

TECHNICAL



ACCESS CONTROL

OPTIMAWi



INSTRUCTIONS

Acknowledgement

Dear customer,

*You have just bought **OPTIMA Wi** access management software, created by the French company EDEN INNOVATIONS.*

The entire EDEN INNOVATIONS team would like to thank you for your interest as well as your confidence in our security solution.

We hope that you will be completely satisfied with the level of security it provides for your company's premises.

Should you have any comments, please contact us via our web site at

www.eden-innovations.com

*The **EDEN INNOVATIONS** team.*

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1- OPTIMA Wi® specifications

The OPTIMA Wi® software exists in four editions:

References	Description
OPTIMA Wi Lite version	License for up to 6 readers + OPTIMA 360, ONE Safe, ONE View
OPTIMA Wi Pro DONGLE 40 version	License for 40 readers + activatable modules
OPTIMA Wi Pro DONGLE 100 version	License for 100 readers + activatable modules
OPTIMA Wi Pro DONGLE 500 version	License for 500 readers + activatable modules

The OPTIMA Wi® software license is in the form of an electronic card called a “**Dongle**” which plugs into the motherboard of one of the installation’s connected central units.

Only OPTIMA Wi® dongles are compatible with OPTIMA Wi® software.

Communication between the OPTIMA Wi® software and the control units is maintained for 7 days in the event of disconnection of the control unit containing the dongle.

After this time, the software switches to degraded mode.

The OPTIMA Wi® software also goes into degraded mode if the Dongle is missing from the connected control unit.

Degraded mode:

- The OPTIMA Wi® software interface is accessible
- OPTIMA Wi® software communication with the control units is interrupted
- The central units continue to operate in autonomous mode, with access granted according to the rights registered in each central unit.
- Central automation systems remain functional

Any anomaly is notified in the OPTIMA Wi® main interface (see part 4: Dongle Status).

1.1 OPTIMA Wi® Lite version

- Installation with up to 6 readers
- No dongle required
- Pre-activated OPTIMA 360, ONE Safe, ONE View modules

1.2 OPTIMA Wi® Pro version

- Installation with up to 40/100/500 readers depending on the version of the dongle associated with a connected central unit of the installation
- All modules can be activated individually

1.3 Installing the program

The installer installs all the components needed to run the application, namely:

- The server application
- The MariaDB database engine

The Windows OPTIMA Wi service (OPTIMA Wi Service) is created and starts automatically on the server station.

To download the full software, please log in to the site:

<https://www.eden-innovations.com/connexion>

Updates are available on the site:

https://optimabox.fr/fr/Optima_Installable/runtime.html



Full installation of the OWi program requires an active Internet connection.

Note that MariaDB can be installed individually (version 10.6.18.0 maximum).

1.4 Using the application

The various user manuals necessary for using the OPTIMA Wi® application are available online.

- [OPTIMA Wi® – Installer guide](#)
- [OPTIMA Wi® – User guide](#)

The **OPTIMA Wi v x.x.x.exe** installer includes the server application.

Client workstations need an Internet browser with access to the OPTIMA Wi® server (Mozilla Firefox browser recommended).

1.5 Computer requirements (Server)

The server is designed to work with PC-type computers using an appropriate Windows operating system as described in “Operating System Requirements”.

- 64-bit dual-core processor of type AMD64 or INTEL64
- 8 GB of RAM (and more for large installations)
- 20 GB of free hard disk space recommended (and more for large installations)
- 1 Ethernet port for network connection and software update via Internet connection

1.6 Operating system requirements

The OPTIMA Wi® server has been tested and validated on the following operating systems:

- Windows® 10
- Windows® 11
- Windows® Server 2019
- Windows® Server 2022

1.7 Third-party software installed

MariaDB software is installed for database management.

1.8 Communication of data

The OPTIMA Wi software requires:

- An http connection (port 8080 by default) to access the OPTIMA Wi administration interface or an https connection (port 443 by default) to access the OPTIMA Wi administration interface in secure mode
- TCP/IP communication to connect EDEN Innovations control panels (port 10001 by default)
- http and TCP/IP communication with third-party hardware (video recorders, alarm control devices, etc.) if necessary

2- Installation of the software

You must be logged in as an administrator to install the OPTIMA Wi® software,

Run the OPTIMA_Wi v x.x.x.exe file, then follow the instructions displayed on the screen.

