ABii Technical FAQ

How will a user interact with the robot?

- Users will use a device to interact with the robot through a web application hosted on the robot, and accessed through the device's web browser.
- The robot contains its own wireless access point. A device must be connected to the robot's network in order to access the web application.
- The robot can connect to an external wireless access point in order to access the internet.



ABii connects to external wifi network   Device connects to ABii's network

What devices does the robot support?

The robot should work with any laptop or tablet, including iPads and Chromebooks.

- If there is additional content filtering and/or security software running on the device (common on student devices), it may interfere with the device's ability to run the web application.
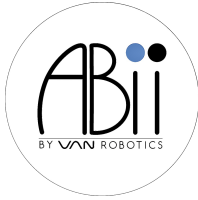
What web browser should I use to work with the robot?
Google Chrome is officially supported.

Does the robot require a wireless connection?
The robot does not require a persistent wireless internet connection to function. However, the robot does require an internet connection in order to perform software updates and download new content. The robot does not store images or audio recordings of users, locally or otherwise.

**What needs to be done to get the robot online?**
The web application provides an interface for configuring the robot's connection to an external WiFi network, which should be sufficient to configure connections to networks with simple authentication schemes.

- This includes open networks, WPA-PSK, and some EAP schemes.
- ABii is *not* currently able to navigate captive portals.
- For other network configurations, we are happy to work with your IT department to get your robots configured/connected.
- The robot's MAC address is listed on the web application's "My Robot" page, and may be an alternate way to authenticate the robot on your network.
- The robot is able to connect to WiFi networks broadcasting on the **2.4** and **5 GHz** bands (some older robots are only able to use the 2.4 GHz band).
- The robot needs to be able to initiate certain web traffic, listed below or in the web application.

What do I need to whitelist? (*ATTENTION*)
The robot must be able to initiate the following traffic:

- **HTTP** connections through ports **80** and **443** to**:**
  - abii-update.abiis-world.com
  - comm-management.abiis-world.com
  - lesson-assets.abiis-world.com
  - mylessons.abiis-world.com
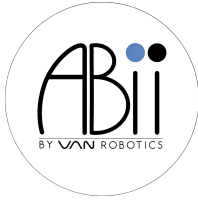
- **SSH** connections through port **80** to:
    - abii-update.abiis-world.com

The user's device must be able to initiate the following traffic:
- **HTTP** connections through ports **80** and **443** to:
    - accounts.abiis-world.com
    - comm-management.abiis-world.com
    - mylessons.abiis-world.com

NOTE: While a user's device is connected to ABii, any content filtering software running on the device will be unable to access the building's network. If your filtering software requires network access to allow/block content, it can cause ABii's web app to run very slowly.

## Is a student able to access the internet while working with the robot?

The robot's access point is not configured to act as a bridge; a user's device will **not** be able to access the internet while the device is connected to the robot's access point.

Are regular security updates available for the robots if they require a network connection?

Yes. Security updates may be applied as part of the robot's update process.

How can I create a student account and what information is required?

- In the web app, teachers create an account. From the teacher's dashboard, the teacher must create a class, and then add students to the class.
- We are COPPA Compliant. When creating student accounts, teachers must check the appropriate box to confirm that the student has signed an Acceptable Use policy.
- The required fields to create a student are first and last name.
- A default password will be generated for each student. This password can be reset.
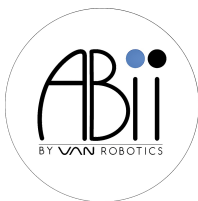
Student Data and Privacy

Please find information about our company's commitment to securing student data and consent below. We are a COPPA and FERPA compliant company and adhere to the following guidelines when it comes to student data:

1. ABii collects minimal student data and does not record video, images or voice.
2. ABii collects student name, performance and attentional target (where the student is looking - whether it is the screen, robot or elsewhere). No other student data is collected.
3. Van Robotics does not share data with any third party for commercial purposes. If student data is requested for the purpose of empirical research, an IRB-approved parental consent will be required for any students participating in the study and only de-identified student and school data may be used for grant reporting and research publication.
4. Student data remains on the local ABii robot, unless the teacher or school staff member syncs the robot.
5. Student data that is SYNCED, will be securely transmitted (via https) to a secure server in the Microsoft Azure platform.
6. All student data may be permanently deleted by the teacher or school staff at any time.