

Network Assessment Report
Router Placement and Connected Devices
Router Location:

The modem/router is centrally positioned in the central bedroom, ensuring equal access from various parts of the house.

Connected Devices:

Central Bedroom:

One computer connected with a 5-meter CAT6e cable.
Security cameras connected with a 0.5-meter CAT5e cable.
Master Bedroom:

Chromecast connected to Wi-Fi for media streaming.
Other Bedroom:

One computer connected with a 5-meter CAT5e cable.
Lounge:

Fiber box connected to the modem/router with a 10-meter CAT6e cable.
Smart TV connected to Wi-Fi for entertainment.
Home phone connected with an RJ11 cable for communication.
Mobile Devices:

Five mobile phones and three laptops that move frequently, utilizing Wi-Fi connectivity.

Wi-Fi Coverage and Signal Strength
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Central Bedroom:

2.4GHz: ~48 dBm
5GHz: ~55 dBm
Master Bedroom:

2.4GHz: ~36 dBm
5GHz: ~44 dBm
Other Bedroom:

2.4GHz: ~23 dBm
5GHz: ~29 dBm
Lounge:

2.4GHz: ~44 dBm

5GHz: ~35 dBm
Outdoor Coverage:

The connection extends only a few meters outside the house.

Router Placement Requirements and Cable Optimization

Router Placement Requirements:

Utilization of existing holes in the floor for cables.

Ensuring good airflow to prevent overheating.

Central and elevated placement for optimal signal distribution.

Ethernet Cable Optimization:

Current cables are of sufficient quality (CAT6A, CAT5e).

Cables intentionally longer to accommodate device movement.

Concerns and Flexibility:

No immediate concerns with the current setup.

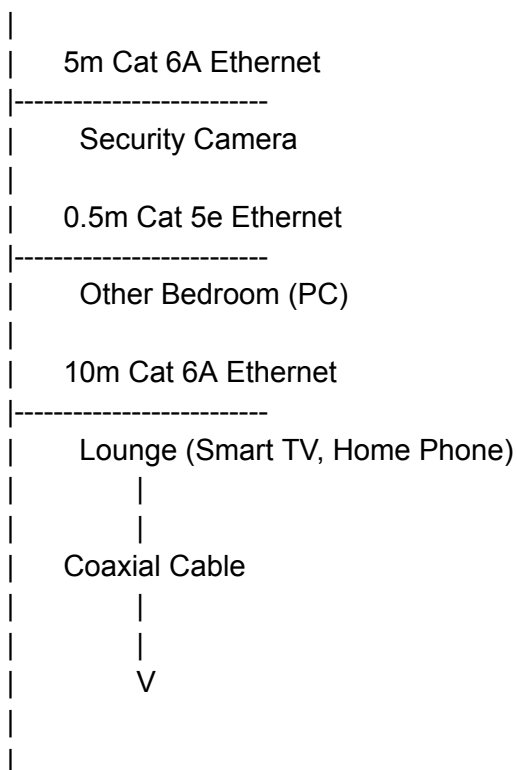
Designed for flexibility and consistent coverage throughout the house.

Diagram Representation:

lua

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Central Bedroom (Router Location)



Satellite for Sky TV

Conclusion and Skills Demonstrated:

This Network Assessment Report showcases:

Understanding of router placement for optimal coverage.

Knowledge of different cable types and their usage.

Consideration of Wi-Fi signal strength for various areas.

Ability to design a flexible and efficient home network setup.

Personal Note:

This assessment reflects my practical experience and commitment to maintaining a robust and efficient home network. I continually strive to optimize performance and ensure seamless connectivity for all devices.