

# DROPS UTM System

## User Manual

Version 1.0 February 2026

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## 1. Introduction

### 1.1 What is DROPS UTM?

DROPS UTM (Unmanned Traffic Management) is a comprehensive drone fleet management system designed for organizations operating multiple drones across various locations. The system provides:

- **Real-time drone monitoring** with live telemetry
- **Mission planning** with waypoint-based routes
- **Automated emergency response** protocols
- **Fleet orchestration** for optimal resource allocation
- **Airspace management** with geofencing capabilities
- **Weather integration** for flight safety

### 1.2 System Requirements

- Modern web browser (Chrome, Firefox, Safari, Edge)
- Stable internet connection
- Screen resolution: 1280x720 minimum (1920x1080 recommended)

### 1.3 Accessing the System

Navigate to your organization's DROPS UTM URL (e.g., <https://utm.drops.eu>) and log in with your credentials.

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## 2. Getting Started

### 2.1 Logging In

1. Open your web browser and navigate to the DROPS UTM URL
2. Enter your email address and password
3. Click "**Sign In**"

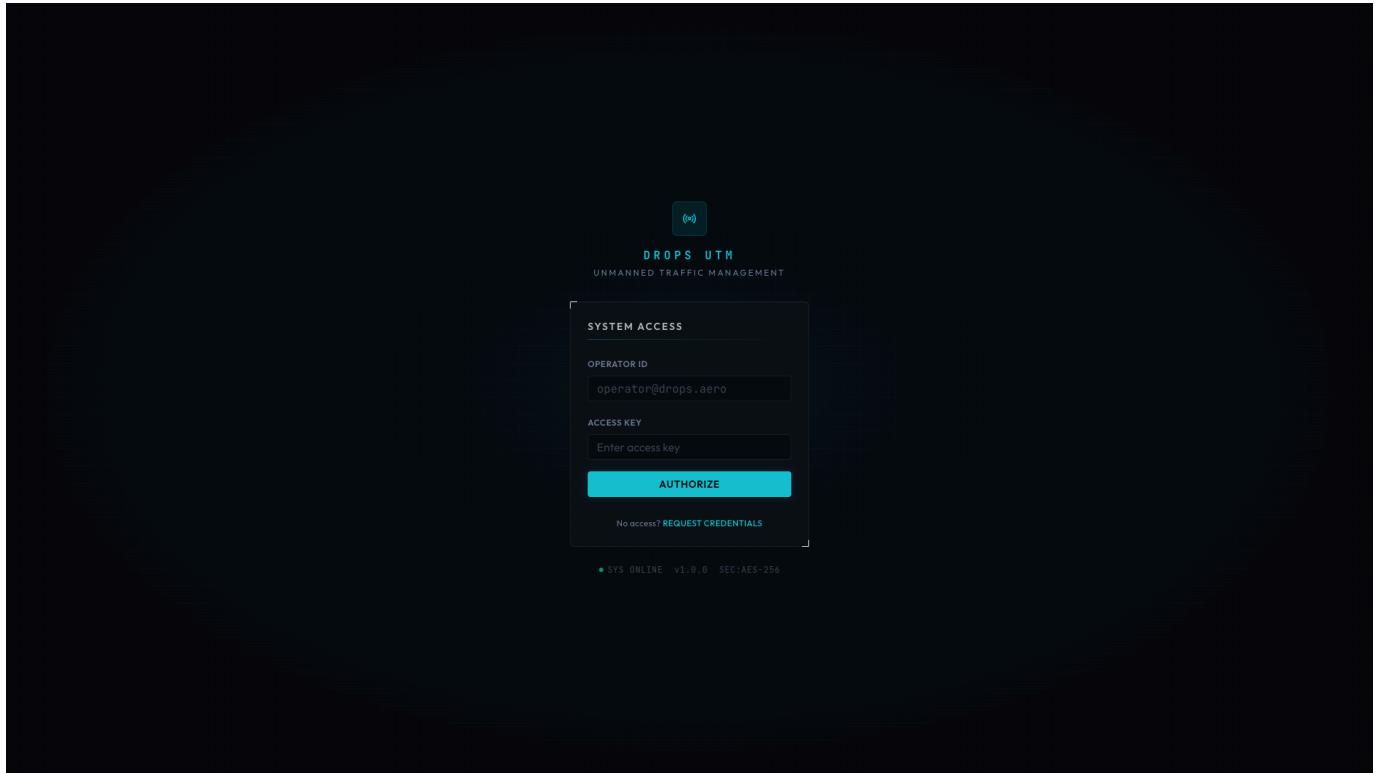


Figure 2.1: DROPS UTM Login Screen

### 2.2 First-Time Setup Checklist

For administrators setting up a new system:

Step	Action	Required Role
1	Create organization structure	Admin
2	Add hub locations	Admin
3	Register drones	Admin/Hub Operator
4	Define airspace zones	Admin/Hub Operator
5	Configure emergency protocols	Admin
6	Create user accounts	Admin

### 2.3 Navigation

The sidebar on the left provides access to all system modules:

- **Dashboard** - System overview and statistics

- **Control Center** - Real-time drone monitoring
  - **Emergency** - Emergency response management
  - **Fleet** - Fleet orchestration settings
  - **Connectivity** - Device connection management
  - **Missions** - Mission planning and execution
  - **Flights** - Flight operations management
  - **Drones** - Drone fleet registry
  - **Hubs** - Vertiport/hub management
  - **Airspace** - Airspace zone configuration
  - **Conflicts** - Conflict detection and resolution
  - **Weather** - Weather monitoring
  - **Settings** - System configuration (Admin only)
- 

## 3. User Roles & Permissions

DROPS UTM implements role-based access control (RBAC) with three distinct roles:

