LockyMonitor-3

1. Short description

LockyMonitor-3 is a Windows application for management of access controllers *Locky-Bx*, ACT210, *TeraLock* - enable/disable active RFID tags, change operating modes, store data from controllers and more.

To be able to work with the program, *Locky-Bx*, *ACT210* and *TeraLock* controllers must have firmware version v4.00 and higher.

LockyMonitor-3 is a free to use and distribute program. The copyright is owned by Teracom Ltd.

2. Installation

The standard installation is made by starting *LockyMonitor-3-setup-en-v3.0.8613*. The installation starts with a double click. Follow the helper's instructions. By default, the program is installed in the directory C:\Program Files \Teracom Ltd\LockyMonitor-3, which can be changed. After the installation is complete, a shortcut has been created to launch the program on the desktop.

The installation of the program begins with a check for installed .Net Framework v3.5! If there is none, the wizard starts installing the .Net Framework v3.5 first

After the .Net Framework v3.5 is successfully installed, the *LockyMonitor-3* installation is started again.

In order for the program to communicate with the controllers, a USB/TTL converter interface cable is used. The *ACT210* connects directly via the RS232 standard.

3. Operating

3.1. Connecting device to the computer

The controller to be operated must be connected to a USB port on the computer via a USB/TTL converter cable. *ACT210* connects to a COM port.

Locky-Bx controller is powered via the computer's USB port. *Teralock* controller and *ACT210* must be powered from another source.

Double click on *LockyMonitor-3* icon to start the program.

To set the controller in communication mode, put the service tag in the antenna range.

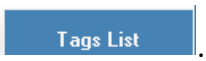
Yellow LED will turn on for *Locky-Bx* and *ACT210*.

Both Red and Green LEDs will turn ON for *Teralock*.

By clicking on 

button, the program will start scanning the computer's COM ports and looking for a connected device. When a device is found, its parameters will be displayed in the information fields next to the button. The program constantly monitors the status of the connection with the controller and displays information in the "Status" field in the upper left corner of the window.

3.2. Adding new RFID tags

The tab "Tags list" should be chosen by button 

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The memory of controllers is read by button "Read from controller". Wait until information for all tags is downloaded.

The rows should look like:

	Positic	Card ID	Acces	Field1	Field2	Counter	E1	E2	E3	E4	E5	E6	E7	E8
☑	1					0	☑	☐	☑	☐	☑	☐	☑	☐
☑	2					0	☐	☑	☐	☑	☐	☑	☐	☐

Fields E1÷E8 are opened by pressing the "Show extended fields" button and serve to control the additional relay outputs when using a Teralock-M expander. A marked output has the status "Enabled".

When "Read tag" button is pushed, there is a green marker on the first free row. First tag, put in the antenna range, is written on this position. The green marker goes on the next free position. By default, new added tags are with status "Enabled" - .

The procedure for adding tags can continue until there is a free position.

The position for a new tag can be chosen either automatic (as described above) or by double click on the appropriate position. The green flashing bar will move to the selected row.

The program will show the message if memorized tag is put in the range of antenna.

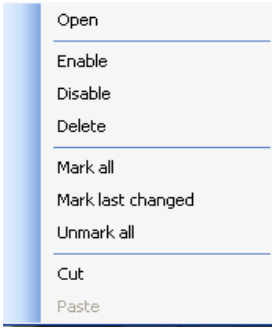
After all new tags are added, the button "Accept" should be pressed. Cancelation of new tags adding can be done by pressing "Cancel".

3.3. Tag's status change

Tag's status can be change in two ways:

1 – right click on the position.

Menu with options will be open:



2 – double left click on the position.

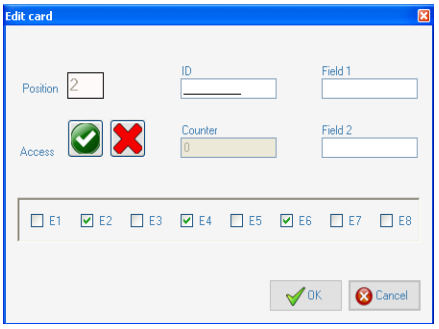
New window is open.

Fields E1÷E8 serve to control the additional relay outputs, when using a *Teralock-M* expander.

A marked relay output has the status "Enabled".

For each position there are two additional fields "Field1" and "Filed2", which are saved only in the computer. This information is not memorized to the controller.

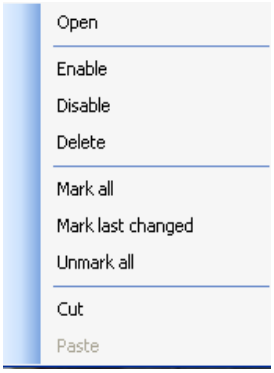
To save changes, button "OK" should be pressed.



