



G5000 putting into operation

This document will guide you through the whole process of putting the system into operation. It starts with unpacking and ends with UI configuration.

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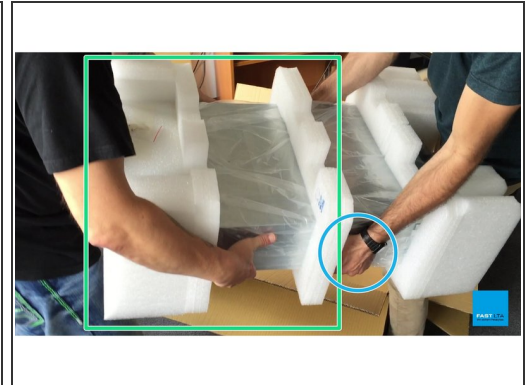




TOOLS:

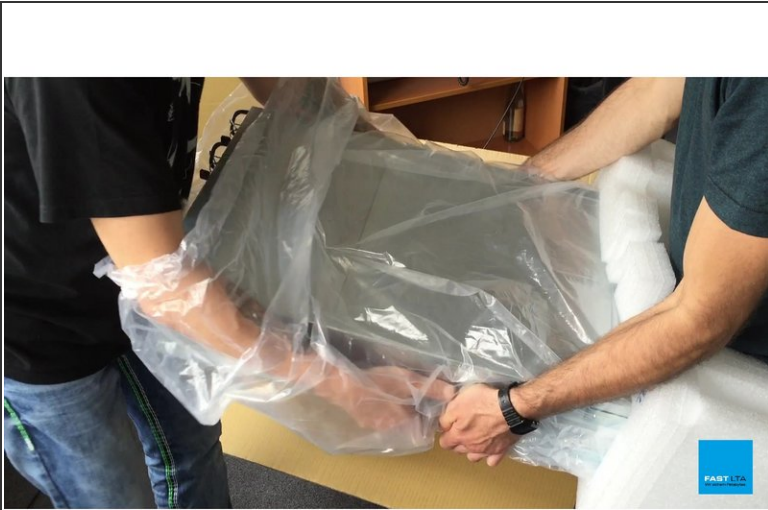
- Screwdriver, Philips #2 (PH 2) (1)
-

Step 1 — Remove G5000 Controller from box



- ⚠ Do not grip into the slots for lifting the controller
- ⚠ Do only lift the controller from the sides
- ⚠ Do not grip the power supply handles for lifting the controller
- Have a team of two people lift the controller out of its box
- Partner B (right): Hold G5000 Controller
- Partner A (left): Remove the back and middle cushions

Step 2 — Remove front cushion



- Partner A: Slide hands underneath plastic foil and take over G5000 controller from partner B
- Partner B: Carefully slide front cushion over both side flanges - one at a time

Step 3 — List of Contents



- 1 G5000 Controller
- 1 loop cable
- 2 power cables
- 1 set of two rack slides including mounting screws

