

CONNECTING THE DISCONNECTED

# Vyorius

## simplifying unmanned Drone operations, wherever they are!



## Product

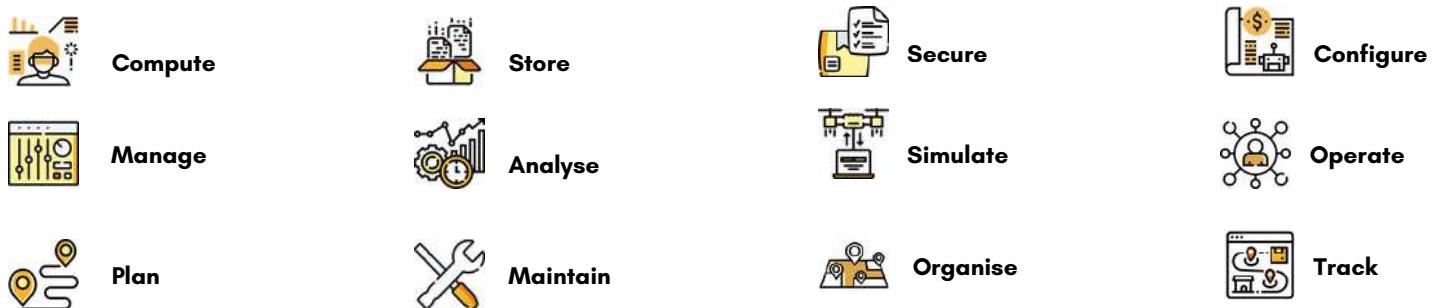


## Use-Cases

- Agriculture
- Cargo and Logistics
- Infrastructure
- Public Safety
- Energy
- Mining & Quarrying

## Undifferentiated Heavy Lifting

Real-time visualization tools combined with robotics management & analysis capabilities installed with just a single line of code which were previously scattered across system



## Salient Features

Our hybrid architecture allows the control and command to happen even without the Internet. The infrastructure supports RF, Tethered, WiFi, LTE/4G/5G and Satellite communication mediums right out of the box.

**Operating workforce reduction | Any drone - One platform | Security and certification**

- Command & Control
- Fleet Management
- Secure encryption
- Log Storage
- Data Analytics
- Pilot training

## Vyorius AI-Pilot:



\*Vyorius Webdashboards are supported only in modern browsers. This includes the following versions.  
Chrome - latest; Firefox - latest; Opera - latest; Edge - 13+; IE- 11+; Safari - 9+; IOS - 9+; Android - 4.4+; Windows Mobile IE- 11+

## Vyorius training Simulator:

- Complete authentication over the simulation training hours and performance
- Automatically calculates the grades and time and user management
- Supports Xbox/PS4 joysticks as well as RC controllers.
- Generate a digital training certificate.
- SOP based 15 levels to train muscles.
- Training missions like kamikaze, grenade dropping, swarms, payload delivery and open world.
- Supports quads, fixed wing and e-VTOLs.



\*Vyorius Simulator Software run well on any modern computer. Performance will depend on the system environment, 3rd party applications, and available system resources. More capable hardware will provide a better experience. A computer with at least 16GB RAM, an SSD, Nvidia graphics card (at least 1650 4GB or above) and an i7 or better CPU will be suitable for most applications.

\*For the best experience and compatibility, we recommend you the newest version of your operating system.

## Vyorius Control Software:



- Operates with any drone and communication protocol, smart or basic.
- Drones reorganize autonomously to ensure mission continuity.
- Prevents collisions and resolves flight path conflicts in real time.
- Anticipates and mitigates mission risks proactively.
- Enables one pilot to control multiple drones without internet dependency.

\*Vyorius Control Software run well on any modern computer or mobile device. Performance will depend on the system environment, 3rd party applications, and available system resources. More capable hardware will provide a better experience. A computer with at least 8Gb RAM, an SSD, Nvidia or AMD graphics and an i5 or better CPU will be suitable for most applications.

\*For the best experience and compatibility, we recommend you the newest version of your operating system.

## Vyorius Operations Manager:

- Manage all the missions globally at a single dashboard
- Remote supervision of missions in real time
- Asset management and hierarchical distribution
- Know live employees and pilots
- Pre & Post mission data logging
- Automatic flight log storage
- Digitize the complete operations workflow
- Analyze flights in 3D
- Easy data sorting based on filters

The dashboard features a world map with flight routes highlighted in blue. On the right, a summary box displays drone status: 20 Active, 20 In-Active, and 80 Operable. The left sidebar includes sections for Home, Order (Inprogress, Completed, Cancelled, Pending, All Order), Flight, and E-Component.

