



AV Network Best Practices (Managed Switch Network Infrastructure)

*"The network is the foundation of a reliable system."*

Best Practice's AV Network

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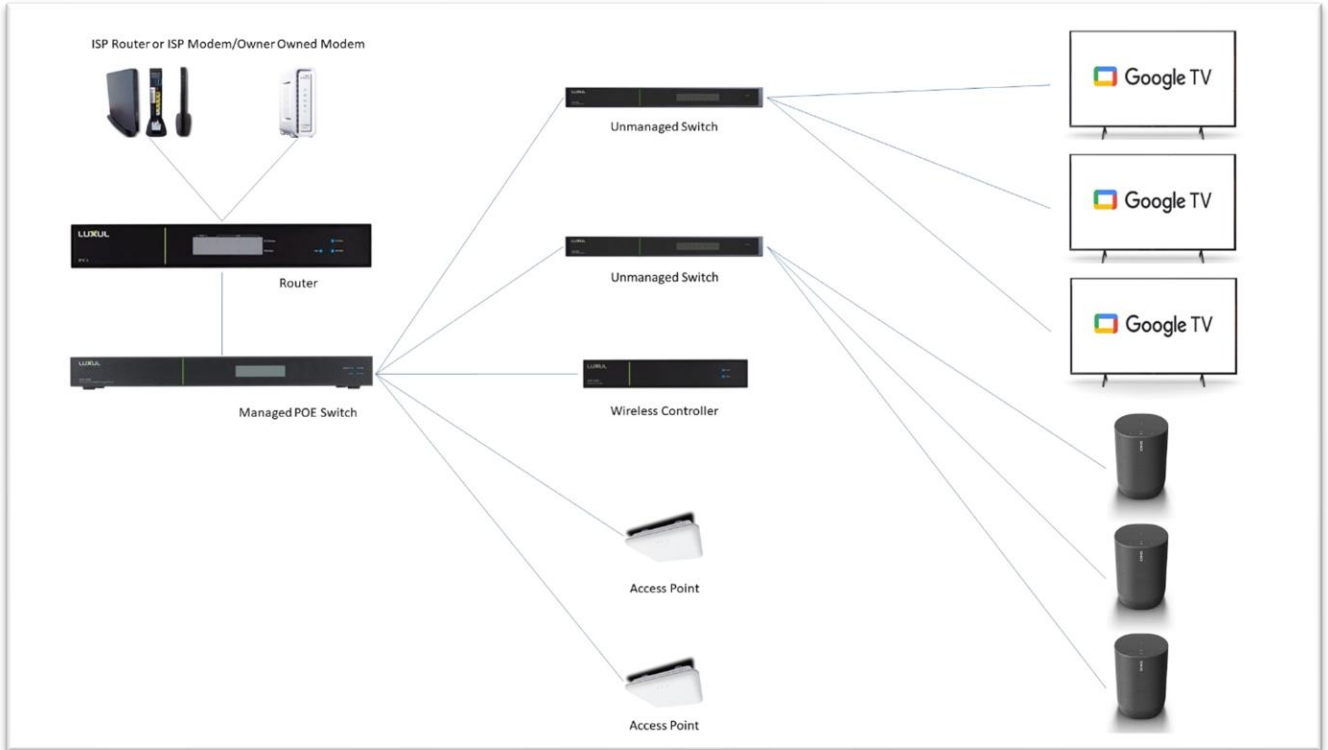
Building the Infrastructure: (Multiple Configurations)  
*This is assuming understanding of network configurations.*