Step 4 — Video Tutorial



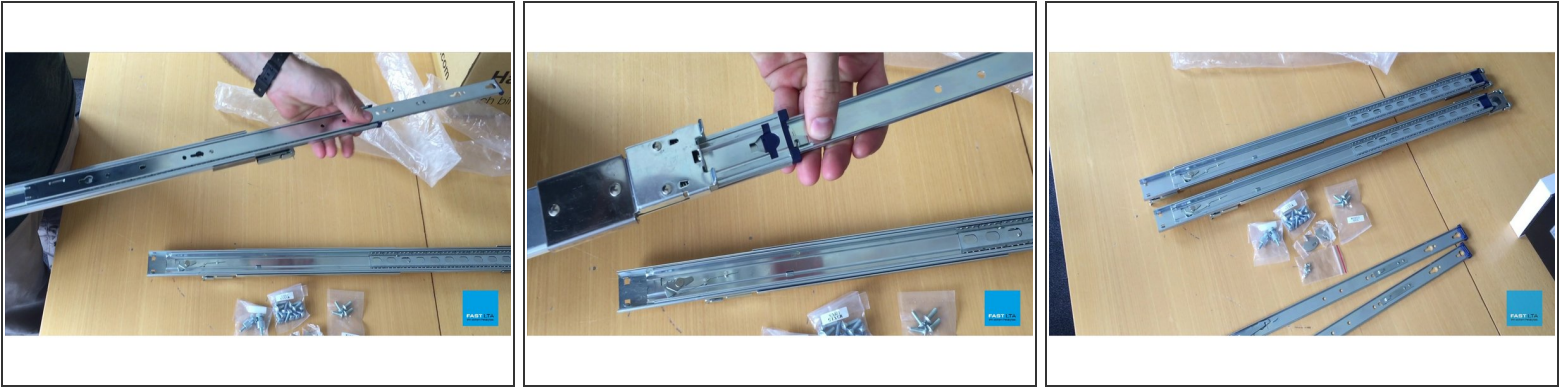
- G5000 Controller Unboxing

Step 5 — List of Contents



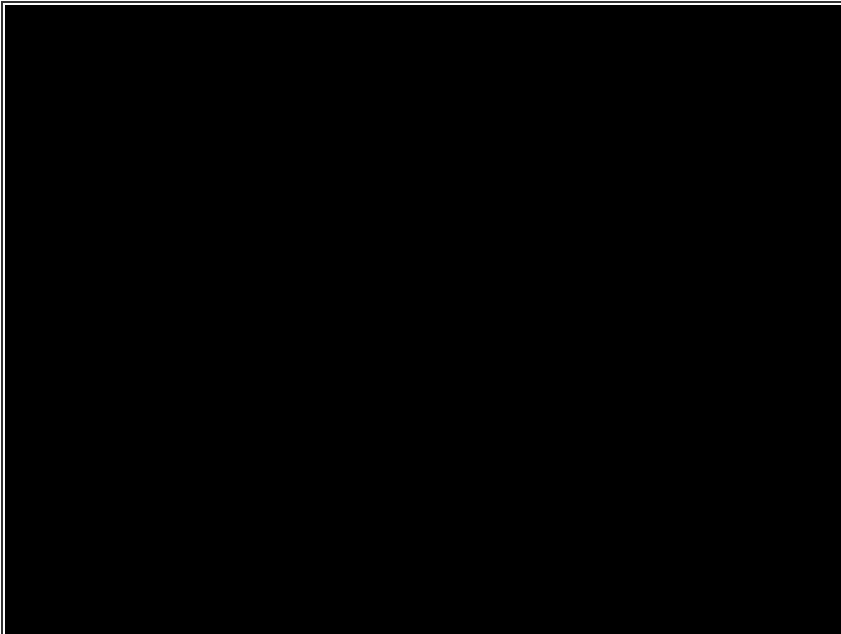
- 2 Rack Slides
- Pack of 2 rack mount bolts
- 2 G5000 Controller bay keys
- Pack of 4 M5x15 screws
- Pack of 12 M5x15 screws
- Pack of 10 M4x4 screws

Step 6 — Prepare Rack Slides for mount



- Pull out inner arm until lock
- Flip Rack Slide over and push down lever to completely pull out inner arm
- Repeat for second Rack slide

Step 7 — Video Tutorial



- Rack Slides Mount Preparation

Step 8 — Place inner arm of Rack Slide



- Place inner arm of the Rack Slide onto the side of the G5000 Controller so that the holes in the inner arm align with the pins on the Controller
- Push the inner arm of the Rack Slide towards the back of the Controller in order to lock them in place

