

GRL Platform Solutions

GRLPS Connection Agent User Guide

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1 Introduction

The GRLPS Connection Agent application provides a dedicated desktop agent that runs alongside the GRLPS Host App as an Equipment Server. The agent exposes a stable HTTP endpoint and manages VISA connections so remote instruments stay reachable without manual network setup.

The GRLPS Connection Agent enables the following features:

- Equipment Server: Local HTTP endpoint with live status and connected clients
- Active VISA management: Switch between instruments without restarting the GRLPS Host App
- Logs and tray control: Minimize to system tray while the server keeps running

This User Guide describes how to set up and use the GRLPS Connection Agent in the following sections.

2 Download and Install GRLPS Connection Agent

If a GRL Platform Solutions test automation software is installed on the PC to control the connected equipment e.g., oscilloscope and BERT, download the GRLPS Connection Agent application and install it on all the connected equipment.

1. Download the GRLPS Connection Agent application from https://www.grlps.com/grlps-connection-agent.
2. Run the installer by double-clicking on the extracted executable (*GRLPS_Connection_AgentApplicationxxxxxxxxxSetup.exe*) and then click on the 'Next' button.

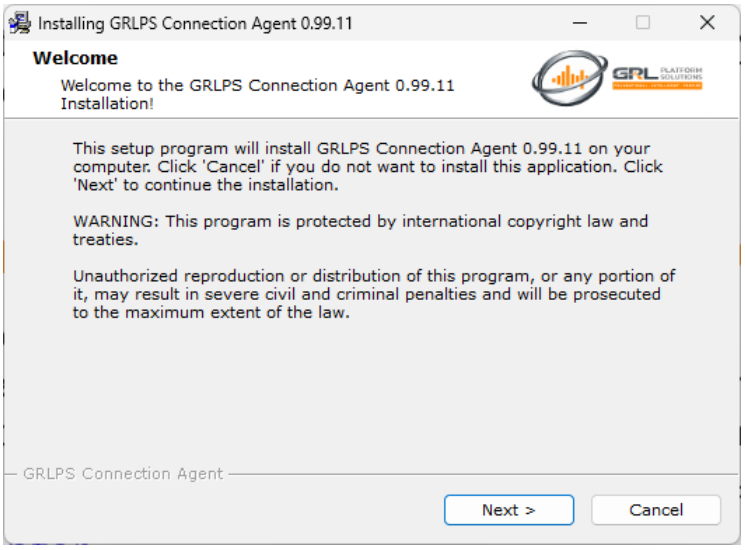


Figure 1. Start GRLPS Connection Agent Application Installation

3. Read and accept the license agreement by clicking on the 'I agree with the above terms and conditions' button and followed by the 'Next' button.

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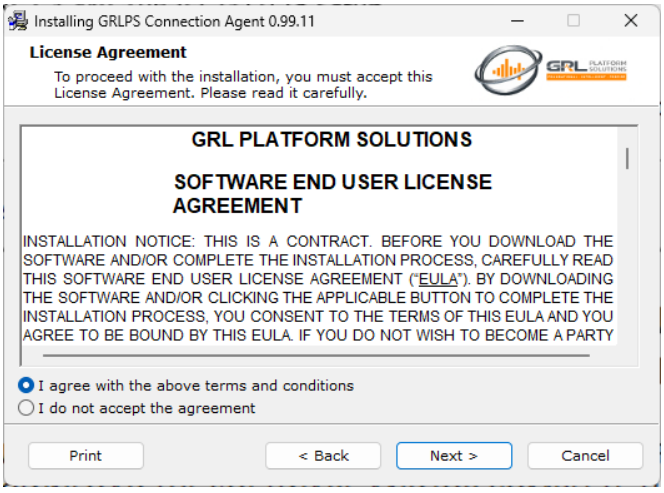


