BLISs - IT Network Requirements

Network Requirements for Running the BLIS Suite

To ensure optimal performance and smooth operation of the BLIS Suite, the following network requirements should be met:

1. Network Connectivity Requirements: The Gener8-Healthcare BLIS Space necessitates a reliable and robust network connection to facilitate seamless data transfer and scenario execution. There are three connectivity options to be considered: a hardwired connection, a WiFi connection, or a Gener8-Healthcare hub with a 4G or 5G data card.

1.1 Hardwired Connection: A dedicated open network port is required to connect the BLIS Space to the local network infrastructure. The port should be exclusively designated for the BLIS Space to minimize any potential interference or disruptions. The network port should meet the following criteria:

- Port Type: Ethernet (RJ-45)
- Speed: The minimum required speed is 10-11 Mbps for download and upload operations.
- Ideal Speed: An ideal speed of 60-1000 Mbps is preferred for optimal performance.
- Connection Reliability: The network port must provide a stable and consistent connection to avoid interruptions during critical scenarios.

1.2 WiFi Connection: If a hardwired connection is not feasible or practical, a WiFi connection can be considered as an alternative. The WiFi network should adhere to the following specifications:

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- WiFi Standards: The network should support the latest WiFi standards to ensure high-speed data transfer.
- Speed: The WiFi network's speed should be capable of at least 10-11 Mbps for both download and upload operations.
- Ideal Speed: An ideal speed of 60-1000 Mbps is preferred for the best user experience.
- Security: The WiFi network must be secured with WPA2 or higher encryption to protect sensitive data and ensure a safe working environment.
- Signal Strength: The WiFi signal strength should be robust enough to cover the entire BLIS Space area without any dead zones.

1.3 Gener8-Healthcare Hub with 4G or 5G Data Card: As an alternative, Simovation can provide a dedicated hub for connecting the BLIS Space to the internet. The hub can be equipped with a 4G or 5G data card, ensuring connectivity even in areas with limited wired network access. This option allows for increased flexibility and mobility while maintaining a high-speed and stable connection.

2. Full Internet Access: The PC requires full internet access to enable seamless connectivity for the Intuiface content. This access is necessary for real-time data updates, content synchronisation, and any web-based functionalities integrated into the BLIS Suite.

3. Isolated VLAN (Optional): To enhance security and limit the PC's network access to only the necessary resources, it can be placed on its own VLAN (Virtual Local Area Network). This setup helps isolate the BLIS Suite PC from other network devices, reducing potential security vulnerabilities and minimizing network interference.

4. Quality of Service (QoS) Settings (Optional): If possible, consider implementing Quality of Service (QoS) settings on your network equipment. QoS prioritizes network traffic, ensuring that the BLIS Suite's data packets receive preferential treatment over other less critical traffic, further optimising performance.

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5. Network Redundancy (Optional): For mission-critical applications, implementing network redundancy measures can be beneficial. Redundancy provides backup network connections in case the primary connection fails, minimizing downtime and ensuring continuous operation of the BLIS Suite.

6. Liability Disclaimer: Simovation hold no liability for any sensitive data used over the network by students, faculty members, or staff. As all data is anonymized, any user-generated content is the responsibility of the users themselves, and they must adhere to ethical guidelines while using the BLIS Space.

By meeting these network requirements, you can create a stable and secure environment for running the BLIS Suite, ensuring an exceptional user experience and unhindered access to Intuiface content.

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