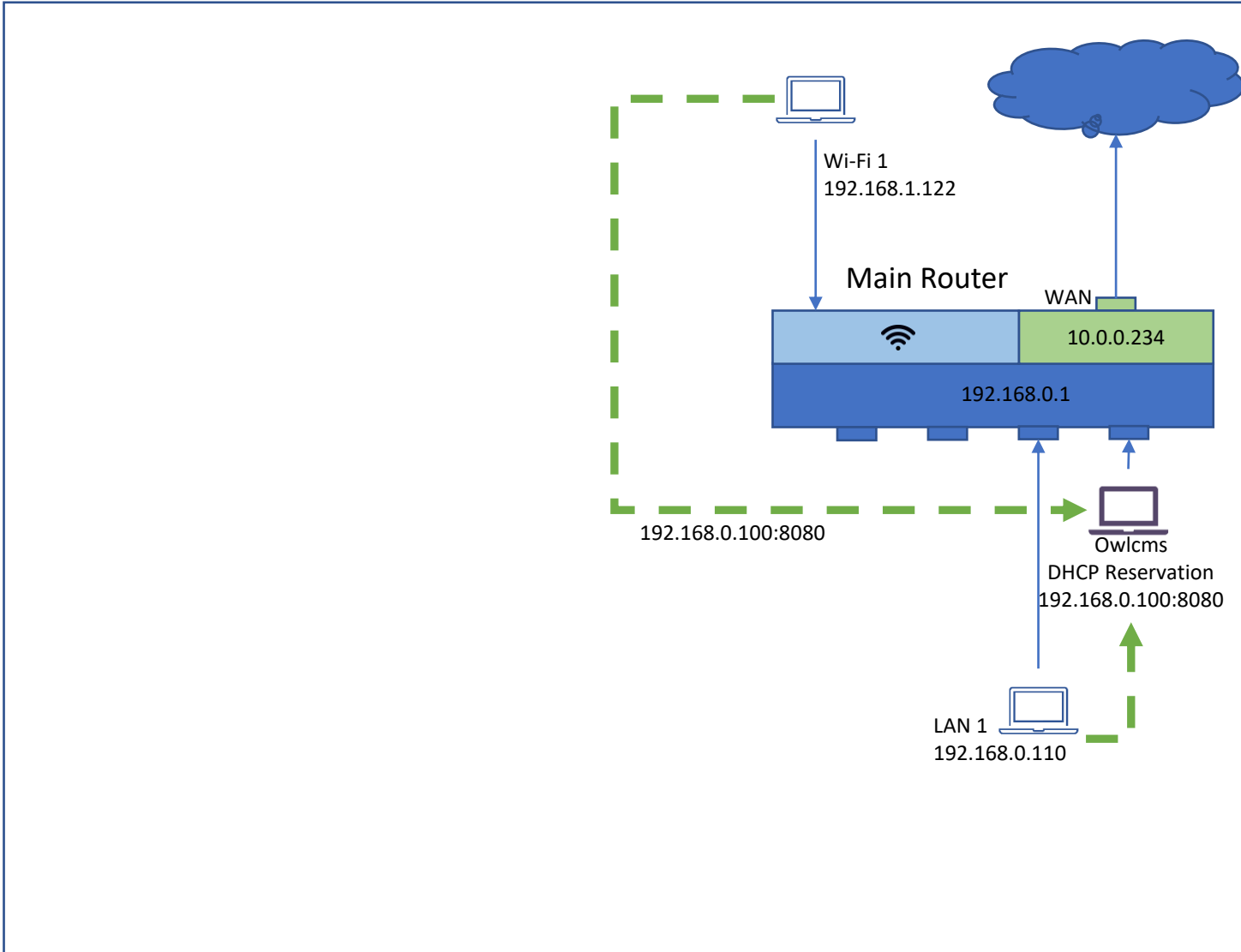


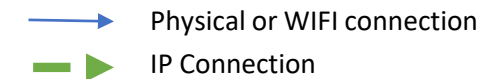
Networking Setup

- The following pages show several networking configurations, in increasing order of capability
- Goals:
 - To use normal home networking equipment (consumer-grade routers, switches and access points) you can get at the normal electronics outlets
 - To limit configuration to what a regular hobbyist normally does (set the Wi-Fi names, open gaming ports)
- Notes:
 - The Internet addresses used don't matter. The ones used are realistic, but yours will most likely be different.



