



Stratasys Streamline Pro Cybersecurity

July 2024

Stratasys Cybersecurity

Stratasys is leading the Additive Manufacturing industry in producing solutions that address today's critical and ever-changing cybersecurity threats. The Stratasys IT organization is ISO 27001 certified, and we continue to invest to insure the most secure solutions in the 3D printing market for the future.

Stratasys has implemented reasonable administrative, technical and physical safeguards to help protect against security incidents and privacy breaches involving a Stratasys product, provided those products are used in accordance with Stratasys instructions for use. However, as systems and threats evolve, no system can be protected against all vulnerabilities, and we consider our customers the most important partner in maintaining security and privacy safeguards. If you have any concerns, we ask that you bring them to our attention, and we will investigate. Where appropriate, we will address the issue of product changes, technical bulletins and/or responsible disclosures to customers and regulators.

Secure Software Development Lifecycle for Streamline Pro Software

Stratasys Software implements security measures across: Software development, Infrastructure setup, Identity Management, and Security Operations.

Our security practices also include an S-SDLC which utilizes a wide range of policies and tools involving secure architecture assessments, Static Application Security Testing (SAST), Dynamic Application Security Testing (DAST), Supply Chain vulnerability checks (SCA), Penetration testing and participation in the HackerOne bug bounty program.

GrabCAD Streamline Pro Control

Overview

GrabCAD Control is the administrative portal for GrabCAD Streamline Pro and the GrabCAD AM Platform. It provides control over printers, gateways, users and access control through user groups, printer groups and license management.

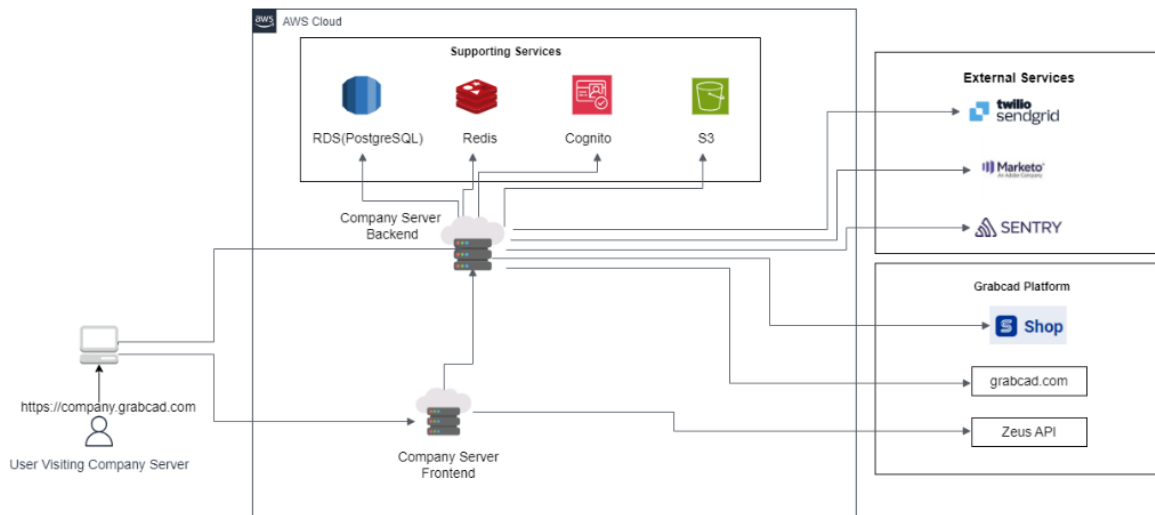


Features

- More control over user onboarding and offboarding.
- Prevent unauthorized access to 3D printers and reduce business interruptions.
- Companies - have associated users, licenses, printers and applications and more.
- User Management.
- User Groups.
- License Management.