### 3.1 Role Comparison Matrix

Feature	Admin	Hub Operator	Pilot
<b>Dashboard</b>	✓ Full	✓ Full	✓ Full
<b>Control Center</b>	✓ Full	✓ Full	✓ Full
<b>Emergency Response</b>	✓ Full	✓ Full	✓ View/Respond
<b>Fleet Orchestration</b>	✓ Full	✓ View	✗ Hidden
<b>Connectivity</b>	✓ Full	✓ Register/Command	✗ Hidden
<b>Missions</b>	✓ All	✓ All	✓ Own
<b>Flights</b>	✓ All	✓ All	✓ Own
<b>Drones - View</b>	✓	✓	✓
<b>Drones - Register</b>	✓	✓	✗
<b>Drones - Edit</b>	✓	✓	✗
<b>Drones - Delete</b>	✓	✗	✗
<b>Hubs - View</b>	✓	✓	✓
<b>Hubs - Create</b>	✓	✗	✗
<b>Hubs - Edit</b>	✓	✓	✗
<b>Hubs - Delete</b>	✓	✗	✗
<b>Airspace - View</b>	✓	✓	✓
<b>Airspace - Create</b>	✓	✓	✗
<b>Airspace - Delete</b>	✓	✗	✗
<b>Users Management</b>	✓	✗	✗
<b>Settings</b>	✓	✗	✗

## 3.2 Admin Role

**Purpose:** Full system administration and oversight

**Responsibilities:**

- System configuration and maintenance
- User account management
- Hub creation and management
- Fleet-wide policy enforcement
- Emergency protocol configuration
- Audit and compliance monitoring

**Sidebar Access:** All menu items visible including Settings

**Best Practices:**

- Limit admin accounts to essential personnel
- Review audit logs regularly
- Maintain backup admin credentials securely

## 3.3 Hub Operator Role

**Purpose:** Day-to-day operations management at assigned hubs

**Responsibilities:**

- Drone registration and maintenance tracking
- Flight authorization and monitoring
- Mission planning and execution
- Emergency response coordination
- Device connectivity management

**Sidebar Access:** All items except Settings

**Best Practices:**

- Monitor drone health metrics daily
- Verify weather conditions before authorizing flights
- Maintain communication with pilots

## 3.4 Pilot Role

**Purpose:** Flight execution and mission completion

**Responsibilities:**

- Mission creation and execution
- Pre-flight checks
- Real-time flight monitoring
- Emergency response for assigned flights
- Flight documentation

**Sidebar Access:** Basic operations only (no Fleet, Connectivity, Settings)

**Best Practices:**

- Complete pre-flight checklists
- Monitor weather updates
- Report anomalies immediately

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## 4. Dashboard Overview

The Dashboard provides a comprehensive system overview at a glance.