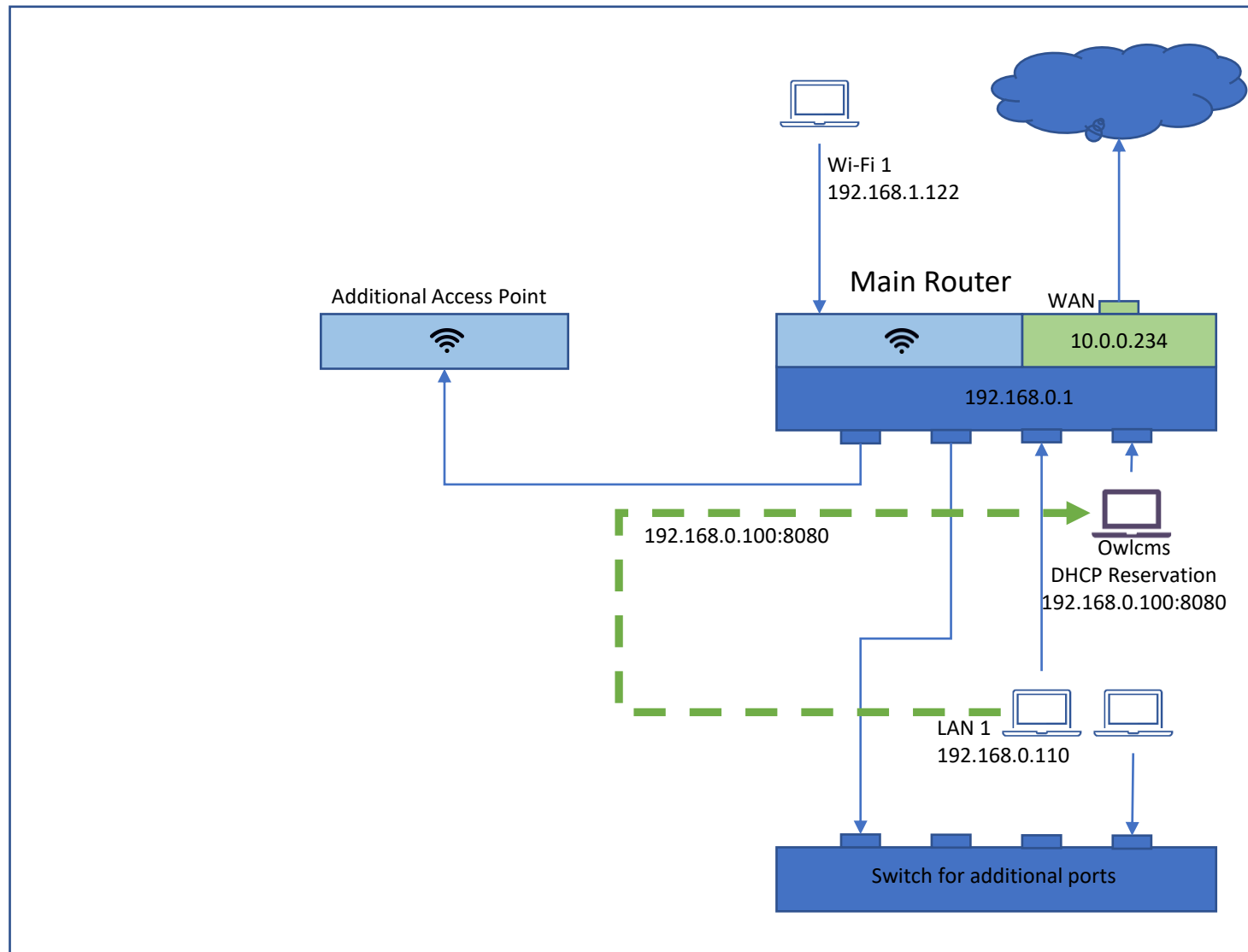
Simplest setup

- One main router
- WAN can connect to internet if needed.
- Connections are Wi-Fi
 - But the main laptop should be wired
- Optionally, you can also wire the announcer, etc.