System Diagram

Authentication & Authorization





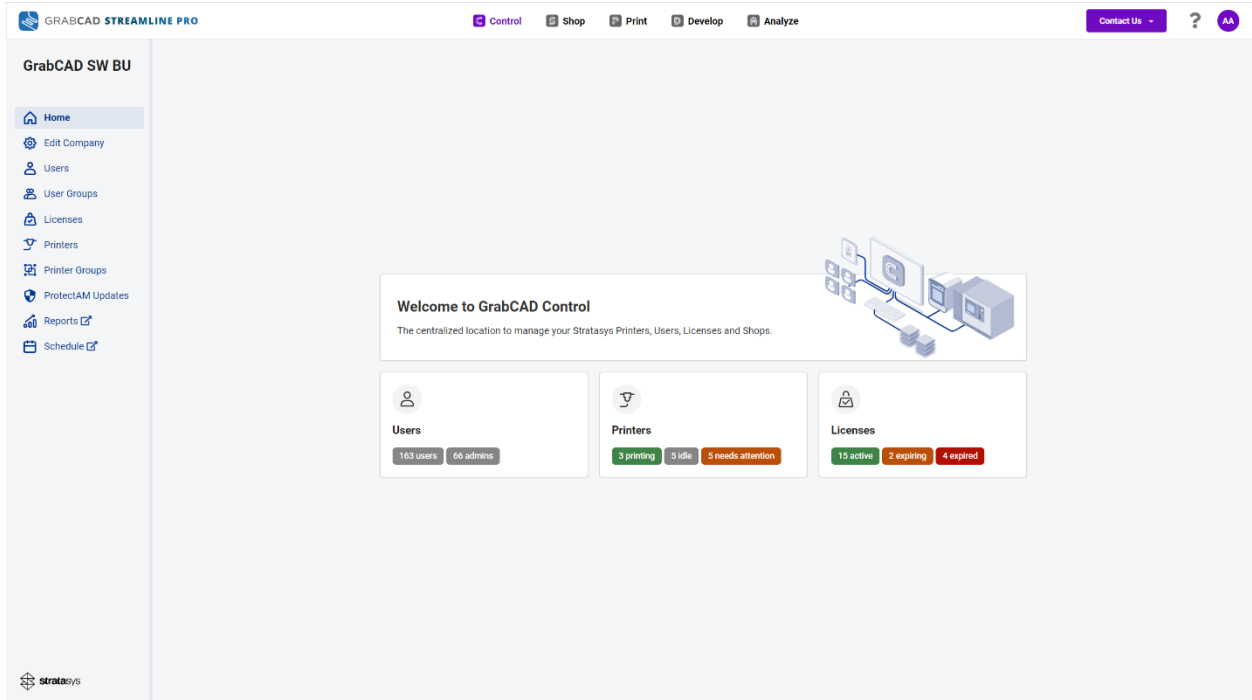
Authentication

- AWS Cognito as an Identity Provider for enterprise users.
- Legacy grabcad.com as an Identity Provider for community users.
- User tokens are JWT (JSON Web Token) based on Elliptic Curve Digital Signature Algorithm with the P-256 curve and the SHA-256 hash function (ES256).
- Users are routed to AWS Cognito or legacy grabcad.com Identity Provider API's depending on their email address.
- Some of the authentication controls include: a strong password policy, reCAPTCHA, and the option to use multi-factor authentication (MFA), which is mandatory for admin-level users.

Authorization

- User types:
 - Company Admins - users that have admin rights to a company. They can for example invite and delete other users, assign licenses, create shop instances and control access to printers.
 - Global Admins - Stratasys internal support users.
 - Users - users that can be associated with a Company. Some users are not associated with any companies as they may for example have been invited to a Company but not accepted this invitation. A small proportion may be associated with multiple companies, but this is unusual.
- Users are granted roles via the User Groups that they are members of. When an admin grants a role to a user group, a Group Role is constructed. This entity contains the id of the User Group, the id of the Application and the id of the Application Role being granted.
- When a user is granted a role in such a way, they also consume a seat of the license corresponding to the application in question. This is a second way of consuming a license seat as opposed to assigning the user group to the license directly.
- The user cannot access any data from a company with which he is not associated.

Screenshots



GRABCAD STREAMLINE PRO

Control Shop Print Develop Analyze

Contact Us - ? AA

GrabCAD SW BU

- Home
- Edit Company
- Users
- User Groups
- Licenses
- Printers
- Printer Groups
- ProtectIAM Updates
- Reports
- Schedule

Welcome to GrabCAD Control

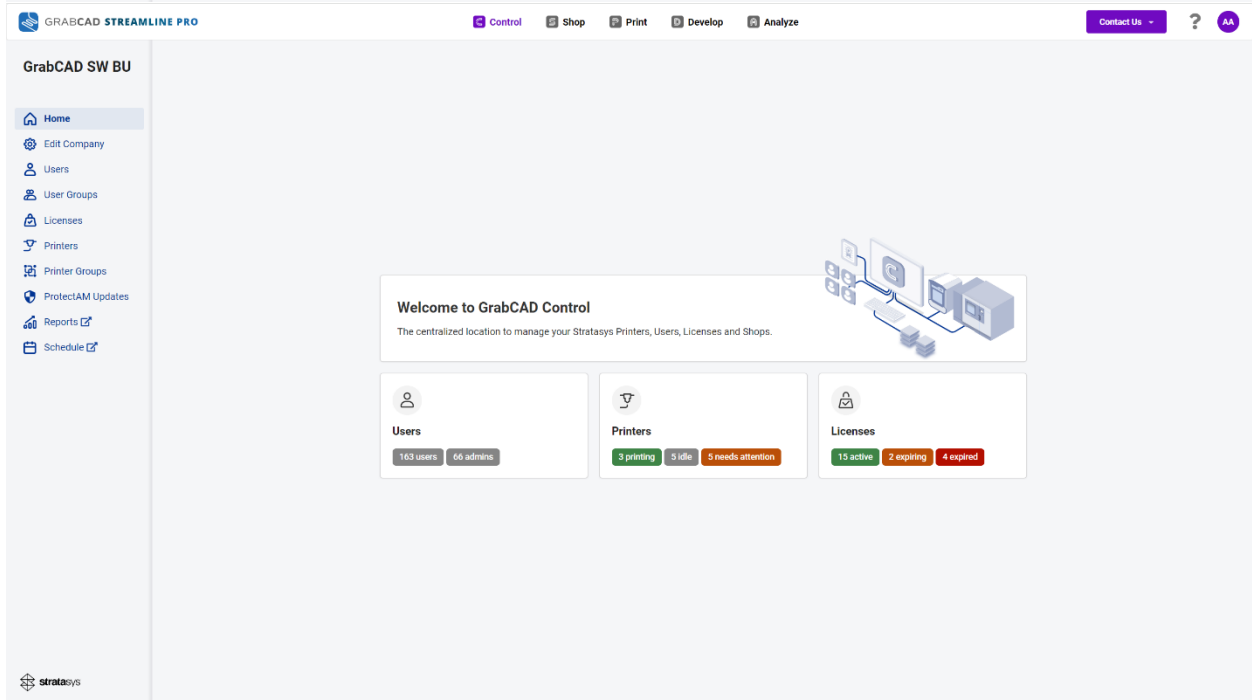
The centralized location to manage your Stratasys Printers, Users, Licenses and Shops.

Users
163 users 66 admins

Printers
3 printing 5 idle 5 needs attention

Licenses
15 active 2 expiring 4 expired

stratasys



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GrabCAD Control / Users

Users

Current Users (165) Invite Users Invitation Settings

Search...

