🔍   **Bambu Lab Blog**   Subscribe

News   MakerWorld   User Stories   Store   Guides

Firmware Update Introducing New Authorization Control System

Launching first for X Series printers, with P and A Series updates planned for future release

Bambu Kidd
Jan 16, 2025 — 3 min read

As part of our ongoing commitment to enhance the overall security of our products, we are introducing an **authorization and authentication protection mechanism** for the connection and control of Bambu Lab 3D printers. This step is a significant security enhancement to ensure only authorized access and operations are permitted.

This change is mitigating any risk of remote hacks or printer exposure issues that have happened in the past and also lower the risk of abnormal traffic or attacks.

Introduction of Firmware and Software Updates

Starting January 16th, users will have access to the beta firmware, with the official release following on January 23rd:

- **New firmware update for X1 Series 3D printer** (version 01.08.03.00 or above).
- **Corresponding new versions of Bambu Studio** (version 01.10.02.64 or above) and Bambu Handy (version 2.17.0 or above).

These updates will introduce authorization controls that require official authorization for critical printer operations. Furthermore, unauthorized third-party software will be prohibited from executing critical operations.

During this transition, we're working closely with our integration partners to ensure a smooth migration to the new security framework. Our team will provide comprehensive documentation and support to assist with any necessary adjustments.

Critical Operations That Require Authorization

The following printer operations will require authorization controls:

- Binding and unbinding the printer.
- Initiating remote video access.
- Performing firmware upgrades.
- Initiating a print job (via LAN or cloud mode).
- Controlling motion system, temperature, fans, AMS settings, calibrations, etc.

Operations That Do Not Require Authorization

The following actions will remain unaffected by the authorization mechanism:

- Sending status information from the printer (e.g., MQTT status push for tools like HomeAssistant).
- Starting a print job using SD cards.
- General operations outside the listed authorization controls.

Important Information for End Users

To ensure seamless usage, please note the following:

1. **Updating the Firmware with Authorization Features:**
   If you upgrade your printer to the latest authorization-controlled firmware, you must also update Bambu Studio and Bambu Handy to their latest versions simultaneously. Failure to do so may result in certain printer controls becoming unusable.

2. **Old Firmware Option:**
   Users who decide to use an older firmware version can still use the previous or new versions of Bambu Studio and Bambu Handy without restrictions.

Network Plugin for Third-party Slicer

Network plugin API for Third-party slicing tools (e.g. OrcaSlicer) based on open-source Studio development will no longer be able to utilize Studio's network plugin API for authorization control. For these users, Bambu Connect client software will act as a replacement. This new software removes slicing functions while enabling remote control and print initiation.

About Bambu Connect Client Software

To make the experience more secure for our users, but still keep access to printer control using other slicer, we are providing a new software tool called Bambu Connect.

Bambu Connect is an intuitive and efficient tool designed to seamlessly link with Bambu Lab 3D printers. It securely transmits sliced Bambu Lab G-code and 3MF files to your printer, ensuring a smooth and reliable printing experience.

Currently, Bambu Connect is in beta, and we are still working on adding new features for it. We welcome everyone's suggestions and feedback.

Important Information for Partners

We advise our partners to pay close attention to the following:

1. Please pay attention to the user restrictions outlined above, for end users.
2. Bambu Lab will release technical documentation, new software, and offer support to assist partners in adapting their systems and developing software solutions compatible with the new X Series firmware and authorization controls. For access to our technical documentation, please email devpartner@bambulab.com.
3. Partners can maintain or downgrade their firmware versions until technical updates are fully implemented.

Information for OrcaSlicer users

1. You can continue using your X Series 3D printer with the older firmware version (which does not include Authorization Features).
2. If you choose to upgrade to the firmware version with Authorization Features, you must download and install Bambu Connect (a printer control software) from the official website. After installation, you can export sliced `.3mf` files from OrcaSlicer and open them with Bambu Connect. This software allows you to send the files to your printer and monitor print progress.

Information for users of third-party software or hardware accessories

1. To control your X Series printer using third-party software or hardware accessories, it is recommended to keep your printer on the older firmware version (without Authorization Features). Upgrading the firmware will prevent third-party software or hardware from controlling the printer.

2. If you upgrade to the firmware with Authorization Features, you will only be able to monitor print progress and status (e.g., status updates in HomeAssistant).

Future Implications

All future Bambu Lab printer models will integrate authorization control technology as standard to ensure the highest levels of user security and printer protection moving forward. We acknowledge that these changes may introduce additional effort and workload. However, through our joint efforts and cooperation, we believe we can improve the security, quality, and user experience of Bambu Lab's 3D printing products and services.

If you have any technical questions about the new authorization features, please contact devpartner@bambulab.com.

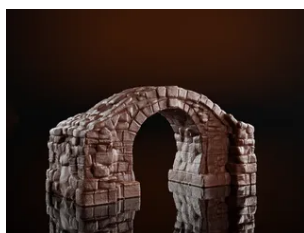We greatly appreciate your support and collaboration.

READ MORE

How a Local 3D Printing Shop Led a Nationwide Disaster Relief After Hurricane Helene

Beverly Tan and a nationwide network of makers used...

By Nadia Yaakoubi — Jan 10, 2025

for Miniatures: the Ultimate Guide

The many kinds of 3D printing materials all have their own...

By Bambu Owl — Jan 9, 2025

Design, Print, Repeat: Josh's DIY Adventure

"When I got my X1C, it was a mix of excitement and also,...

By Lindy Lam — Jan 2, 2025

How 3D Printing is Shaping the Next Generation of Engineers

The Impact of 3D Printing in Education

By Nadia Yaakoubi — Dec 20, 2024

Subscribe for updates

Get Bambu Lab news and announcements delivered right to your inbox.

jamie@example.com

Subscribe