Competition Network

- All machines see owlcms using its 192.168 address



Competition Network

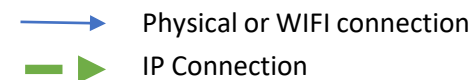
- All machines see owlcms using its 192.168 address

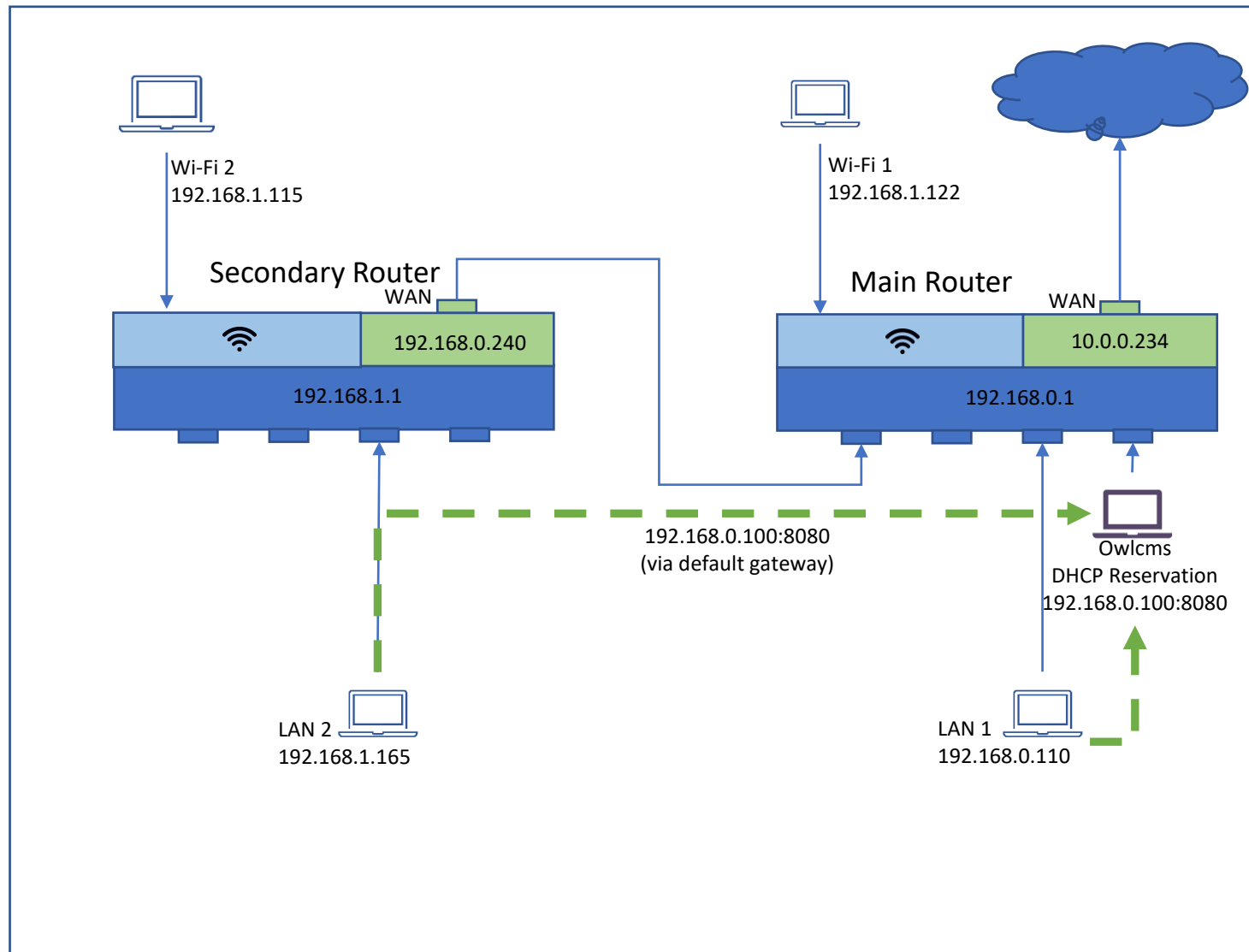
Wired setup (bad Wi-Fi or long distances)

- One main router
- WAN can connect to internet if needed.