Figure 2. Accept GRLPS Connection Agent Application License Agreement

4. In the next window, click on the 'Next' button to proceed with the application installation.

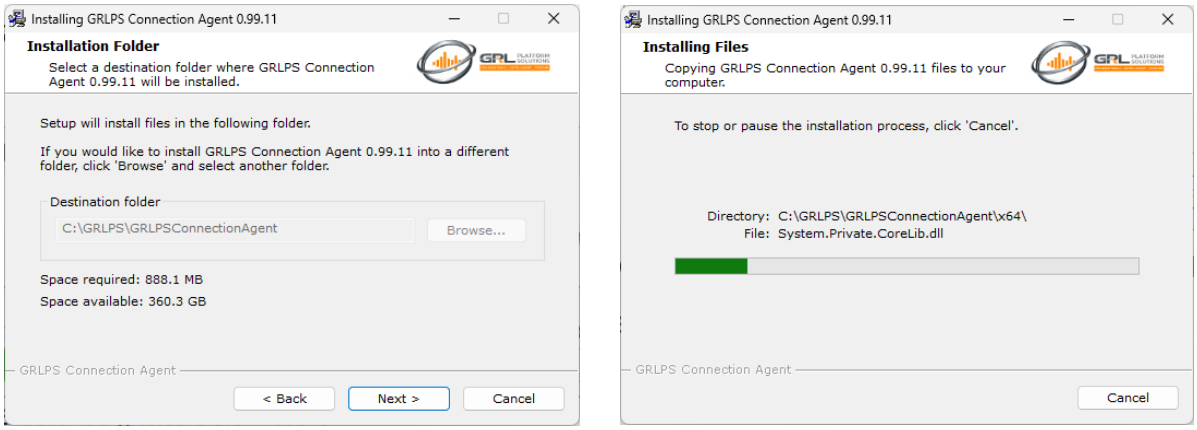


Figure 3. GRLPS Connection Agent Application Installation In Progress

5. Upon completion, click on the 'Finish' button to complete the application installation.

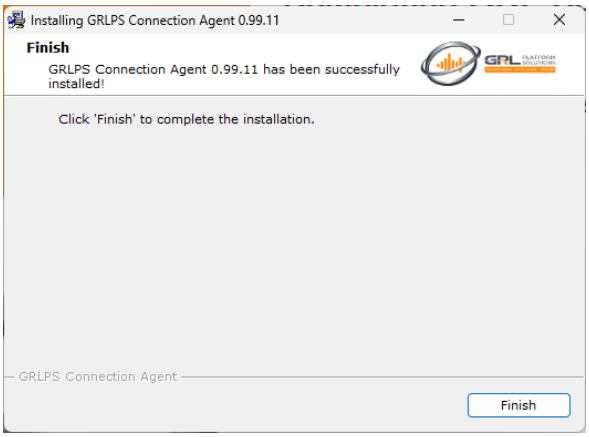
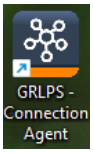


Figure 4. GRLPS Connection Agent Application Installation Completed

6. The GRLPS Connection Agent application is now ready for use.

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2.1 Start Up and Navigate GRLPS Connection Agent Application

1. Once installed, you can directly open the GRLPS Connection Agent using the **GRLPS – Connection Agent** application desktop shortcut 

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2. A Windows Firewall prompt initially appears to ask whether to allow network access for the GRLPS Connection Agent on public and private networks.

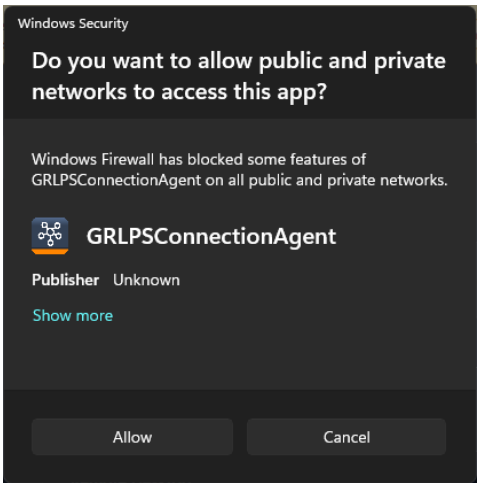


Figure 5. Windows Firewall Prompt at Application Start Up

3. Select **Allow** to enable remote connections and equipment discovery on the GRLPS Connection Agent. The application shows a green 'Running' indicator, with both TCP and UDP marked 'Started' and respective network addresses displayed. The Remote Desktop status is shown as 'Idle' which means no remote desktop session is currently active.