Step 9 — Fixate inner arm of Rack Slide



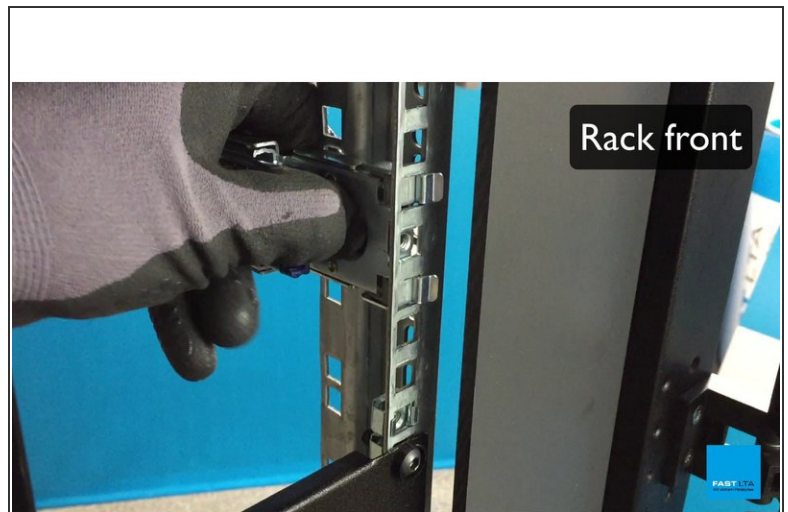
- Use the provided M4x4 screws
- Fixate inner arm of Rack Slide with two screws each as shown in the pictures
- Repeat Steps 1 and 2 for other side of G5000 Controller

Step 10 — Video Tutorial



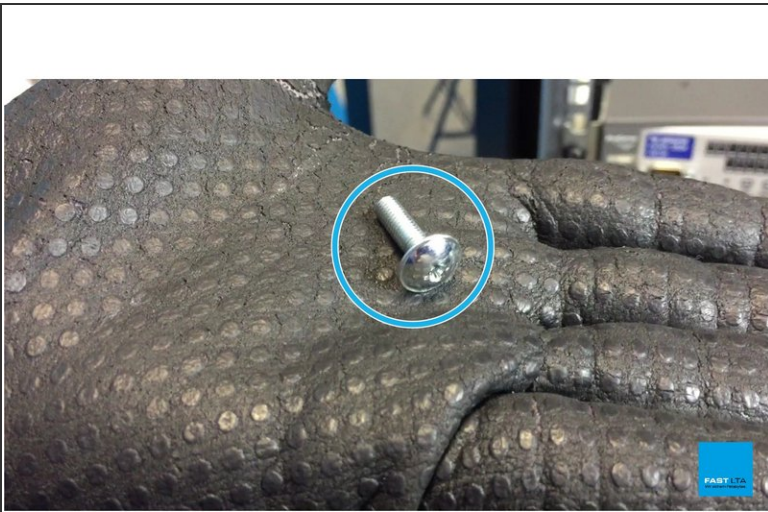
- G5000 Controller Rack Slides Mount

Step 11 — Click Rack Slides into Rack



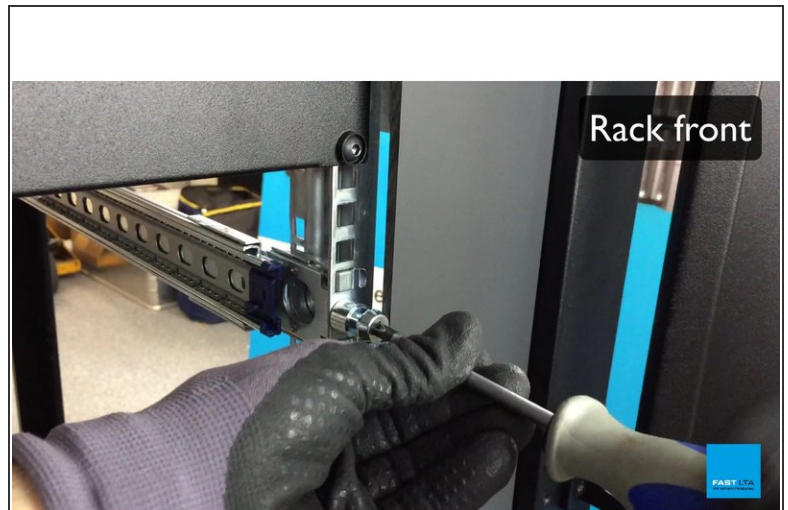
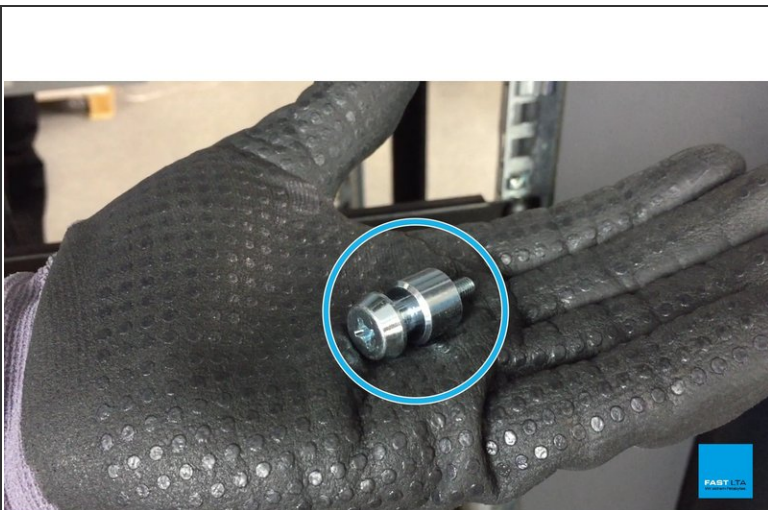
- Insert the back pins of the outer arms of the Rack Slide into your Rack
- Pull back the round lever to let the front pins latch onto your Rack