For remote or dead spots

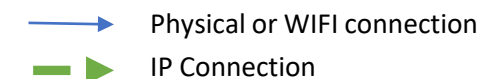
- Connect a switch to the router, or
- Connect an access point to the router, or
- Connect a router to the router (see next page)





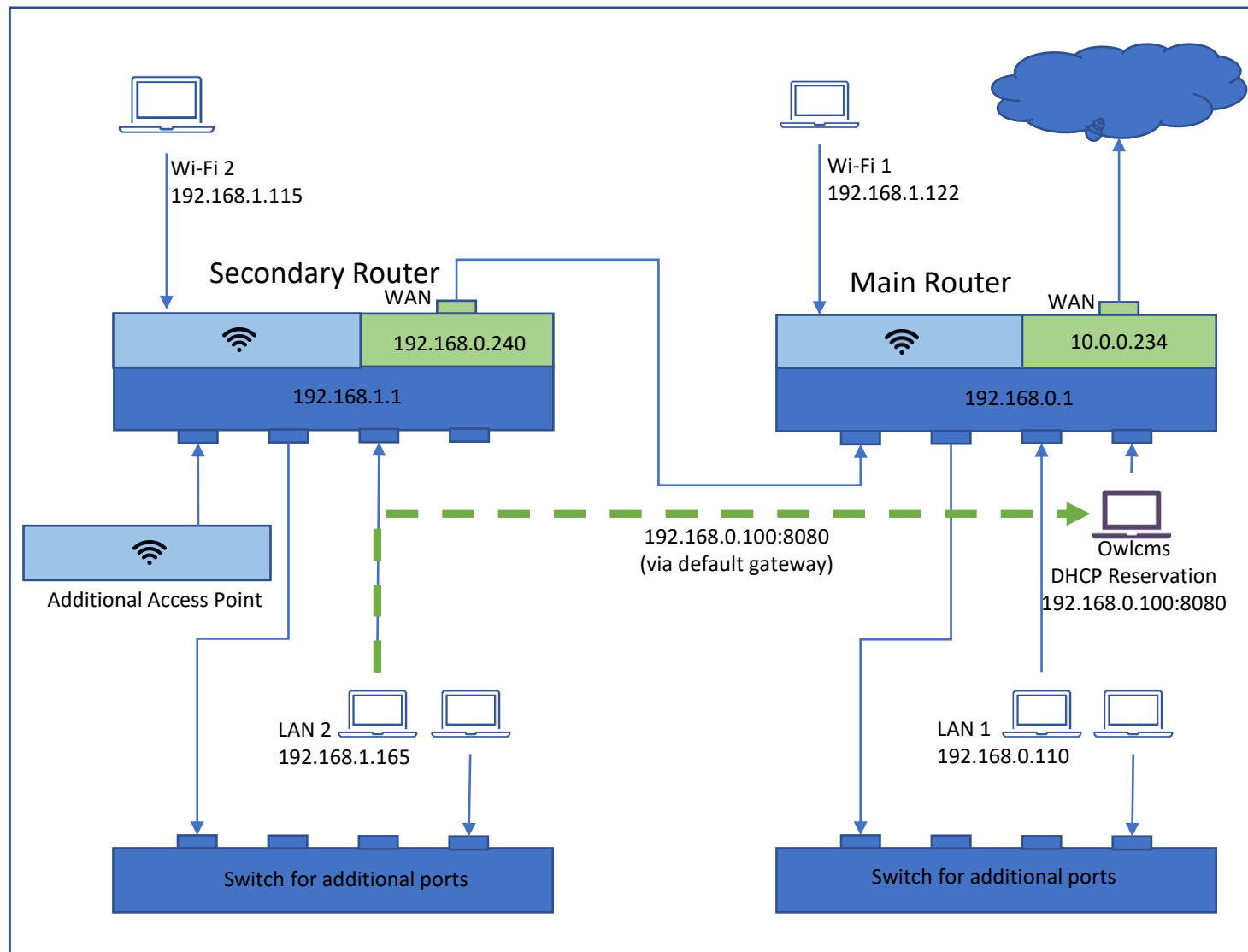
Distant room using routers

- You can connect a router to any of the LAN ports
- On the secondary router(s)
 - For simplicity use different names for each Wi-Fi networks
 - Ideally, change the Wi-Fi channel to be different
- This should work “plug and play”



Competition Network

- All machines see owlcms using its 192.168 address
- One secondary router per additional platform or room

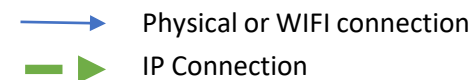


Competition Network

- All machines see owlcms using its 192.168 address
- One secondary router per additional platform or room