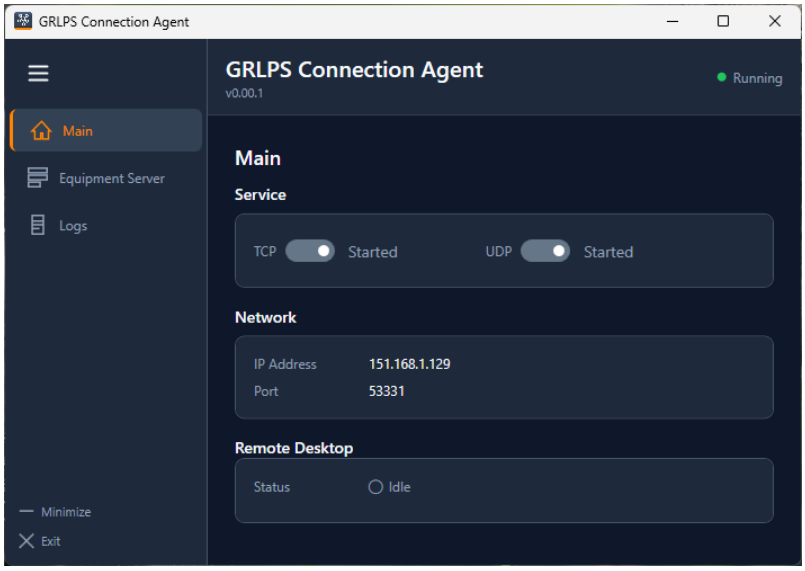


Figure 6. Services Running on GRLPS Connection Agent

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4. If you select **Cancel** in the initial Windows Firewall prompt, a network-access warning appears on top of the GRLPS Connection Agent screen. This indicates that network access may be blocked, which could prevent remote connections and equipment discovery. The application shows TCP and UDP services are both stopped. Click on the **Grant Again** button for retrying permission.

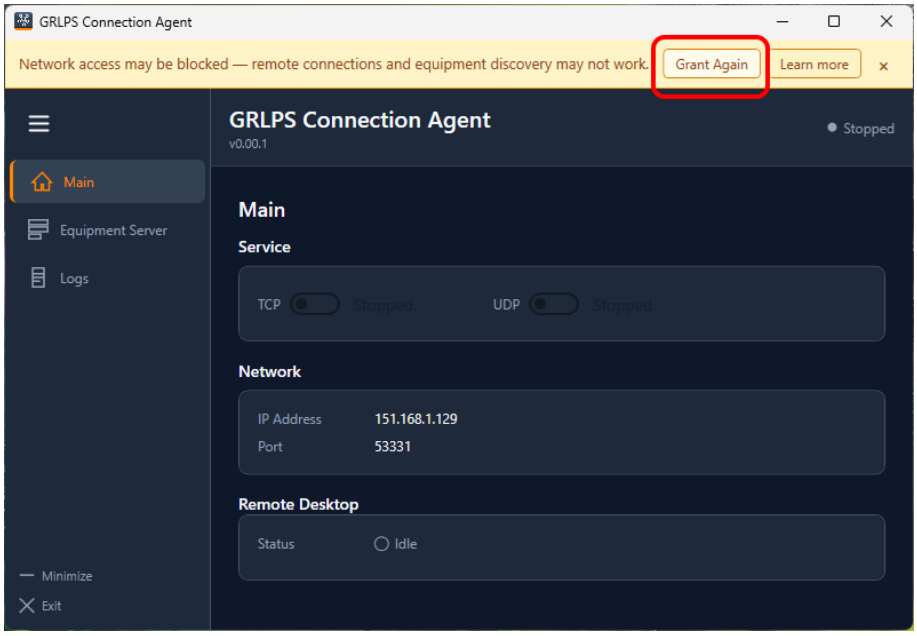


Figure 7. GRLPS Connection Agent Network Access Warning

5. After requesting access, a notification appears to inform you that administrator privileges are needed to remove the firewall block. You will need to approve a system prompt if one appears. Click **OK** to proceed.

