



## **PG4UWMC Network Mode quick guide**

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## 1. Introduction

This document explains extended feature of PG4UWMC called *Network mode*.

PG4UWMC, when switched to *Network mode*, allows to search, start, control and monitor instances of PG4UW on network computers (up to 64 programming sites at the same time). Communication between PG4UWMC and PG4UW is realized through PG4UWMC Network Agent, which is running on each computer. All PG4UWs, PG4UWMC Network Agents on network and controlling PG4UWMC must be of same (thus compatible) version.

This feature is available only for **automated programmers** (Beeprog2AP, BeeProg3, BeeHive204AP, BeHive204AP-AU, BeeHive304) and is intended to be used mainly with handler machines.

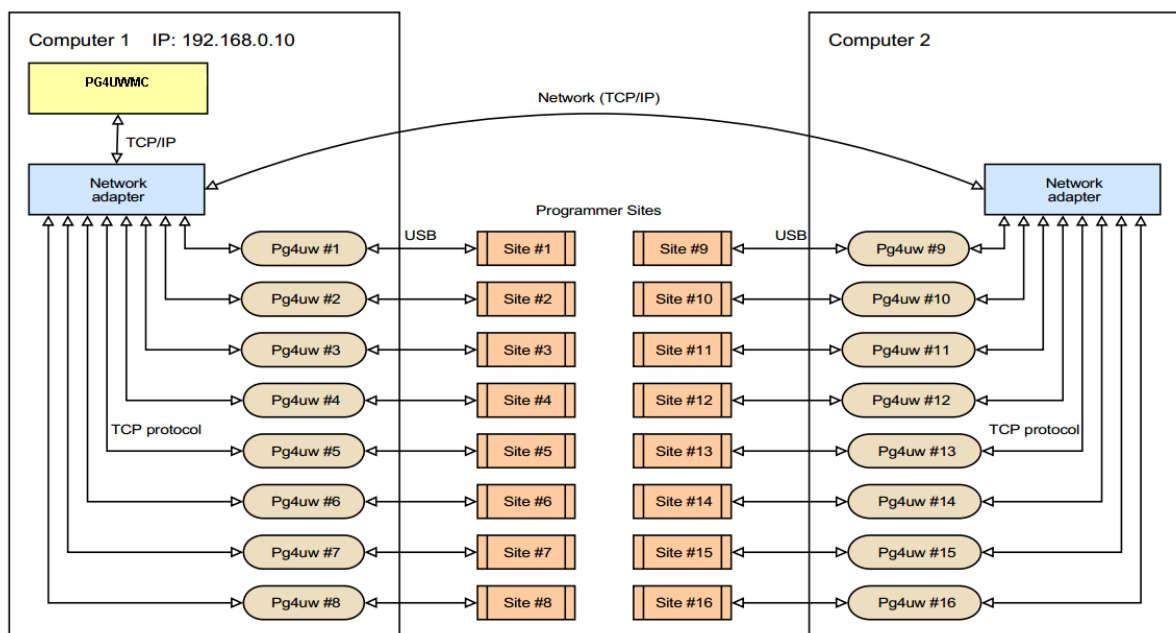


Figure 1: Typical configuration of remotely controlled multiprogramming system running on two computers

## 2. Installation

During installation, the *Network Mode* feature will not be installed by default. You have to activate it by executing **installation procedure with command-line parameter /networkmode** (e.g. Start / Run / C:\pg4uwarc.exe /networkmode).

After some initial screens, an option to include installation of PG4UWMC Network Agent and selection of **Programmers Group** will appear. Please **define name of Programmers group**, which this installed computer will belong to. PG4UWMC Network Agent will be configured to start with windows.