Email	Groups	Join Date (EDT)	Actions
[redacted]	Employees - UK, France, Operators (Machine Shop), Requesters (Machine Shop), Shop Operators, Shop Requesters	2024-04-16 08:09 AM	remove
[redacted]	Employees - UK, France, QA Team, SAF Printer Systems Integration, Shop Operators, test user	2023-03-15 10:32 AM	remove
[redacted]	EMEA AEs, Employees - UK, France, GrabCAD Print Pro - FDM, SAF, GrabCAD Printer Connectivity API Development, OpenAM, Operators (Brad's Quick Ship), Operators (Machine Shop), Operators (Production Center), Operators (Pune), QA Team, Requesters (ABC), Requesters (Brad's Quick Ship), Requesters (Machine Shop), Requesters (Production Center), Requesters (Pune), Shop Operators, Shop Requesters, test user	2024-02-21 06:51 AM	remove
[redacted]	Employees - Tallinn, Israel, Employees - UK, France, Operators (Brad's Quick Ship), Operators (Machine Shop), Operators (Production Center), Operators (Pune), Requesters (ABC), Requesters (Brad's Quick Ship), Requesters (Machine Shop), Requesters (Production Center), Requesters (Pune)	2023-05-15 11:38 AM	remove
[redacted]	Employees - Tallinn, Israel	2024-05-16 03:00 AM	remove
[redacted]	Employees - UK, France, GrabCAD Print Pro - FDM, SAF, GrabCAD Printer Connectivity API Development, Operators (Brad's Quick Ship), Operators (Machine Shop), Operators (Production Center), Operators (Pune), Requesters (ABC), Requesters (Brad's Quick Ship), Requesters (Machine Shop), Requesters (Production Center), Requesters (Pune)	2021-08-10 11:09 AM	remove
[redacted]	Employees - UK, France, GrabCAD Print Pro - FDM, SAF, SAF Printer Systems Integration	2023-04-18 06:00 AM	remove
[redacted]	Employees - Boston, Rover, USA, GrabCAD Print Pro - FDM, SAF	2023-03-13 01:37 PM	remove
[redacted]	Employees - Boston, Rover, USA, GrabCAD Print Pro - FDM, SAF	2023-03-13 01:40 PM	remove

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GrabCAD STREAMLINE PRO Control Shop Print Develop Analyze Contact Us ? AA

GrabCAD SW BU

Printers

All printers (12) FDM (2) PolyJet (9) SAF (2)

Search...

 <p>Stratasys J55 Prime Stratasys J55 Prime</p> <p>Error</p>	 <p>F370M2014 Stratasys F370</p> <p>Error</p>	 <p>scys2K10688 Forhal 450mc</p> <p>Error</p>	 <p>xx29C376 Stratasys H350</p> <p>Print Completed</p> <p>SJ_360071.safb 100%</p> <p>End Time: May 27 8:49 PM</p>	 <p>UK H350 Emulator Stratasys H350</p> <p>Print Completed</p> <p>test_job_timestamp_2024_05_28_223... 100%</p> <p>End Time: May 28 6:14 PM</p>
 <p>UK GOLD TEST Agent Stratasys J750</p> <p>Error</p>	 <p>Stratasys J5 DentaJet Stratasys J55 Dental</p> <p>Idle</p>	 <p>BW J55 Prime Stratasys J55 Prime</p> <p>Idle</p>	 <p>UK J55 Prime Stratasys J55 Prime</p> <p>Printing</p> <p>PokeCenter 87%</p> <p>End Time: May 29 8:33 AM</p>	 <p>Stratasys J850 Prime Stratasys J850</p> <p>Idle</p>
 <p>Stratasys J850 Prime Stratasys J850</p>	 <p>Stratasys J5 DentaJet ... Stratasys J5 DentaJet XL</p>	 <p>Stratasys J5 Digital A... Stratasys J5 Digital Academy</p>		

Gateways

GrabCAD SW BU Gateways





Status	Site	Printers
		J55_Hackathon J55_1
		J55_J55Scen2
		J55_J55Scen1

GrabCAD Control Control Shop Print Develop Analyze Contact Us ? AA

GrabCAD SW BU

Licenses

Licenses for the products below are automatically assigned when user groups are set up. Click below to view the license assignments.

 <p>GrabCAD Develop</p> <p>Available seats: Unlimited Used seats: 28 User groups using the license: 4 Serial Numbers: Earliest expiration date: 3/20/2025</p>
 <p>GrabCAD Print Pro</p> <p>Available seats: Unlimited, company wide Used seats: 164 User groups using the license: 0 Serial Numbers: Earliest expiration date: -</p>
 <p>GrabCAD Print Debug Menu</p> <p>Available seats: Unlimited, company wide Used seats: 164 User groups using the license: 0 Serial Numbers: Earliest expiration date: -</p>
 <p>GrabCAD Streamline Pro</p> <p>Available seats: Unlimited, company wide Used seats: 164 User groups using the license: 4 Serial Numbers: ABCD, EFGH, ABCDE Earliest expiration date: 1/30/2025</p>