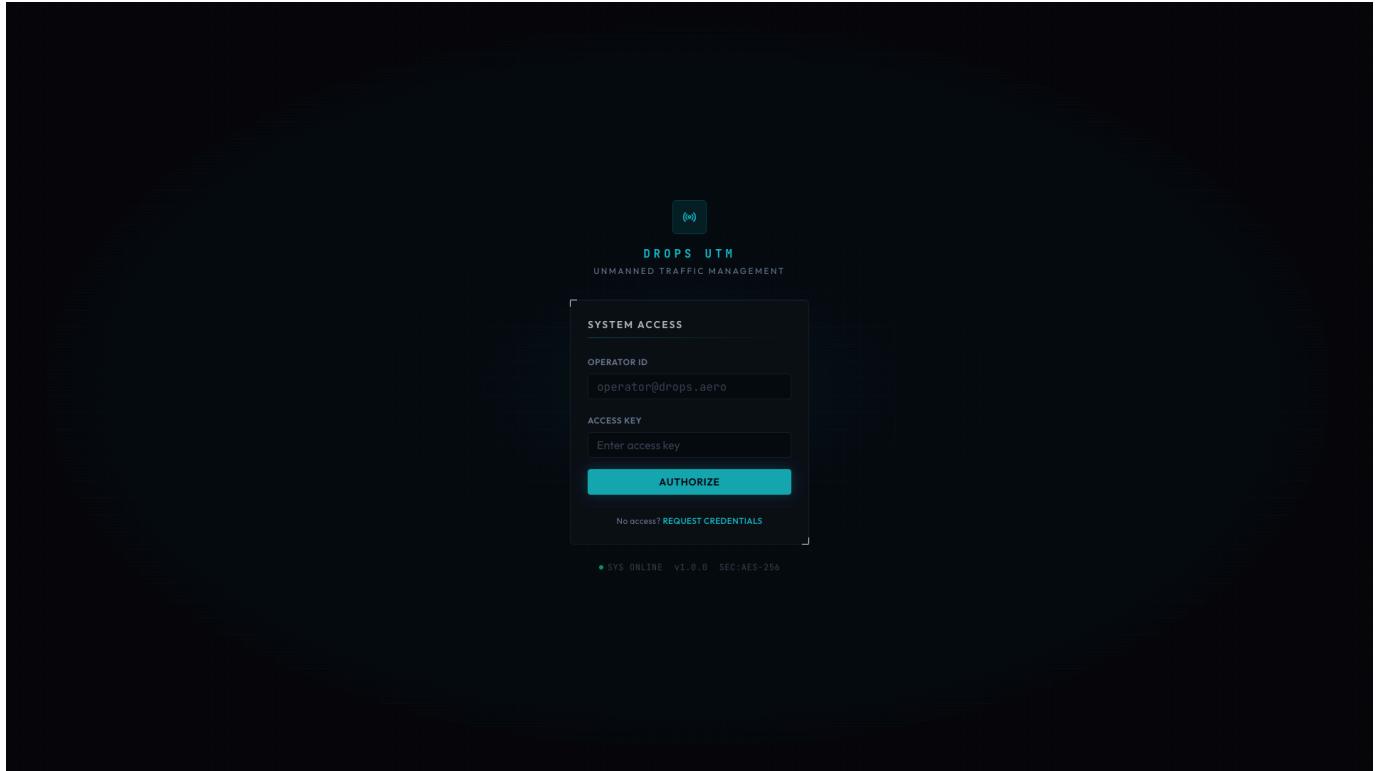


Figure 4.1: Main Dashboard View

### 4.1 Key Metrics

Metric	Description
Active Drones	Drones currently airborne
Active Flights	Ongoing flight operations
Active Missions	Missions in execution
Pending Alerts	Unacknowledged system alerts