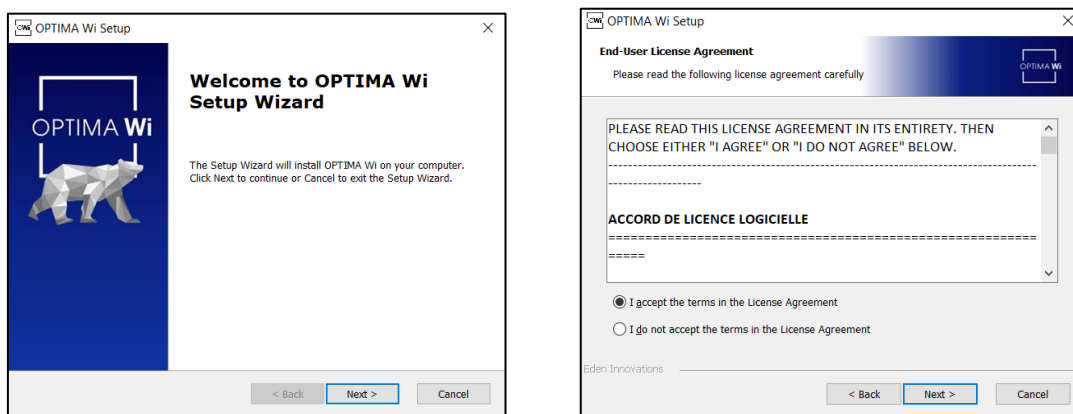


Fig. 1 Accept the license agreement after reading it.

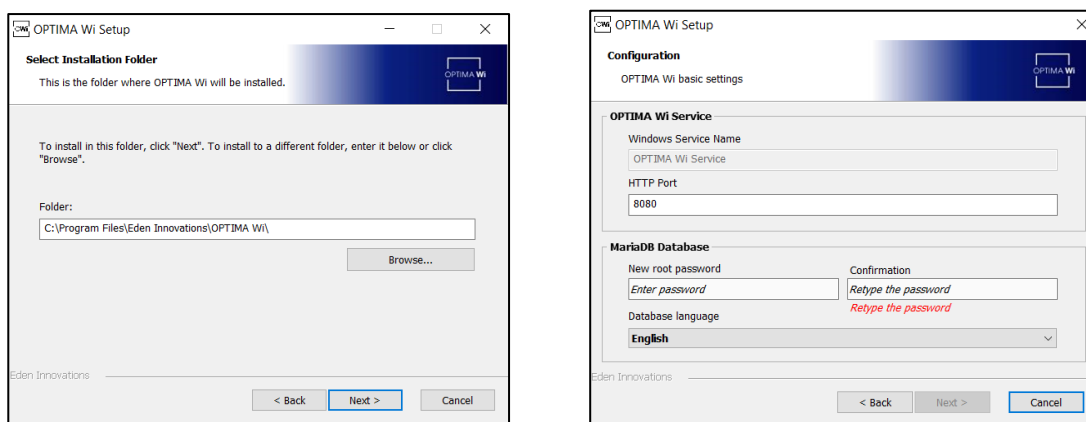


Fig. 2. Choice of installation directory.

Fig. 3. Choice of MariaDB port and password,
Database language.



The root password must not contain accented characters.

An uppercase character is required.

The root password must be kept by the administrator.

It is required in the event of a software installation with an existing OPTIMA Wi® database.

Port: Enter the communication port (8080 by default) giving access to the software graphical interface.

Root password: Enter a password to access the database.