Step 12 — Lock Rack Slides (back)



- Use M5x15 screws
- Lock Rack Slides on Rack backside using screws as shown

Step 13 — Lock Rack Slides (front)



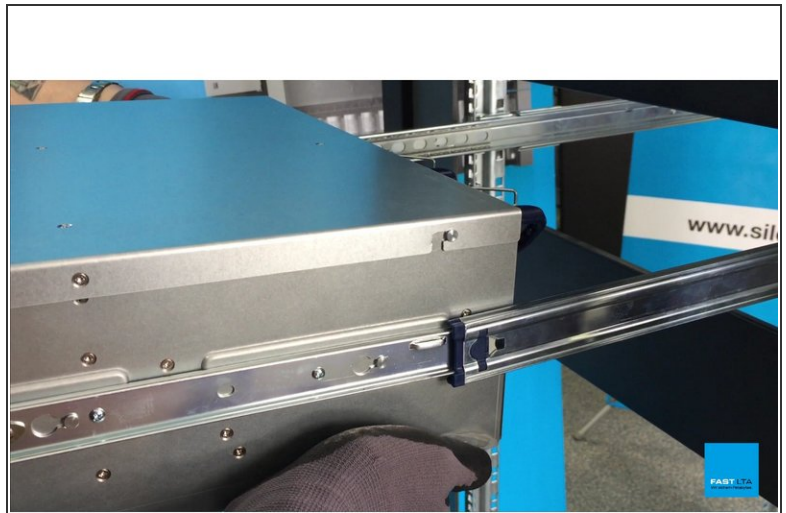
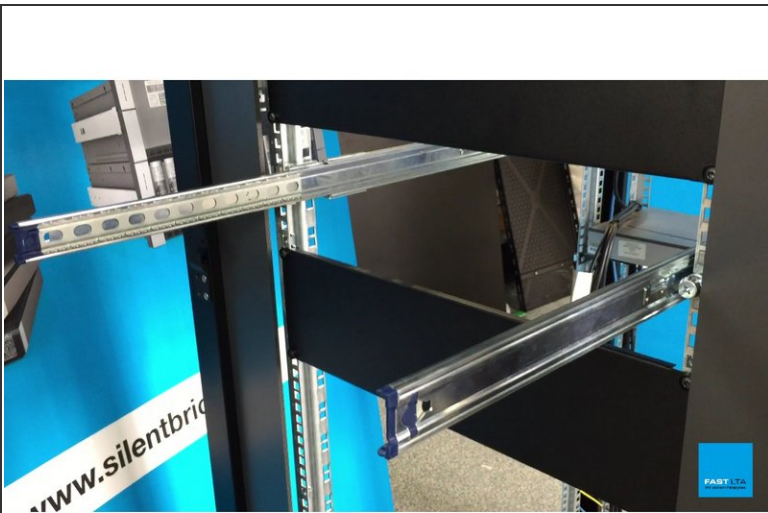
- Use Rack Mount Bolt
- Lock Rack Slide on Rack front using screws as shown