### 4.2 Quick Status Cards

- **Fleet Status:** Overview of all drones by operational status
- **Hub Status:** Status of all vertiports
- **Recent Flights:** Latest flight activities
- **Weather Summary:** Current conditions at primary hubs

### 4.3 Activity Feed

Real-time feed showing:

- Flight departures and arrivals
- Mission completions
- System alerts

- User activities
- 

## 5. Control Center

The Control Center is the operational heart of DROPS UTM, providing real-time monitoring and control of all drone operations.

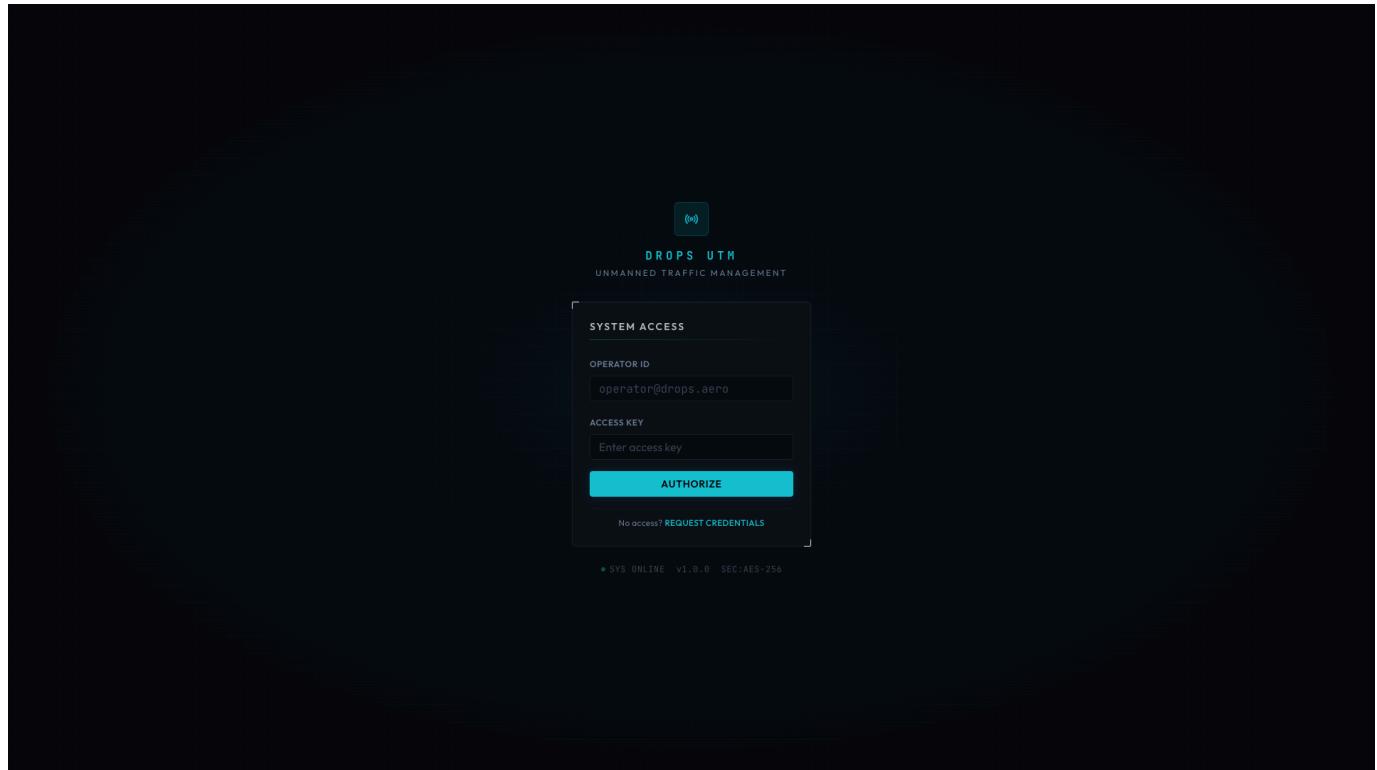


Figure 5.1: Control Center with Map View

### 5.1 Map View

The interactive map displays:

- **Drone positions** (real-time tracking)
- **Hub locations** (with status indicators)
- **Airspace zones** (color-coded by type)
- **Flight paths** (planned and actual)
- **Weather overlays** (optional)

#### Map Controls

Control	Function
Scroll	Zoom in/out
Click + Drag	Pan the map
Click Drone	Select and view details
Click Hub	View hub information

### 5.2 Drone List Panel

Shows all registered drones with:

- Registration number
- Current status (idle, flying, charging, maintenance)
- Battery level
- Current location or assigned hub
- Active mission (if any)

## Status Indicators

Color	Status
● Green	Operational/Flying
● Yellow	Idle/Standby
● Orange	Low Battery/Warning
● Red	Emergency/Offline
● Gray	Maintenance

## 5.3 Telemetry Panel

When a drone is selected, view real-time telemetry:

- **Position:** Latitude, longitude, altitude
- **Speed:** Ground speed and vertical speed
- **Heading:** Current direction
- **Battery:** Percentage and estimated flight time
- **Signal:** Communication signal strength
- **Satellites:** GPS satellite count

## 5.4 Command Interface

Send commands to selected drones:

Command	Description	Use Case
RTH	Return to Home	Recall drone to home hub
LAND	Land Immediately	Emergency landing at current position
HOVER	Hold Position	Pause and hover in place
PAUSE	Pause Mission	Temporarily stop mission execution
RESUME	Resume Mission	Continue paused mission