GrabCAD Streamline Pro Analyze

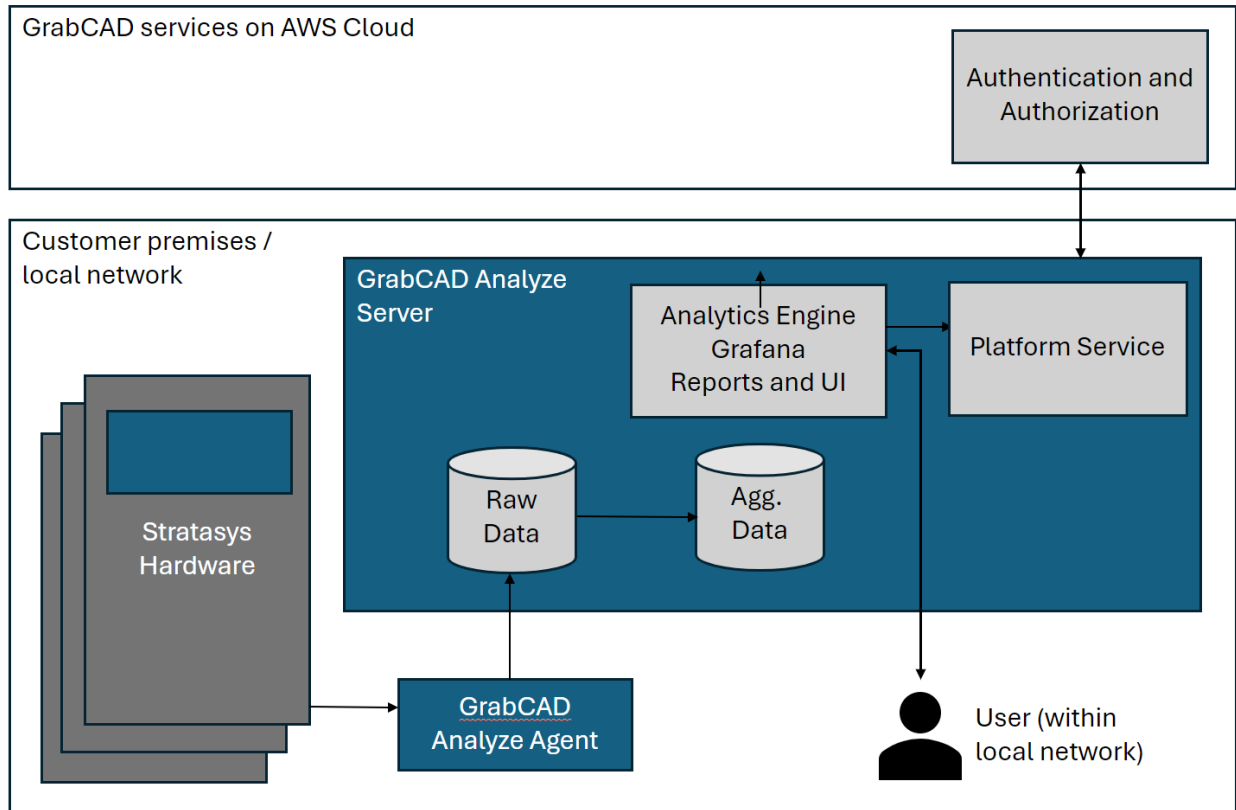
Overview

GrabCAD Analyze, an application within GrabCAD Streamline Pro, offers real-time and historical analytics on Stratasys printer and material utilization, as well as real-time printer availability and alerts. GrabCAD Analyze uses on-premises services to collect data at regular intervals from the printers and stores it in a local datastore. It then correlates, augments, and consolidates them in the form of dashboards and reports for users to consume.

Features

- Real-time printer monitoring and analytics
- Dashboards (System dashboards with customizable panels) to show machine utilization, material utilization and performance
- Alerts (system and custom) for various events and thresholds.

System Diagram





Main components:

- **Analyze Agent:** Windows service that collects data from the printers
- **Analyze Server:** Linux-based Server. The server contains the data store and the microservices required to process and present the data.

Both Analyze components are installed within the customer premises. GrabCAD Analyze services require the following network ports to be enabled:

Purpose	Domain	Port	Protocol
Analyze Server User Interface	Local Linux server	TCP/3000	HTTP
Analyze Admin Plugin	Local Linux server	TCP/9100	HTTP
Analyze Management Console	Local Linux server	TCP/9010	HTTP
Analyze Debug Console	Local Linux server	TCP/5601	HTTP
Analytics Agent	Local Windows server	TCP/5010	TCP
Authentication & Authorization	grabcad.com	TCP/443	HTTPS
Mail Notification	Local mail relay (optional)	TCP/25	SMTP



Authentication and Authorization

Authentication

- Same as GrabCAD Control (JSON Web Tokens issued by the GrabCAD Authentication system / AWS Cognito).
- Users can only be invited to customer's company accounts to access GrabCAD Analyze using their email address by an Administrator of the company account.
- Users log in at login.grabcad.com, obtain authentication tokens and are rerouted to their location installation of GrabCAD Analyze.
- APIs are used to retrieve user roles and validate licenses from the GrabCAD cloud (setup by administrators in GrabCAD Control).
- Connections to grabcad.com/GrabCAD cloud required at the time of launch for authentication and authorization (Port 443, see above).

User roles in GrabCAD Analyze include:

- Editor – Default non-admin role to create and edit the dashboards.
- Viewer – non-admin role to only view and interact with Analyze dashboards.
- Admin – Administrators in GrabCAD Control are administrators in Analyze. They can add printers, dashboards and modify other settings.

Data Collection

- Analyze server uses gathers printer data through the Analyze agent or through MT Connect protocols.
- Data is stored in a local database (raw data – stored for 30 days).
- Raw data is aggregated and stored in a local long-term storage.
- Analytics UI engine (Grafana) presents the data in the user interface and dashboards.

Types of Collected Data

- Personal data: Only login data (no personal information) is collected for authentication and authorization purposes.
- User submitted data: Name of the Printer, location and metadata regarding Printer are stored in the local Analyze database.
- Printer usage data: Data from Printers is collected and stored locally to provide statistics on printer availability, print job-related information, material consumption, printer tip and head life.

