

BlueNet

Wireless Network for ATAL Devices

INSTRUCTION MANUAL



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1. INTRODUCTION

BlueNet is a closed wireless network designed for safe interconnection of selected ATAL devices. It was developed to provide speed and reliability of data transfer and simplify the hardware of the computer that holds service programmes for these devices (hereinafter referred to as station).

A single **BlueNet** master can communicate with up to seven devices. If needed, the number of **BlueNet** masters can be increased.

2. INSTALLING BLUENET

Must be installed onto the station

- Launch the installation programme **setup-blunet.exe**
- If you want the network to activate automatically upon station start, tick off this option during installation (see Fig. 1)

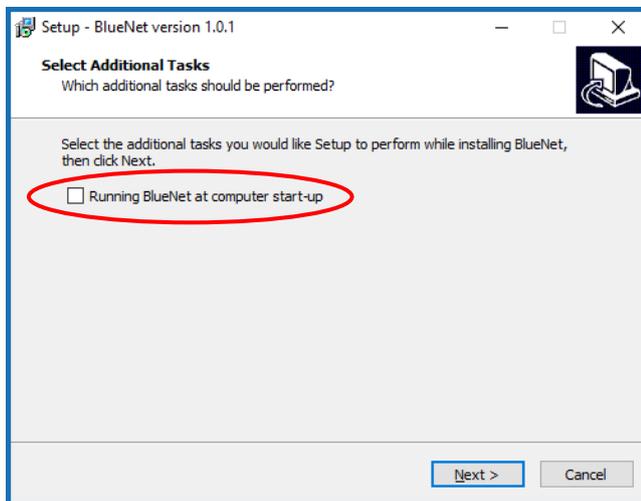


Fig. 1 – Installation of BlueNet

3. CONFIGURING BLUENET

Before using the network itself or adding more devices to it, the network needs to be configured.

- Connect the **BlueNet** controller to the station
- Turn on the devices that will be operated within the network
- Launch the configurator via **Start \ ATAL \ BlueNet Configuration**

If the **BlueNet** network is active, a prompt will appear asking if the network can be deactivated. After completing configuration, the network will attempt to reactivate automatically. It is recommended to allow temporary deactivation of the network; otherwise, it will be impossible to make changes to the configuration of active masters.

3.1 ADDING A BLUENET MASTER

- Launch the **BlueNet** configurator
 - A master management table will appear (see Fig. 2)
- Click **Add...**
 - A list of available masters will appear (see Fig. 3)
- Choose a device and click **Add...**

