

OlinAttendance Agent

Installation Manual

Version 1.0.13

Olin Innovations Limited

1. Introduction

The OlinAttendance Agent is a lightweight application that runs on your local network. It connects your ZKTeco biometric devices to the OlinAttendance cloud server, enabling:

- Automatic attendance log collection from biometric devices
- User upload and synchronization with devices
- Device connectivity testing and time synchronization
- Real-time communication with the cloud server

Requirements

- A computer on the same network as your biometric devices
- Windows 10/11, Linux (Ubuntu 18+), or macOS 12+
- Network access to the OlinAttendance server
- An agent token generated from the web dashboard

2. Download the Agent

Visit <http://attendance.olininnovations.co.ke> and scroll down to the "Download Agent" section. Download the appropriate version for your operating system:

- Windows: olin_attendance_agent.exe
- Linux: olin_attendance_agent
- macOS: olin_attendance_agent_macos

Save the file to a permanent location (e.g., C:\OlinAttendance\ on Windows or /opt/olin-attendance/ on Linux).

3. Get Your Agent Token

You need an agent token to authenticate the agent with your server:

1. Log in to the OlinAttendance dashboard at <http://attendance.olininnovations.co.ke>.
2. Navigate to Settings > Agent Configuration.
3. Click "Generate Token".
4. Confirm with your password when prompted.
5. Copy the displayed token immediately - it will only be shown once.

Important: Store the token securely. If lost, you will need to generate a new one.

4. Configure the Agent

On Linux/macOS, first make the binary executable:

```
chmod +x olin_attendance_agent
```

Run the agent to start the interactive setup:

```
./olin_attendance_agent
```

On Windows, double-click the .exe file or run from Command Prompt:

```
olin_attendance_agent.exe
```

You will be prompted to enter your Agent Token (the token you copied from the dashboard). The server URL is already built into the agent.

The agent will verify the connection and save the configuration.

5. Service Installation (Automatic)

After configuration (Step 4), the agent automatically installs itself as a background service. No manual action is needed.

The service:

- Starts automatically when you log in
- Polls the server for commands at a configurable interval
- Reconnects automatically if the connection is lost

To manually reinstall or uninstall the service:

```
./olin_attendance_agent install  
./olin_attendance_agent uninstall
```

6. Updating the Agent

The agent checks for updates on startup and notifies you if a new version is available. To update:

```
./olin_attendance_agent update
```

This will download the latest version, replace the current binary, and automatically restart the service.

7. Troubleshooting

Agent shows "offline" in the dashboard

- Ensure the agent computer can reach the server URL
- Check that firewalls allow outbound HTTP/HTTPS traffic
- Run `./olin_attendance_agent test` to verify connectivity

Devices not responding

- Verify devices are on the same network as the agent computer
- Check that device IP addresses and ports are correct in the dashboard
- Ensure no firewall blocks traffic on the device port (default: 4370)

Token expired or invalid

- Generate a new token from Settings > Agent Configuration
- Reconfigure the agent with: `./olin_attendance_agent configure`

Manual restart

If the agent service is not running:

```
./olin_attendance_agent start --foreground
```

This runs the agent in the foreground for debugging. Press Ctrl+C to stop.