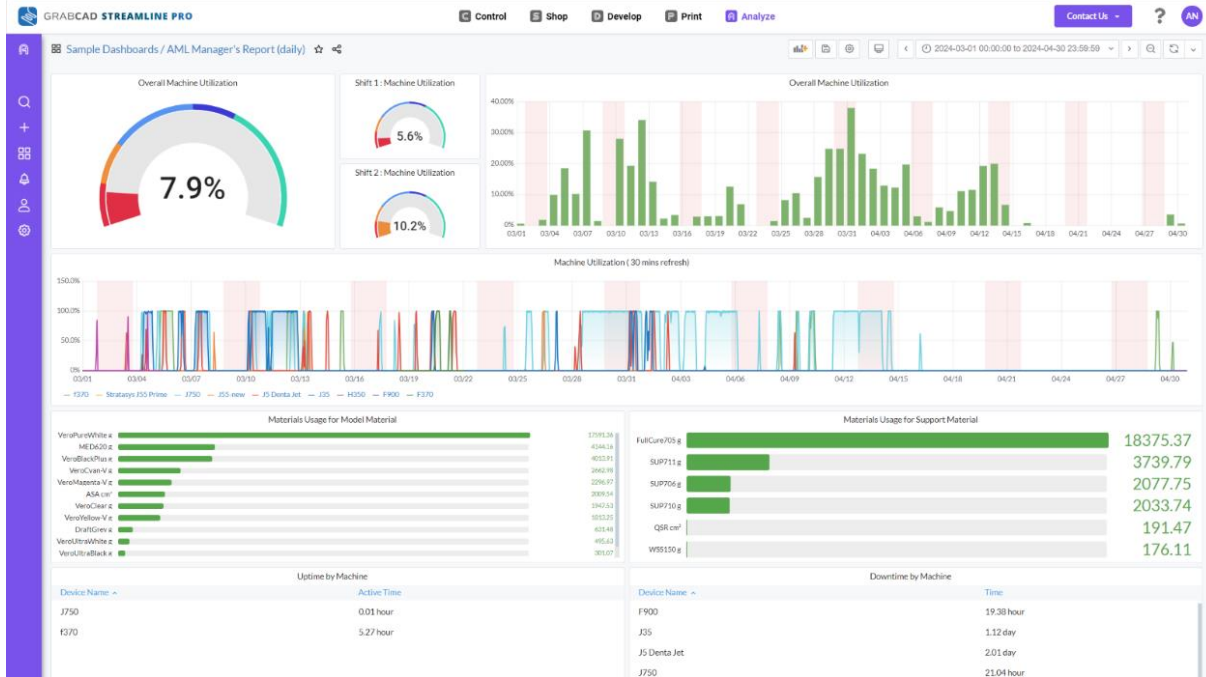
Data Storage and Data Access

All user submitted data and printer usage data collected is stored in the local data store inside the customer network.


1. The raw data automatically purged every 30 days to optimize storage.

2. Aggregated data is stored for up to 5 years (configurable).

Screenshots



Job status alert from J5 Denta Jet

 noreply@grabcad.com
To: [Redacted]

Job status alert from J5 Denta Jet

You have a new notification from GrabCAD Analyze.

00-30-64-41-C7-3A's job Dental ATP J3 HQS - Print (1) having id 1dda1907-5370-4bd4-b6b4-1277f1b70037 has **Idle** on J5 Denta Jet.

[Reply](#) [Reply all](#) [Forward](#)



GrabCAD Streamline Pro Shop

Overview

GrabCAD Shop, a browser-based application within GrabCAD Streamline Pro, simplifies the 3D Printing order management workflow in internal model shops. Administrators can create virtual model shops with their 3D printers and invite Requesters and Operators to their Shop. Requesters (engineers, designers) can submit 3D printing requests with relevant files and metadata. Operators (printer operators, planners) can view, update, consolidate these requests, and communicate with Requesters.

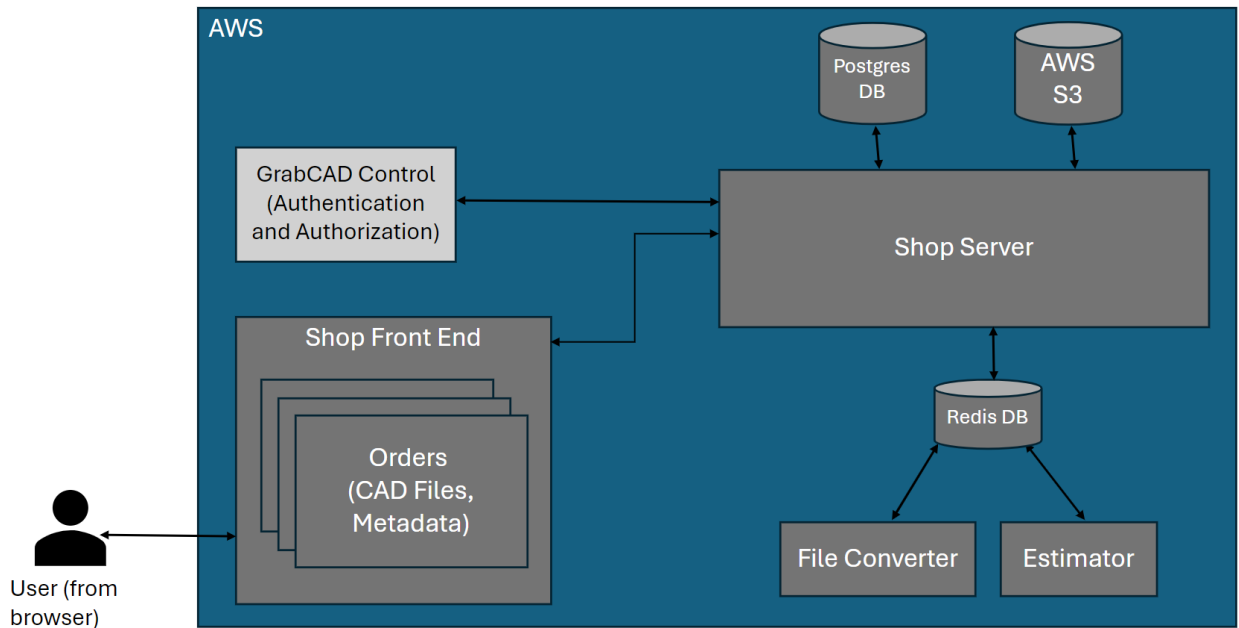
Features

- 3D printing requests (orders), with CAD files and other relevant information, in one place
- Tools to allow the operators to process, quote and fulfil orders.
- Automatic estimation and quoting of orders.
- Consolidation of orders for planning and printing purposes.