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## 6. Mission Planning

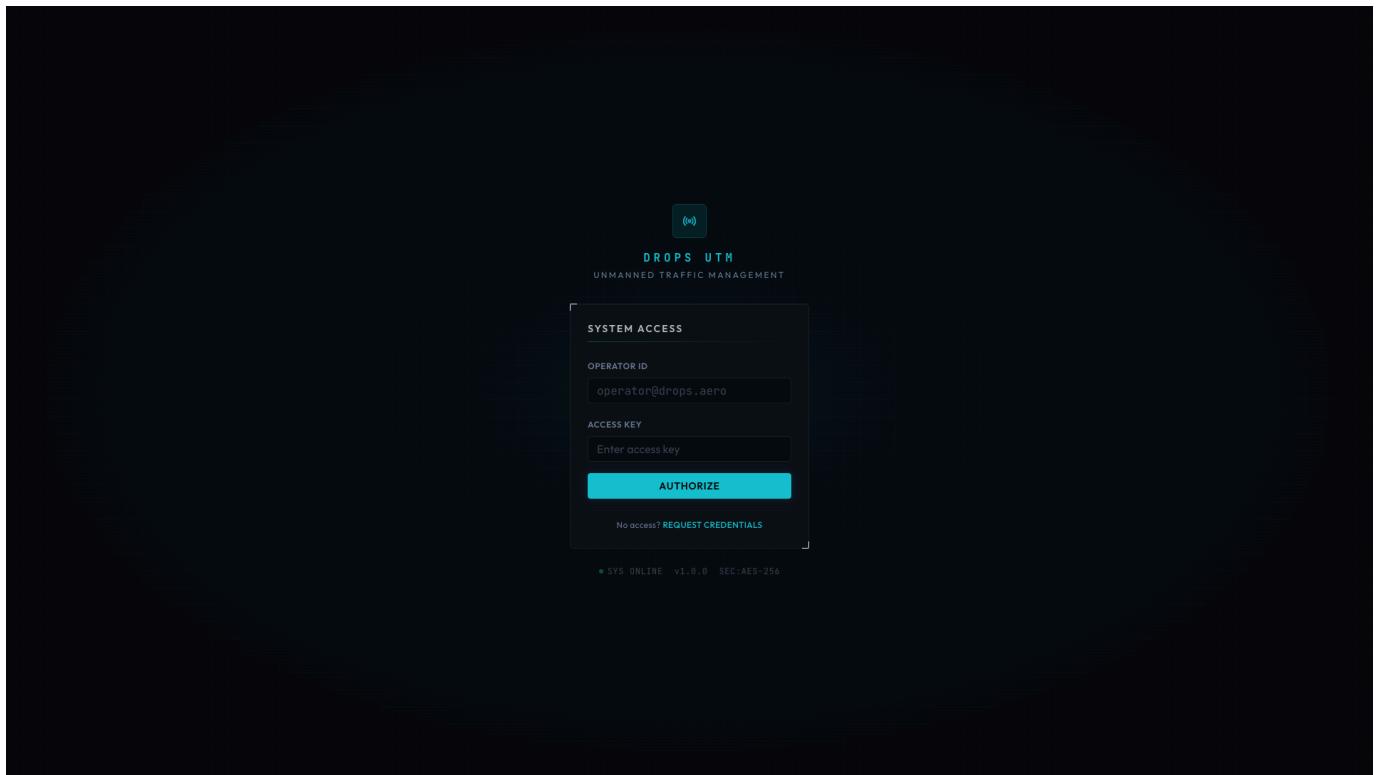


Figure 6.1: Missions List View

## 6.1 Creating a New Mission

1. Navigate to **Missions** → Click "**New Mission**"
2. Enter mission details:
  - o **Mission Name:** Descriptive identifier
  - o **Description:** Purpose and notes
  - o **Departure Hub:** Starting location
  - o **Arrival Hub:** Destination (can be same as departure)
  - o **Assigned Drone:** Select from available drones

## 6.2 Waypoint Editor

### Adding Waypoints

1. Select "**Add Point**" mode in the toolbar
2. Click on the map to place waypoints
3. Waypoints are automatically connected in sequence

### Waypoint Properties

Property	Description	Default
<b>Altitude</b>	Flight altitude in meters	50m
<b>Speed</b>	Speed to this waypoint	12 m/s
<b>Hover Duration</b>	Time to hover at waypoint	0s
<b>Actions</b>	Actions to perform (photo, video, etc.)	None

### Editing Waypoints

- **Move:** Drag waypoint marker on map
- **Edit:** Click waypoint, modify in side panel
- **Delete:** Select waypoint, click delete
- **Reorder:** Drag in waypoint list

## 6.3 Altitude Profile

The altitude profile chart shows:

- Planned altitude at each waypoint
- Terrain elevation (if available)
- Airspace ceiling limits

## 6.4 Mission Scheduling

Schedule Type	Description
<b>Manual</b>	Start manually when ready
<b>Scheduled</b>	Automatic start at specified time
<b>Event Triggered</b>	Start based on external trigger

## 6.5 Starting a Mission

**Prerequisites:**

- ✓ Drone assigned
- ✓ At least one waypoint defined
- ✓ Weather conditions acceptable
- ✓ Airspace clear