## **Android/Google TV and Sonos are Used as Examples**

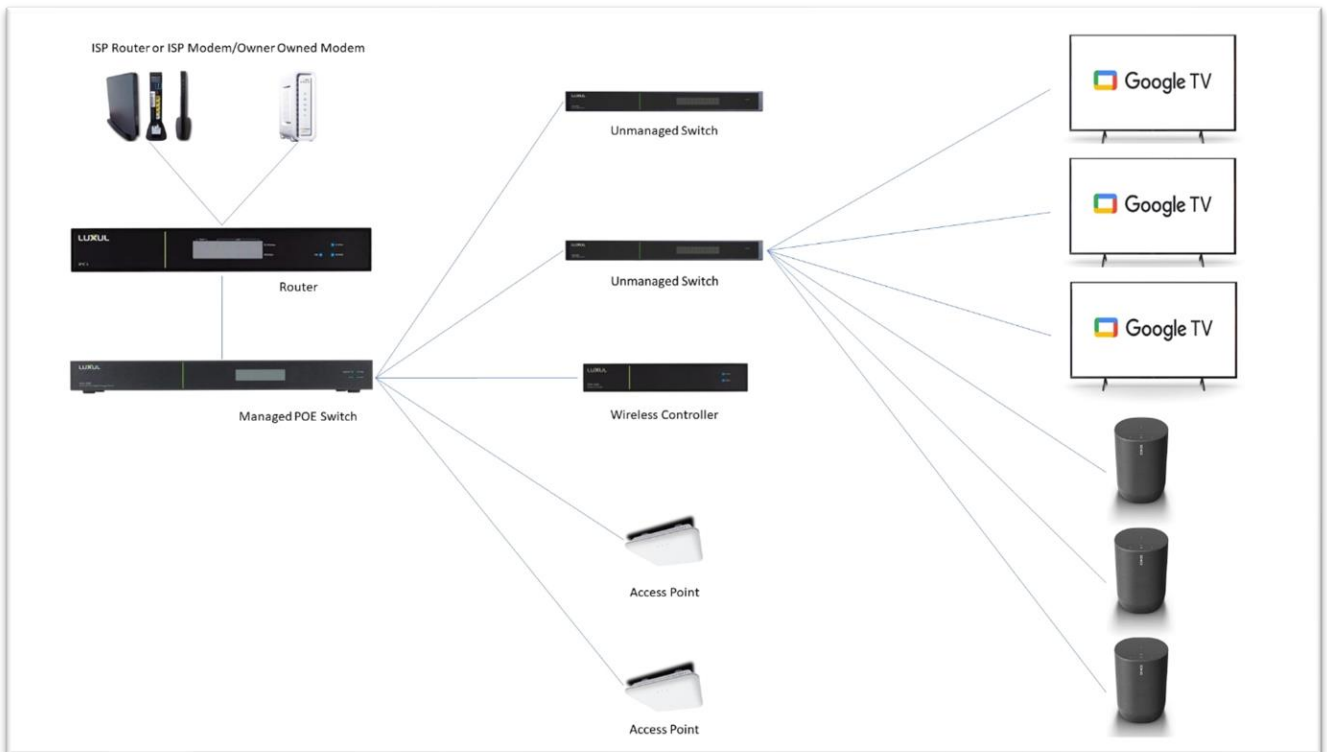
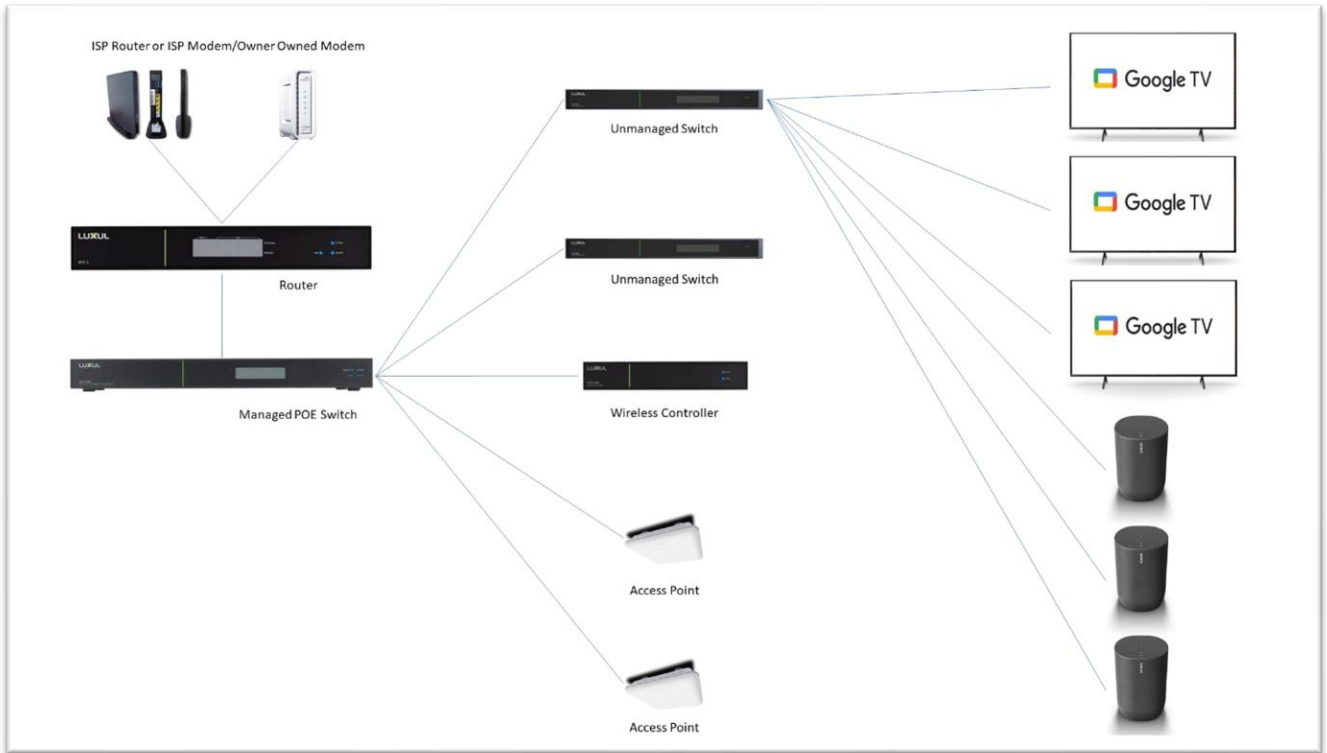
### **Recommended "Best": (Managed Switch)**