System Diagram

Main components:

- Shop Server (maintained by the Stratasys software team) facilitates adding and editing orders and is hosted in AWS.
- Orders and relevant metadata (CAD files, required printing technology, material, dates, quantities) submitted by requesters, are uploaded to AWS S3 buckets.
- File converter processes CAD Files to obtain thumbnail previews and size (bounding box) values.
- Estimator provides material and time estimates for a printer in the customer's Shop.
- A Redis database is used to manage queues to communicate with the File converter and Estimator.



Authentication & Authorization

Authentication

- Same as GrabCAD Control (JSON Web Tokens issued by the GrabCAD Authentication system / AWS Cognito).
- Users can only be invited to customer's company accounts to access GrabCAD Shop using their email address by an Administrators of the company account.
- Users log in at login.grabcad.com, obtain authentication tokens and are rerouted to GrabCAD Shop web pages.
- APIs are used to retrieve user roles and validate licenses from the GrabCAD cloud (setup by administrators in GrabCAD Control).

User roles and access in GrabCAD Shop:

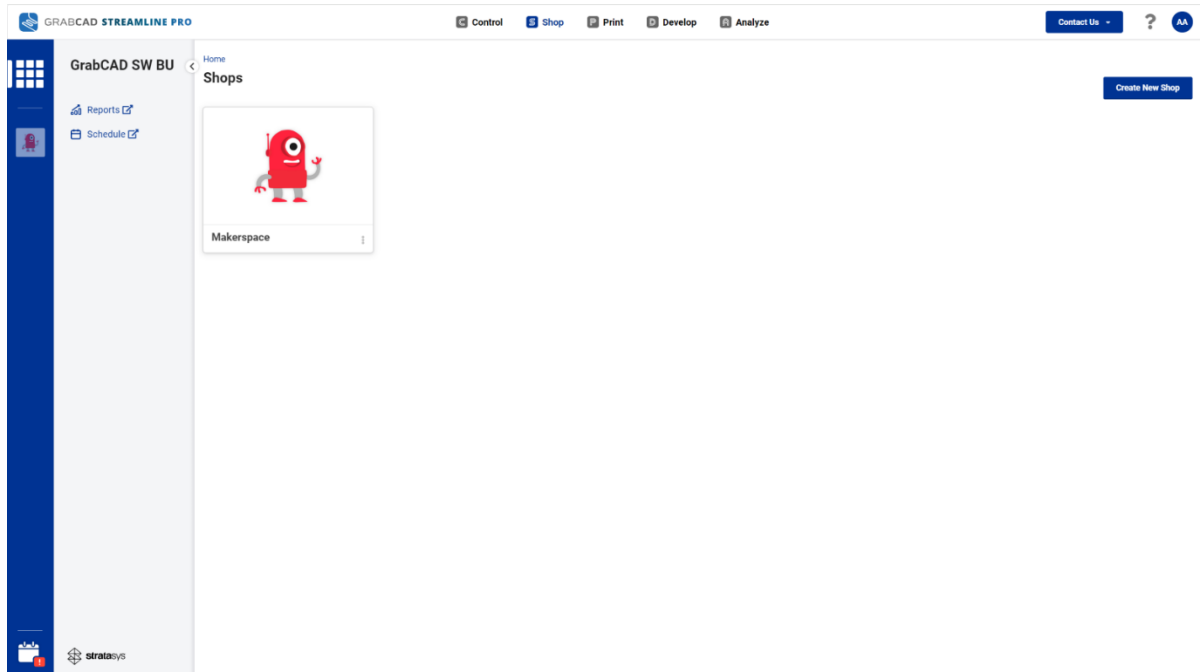
- Administrator — Administrators in GrabCAD Control are also administrators in GrabCAD Shop. They oversee users, licenses, and creating the Shops.
- Operator - Non-admin role that can view, edit and fulfill all the orders that are submitted to the Shops they are invited to.
- Requester - non-admin role that can submit, view and edit only the orders they have submitted to their Shops.
- Only invited users and users with appropriate roles can view and access the data in their Shops. Users can be further restricted to only specific Shops in a company, and to roles within those Shops.



Data Collection

- Orders and relevant metadata are uploaded by requesters and stored in AWS S3.
- Order-related data, including file attributes and job attributes (such as previews, dates, desired printing technology, etc.), is managed in a Postgres database and protected by security middleware (GraphQL-Shield).
- Amazon Web Services (AWS) data is stored redundantly across multiple devices in distributed and environmentally controlled facilities. AWS infrastructure and controls are subject to annual SAS-70 Type II audits and AWS information security. AWS management processes and controls have achieved ISO 27001 certification.
- Encryption is utilized while data is in transit between the user's company network and AWS server. Data at rest is also encrypted.
- Time limited encrypted secure URLs are issued by the Shop server to allow only invited users to download the order data from a Shop.
- Administrators can revoke user access or delete Shops thereby removing access to the Shop and related data.
- On deletion of a shop, companies and Administrators can request all their data (CAD files, thumbnail previews and other data) to be deleted, by emailing shop@grabcad.com.