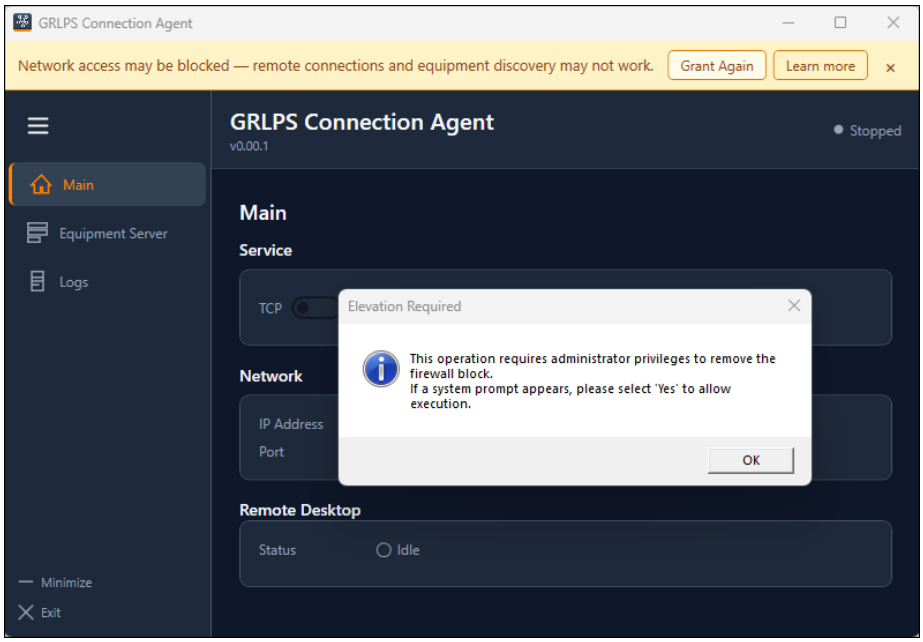


Figure 8. GRLPS Connection Agent Administrator Permission Notice

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6. In the Windows PowerShell prompt, select **Yes**. When the Windows Firewall prompt reappears, select **Allow** to allow network access for the GRLPS Connection Agent on public and private networks.

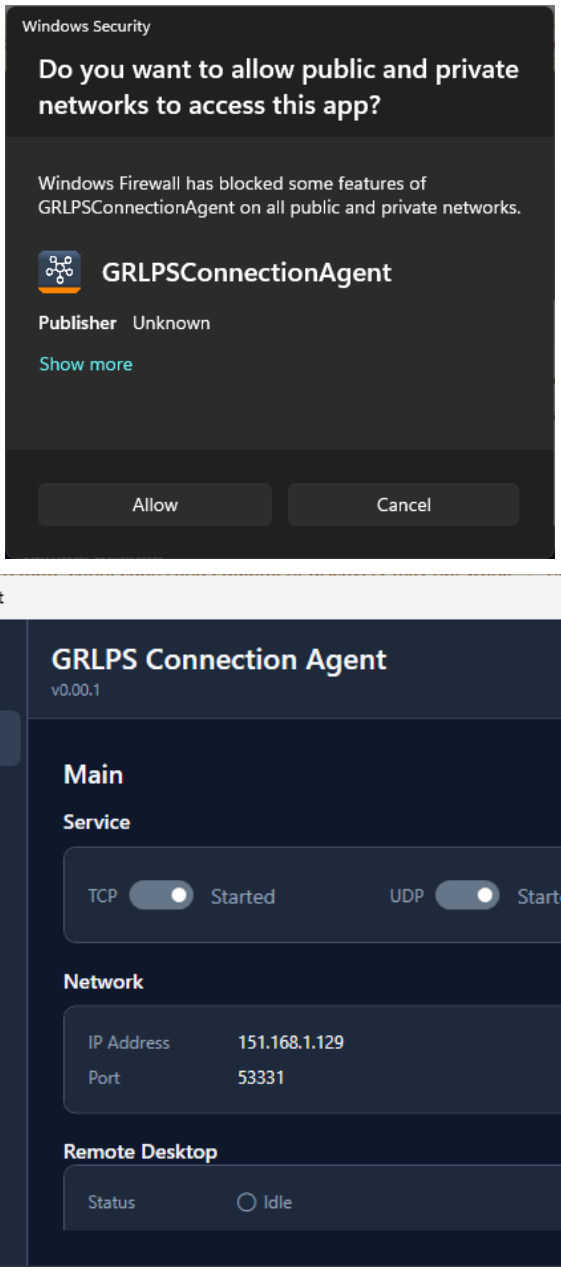


Figure 9. Allow Network Access for GRLPS Connection Agent

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3 Set Up GRLPS Connection Agent

When running the GRLPS Connection Agent, make sure that the control PC and equipment are connected to the same network, using IP addresses as in the following example:

- Control PC IP address: 192.168.1.8
- Scope IP address: 192.168.1.101



Figure 10. Verify Proxy Server Connection for Control PC and Scope

Note: The green 'Running' indicator shows the GRLPS Connection Agent is active.

3.1 Equipment Server Tab

You can use the Equipment Server screen to access remote server information and manage VISA connections of the connected equipment.