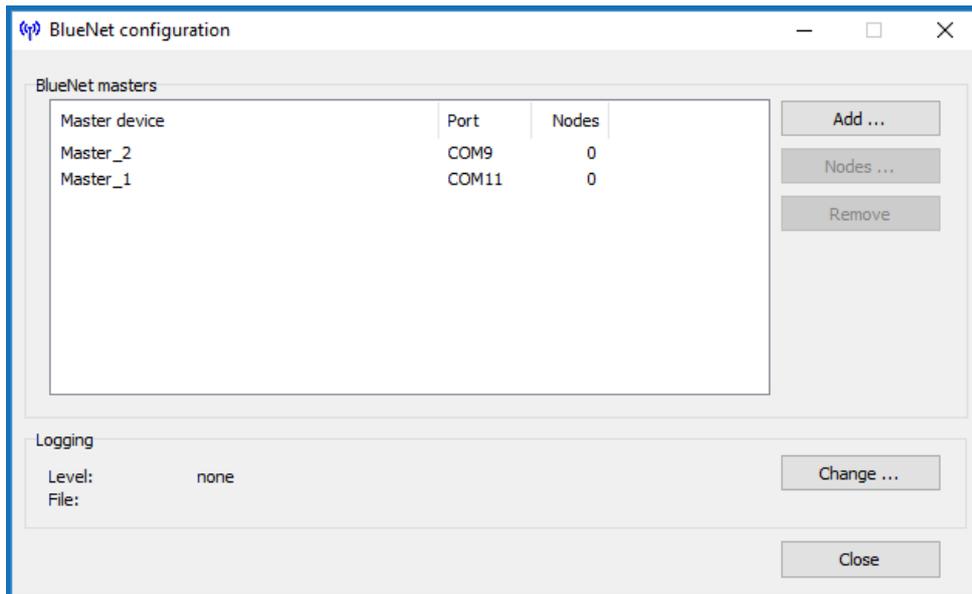


Fig. 2 – Table of **BlueNet** masters

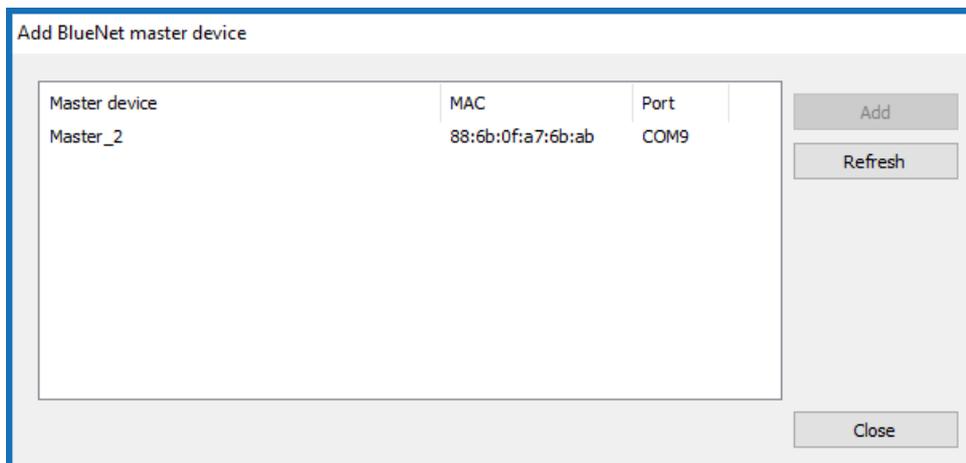


Fig. 3 – Adding a **BlueNet** master

3.2 REMOVING A BLUENET MASTER

- Launch the BlueNet configurator
 - A master management table will appear (see Fig. 2)
- Choose a device and click **Remove**

3.3 ADDING (PAIRING) A DEVICE

- Launch the **BlueNet** configurator
- In the **BlueNet** master table (see Fig. 2), choose the **BlueNet** master you wish to pair the device with
- Click **Nodes...**
 - A list of **Nodes** that are paired with the given **BlueNet** master will appear (see Fig. 5)
- Click **Add ...**
 - A list of available devices will appear (see Fig. 4)
- Choose the paired device and click **Add...**
 - You can only pair devices with a known profile
 - The paired device is then added to the Devices table (see Fig. 5) and is assigned a port number. Use this number in configuration programmes controlling the paired device.

*Note: Devices can be both added and remove using the Devices table (see Fig. 5). If you wish to remove a device, select the device of choice and click **Remove**.*