Screenshots



GRABCAD STREAMLINE PRO Control Shop Print Develop Analyze Contact Us ? AA

Home / Makerspace / Orders

Orders

Search Filters **Active Orders** New Order

ID	Order Name	Price	Requester	Order Date	Order Status	CAD Files	Technology	Material	Operator	Order Code	Total Parts	Need By	Delivery By
116204	A	\$3,583.76	Anirudh Admin	5/10/2024	Submitted	3	FDM	ABS-M30	AA		3	5/29/2024	
115960	assembly	\$10.00	Nigel Bowditch	5/7/2024	Printing	1	FDM	ABS Plus	AA		1	5/31/2024	
115958	test	\$0.00	Bradley Stevenson	5/7/2024	Submitted	0			BB		0	5/30/2024	
115464	stuart order (IGNORE IT)	\$0.00	stuart reid	4/29/2024	Has Issues	1	FDM	ABS Plus	AA	1.1.1	20	4/30/2024	
115459	Nigel's order with multiple quantities	\$223.20	Nigel Bowditch	4/25/2024	In Progress	1	FDM	ABS-M30	BB		10	4/30/2024	
115268	ABC	\$13,366.40	John Glenn	4/25/2024	Chosen Printer Is Down	4	FDM, PolyJet	ABS-M30, Agilus Single-Color Flexible	BB		12	4/25/2024	
115260	AdiShop	\$110.00	Adrian file	4/25/2024	Approved	2	FDM, SAF	ASA, PA11 High Yield	BB		2	4/25/2024	
115197	Kumar's previews	\$1,374.10	Anirudh Admin	4/24/2024	Approved	4	FDM	ABS-M30, ASA	BB		4	4/25/2024	
114968	Mika- model in different colors.	\$260.14	Mika Lavender	4/22/2024	Shipped	3	FDM	ASA	BB		17	4/30/2024	
114868	ABC	\$3,025.66	Anirudh Admin	4/19/2024	Submitted	2	PolyJet	Agilus Single-Color Flexible	BB		9	4/25/2024	
114755	ABC	\$201.46	Anirudh Admin	4/18/2024	Submitted	1	FDM	ABS-M30	BB		1	4/25/2024	
114202	Some customer demo	\$10.00	Frank Lindeman	4/10/2024	Time for coffee	2	Powder Bed (SLS), FDM	Any, ABS-M30	BB	A178781	2	4/12/2024	
114065	Costing for Demo	\$0.00	Shuvom Ghose	4/8/2024	Submitted	1	FDM	ULTEM® 9085 Resin	BB		1	4/12/2024	
113239	Demo AMER	\$2,294.75	Frank Lindeman	3/25/2024	Approved	3	SAF, FDM, PolyJet	PA11 High Yield, ASA, Agilus Single-Color Flexible	BB	PROJETABC	6	3/29/2024	
113050	Test File for Day 1	\$201.46	Dhruj Acharya	3/21/2024	In Review	1	FDM	ABS-M30	BB	RnD 1	1	3/21/2024	3/28/2024
113048	Demo	\$434.00	Frank Lindeman	3/21/2024	In Review	2	FDM	ABS-M30	BB	COPELAND1234	4	3/25/2024	
112045	240320-MB	\$1,203.60	Mothe Benash	3/20/2024	In Review	1	FDM	ABS-M30	BB		10	3/21/2024	

Export orders Orders per page: 25 (1 2 3) 90 orders

GRABCAD STREAMLINE PRO Control Shop Print Develop Analyze Contact Us ? AA

Home / Makerspace / Orders / Project ABC


Requester: John Glenn: anirudh+ccanary@grabcad.com (cannot edit) Operator BB

ID: 115268 Order Name: Project ABC Order Code:

No files selected Maximum file size: 3072 MB Add More Files Notify me about updates

Order Date	Need By	Delivery By	Order Status	Total Price
4/25/2024	4/25/2024		In Progress	\$13,885.40

Part Settings

1  Anaconda C Bracket.SLDPRT
8.66 x 1.97 x 4.92 in

Quantity: Download

Auto Estimations
 No files attached

Build Details

Technology: PolyJet Submitted

Material: Agilus Single-C... Material estimate: 1.4 kg

Color: Black Time estimate: 13.02 hr

Estimated with Stratasys J850 Prime on 4/29/2024

Part Status


Submitted \$353.92

Estimate/Price

Material estimate: 1.4 kg

Time estimate: 13.02 hr

Part Settings

2  Flower plat.3MF
4.1 x 3.41 x 3.61 in

Quantity: Download

Auto Estimation
 No files attached

Build Details

Technology: PolyJet Submitted

Material: Agilus Multi-Co... Material estimate: 10 kg

Color: Any Time estimate: 20 hr

Part Status

Submitted \$519.00

Estimate/Price

Material estimate: 10 kg

Time estimate: 20 hr

Comments History

1 - 5

- Anirudh Admin 5/2/2024 12:21 PM
Added Part →
- Anirudh Admin 5/2/2024 12:22 PM
• Anaconda C Bracket.SLDPRT
Technology → FDM
Material → ABS-M30
Machine Type → Stratasys F370
Price \$0.00 → \$2,317.36
Color → Blue
Material estimate 0in³ → 40in³
Support estimate 0in³ → 2.8in³
Time estimate 0hr → 13.68hr
- Anirudh Admin 5/29/2024 7:57 AM
• Order
Status → Chosen Printer Is Down
Operator → Bradley Stevenson
- Anirudh Admin 5/29/2024 7:59 AM
• Order
Status → In Progress
Order Name ABC → Project ABC
- Flower plat.3MF
Material → Agilus Multi-Color Flexible
Machine Type → Stratasys J850 Prime
Color → Any
Price \$0.00 → \$519.00
Material estimate 0kg → 10kg
Time estimate 0hr → 20hr



GrabCAD Streamline Pro Shield

Overview

Streamline Pro Shield is an industrial grade secure network gateway device that protects the connected Stratasys 3D printer by isolating and defending the 3D printer from cyber security attacks, as well as defending the network from the 3D printer.

Features

- Firewall to control communication to and from the printer.
- IDS (Intrusion Detection System) to monitor and log abnormal network traffic.
- MSI Validation - Validate installation of file packages sent to the printer (digital signature).