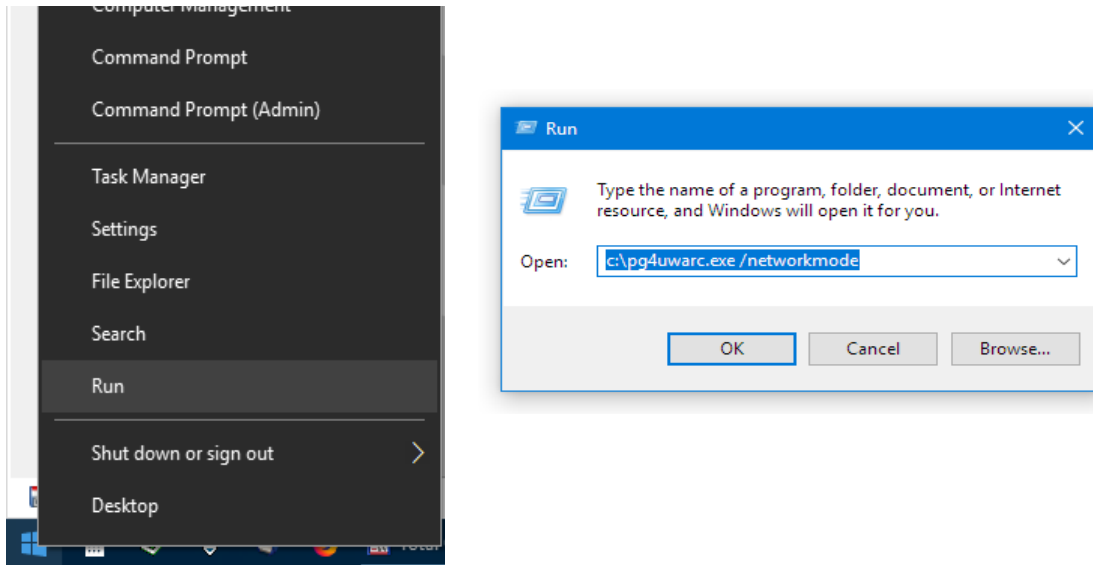


Figure 2: Installation procedure with command-line parameter /networkmode

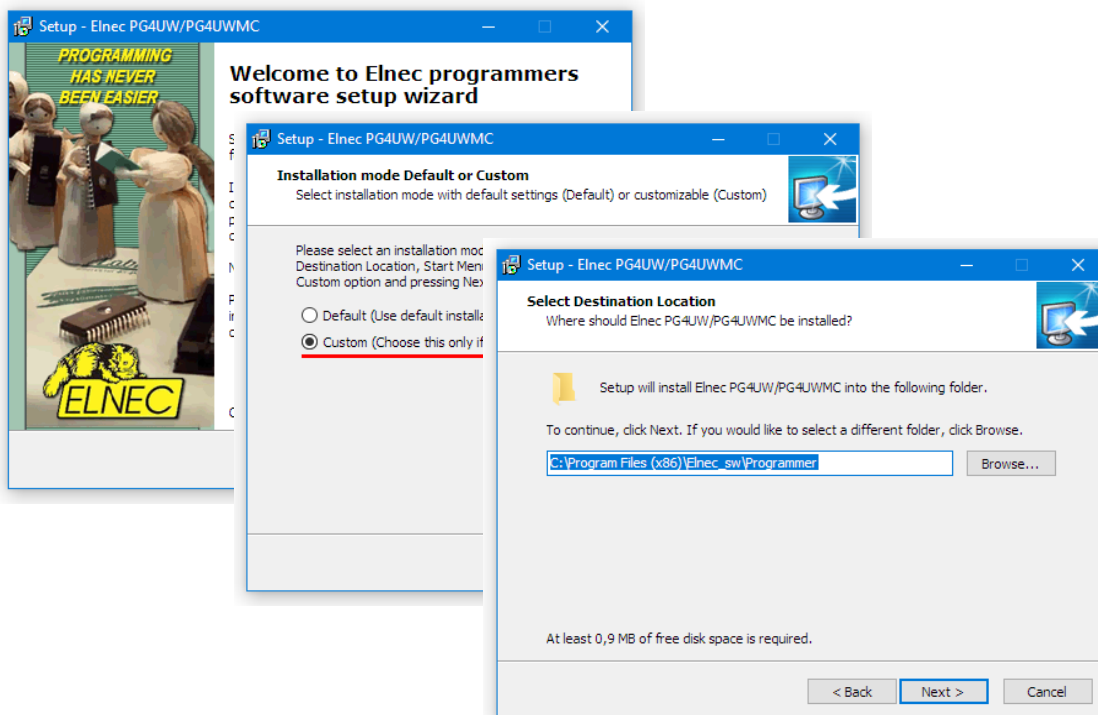


Figure 3: Installation procedure – customized

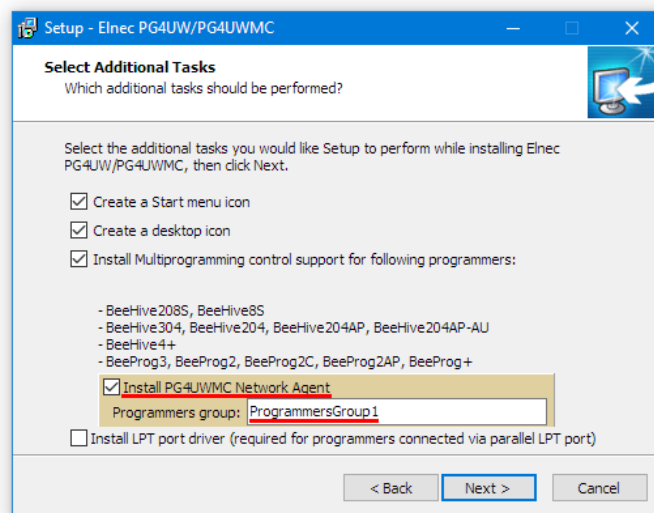


Figure 4: Installation procedure with checked Installation of PG4UWMC Network Agent and selected name of Programmers group

This way should PG4UW be installed on each computer on network which is considered to work in Programmers group.