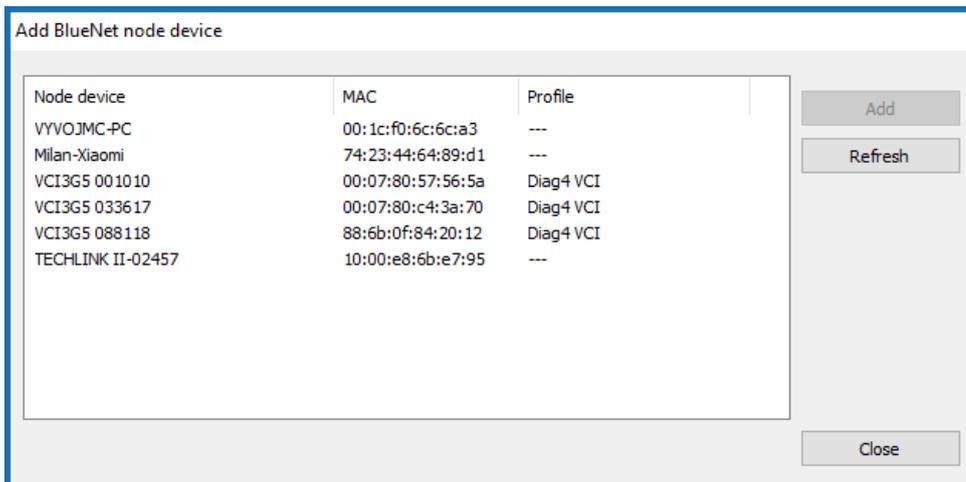


Fig. 4 – Adding a BlueNet device

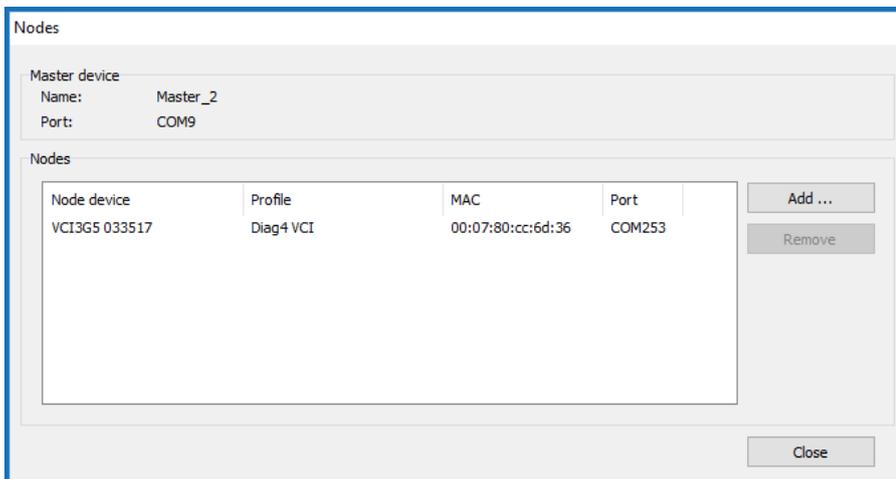


Fig. 5 – Devices table

3.4 COMMUNICATION LOGGING

The service programme also enables maintaining logs of communication between paired devices. Logging is an auxiliary function used for setting up the network or troubleshooting **BlueNet** network issues. Under normal circumstances with no issues occurring, communication logging is not required.

- to log communication, click **Change...** (see Fig. 2) and choose:
 - Data logging level (basic, extended, full)

- File name
- Choose a path where the chosen file is to be saved

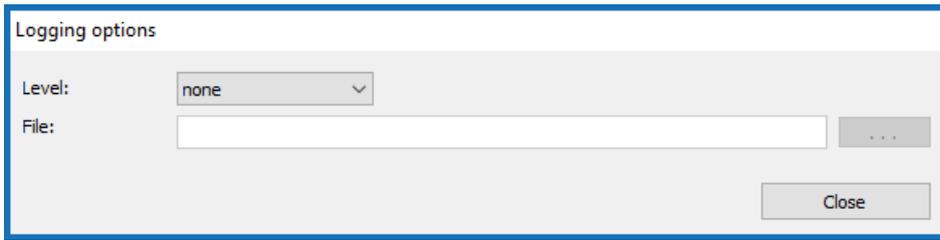


Fig. 6 – Communication logging

4. LAUNCHING THE SERVICE PROGRAMME

If so chosen during installation of the **BlueNet** network, the service programme will launch automatically on startup. The programme activates the **BlueNet** network.

- When the service programme is running, a  icon will appear on the taskbar in the notification area (see Fig. 7).
- If the icon does not appear, you must launch the service programme via:
 - **Start \ ATAL \ Run BlueNet**



Fig. 7 – Placement of the service programme icon on the taskbar

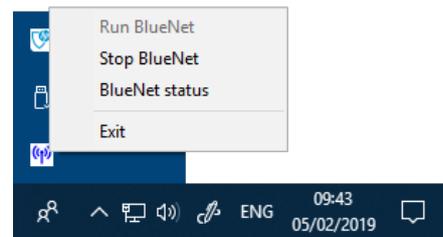


Fig. 8 – Service programme menu

5. STATUS OF BLUENET

Right-clicking the mouse on the programme icon (see Fig. 7) will open the programme's menu (see Fig. 8). You can view information about the status of the service programme by clicking: **BlueNet status**.