Step 14 — Video Tutorial



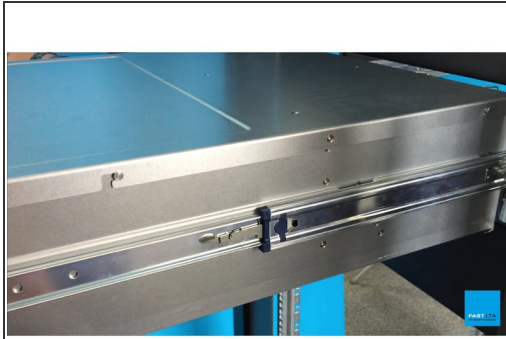
- Rack Slides Rack Mount

Step 15 — Align G5000 Controller



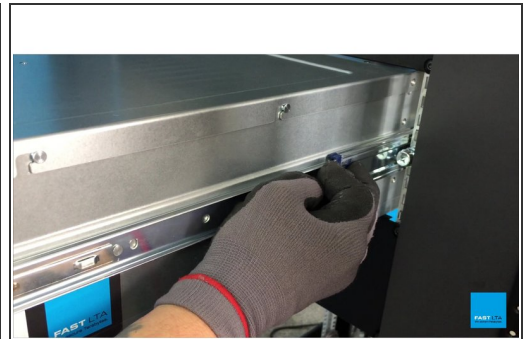
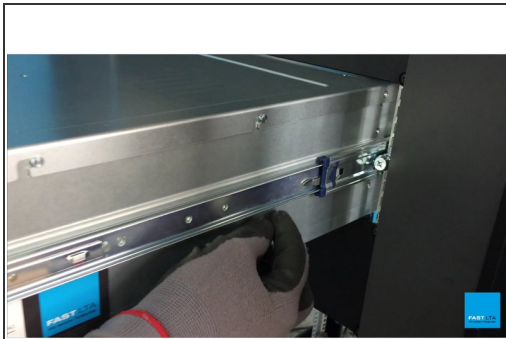
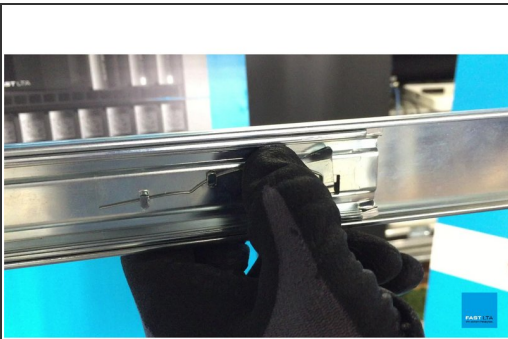
- Pull out the outer arms of the Rack Slides which have been mounted onto your Rack
- Align the inner arms that are mounted to your G5000 Controller with the outer arms

Step 16 — Slide Controller into Rack (first lever)



- Slide G5000 Controller halfway into the Rack, until the lever on the inner arm latches

Step 17 — Slide Controller into Rack (second lever)



- Release second lever inside the Rack and continue sliding the G5000 Controller into the Rack

