



ID Microserver

TCP server for local readers

*Idesco Access7C2, Omnikey Reader 5125, Omnikey Reader 5321, R1U I-LG,
Lektor D-1-USB, MREM 21, readers with WIEGAND output connected via
APSLAN converter*

User's guide

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2 Product description, program requirements

2.1 Brief product description

The *ID Microserver* program is used for connecting local readers to a PC via *serial port*, *USB* or *TCP/IP* converter and for distribution of IDs read by connected readers to other TECHFASS programs via *TCP/IP*. Also you can use the program for storing ID of read ID media into clipboard or to paste the ID at the current cursor position.

2.2 Hardware and software requirements

For connecting a reader it is necessary to connect appropriate *TCP/IP / COM* converter to the network with a server running the program or connect the reader directly to a *COM* or *USB* port of the computer. The program requires *Microsoft Windows NT 4.0* (SP 4), *Windows 2000* or *Windows XP* (recommended) or newer compatible OS and *.NET Framework* version 2.0 or higher.

3 Installation and configuration

The program is installed by running the installer. Connect the reader to the computer (or use appropriate converter) and run the program by its shortcut from the *Start* menu.

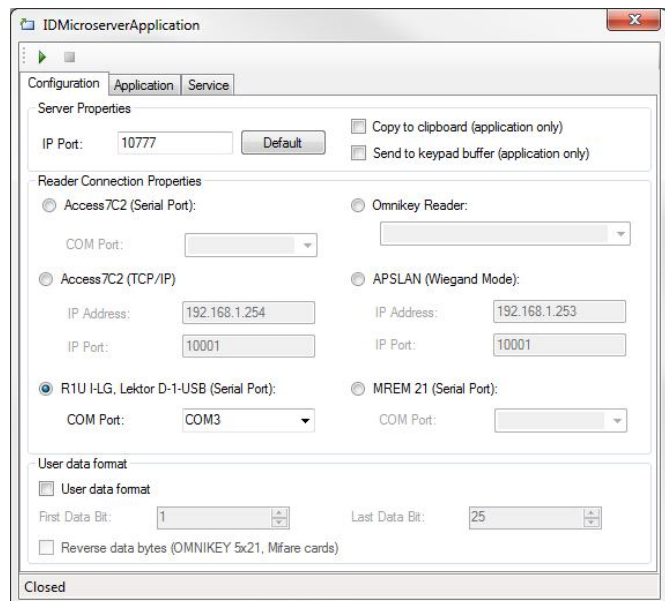
Program contains following tabs:

- *Configuration* tab (pic.1) contains configuration parameters for the program operation.
- *Application* tab (pic.2) contains information about connected clients and read IDs.
- *Service* tab (pic.3) contains resources for installation and running the Windows NT service, which does not require a logged user in the OS for its run.

4 Configuration tab

The *Configuration* tab contains *Server Properties* option, where you can define the *IP port*, on which the server will expect the client application connections. We recommend keeping the default value *10777*, which can be entered by pressing the *Default* button. In the *Reader Connection Properties* choose the option according to your connected reader. In the User data format area you can set user configuration for read ID codes interpretation.

If it is necessary to work with the ID code in other than TECHFASS programs, it is possible to *copy the ID medium code into clipboard* or *paste it directly at the current cursor position*.



Pic. 1: Configuration tab

After setting up all parameters (see information below) run the communication by pressing the *Start* button (green arrow); the communication can be stopped by pressing the *Stop* button (blue square).

4.1 Connecting enrolment readers

4.1.1 Access7C2 using TCP/IP

The *IDESCO Access7C2* reader can be connected using a *TCP/IP converter* (e.g. *GNOME 232*); fill in converter's *IP address* and *IP port* parameters in appropriate fields after selecting *Access7C2 (TCP/IP)* option.

4.1.2 Access7C2 using a serial port

The second option for connecting the *IDESCO Access7C2* reader is a direct connection using a serial port of a computer. For this option choose *Access7C2 (Serial port)* option and enter the *COM port name* to the adjacent field.

4.1.3 Omnikey Reader

The Omnikey Reader 5321 or Omnikey Reader 5215 is connected to a computer using USB port. After connecting the reader to a computer and installing the reader drivers (available on installation CD or on <http://www.omnikey.com>) choose the Omnikey Reader option and select connected reader from adjacent field.

Notice: *Omnikey Reader 5321* and *Omnikey Reader 5125* are supported in *Windows XP 32bit* compatible systems only.