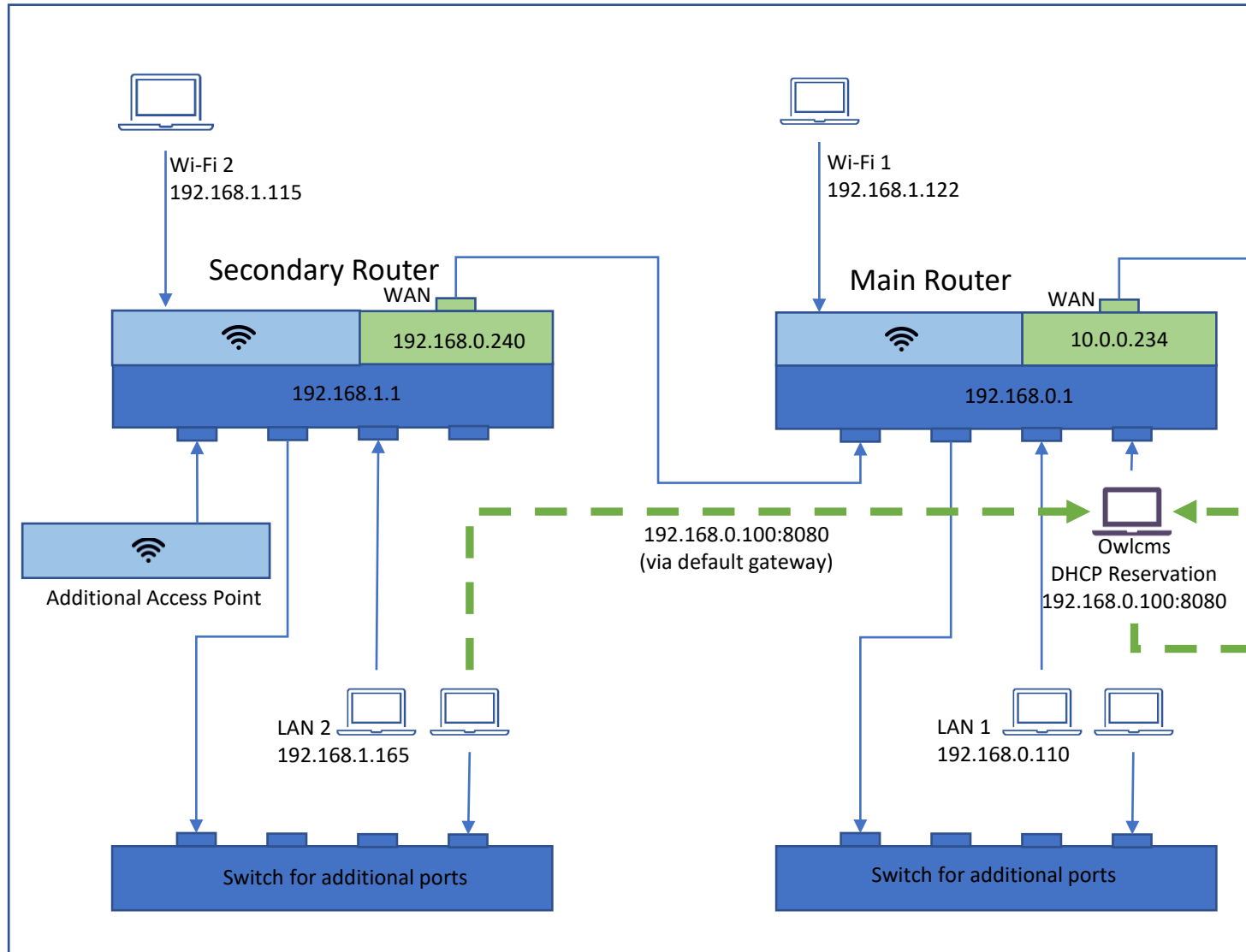
Multiple platforms

- One secondary router per additional platform, connected to the main router.
- Use different Wi-Fi names and different channels for each platform
- You can still connect one or more switches or access points to each router if you need more ports.



Competition Network

- All machines see owlcms using its 192.168 address
- One secondary router per additional platform



Isolated Video Network

- Needs a redirection to see owlcms
- Avoids video traffic hitting the competition router