Step 18 — Rack Flanges



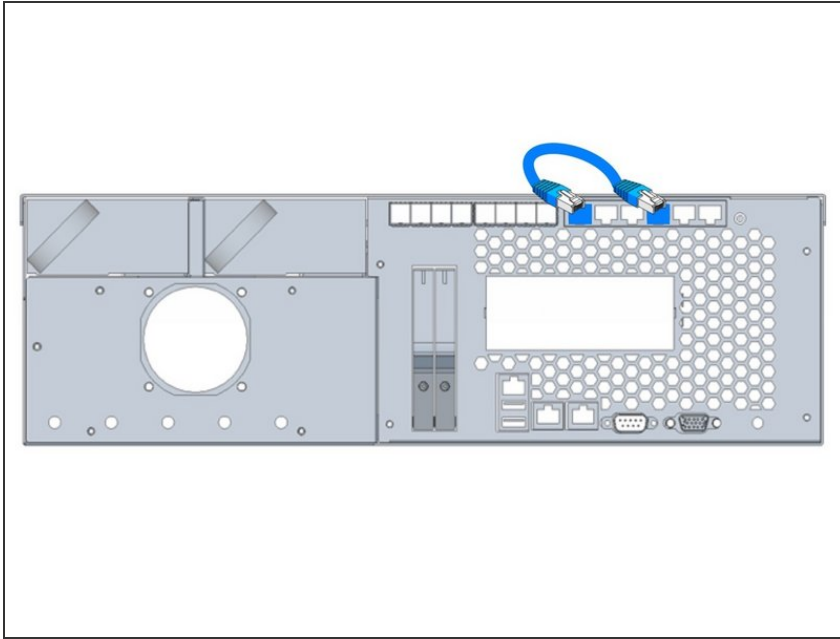
- Gently push G5000 Controller into the Rack until both Rack Flanges have latched

Step 19 — Video Tutorial



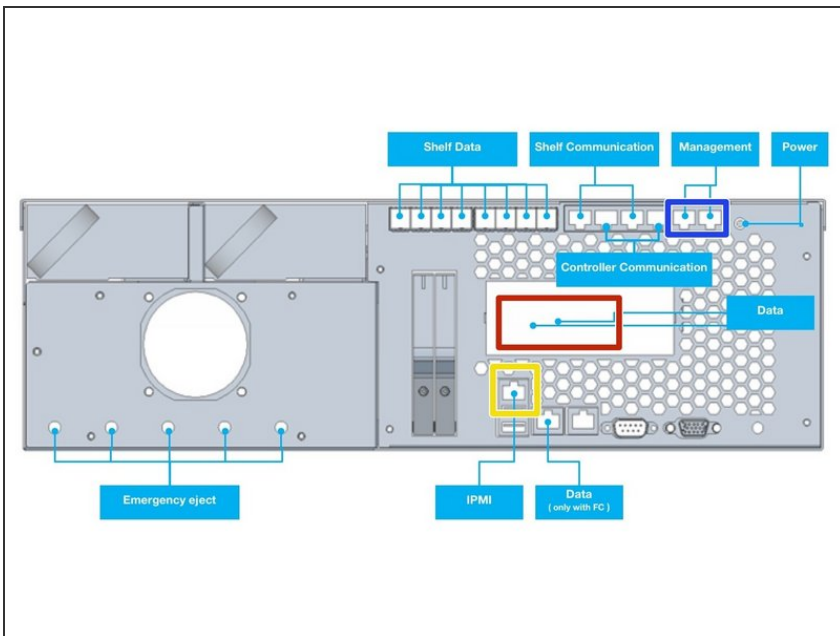
- G5000 Controller Rack Mount

Step 20 — Connect loop cable



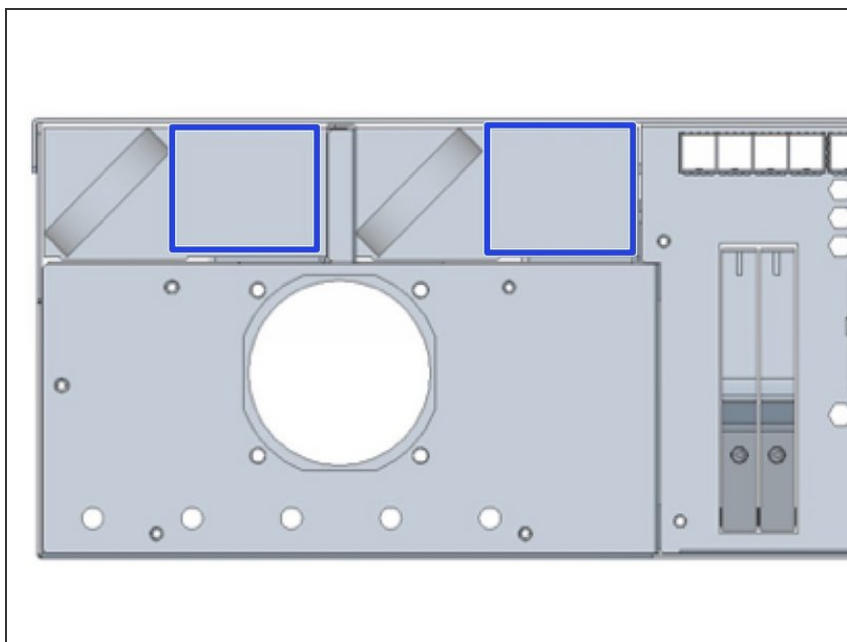
- Connect the delivered loop cable
- This cable connects shelf and server part of the controller
- ❗ If cable is not plugged the display will keep showing 'Starting up'
- ❗ If the cable is not connected a communication with the shelf is not possible