Firewall

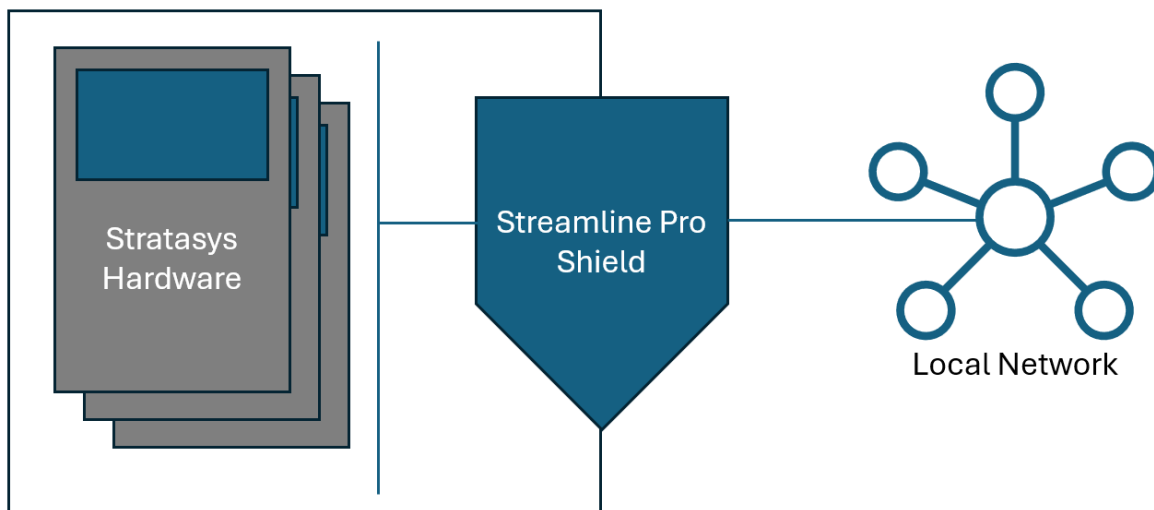
A packet filtering firewall that operates at the network layer.

Filter incoming and outgoing packets based on predefined rules (such as IP addresses, protocols, and ports).

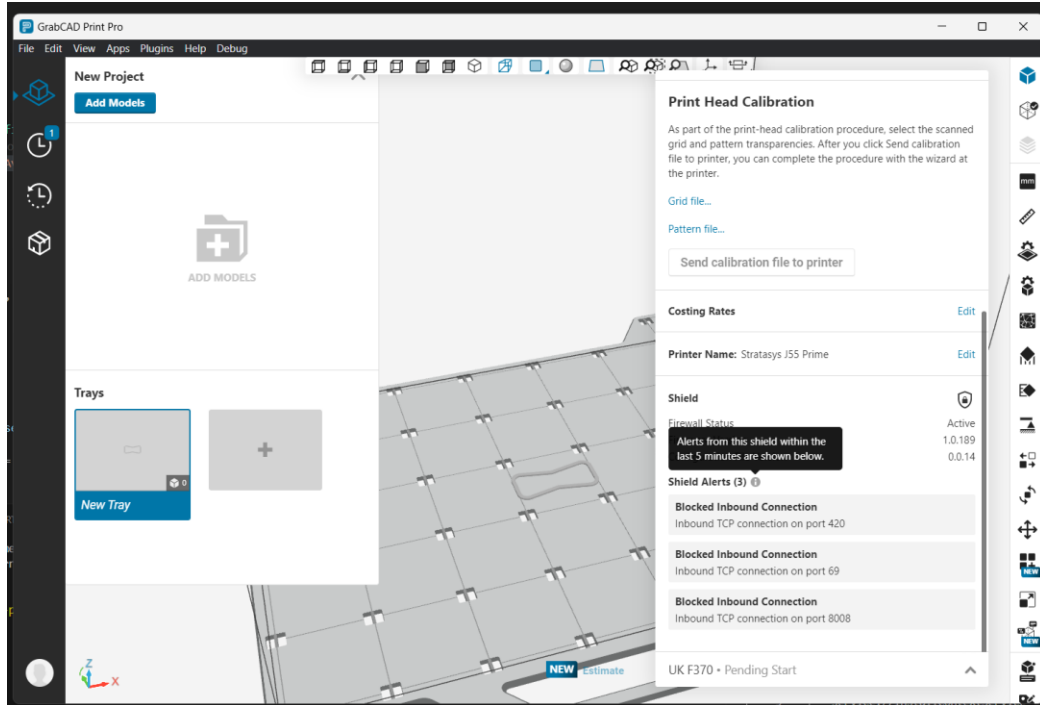
A firewall configuration file is being activated from a set of predefined configurations.

Configuration files are tamper proof via digital signature validation.

System Diagram



Screenshots



Network Communication

Purpose	Config Set	Direction	Port	Protocol
Shield Management	All	Inbound	33780	TCP
Ping	All	Inbound	1	ICMP
HTTP Beyond Trust (remote diagnosis)	PJ	Outbound	80	TCP
HTTPS Beyond Trust (remote diagnosis)	FDM PJ	Outbound	443	TCP



DNS	FDM	Inbound & Outbound	53	UDP
FDM: MTConnect	FDM	Inbound	5000	TCP
PJ: MTConnect for MQTT	PJ	Outbound	8883	TCP
PJ: GrabCAD Job sending & Job Manager updates	FDM / PJ	Inbound	57001	TCP
FDM: UPnP (optional)	FDM	Inbound & Outbound	1900	UDP
FDM: GrabCAD Job sending & Software updates	FDM	Inbound	53742	TCP
FDM: GrabCAD Printer discovery UPnP http traffic (optional)	FDM	Inbound	53743	TCP
PJ: Printer discovery	PJ	Inbound & Outbound	35891	UDP



Additional Information:

- We publish [“Your Data on GrabCAD”](#)
- We offer the [“GrabCAD Platform Security Whitepaper”](#)
- End User Agreement www.grabcad.com/terms

For further questions around Stratasys Security:

- For completion of questionnaires and forms please contact us via customerquestionnaires@stratasys.com.
- For application and product Security questions relating to Stratasys Products, Software, Cloud development and Cloud production please contact us via sw-security@stratasys.com

Disclaimer

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