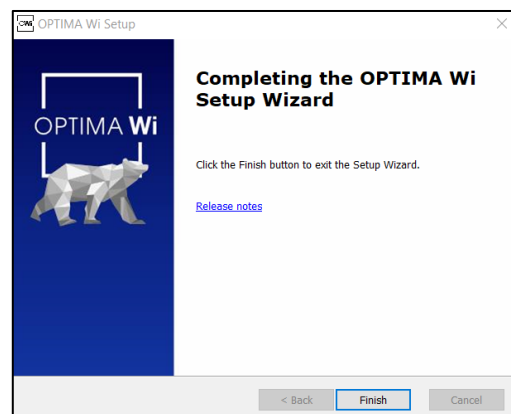
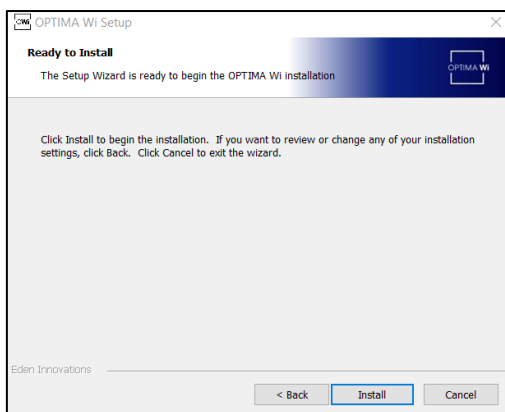


Fig. 4. End of installation.

The OPTIMA interface opens automatically at the end of the installation.

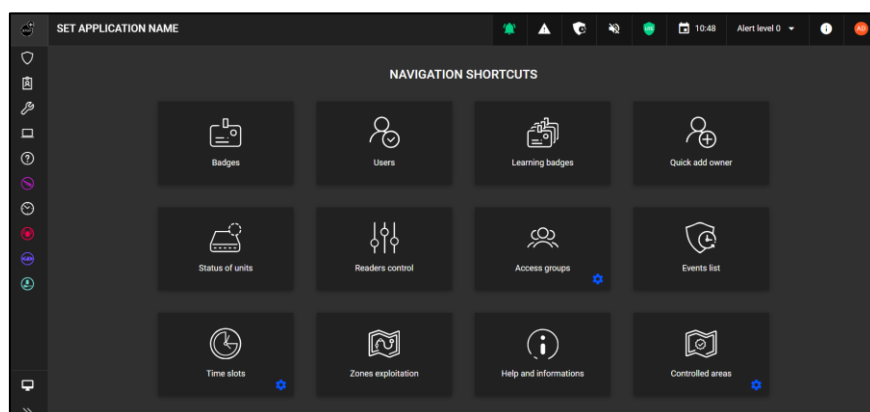


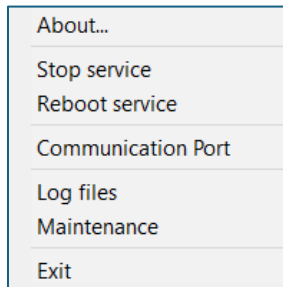
Fig. 5. OPTIMA Wi® Interface.

3- OPTIMA Controller

The OPTIMA Controller software allows you to manage your OPTIMA Wi® application.

Available in the Windows taskbar notification area , this utility runs in the background on the PC which hosts the server part of OPTIMA Wi®.

3.1 The OPTIMA Controller menus



- **About ...:** Version of OPTIMA Controller and OPTIMA Wi®
- **Stop service:** Stop/Start the service if it is running (available if logged in in administrator mode)
- **Restart service:** Restart the service if it is running (available if logged in in administrator mode)
- **Communication port:** Edit the communication port for access to the web interface (8080 by default, available if connected in administrator mode)
The port is 443 in https connection. It is not editable in this case.
- **Log files:** Open the directory containing the logs
- **Maintenance:** Maintenance page (available if logged in in administrator mode)
The maintenance features are protected by an activation key for security reasons.
- **Exit:** Stop the software, with the possibility of stopping the OPTIMA Wi® service (available if connected in administrator mode)

Note: To operate on connected menus in administrator mode, the program must also be run as administrator.

3.2 The OPTIMA Controller software status

Locate the OPTIMA Controller software icon in the task area:



Indicates that the OPTIMA Wi® service is running



Indicates that the OPTIMA Wi® service is stopped

3.3 Behavior on PC restart

The OPTIMA Controller service starts automatically when Windows starts.

