

DHCP Server on LAN

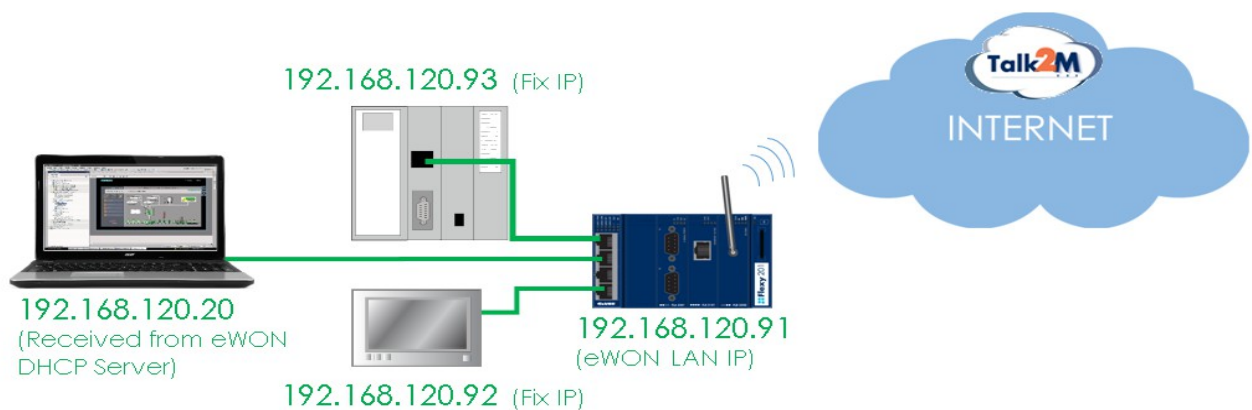
1. Introduction

As of firmware 11.2, the eWON Flexy and Cosy131 are able to act as a DHCP server on its LAN interface.

This allows you to attribute IP addresses dynamically to devices that join the eWON LAN network. This is indeed very useful in case you connect your laptop to the eWON LAN network in order to troubleshoot the eWON or another LAN device (such as a PLC).

Another use case is to use eWON as an Internet gateway. In this case, the parameter "Nat and TF" must be set on "NAT on WAN" (NatIff : 2).

However, we still recommend the use of static IP addresses for the devices that you want to remote access.



2. Configuration

As the misuse of this feature can cause major issues on a network (Ex : Connect the eWON LAN, on which the DHCP server is enabled, to a network where there is already a DHCP server), this feature is dedicated to eWON experts. That's the reason why the LAN DHCP server is disabled by default and no configuration menus have been developed. The configuration is exclusively done thanks to the advanced communication parameters (*comcfg.txt*).

Here is the list of advanced parameters that can be configured for the eWON LAN DHCP Server :

Parameters	Description
LANDHCPSEnable	1 : Enable DHCP Server 0 : Disable DHCP Server (Default)

Parameters	Description
LANDHCPStartIP	Start IP address of the Dynamic IP address pool (Default = 0.0.0.0). This IP address must be in the range of eWON
LANDHCPSEndIP	End IP address of the Dynamic IP address pool (Default = 0.0.0.0)
LANDHCPLogLevel	Log level of the DHCP server (0,1 or2). (Default : 0)
LANDHCPDns1	Primary DNS IP address attributed to DHCP Clients. If firmware version < 12, do not set the eWON LAN IP address since eWON is not a DNS gateway. Use a public DNS server or the corporate LAN DNS Server.
LANDHCPDns2	Secondary DNS IP address attributed to DHCP Clients. Same as above.

Example of configuration (assuming the eWON LAN IP is 192.168.120.153):

```
LANDHCPSEnable:1
LANDHCPStartIP:192.168.120.20
LANDHCPSEndIP:192.168.120.40
LANDHCPLogLevel:0
LANDHCPDns1:8.8.8.8
LANDHCPDns2:8.8.4.4
```

- Notes -

- *Avoid including the eWON LAN IP address as well as the LAN device IP addresses in the DHCP IP Addresses Pool. This, to prevent the LAN network from duplicate IP addresses issues.*
- *The lease time has been hard-coded to 1 hour.*
- *DHCP IP addresses are attributed randomly. So, a LAN device may not receive the same IP address at a new connection.*

Revision

Revision History

Revision Level	Date	Description
1.0	05/07/2016	Original version
1.1	18/04/2017	Changed " LANDHCPSDns1 " parameter for firmware < 12

Document build number: 9

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