
4	Color scheme	External PTTs config	guration				
		Documentation					
		Aksel website		Event definition	GPS users editor		
		Send comments		editor			
		Send screenshot		F11	Shift+F1		
		Beacons	Recorder	Schedule	Job ticketing		

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.

🥠 Co	nfiguration of radioserver modules		– 🗆 X
Basic	NAI configuration:		Add a radioserver module
NAI	0 Group TX	The RX groups numbers	Remove the radioserver module
nal	Slot 1 active	Local slot	Remove all modules
Additio	Privacy: O Default from radioserver	Alarm state:	Import from CSV
	O None		Export to CSV
	O Advanced Key Idx: O		Save changes
			Channel dictionaries editors
			External PTTs config
	1 2 3 4 5 6 7 8 9 10 11 12 13		

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

🔏 Coi	nfiguration of radioserver modules		- 🗆 X
Capacity Max Basic	Capacity Max configuration:   1006 Console radio ID   991 Default talkgroup   FOACSU Individual voice call type   Privacy: O Default from radioserver   O None Forced key   Id Id	Alarm state:           Receiving	Add a radioserver module         Remove the radioserver module         Remove all modules         Import from CSV         Export to CSV         Save changes         Channel dictionaries editors         External PTTs config
	-	V	

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.

4 ConSEI	L PLUS Client										-		×
$\equiv$													
Basic	tabs:												
	Online data		Historical data	a	Numerical repo	orts	Ev	ents					
					F4		F5						
	Properties		Help		Radio control		Repeater diagnostics		ostics				
	F6		F1		Shift+F6		Shif	t+F7					
Radio	s window:												
	Radio windo	w Radio 1											
	NAI IPSC												
Other													
	Objects editor	Property definition editor	Routes editor	Layers editor	Event definition editor	GPS users editor		Application users editor	GPS poir editor	nts	Range map		
	F7	F8	F9	F10	F11	Shift+F1		Shift+F2	Shift+F3		Shift+F9		
	Recorder	Schedule editor	Job ticketing	Network topology									
	Shift+F10												
Client v	ersion: 0.0.0.1479, Us	er: Administrator, Se	erver: 172.30.6.100, Lice	nce: DEMO dfbz							Co	nS	EL

Fig. 7. 1 Home screen - quick launch buttons





🔏 Con	SEL Client										×
â	Basic tabs										^
+	Additional tabs	Objects editor	umerical repo	rts	Events						
-	User tabs	Property definition editor									
	New window	Routes editor			F5						
	New radio window	Layers editor	dio control								
		Event definition editor									
Ф	Window layout	GPS users editor	ft+F6								
٥	Administration	Application users editor									
٩	Log in	Web browser									
ŧ	Minimize	GPS points editor									
?	Help	Beacons editor									
4	Color scheme	Recorder	Event	GPS users	Appl	ication	GPS poin	ıts	Beacons		
		Schedule editor	definition editor	editor	users	s editor	editor		editor		
		Job ticketing	F11	Shift+F1	Shift	+F2	Shift+F3		Shift+F8		
		Empty									
		0.1						(		nSE	v

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	Jacek Holona
	Capacity Max system	