Step 21 — Connect network cables



- ⚠ **Management and Data must not be in the same subnet**
- ❗ Management and Data may be combined to one interface later
- Connect 1GB Ethernet to Management port for Configuration via WebUI
- Connect 1GB Ethernet to IPMI port for hardware monitoring and service access
- Connect FibreChannel or 10GB Ethernet cable to data port (depending on ordered hardware)

Step 22 — Connect power supply



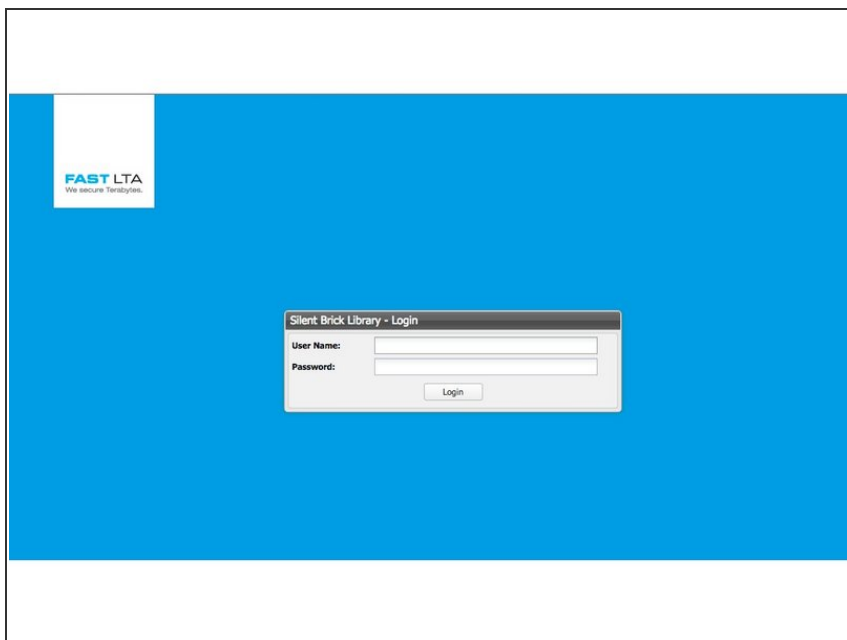
- Start up your controller by connecting the power cables

Step 23 — Receive the IP address



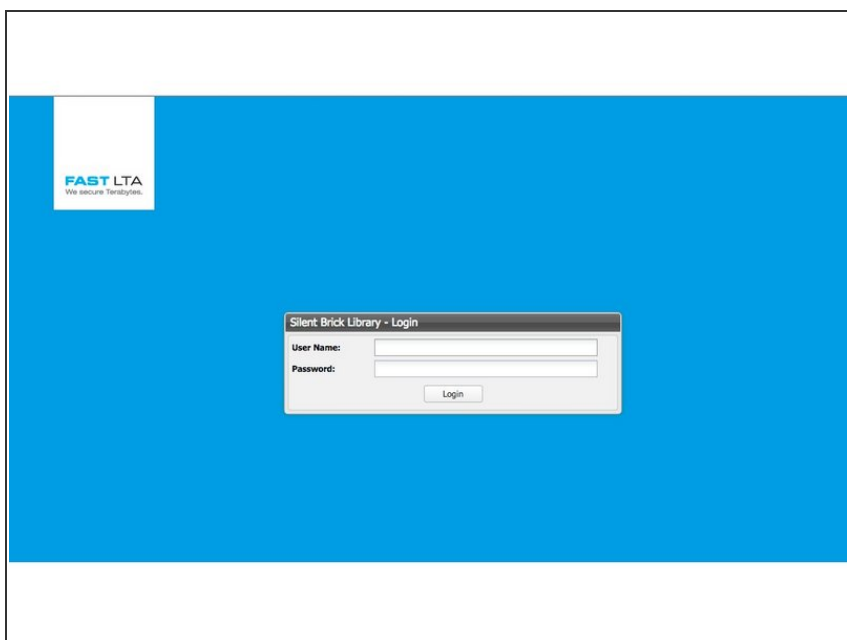
- G5000 will try to receive IP addresses via DHCP on management and data interfaces
- If no DHCP server can be found G5000 will assign fallback IP addresses as follows
 - Management: 192.168.1.1
 - Data: 192.168.2.1
- The assigned IP addresses may be checked via...
 - ...G5000 EPaper Display
 - ...Monitor console output