\*Vyorius Webdashboards are supported only in modern browsers. This includes the following versions. Chrome - latest; Firefox- latest; Opera - latest; Edge - 13+; IE- 11+; Safari - 9+; IOS - 9+; Android - 4.4+, Windows Mobile IE- 11+

## Vyorius Maintenance Manager:

The dashboard shows a maintenance summary for four aircraft. Each aircraft card includes a star rating, last flight details, and cycle status for hardware, software, and electronics. The sidebar on the left lists categories: Drone, Ecosystem, Payload, Battery, SBIG, and ADD ASSET.

\*Vyorius Webdashboards are supported only in modern browsers. This includes the following versions. Chrome - latest; Firefox- latest; Opera - latest; Edge - 13+; IE- 11+; Safari - 9+; IOS - 9+; Android - 4.4+, Windows Mobile IE- 11+

- Get health summary of each vehicle
- Analyse previous flights
- Run inspection through digital checklist
- Automatically calculates your hardware, software and electronics lifecycle
- Maintain workload distribution
- Predictive maintenance based on previous data
- Digitize maintenance for vehicles, batteries, payloads, sensors and even ground infrastructure
- Data analytics through GUIs
- Store inspections and maintenance data for compliance

## Vyorius Live Streaming:

- Stream live drone video feeds anywhere
- No need to connect the camera or the drone directly with internet
- Share the individual videos live with clients
- No need to worry about data privacy as we don't store the videos on the cloud
- Pilots can still store the video data locally
- Support UDP and RTSP video streams
- Complete authentication
- Individual pilot can transmit upto 6 videos
- No limit to the number of videos rendered on the cloud dashboard

The dashboard displays six live video feeds arranged in a grid. The top left corner shows a user profile for Nishant Rana. The sidebar includes Home and Account options.

\*Vyorius Webdashboards are supported only in modern browsers. This includes the following versions. Chrome - latest; Firefox- latest; Opera - latest; Edge - 13+; IE- 11+; Safari - 9+; IOS - 9+; Android - 4.4+, Windows Mobile IE- 11+ Compatible joystick required for better experience

## Vyorius 4G-5G Dashboard:

Companion Ports				
Actions	Service Name	Port	Subscribed	Engaged
<a href="#">Edit</a>	gos1	1570	Yes	No
<a href="#">Edit</a>	gos2	1571	Yes	No
<a href="#">Edit</a>	gos3	1572	Yes	No

- Enable any robot with internet connectivity
- Scalable architecture for increasing number of units
- Capability to stream video feeds on both the GCS and cloud dashboard
- Can be directly used with NVIDIA Jetson and Raspberry pi
- Real-Time Monitoring
- Bandwidth Management
- Security and Authentication
- Edge Computing Integration
- Regulatory Compliance
- Remote Control and Command

\*Vyorius Webdashboards are supported only in modern browsers. This includes the following versions.  
Chrome - latest; Firefox - latest; Opera - latest; Edge - 13+; IE- 11+; Safari - 9+; IOS - 9+; Android - 4.4+, Windows Mobile IE- 11+

## Vyorius Manufacturing Dashboard:

- Track sold Drones (post client approval)
- Manage GCS subscriptions.
- Access authentication tokens
- Store IP address of users accessing GCS
- Manage Drone Inventories
- Over the top firmware updates
- Drone firmware's management and tracking
- Preset GCS configs for clients
- Complete control on public and private keys for added security
- Compliance and Regulatory Monitoring
- Bootloader access and versioning capability

\*Vyorius Webdashboards are supported only in modern browsers. This includes the following versions.  
Chrome - latest; Firefox- latest; Opera - latest; Edge - 13+; IE- 11+; Safari - 9+; IOS - 9+; Android - 4.4+, Windows Mobile IE- 11+

## Vyorius workflow Engine:

- Showcase your services online
- Digitize direct booking of services
- Create workflow of the orders
- User can manage past and current orders
- Get quotes before final confirmation
- Real time tracking
- Real time payload and sensor data
- Route visibility
- Mission transparency and data sharing
- Get orders delivered by OTP
- Set up destination and payload requirement
- User verification and authentication

\*Vyorius Webdashboards are supported only in modern browsers. This includes the following versions.  
Chrome - latest; Firefox- latest; Opera - latest; Edge - 13+; IE- 11+; Safari - 9+; IOS - 9+; Android - 4.4+, Windows Mobile IE- 11+

## Supported by



## Launched and Deployed

We have a qualified pipeline of 500 drones with customers from India, Japan, Malaysia, Singapore and USA



## Why Vyorius ?

We are bringing the aviation grade management and data logging systems to enterprise grade unmanned operations. We believe that opensource is the way to go in the drone space and thus we are making sure that your openstack based robotic systems have industrial grade security and reliability when it comes to operations.

Your decision to opt for our services at this point will open a wide ecosystem of our future offerings which will enable you to further reduce operational costs, compliance issues and breakdown costs.

Some of the noteworthy technical solutions that will be available in near future through our ecosystem includes dynamic swarming and defoncliction for multi drone flights, AI on live camera feed and cloud based simulation all across the globe for better operations.

We hope to work with you and democratize robotic services for all.

