Recommendations for a safe, secure and effective home network

- Separate modem (or ISP router functionality reduced) as close to the outside line as possible (DSL, Cable and even Fibre).
- Wired Ethernet to televisions, fixed PCs, APs etc (Powerline if absolutely impractical to cable but specific uses only).
- Use local router/switch for multiple devices together such as in a study.
- Dedicated WIFI Access Points. Most domestic homes just need a good ceiling AP on the landing ceiling and if necessary the hall ceiling. Providing multiple SSIDs and adjusted power (about £70 each).
- Use PoE equipment or passive PoE so that devices can be powered via the cable enabling them to be located where they are needed and not compromised by the nearest power socket.
- Using the above segregate the network for security (Guest, Streaming/Alexa/Hive etc, Printer/PC/Storage). e.g my APs are on a time switch and my Guest one is only powered when needed.
- Centralise the power supplies if you can to one or two locations so you can use a UPS (with 13 amp sockets), even a light bulb can trip the home power. A network should be tested and recover from power failure without the need for reconfiguration but even the best kit can get a little confused depending on how the power goes down.