Each computer in Programmers group must have PG4UWMC Network Agent running in background. If PG4UWMC Network Agent is not running after installation, please, run it from Start menu / All Programs ...

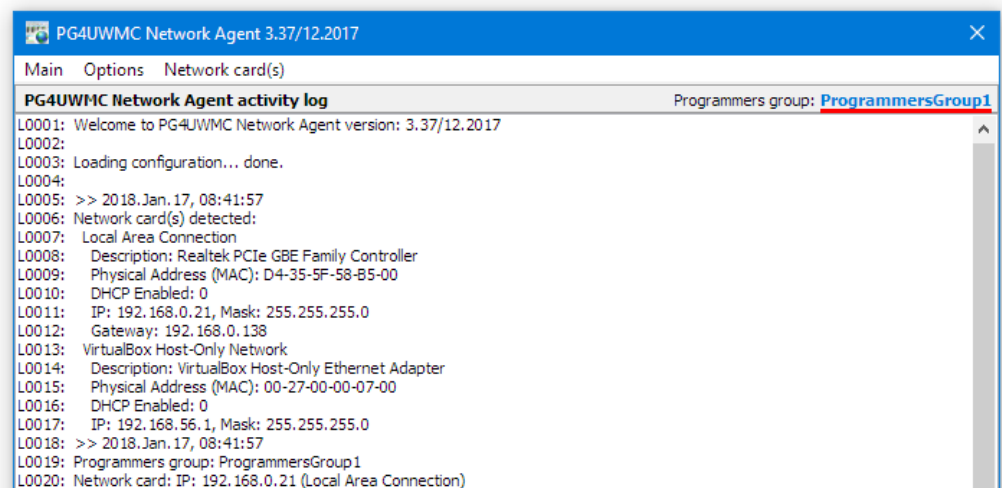


Figure 5: Installation procedure with checked Installation of PG4UWMC Network Agent and selected name of Programmers group

Once the installation is done on each computer, we can proceed to initial configuration of PG4UWMC.