**Process:**

1. Review mission details
2. Click "**Start Mission**"
3. Confirm in dialog
4. Monitor progress in Control Center

# 7. Flight Management

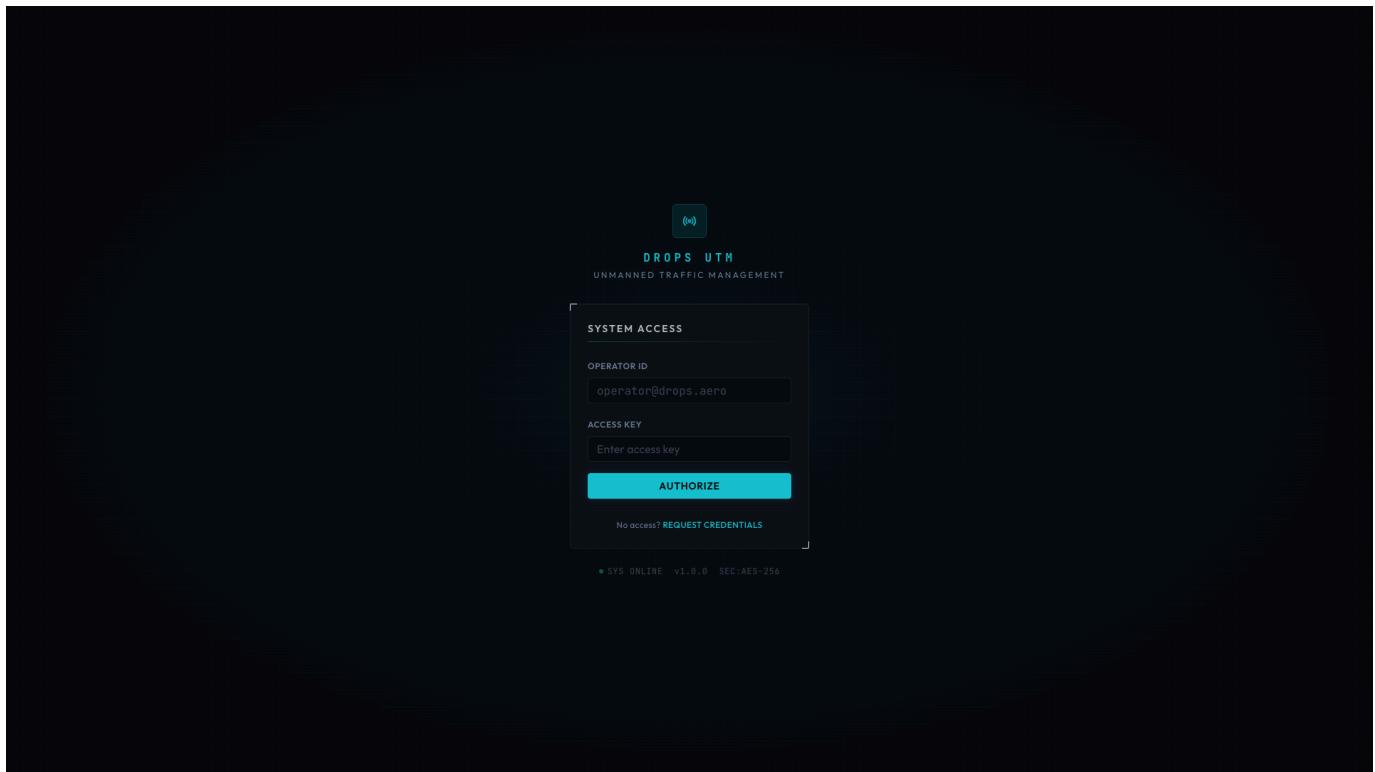


Figure 7.1: Flights Management View

## 7.1 Flight vs Mission

Concept	Description
<b>Mission</b>	Pre-planned route with waypoints
<b>Flight</b>	Actual flight operation (may or may not follow a mission)

## 7.2 Creating a Flight

1. Navigate to **Flights** → Click "**New Flight**"
2. Fill in flight details:
  - o **Drone:** Select aircraft
  - o **Departure Hub:** Origin
  - o **Arrival Hub:** Destination
  - o **Flight Type:** Cargo, Inspection, Survey, etc.
  - o **Operation Mode:** Autonomous, Supervised, Manual
  - o **Planned Departure:** Scheduled departure time

## 7.3 Flight Lifecycle

PLANNED → AUTHORIZED → ACTIVE → COMPLETED



Status	Description	Actions Available
<b>Planned</b>	Flight created, awaiting authorization	Edit, Authorize, Cancel

<b>Authorized</b>	Approved for operation	Start, Cancel
<b>Active</b>	Currently in progress	Monitor, Complete, Abort
<b>Completed</b>	Successfully finished	View logs
<b>Aborted</b>	Terminated early	View logs
<b>Cancelled</b>	Cancelled before start	-

## 7.4 Flight Authorization

Flights require authorization before execution:

1. Review flight plan
2. Check weather conditions
3. Verify airspace availability
4. Click "Authorize"

## 7.5 Flight Monitoring

During active flights:

- Track position on map
- Monitor telemetry
- View estimated arrival time
- Receive alerts for anomalies