The Equipment Server screen provides access to local HTTP endpoint with live status and connected clients. By allowing the user to manage the active VISA connections of the connected equipment, the user is able to switch between equipment without restarting the GRLPS Host App.

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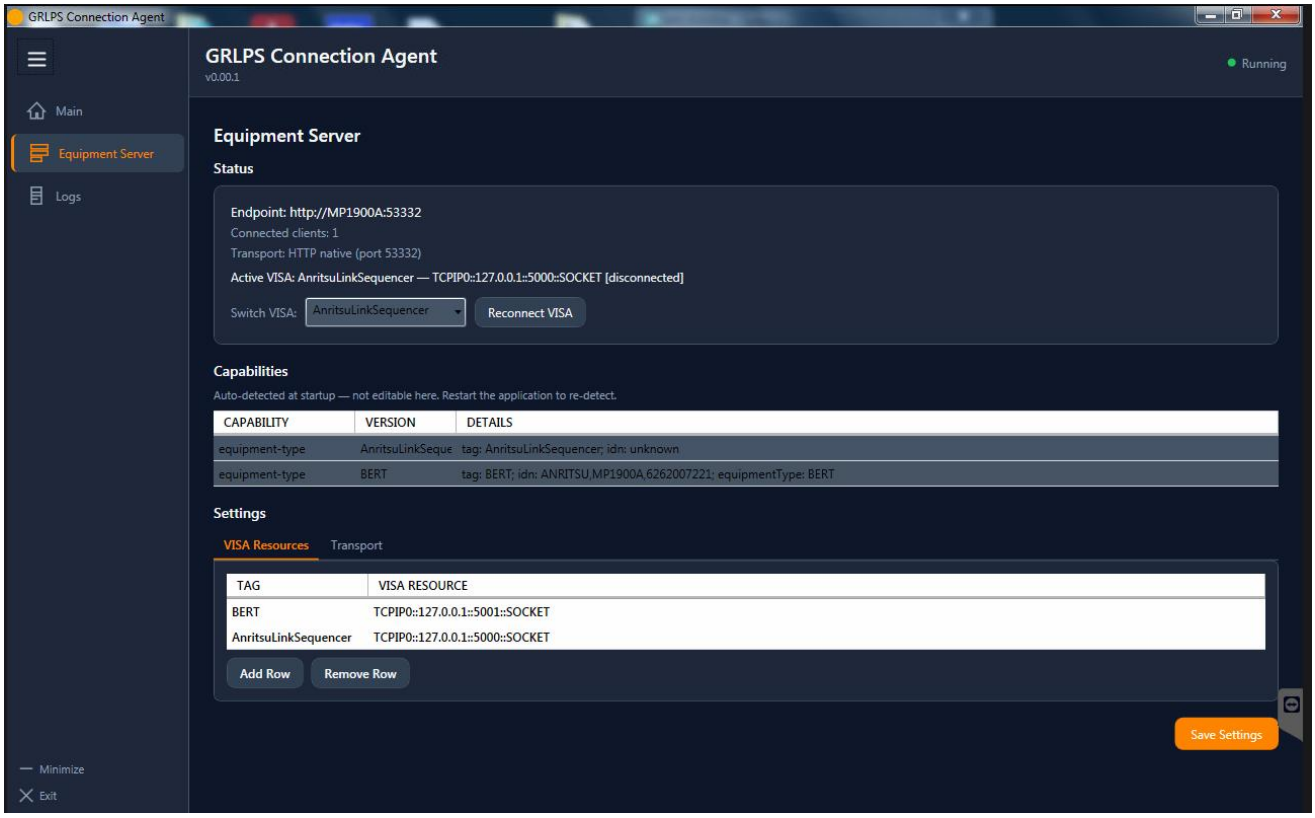


Figure 11. Example of Equipment Server Screen

- **Connection status**: Displays the server endpoint, connected client count and transport type. The example above shows one connected client and HTTP communication on port 53332.
- **VISA connection selection**: Lets you choose an equipment connection from the 'Switch VISA' dropdown and retry it using 'Reconnect VISA'.
- **Capabilities**: Lists equipment capabilities detected at startup. This section is read-only; restarting the application triggers detection again.
- **VISA resource settings**: Maps equipment names to connection addresses. You can add or remove entries and click on the 'Save Settings' button to store changes.
- **Transport mode settings**: Configures how remote clients communicate with the Equipment Server:
    - **Remote transport mode**: Selects the communication method.
    - **HTTP command port**: Sets the port used for HTTP commands in the selected remote transport mode.
    - **Save Settings button**: Saves the selected configuration. Restart the application for transport mode or port changes to take effect.