### 3. Configuration of PG4UWMC

Run PG4UWMC on computer which will control whole programming process. In Menu / Options / check *Network mode*.

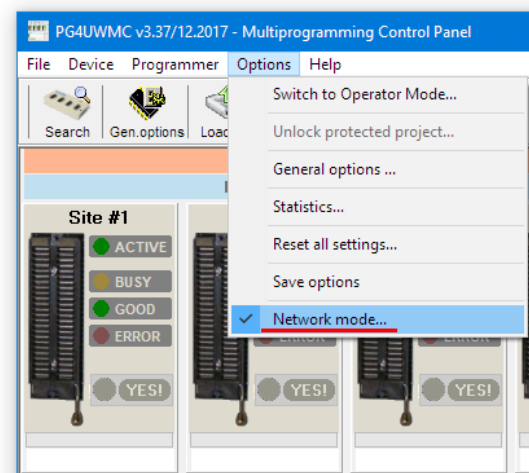


Figure 6: Configuring PG4UWMC to run in Network mode

We are on network, thus we need to set network path to *project file*, and *log file*.

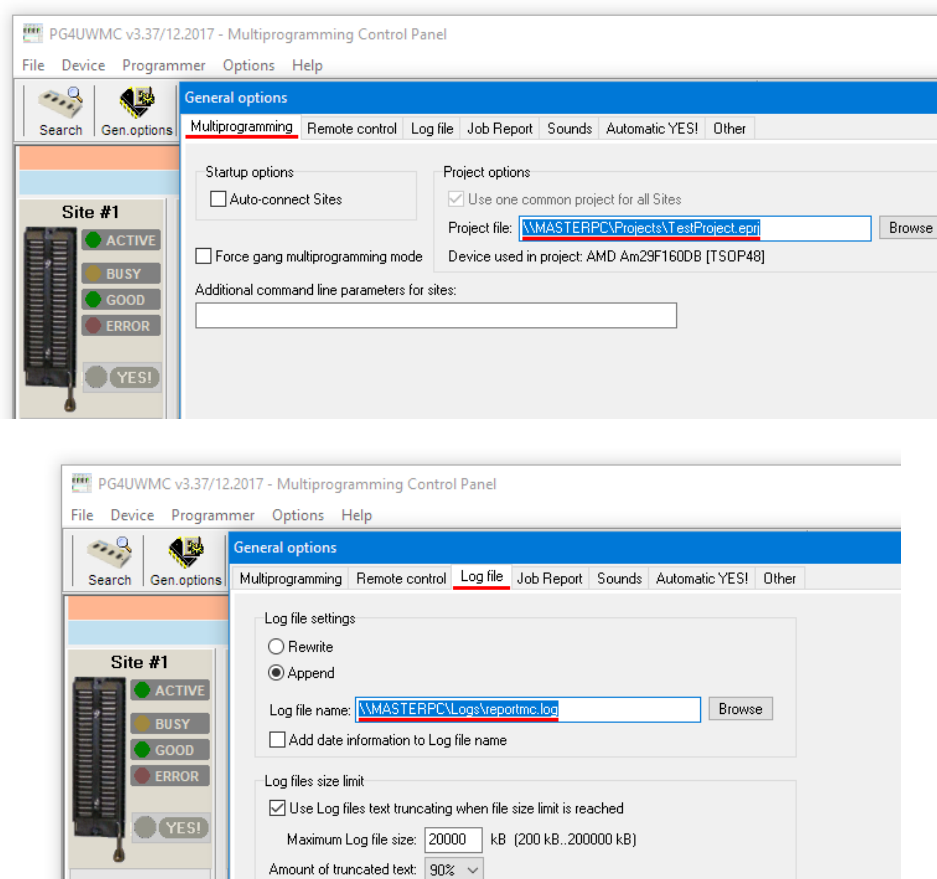


Figure 7: Configuring PG4UWMC read project from network, save logs to network paths.