Step 24 — Connect to the UI



- Open the Webinterface via management ip "https://<ip>/"
- Default user: admin
- Default password: adminadmin

Step 25 — Login



- Open your webbrowser
- Connect to **https://<management-ip>**
- Login with your username and password
 - Default user: admin
 - Default pass: adminadmin

Step 26 — Adjust IP settings

The screenshot shows the 'Network' configuration page. At the top, there's a 'Network Identification' section with fields for 'Host Name' and 'Domain Name (IPv4/IPv6)'. Below that is the 'SSL Certificate' section with a 'Custom SSL Certificate' checkbox. The 'NIC' section contains 'Global NIC Settings' with a dropdown menu set to 'management', indicated by a yellow arrow. Other settings include 'Default Gateway', 'DNS Server 1', 'DNS Server 2', 'Configured by DHCP', 'IPv4 Address', 'Subnet Mask', 'TCP/IPv4', 'Router', 'IPv4 Address', 'IPv6', 'IPv4 Address', 'Subnet Mask', 'Default Gateway', 'Host', and 'Routing'.

- Navigate to **Settings -> Network**
- Edit hostname and domain
- Switch between management and data IP configuration
- Set up your data network
- Set up your management network
- ✓ Data and management **must not** be in the same subnet
- ⓘ In order to enter a gateway both interfaces have to be changed to manual IP first
- Set up your IPMI address

Step 27 — Optional: Combine networks

The screenshot shows the 'Network' configuration page with the 'management' dropdown menu. A blue button labeled 'Combine data & management network' is visible, along with an 'Edit' button next to it.

- ⓘ Network combination makes sense if management and data shall be located in one subnet
- In order to combine your management and data networks click on **Combine data & management networks**
- The IP configuration will be transferred from the management interface to your data interface

Step 28 — Timeserver setup

Date & Time		
NTP Server 1:	0.pool.ntp.org	
NTP Server 2:	1.pool.ntp.org	
Time Zone:	Europe/Berlin	
Date & Time:	11.04.2017 12:08:33	
User Interface Auto Log Off After No Activity		
Automatically Log Off After:	10 Minutes	
Temperature Unit		
Display Temperature In:	Celsius	
Handling of New Inserted Volume Bricks		
Import Volumes Automatically:	No	

- Navigate to **Settings -> Miscellaneous**
- Set up your timeservers

Step 29 — Notification setup

Notifications	
Settings	
Mail Server:	---
Use SSL/TLS:	No
SMTP Authentication:	No
User:	
Password:	
Sender Email Address:	---
Email to FAST LTA Monitoring Service:	Yes
Email to Address List:	Yes
Custom message:	---
Https Notifications to FAST LTA Monitoring Service:	No
Connection via Proxy Server:	No
Proxy Server:	
Proxy User:	
Proxy Password:	

- Navigate to **Settings -> Notifications**
- Set up your notification settings
- In order to use FAST LTA Monitoring support make sure to...
 - ...use a valid external address as sender
 - ...check the corresponding checkbox
- *Https Notifications* is optional and may be used in case of mail relaying not allowed or possible