4.1.4 *WIEGAND output reader connected using APSLAN converter*

The program enables to connect a *WIEGAND* output reader using an *APSLAN* converter. After connecting a reader to the converter and connecting the converter in the network with a PC, choose the option *APSLAN (WIEGAND mode)*. Fill in the *IP address* and *IP port* in adjacent fields.

4.1.5 *R1U I-LG and Lektor D-1-USB*

The *R1U I-LG* or *Lektor D-1-USB* reader can be connected using *USB* port. After connection install the reader's driver from the installation CD or from the web of the manufacturer. In the application select the *R1U I-LG, Lektor D-1-USB (Serial Port)* option and then select the COM port assigned to the reader in the *COM Port* option.

4.1.6 *MREM 21*

The *MREM 21* microreader can be connected to the computer serial port. Select *MREM 21 (Serial Port)* option and choose appropriate COM port used for the reader's connection in the *COM Port* option.

4.2 *User configuration of read IDs interpretation*

The user format of read ID data interpretation can be set in the User data format area. It is meaningful to use this function in cases when codes of ID media read at system readers differ from the codes read at the enrolment reader, e.g. by inappropriate interpretation of parity bits.

To enable the function, check the User data format checkbox. The program will consider only the data from the range given by the First Data Bit and Last Data Bit to be a valid code to use. In case of using *Omniquey Reader 5215* a reverse interpretation of the card code might be required – in such case check the checkbox *Reverse data bytes*.

4.3 *Copying ID code into clipboard, pasting ID at the cursor position*

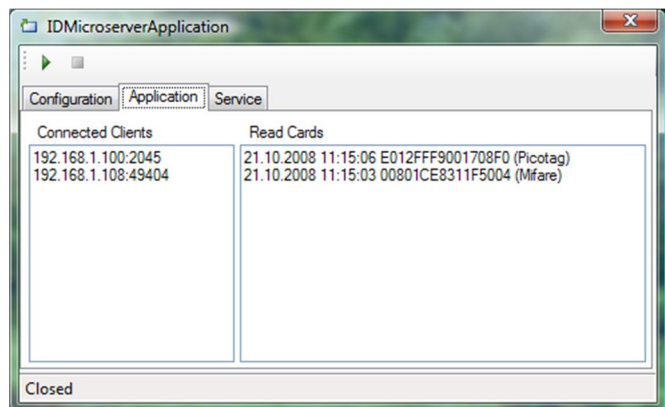
If it is required to copy the ID of read ID medium into clipboard, check the option *Copy to clipboard (application only)*.

If it is required to paste the ID of read ID medium to the current cursor position, check the option *Send to keypad buffer (application only)*.

These features can be used only when running the program in application mode.

5 Application tab

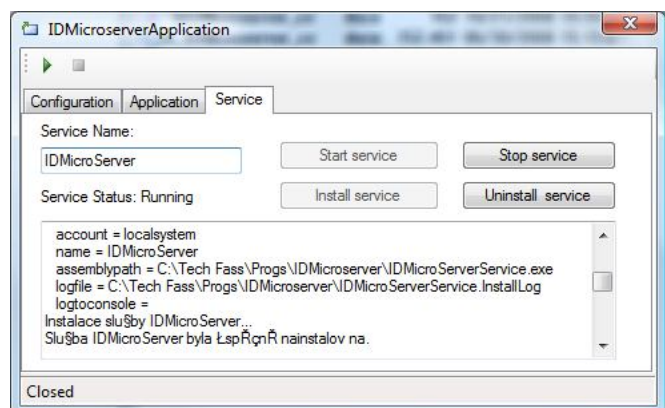
The *Application* tab contains a list of connected client programs and read card including the technology of the chip (Mifare, Picotag, ICode, Classic, Tag-It).



Pic. 2: Application tab

6 Service tab

After verifying the function of the program it is possible to install the program as a *Windows NT service*. Select the *Service* tab and enter the required name of the service in the *Service Name* field. The service status is indicated below the field with the service name (we recommend to keep the default service name). For the service installing and uninstalling the administrator privilege is required. The installation process is started with the *Install Service* button. After the installation the service is



Pic. 3: Service tab

stopped, to run it, press the *Start service* button. If a change of configuration is required while the program is run as a service, stop the service first by pressing the *Stop service* button, change the configuration at the *Application* tab and restart the service again. The service can be uninstalled by pressing the *Uninstall service* button.

The program cannot be run on the same port both as a system service and as an application (the program displays an error message while attempting to do so).