3.4. Write the changes in the controller's memory

After all changes are done, they should be written in the controller.

Right click on random position will open the next menu:



Either "Mark all" or "Mark last changed" should be chosen. Single position can be mark by click in check box in the beginning of the row. After this the button "Write to controller" should be pressed.

The process of memorizing is indicated by short flashes of the LEDs on the controller. Only the marked lines are saved.

After successful save, the program displays a "Write completed successfully" message.

If "Connection Failed" message is shown, check the connection and try again.

3.5. Counter mode and relay activation time

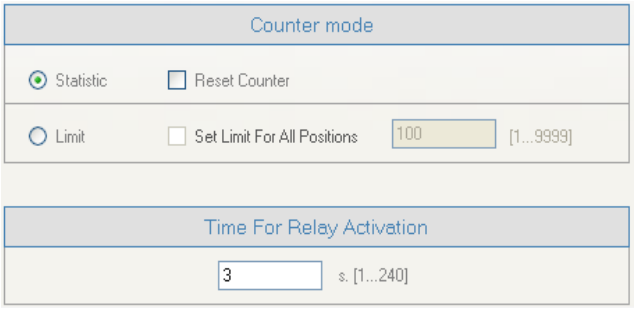
Access controllers *Locky-Bx*, *ACT210* and *TeraLock* can work in two counter reading modes – "Limit" and "Statistics".

In "Limit" mode for every tag number of uses is assigned. Every successful tag's reading decreases the counter. When the counter goes to 0, the tag's status goes to *"Disabled"*.

In "Statistic" mode every successful tag's reading increases the counter. This information can be used to count the number of passes of each tag.

The button 

opens following window:



Selecting "Statistic" and "Reset" all tag's counters will be reset.

When selecting "Limit" and "Set Limit for All Positions", a limit equal to the number entered in the field will be loaded. This limit will be for all items in the "Tags" sub window, regardless of whether they have a tag written to them or not. The maximum limit number can be 9999.

If only "Statistic"/"Limit" is chosen, the mode of counter is changed, without changing of values.

The time of relay activation is used in "Pulse" mode of controller. In this time NO and COM contacts are connected. Only valid tag activates the relay. The time can be from 1 to 240 seconds.

After all changes "Write to Controller" button should be pressed.

3.6. Writing a database

All data can be written to storage for future use by pressing "Save DB". New window is open with common explorer fields. A directory and file name must be selected.

By default, file's name is *"Device_xxxxxx_Data.xml"*, where xxxxxx is controller's ID. The name can be changed. The file format is XML and extension is *.xml. A message "Successfully saved database" will appear.

3.7. Open a database

The previous saved database can be opened with "Open DB". Information will be loaded in tab "Tags list". This information can be edited and saved in the controller's memory.

3.8. Import/Export

Using the "Export to HT500" button, the information can be saved in a file for use by the HT500 handy terminal.

The file is saved in *.txt format

Using the "Import from HT500" button, a file with information created by a handy terminal HT500 in *.txt can be loaded.

3.9. Firmware update

Connect the device to a USB port of a PC by USB/TTL converter cable or COM port for *ACT210* and put it in communication mode.

The *Locky-Bx* controller is powered via the computer's USB port. For *Teralock* and *ACT210* controllers, power must be provided from another source.

The LockyMonitor-3 program starts.

To enter communication mode, the Service card is inserted into the range of the controller's antenna. With *Locky-Bx* and *ACT210*, a yellow LED will light up, with *Teralock*, red and green LEDs will light up at the same time.

Press 

button. The program will scan COM ports of a PC for connected device. When a device is found, its parameters will be displayed in the information fields next to the button.

The current firmware version will be displayed in the "FW ver." field.

For update, button "FW update" is used. New window "Open COD file" is open. Chose the file and start the process.

If a correct firmware file is selected the process starts and a progress bar in software indicates the process. The LED of controller blinks fast.

Attention!

Don’t disconnect and power off the device in time of update.

After successful update message "Update successful!" is shown, the controllers will beep and stay in work mode.

In case of unsuccessful update, message "Update failed!" is shown. Check the connection and power supply and try again.

3.10. Change controller functionality

This procedure is for advanced users. Please ask your distributor for details.

3.11. Exit

To exit the program, press the red "X" sign in the upper right corner of the main window. Message "Do you want to save in database?" will be shown.

On exit, the software will close the communication session. The controller goes in working mode.