

ZIGACCESS TOOLS



USER MANUAL



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Please read this manual carefully before installing the ZigAccess Tools.

The manufacturer cannot be held responsible for any damages resulting from accidental use or misuse of its' products.

Any data or product characteristic modifications may be made by the manufacturer without preliminary notice.

1. Presentation

1.1. Overview

- ZigAccess Tools is a software to manage wireless Mediabus Control devices bases onto ZigBee radio communication.
- ZigAccess Tools managed ZigBee networks for Vity ZigAccess modules.
- ZigAccess Tools can update firmware for ZigAccess.
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1.2. Content

- Zig2USB key : USB network interface to ZigBee
- Zig2USB drivers
- ZigAccess Tool software
-

1.3. Preparation

Install ZigAccess Tool onto computer. The default install directory is "[C:\Programs_Files\Vity\ZigAccess Tools](#)" for Windows XP and "[C:\Programs](#)" in Windows Vista.

Installation of Zig2USB key onto PC

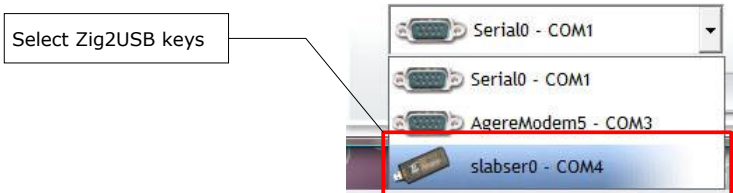
- a - You'll find a zip file into the installation directory named "Telegesis_ETRXnUSB_driver.zip",. Unzip it into a directory
- b - Goto the directory where you unzip the file and execute PreInstaller.exe
- c - Plug the key into an usb port of the PC.
- d - Windows ask you if it must use into windows update to do the installation. Select "Not for this time »
- e - On the new page, select "Install from a list... etc"
- f - Then option "Do not search"
- g - Select "Telegesis"
- h - Continue installation
- I - Windows will ask a second time for installation, do the same thing form step **d**

Starting ZigAccess Tool

Select ZigAccess Tools into Vity Programs Group into the Windows Start menu.

After started, ZigAccess Tools ask you to select the Zig2USB key. You see in the list all serial com port of the PC (real and virtual) because if your Zig2USB key is not well labeled by Windows it not possible for ZigAccess Tools to find it.

Normally the Zig2USB key look like this...



After select the Zig2USB key, click Ok button.

ZigAccess Tools scan for available ZigBee networks...

If a least one networks is find, the first network is selected and scanned to find ZigAccess modules.

Attention : remember that ZigAccess network management takes time be patient

2. Description of ZigAccessTools

ZigAccess Tools show available ZigBee networks and ZigAccess modules connected to the selected networks.

The main software windows is as describe below:

The screenshot shows the 'Vity ZigAccess Utilities' window. At the top, there is a 'ZIGACCESS NETWORKS' section with a search bar containing '26,2602'. Below this, three ZigBee modules are listed with their respective IDs and signal strength indicators:

- COO:000D6F000082132
- FFD:000D6F0000157D63
ZA157D63- v:1.1.3
- FFD:000D6F00001C49EC

At the bottom of the window, there are three buttons: 'Scan for Networks Available', 'Look for ZigAccess available', and 'Read Signal Intensity'. Lines connect callout boxes to these buttons and the network list.

Callout boxes and their descriptions:

- Create a ZigBee network (points to the top right corner)
- Available ZigBee Networks (points to the network list)
- Detected modules on selected networks (points to the module list)
- To look for all available networks (points to 'Scan for Networks Available')
- To find To update the modules list for the selected network (points to 'Look for ZigAccess available')
- To update the detected signal level for modules (points to 'Read Signal Intensity')

3. ZigBee introduction

First thing to know is that managing ZigBee networks (create, change to another network...) take time and you must be patient (not so long most operation takes less than 1 minutes)

Like all other network devices, the Zig2USB key can't be connected to 1 network only at a time.

2. Starting with ZigAccess Tools

Run the software and look how many ZigBee networks it find. Normally It must find only 1 network call 26,2602 it is the default ZigAccess network (if you have other ZigBee devices it's possible ZigAccess tools find several networks).

Then the software scan the first network it find to look for Modules. You must find your modules in the list. That the normal way

If you don't have all your module onto network 26,2602 and have other network look onto the other network if there is ZigAccess connected to the.

If there is ZigAccess onto other network change the current network of the ZigAccess to do that, select the ZigAccess in the list, open the right-click menu and choose option "Change network" give network 26,2602

If you find only one network but don't have all modules, move to another room and check again. If you find new module but loose the previous, there is a problem of distance...

3. EMERGENCY RETRIEVAL

First, it's better to have your computer close to the module to update

Modules rescue

There is several possibilities when a module is out

Step 1

The first step is to see if the module create is own networks

To do that, power off all modules

then power on the lost module (normally a zigaccess which doesn't have finish it's update procedure have a the red led flasing fast)

Wait a while, then run the Vity ZigAccess Tool software

When starting, the software scan to find networks...

case 1

- If it find one it's the networks of the lost modules (because other are power off)
To be sure identify the modules by buzzer

- First thing to do is to move the module to the default Vity Zigbee network which is Channel 26 and Id 2602

- Goto step 2

case 2

- No network is found... in that means that the module cannot create it's own network so we have to create it form it and wait the module got to the network itself

- there is normally 4 networks possibilities (if you don't work with the default network (26,2602) replace the correct values)

- Channel 26 ID 2602 (or the originals values of the module)
- Channel 20 ID 0911 (update network)
- Channel 26 ID 0911 (change channel number if necessary)
- Channel 20 ID 2602 (change ID number if necessary)

a - power off the module

b - then create the first network with the software Vity ZigAccess tool
(the USB ZigBee key onto the computer will create the network)

c - Power On the module then wait 1 or 2 minutes

d - if the module appear in the liste, move the module to the default Vity Zigbee network which is Channel 26 and Id 2602

- Goto Step 2

e - if the module doesn't appears, scan the network by clikcking onto the "Scan modules" button

- if there still nothing, goto step **a** and **change the network value by another (refer to the list above)**

Step 2

- now you have the module back to the original network, you can do again the update firmware procedure

Important : It's very hazardous to retrieve module which have firmware version before 1.1.0...
Try several time

After version 1.1.0, it's easier because we have improve many things

For modules with firmware version with x.x.x

It's possible to have sometime this kind or display but it's strange if it's all the time with the same module. In that case, don't update firmware procedure because to start the update , the software need the firmware version. If modules work, it's better to don't do update or change them and try in laboratory... but it's very possible to loose them

I don't know if I well explain how ZigBee work

but to be sure I tell you

First : switch off all modules...

1 - You can manage **only 1 network** at a time, that mean if you create several network with the software only the selected network is used and scan

2 - All management take time so be patient

3 - Depending the firmware is used into module, it can create a network itself or only can connect to an existing network :

You must try 2 way for each network :

a - switch off the module

- select the network you want to try onto the software and when the pc had create the network, switch on the module and wait 1 or 2 minute

if not work

b - switch off the module

- close the software

- switch on the module

- wait one minute

- rone the software and look if it find a network with the module

4 - Do again with another network