If the network is active, information about managed masters and connected devices will be displayed (see Fig. 9). When the network is not active, Fig. 10 will appear.

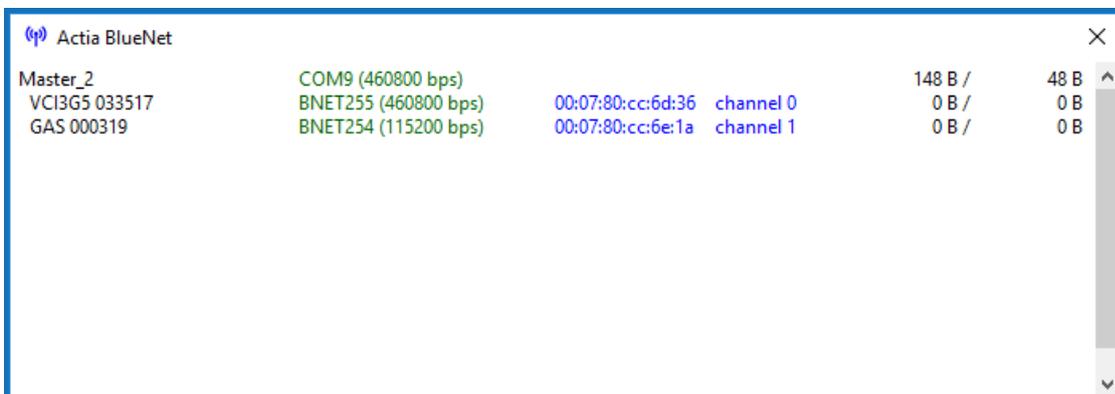


Fig. 9 – BlueNet status - Programme running

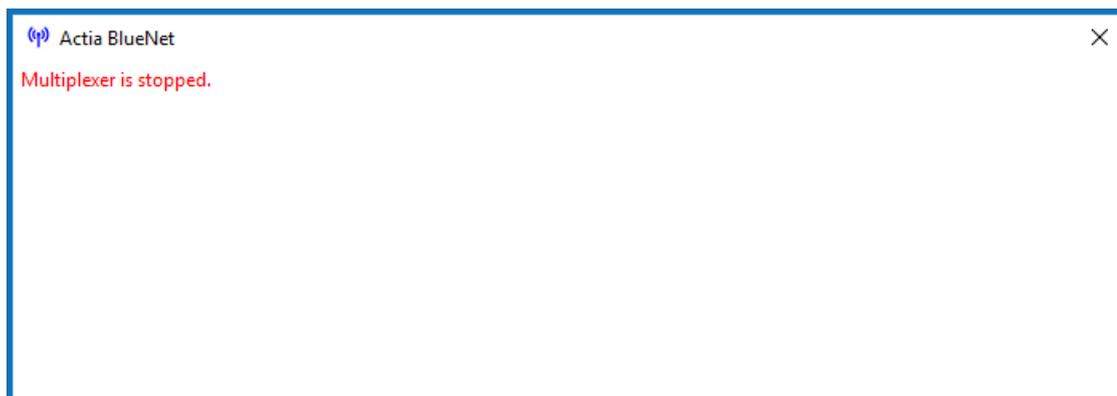


Fig. 10 – BlueNet status - Programme stopped

6. ACTIVATING THE NETWORK

- Right-click the **BlueNet** icon located on the Windows taskbar in the notification area (see Fig. 8)
- From the menu, select: **Run BlueNet**

7. DEACTIVATING THE NETWORK

- Right-click the **BlueNet** icon located on the Windows taskbar in the notification area (see Fig. 8)
- From the menu, select: **Stop BlueNet**.

8. PARAMETER DESCRIPTION

- Working distance Up to 200m – free space
- Bluetooth version 2.1
- PC Connection USB 2.0
- Maximum transfer rate 115200 Bd
- Response time Max 100 ms
- Number of connected devices for one Master 7
- Consumption Max 200 mA
- Supported operating systems Windows 7, 8, 10