- Layer 3 Router – Behind Configured ISP Router or ISP/Consumer Purchased Modem
- Layer 3 Managed Switch – Behind LAN Layer 3 Router
- Non-Blocking and Full-Duplex Layer 2 Unmanaged Switch(s) – Cascading from Layer 3 Managed Switch
- Multiple APs or Single AP – Behind Layer 3 Managed Switch

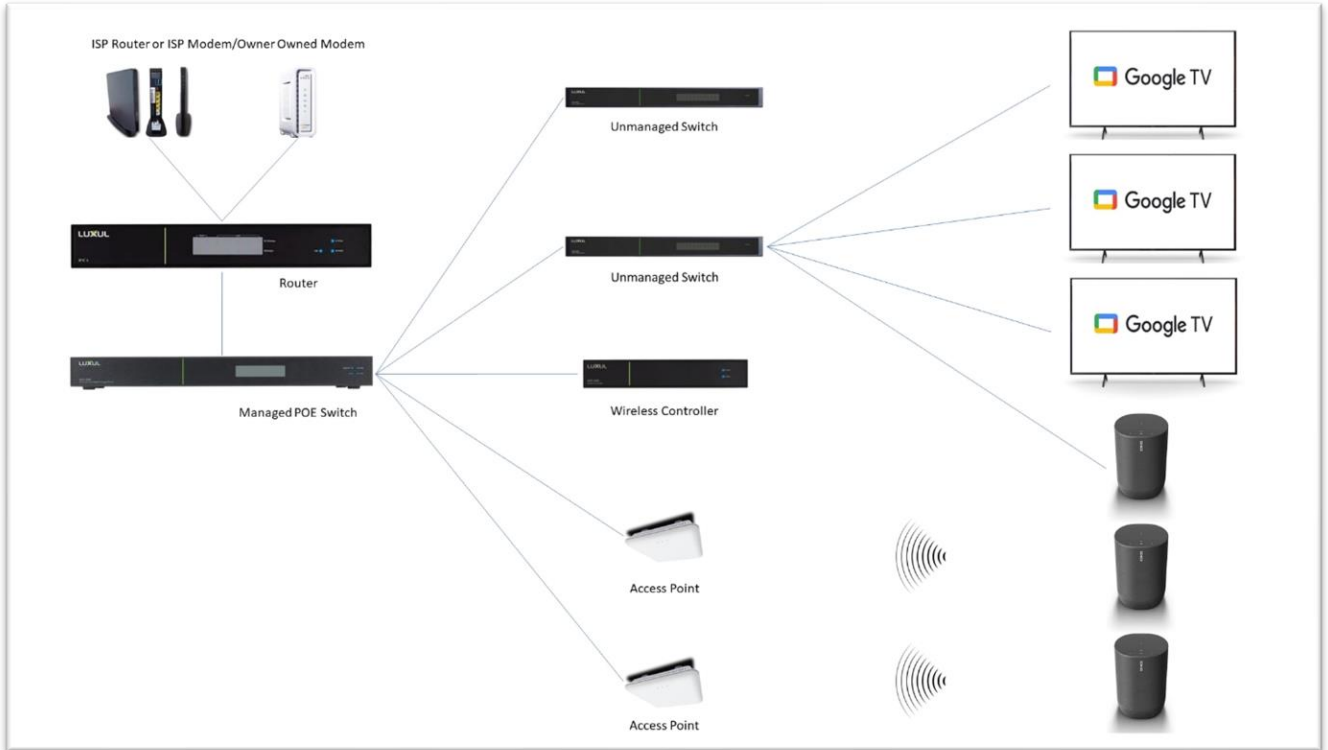
- **Option 1:** All “Like” Protocols or Devices on Same Switch. *(See Below)*
  - All Google TVs Wired to One Switch
  - All Sonos Devices Wired to One Switch



- **Option 2:** Multi “Like” Protocols or Devices can Share the Same Switch. (See Below)
  - All Google TVs Wired to Same Switch and Sonos Devices



- **Option 3:** If you are using Sonos, make sure (1) is Wired and the rest can be Wireless (*See Below*)
  - Make Sure the APs are All on the Same Switch (This Diagram is using the POE of the Managed Switch) (*See Below*)



- **Option 4:** Google TVs in this Configuration can All be on Wi-Fi, Sonos will still need (1) Wired Connection (*See Below*)
  - Make Sure the APs are All on the Same Switch (This Diagram is using the POE of the Managed Switch) (*See Below*)

