How to use a second eWON as router

Introduction

In some rare cases, the IP range of a company network served on the WAN port of an eWON might be the same as the LAN IP range of the eWON.

In this situation, an IP conflict will appear because both WAN & LAN of the eWON are in the same subnet. The workaround would be to add a router between the company's network and the WAN of the eWON.

But in this scenario, it's also possible to use a second eWON to play the role of the router.

Case situation

We have an eWON configured on a network (WAN side) on the range: 192.168.120.xxx

This eWON is also configured to interact with devices on a network (LAN side) on the same range: 192.168.120.xxx

Another obligation is that in this particular case, networks cannot be reconfigured.
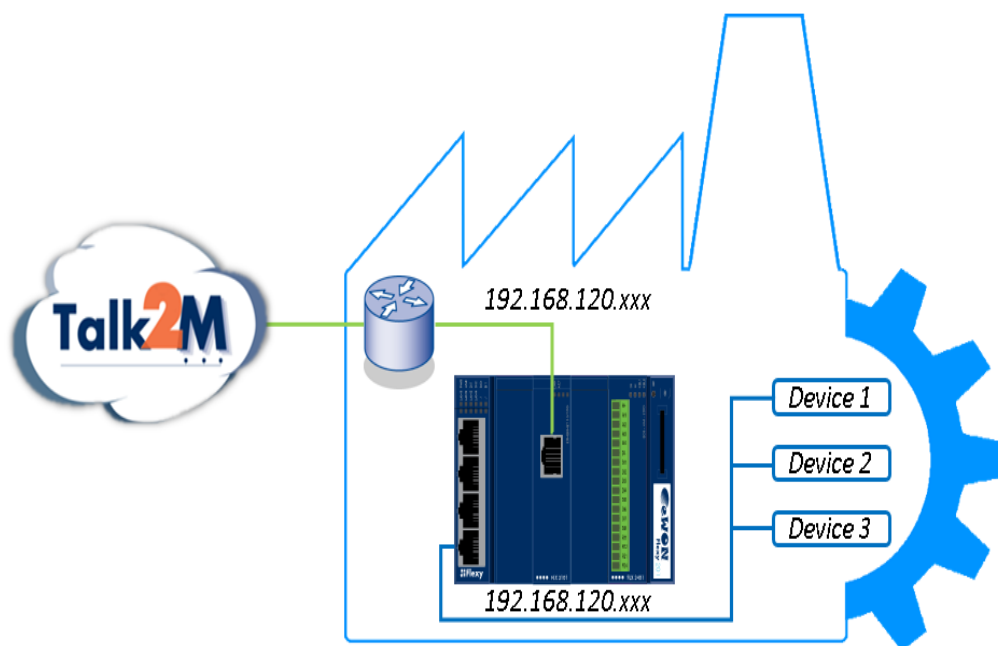
To allow this kind of configuration to coexist we will use an extra eWON. We will also create a third network between the two eWONs:
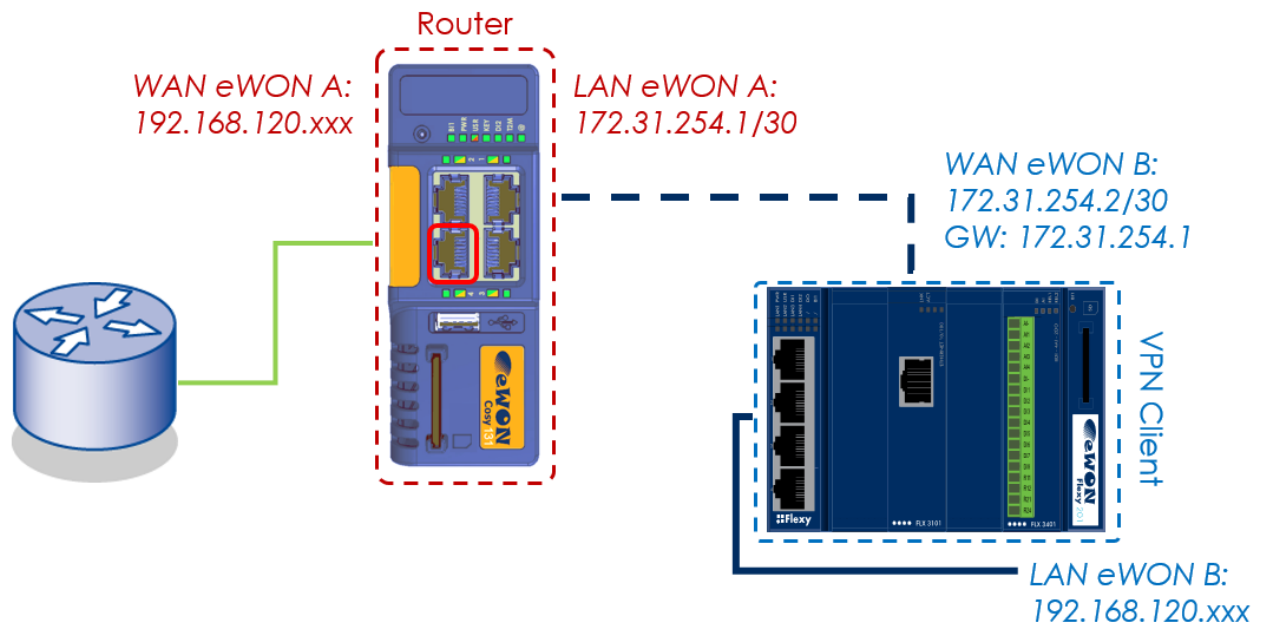
eWON A	Configuration	Note
IP WAN	192.168.120.xxx	DHCP or given by the company
Subnet Mask WAN	(given by company LAN)	DHCP or given by the company
IP LAN	172.31.254.1	Fixed IP
Subnet Mask LAN	255.255.255.252	Restricted subnet mask
Gateway	(company)	DHCP or given by the company
DNS	(company)	DHCP or given by the company

eWON B	Configuration	Note
IP WAN	172.31.254.2	Fixed IP
Subnet Mask WAN	255.255.255.252	Restricted subnet mask
IP LAN	192.168.120.xxx	Fixed IP (identical to company IP Network range)
Subnet Mask LAN	255.255.255.0	Can be restricted too
Gateway	172.31.254.1	IP LAN of the eWON router
DNS	8.8.8.8	Public DNS or given by the company

- Important -

To allow external access, the minimum required would be with the following parameters in the eWON A:
    WANPermCnx:1
    FwrdToWAN:1
    NatItf:2

- Note -

With the example we gave, you would need to change these parameters in eWON A:
    EthIP:172.31.254.1
    EthMask:255.255.255.252
    UseBOOTP2:2
    WANPermCnx:1
    FwrdToWAN:1
    NatItf:2
    LANWANConfig:8

Revision

Revision History

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