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

뤻 Setup - BlueNet version 1.0.1	-		×
Select Additional Tasks Which additional tasks should be performed?			
Select the additional tasks you would like Setup to perform while inst then dick Next.	alling Blu	eNet,	
Nex	t >	Ca	ancel

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...

(ආ) BlueNet configuration		– 🗆 X
BlueNet masters		
Master device	Port Nodes	Add
Master_2 Master_1	COM9 0 COM11 0	Nodes
		Remove
Logging		
Level: none File		Change
		Close

Fig. 2 – Table of **BlueNet** masters

Ac	d BlueNet master device			
	Master device Master_2	MAC 88:6b:0f:a7:6b:ab	Port COM9	Add Refresh
				Close

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**.

Add BlueNet node device			-
Node device	MAC	Profile	
VYVOJMC-PC	00:1c:f0:6c:6c:a3		Add
Milan-Xiaomi	74:23:44:64:89:d1		Refresh
VCI3G5 001010	00:07:80:57:56:5a	Diag4 VCI	
VCI3G5 033617	00:07:80:c4:3a:70	Diag4 VCI	
VCI3G5 088118	88:6b:0f:84:20:12	Diag4 VCI	
TECHLINK II-02457	10:00:e8:6b:e7:95		
			Close

Fig. 4 – Adding a BlueNet device

No	les					
M	laster device Name: Mi Port: C(odes	aster_2 OM9				
	Node device VCI3G5 033517		Profile Diag4 VCI	MAC 00:07:80:cc:6d:36	Port COM253	Add Remove
						Close

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)

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

Logging options		
Level:	none \lor	
File:		
		Close
		Close

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 fixed 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





x^P ヘ 記 ⑴ ぴ ENG 09:43 の5/02/2019

Run BlueNet Stop BlueNet

BlueNet status

Exit

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.

Master_2 COM9 (460800 bps) 148 B / 48 B VCI365 033517 BNET255 (460800 bps) 00:07:80:cc:6d:36 channel 0 0 B / 0 B GAS 000319 BNET254 (115200 bps) 00:07:80:cc:6e:1a channel 1 0 B / 0 B	(ዋ) Actia BlueNet					×	<
*	Master_2 VCI3G5 033517 GAS 000319	COM9 (460800 bps) BNET255 (460800 bps) BNET254 (115200 bps)	00:07:80:cc:6d:36 00:07:80:cc:6e:1a	channel 0 channel 1	148 B / 0 B / 0 B /	48 B 0 B 0 B	<



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(4) Actia BlueNet Multiplexer is stopped.

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	
•	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