Now we can proceed to first *Search* on network in defined *Programmers group*.

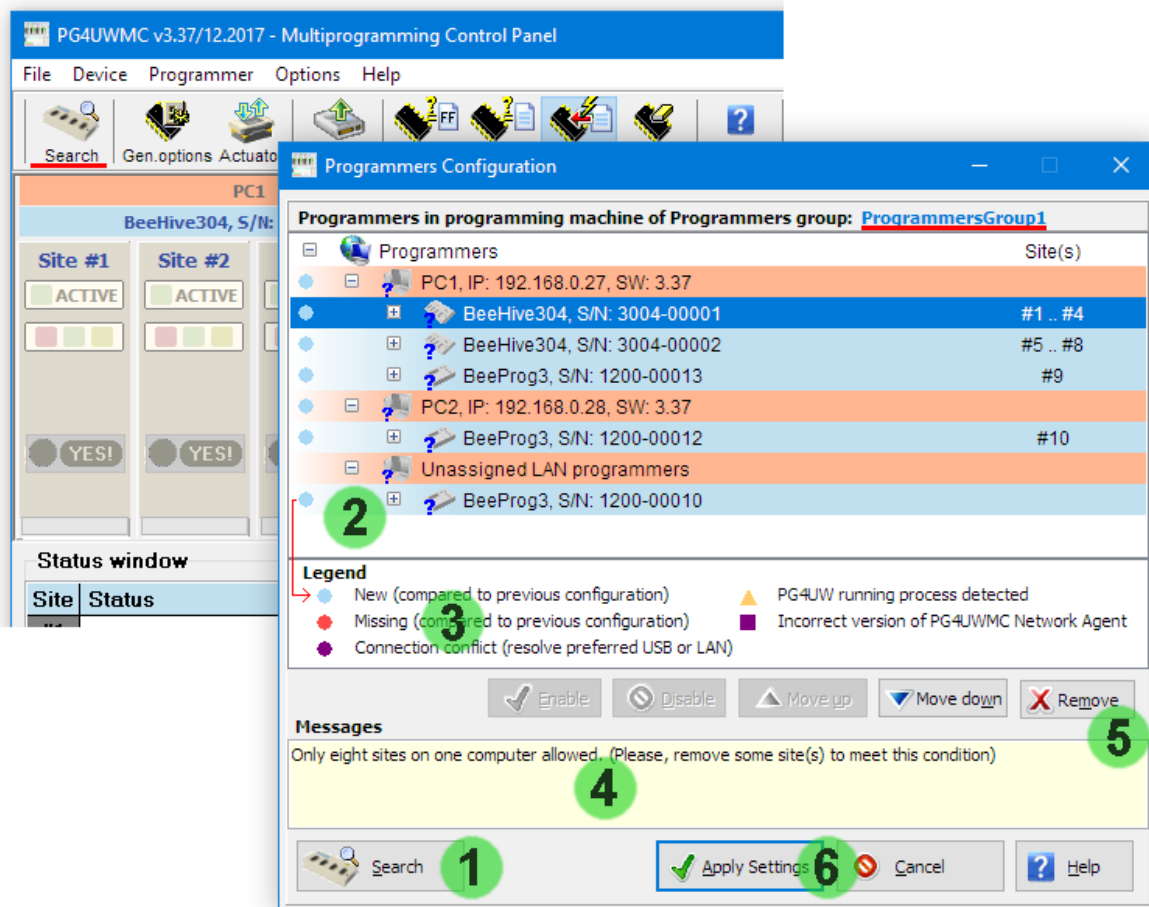


Figure 8: Search in Programmers group

1. Search for programmers.
2. Evaluate what was found.
3. Check the legend (for help what to do).
4. Resolve problems to meet restrictions.
5. Enable, Disable, Move, Remove programmers as you desire.
6. Apply changes or Cancel.