4- Use of the dongle

4.1 Dongle installation

To activate the license, you must install a dongle on one of the central unit in your installation (see the “*Dongle Installation*” chapter in the central unit instructions).

4.2 Dongle information

The following information is provided by clicking on the icon  at the top of the OPTIMA Wi® interface:

- License type
- Presence of the dongle
- Name of the control unit to which the dongle is connected
- General informations

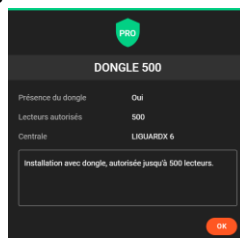


Fig 6. Dongle 500 version.

Depending on the connection status of the dongle, the interruption of communication of the OPTIMA Wi® software with the controllers is interrupted (degraded mode) according to the situations described below.

4.2.1 Interruption of immediate communication (degraded mode)

- If the controllers which is connected to the dongle is put “Offline”
- If the dongle is removed from the controllers to which it is connected
- If the dongle version is not suitable for the number of readers

In these cases, communication between the OPTIMA Wi® software and the control units is interrupted immediately.

4.2.2 Communication interruption after 7 days

- If the controller which is connected to the dongle is in “Disconnected” status,
- If the controller which is connected to the dongle is in “Network unavailable”

In these cases, communication between the OPTIMA Wi® software and the control units is interrupted after 7 days, with a warning of the number of days remaining.

After this period, the installation goes into degraded mode.

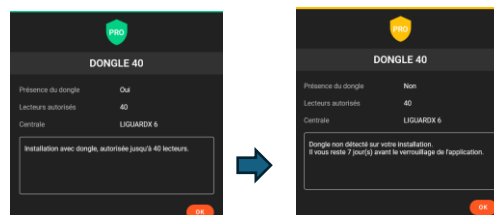


Fig 7. 7 days remaining before switching to degraded mode after loss of connection with the control unit containing the dongle.

4.3 Displaying absence notifications

The absence of the dongle and potential anomalies lead to warnings in the OPTIMA Wi® interface.

4.3.1 Information status

In the event of an anomaly regarding the use of the dongle, the logo changes appearance in the horizontal notification bar of the OPTIMA Wi® interface.



Details are provided by clicking on the dongle notification.



Fig 8. Dongle-free installation with more than 6 readers.

4.3.2 Disconnection information

The “Dongle disconnected” notification appears if the dongle is missing.



Fig 9. The dongle is not detected.

4.3.3 Connection/disconnection event

In the list of events, “Dongle Disconnect” appears when the dongle is no longer detected on the controller.

When the dongle is detected again, the “Dongle Connection” event appears.

5- Backups

The OPTIMA backup directory is located at:

`C:\ProgramData\OptimaData\optimal\sauvegards`

6- Reverse proxy

It is possible to connect a proxy with OPTIMA Wi®.

7- Maria DB port change

To change the Maria DB port (**3306** by default), please modify the database.json configuration file located at:

C:\Program Files\Eden Innovations\OPTIMA Wi\Services\ServiceCore\Configurations

with the following parameter (in red):

```
"ConnectionString": "server=@IP_du_serveur;port={Port_MariaDB},database=optima;User  
Id=root;password={mdp_MariaDB};CharSet=utf8;"
```

Please restart OPTIMA Wi to take the new parameters into account.

8- Remote connection to the database

The database connects by default locally on the server workstation.

To connect a MariaDB database on a remote workstation, please modify the database.json configuration file located at:

C:\Program Files\Eden Innovations\OPTIMA Wi\Services\ServiceCore\Configurations

with the following parameters (in red):

```
"ConnectionString": "server=@IP_of_server;port={Port_MariaDB},database=optima;User  
Id=root;password={mdp_MariaDB};CharSet=utf8;"
```

Please restart OPTIMA Wi to take the new parameters into account.

9- Uninstalling the software

Uninstalling the OPTIMA Wi® software leads to the deletion of the software.

As the MariaDB database management system is not deleted from the PC, the current installation is retained.

The Root password used previously is required to connect to the existing database.



Manually removing MariaDB deletes the existing database.

All data is permanently deleted.

It is strongly recommended to save the last backup of your installation on external media.



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