

The image features a large black hexagonal graphic on the left containing the 'SmartClass' logo in a blue speech bubble and the text 'BY ROBOTEL' and 'NETWORK RECOMMENDATIONS' in white. The background is a blurred photograph of a server rack with blue network cables plugged into ports, overlaid with a blue circuit board pattern.

SmartClass[®]

BY ROBOTEL

NETWORK RECOMMENDATIONS

These recommended requirements apply to the SmartClass language teaching platform when equipped with software-based audio Intercom and screen-sharing.

For systems using either hardware-based audio Intercom and/or screen-sharing, the requirements are less demanding.

NETWORKING INFRASTRUCTURE

Common Workgroup or Domain:

- All stations should be part of the same Domain or Workgroup.
- Multiple VLANs can be used if communication needed for **SmartClass** is opened between the VLANs.

Wired Networks:

- Teacher stations and all SmartClass Servers require 1 Gbps wired connections or better.
- Student stations can use wired 100 Mbps links (1 Gbps recommended).

WIFI Networks (for LIVE student devices):

- Wireless Access Points using IEEE 802.11AC 5 GHz or better, using dedicated SSID for **SmartClass** labs.

LAN TCP Port 80:

- Windows devices running the *SmartClass Teacher LIVE app* or *BYOD Manager* must reserve TCP port 80 exclusively for **SmartClass**.
- WEB Manager is using port 80 by default, but it can be moved to a different port if port 80 is already used on the Windows Server hosting it.

Firewalls, Anti-virus software & Proxy servers:

- Any restrictive software that potentially interferes with the operation of **SmartClass** must be configured to support transparency of all executable SmartClass services and inter-service communications.

This document has been prepared for technical personnel.

It should be shared with members of the school's IT department.

Every attempt has been made to cover all key requirements, but for more in-depth coverage, please refer to the installation guides for the various SmartClass modules (**HUB, LIVE, WEB Manager, BYOD MANAGER**).