Dialog shows currently detected *Computers* (which have running PG4UWMC Network agent) and available programmers (connected via USB or LAN interface) in active *Programmers group*, compared to previously detected configuration. You can do more subsequent *Searches*, this action maintains available items and shows *New* and *Missing* items.

Using *Move* buttons or *drag&drop* with mouse assign *Unassigned LAN programmers* to desired Computers, which will run PG4UW instances for respective programmers. If programmer is connected via both, USB and LAN interface, software prefers faster USB connection.

Use dialog *Programmers Configuration* to detect and manage *Programmers Group* of individual *Computers* (which have running *PG4UWMC Network agent*) and available programmers (connected only via LAN interface). This option is useful especially if there are two or more *programming machines* on the same network to logically separate them.

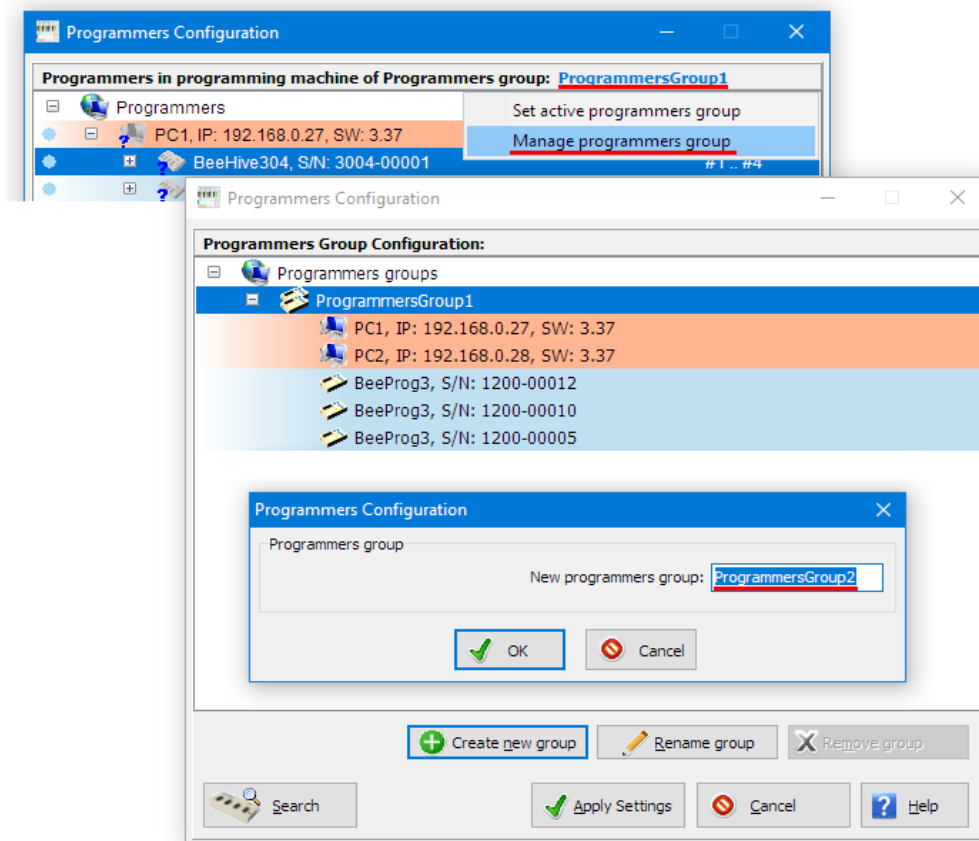


Figure 9: Managing the Programmers group

From this point, working with PG4UWMC should be as usual.





## 4. Troubleshooting

If searching programmers does not finish as expected, please check following:

- each computer in Programmers group must run PG4UWMC Network Agent with same Programmers group
- your firewall settings may block network communication, please check firewall rules or temporally disable firewall.