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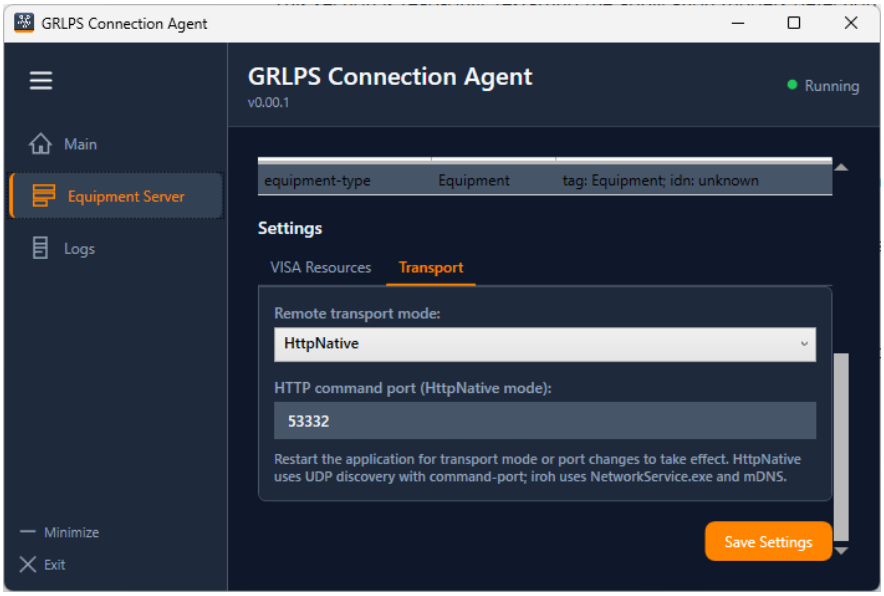


Figure 12. Example of Equipment Server Remote Transport Mode Settings

3.2 Logs Tab

The Logs screen allows you to view activity and troubleshoot problems:

- Displays messages about service startup and shutdown, UDP broadcasts, TCP/IP connections, settings loading and equipment detection.
- Provides a scrollable history for checking connection events and investigating problems.
- Click on the ‘Copy Text’ button to copy the logs for sharing or troubleshooting.
- Click on the ‘Clear’ button to clear the displayed log text.

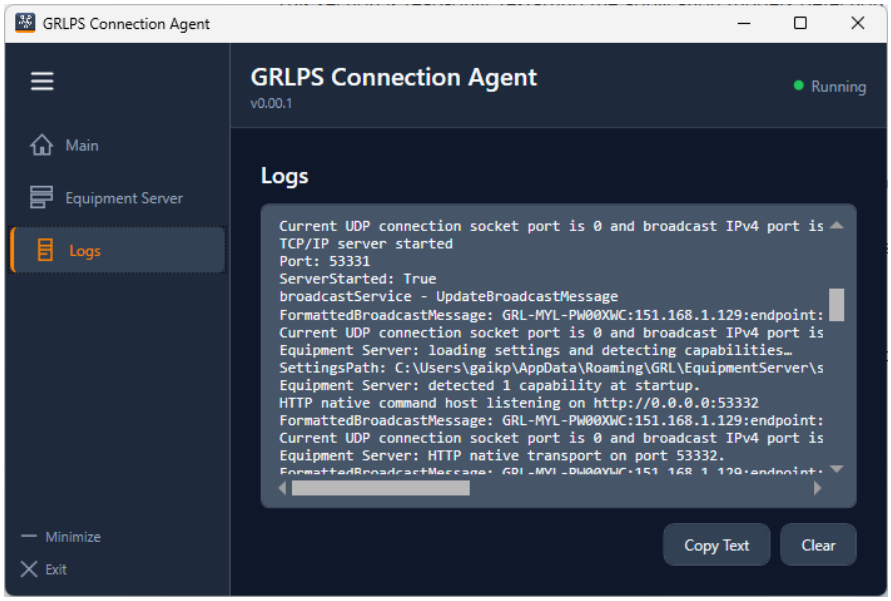


Figure 13. Example of Logs Screen

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