## 8. Drone Fleet Management

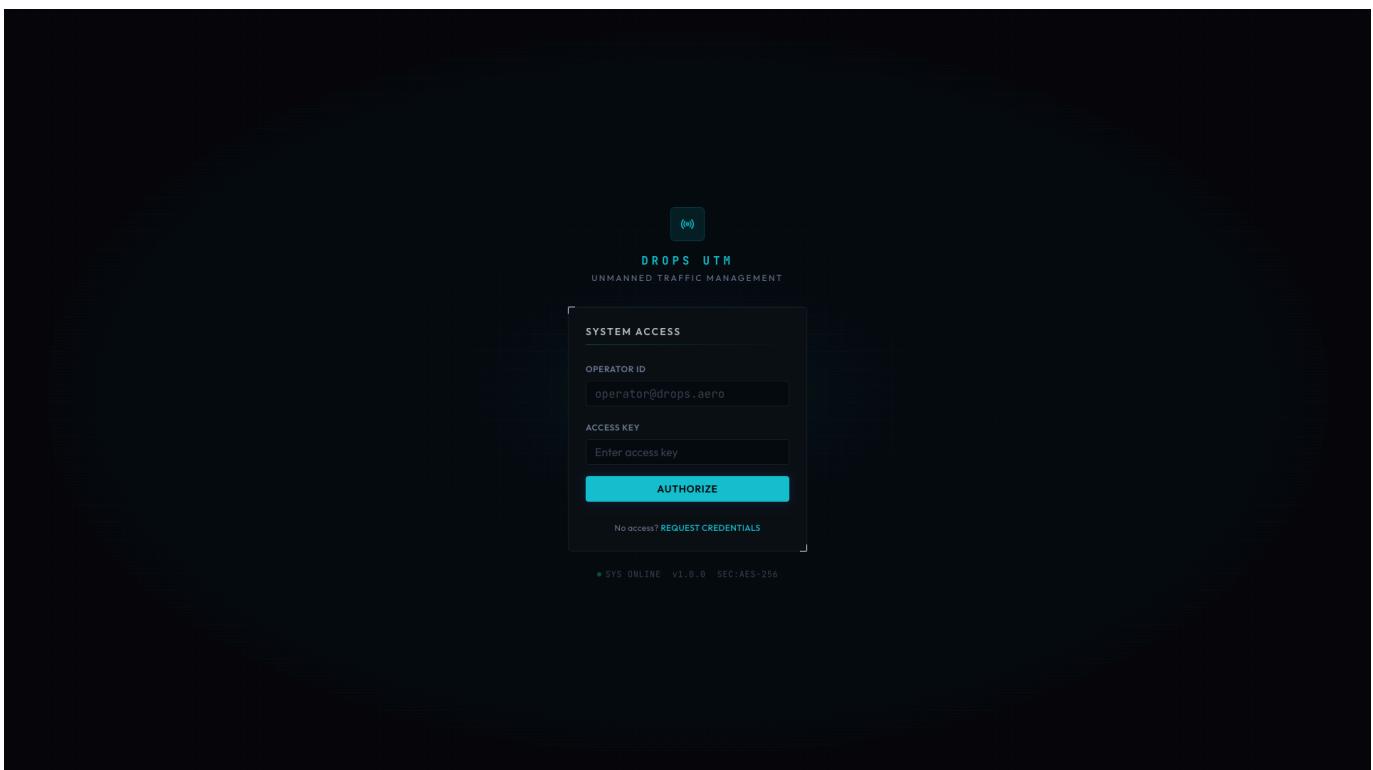


Figure 8.1: Drone Fleet Registry

## 8.1 Registering a New Drone

**Required Role:** Admin or Hub Operator

1. Navigate to **Drones** → Click "**Register Drone**"

2. Enter drone information:

Field	Description	Example
<b>Registration Number</b>	Unique identifier	GR-DRN-001
<b>Manufacturer</b>	Drone manufacturer	DJI
<b>Model</b>	Drone model	Matrice 300 RTK
<b>Serial Number</b>	Factory serial number	SN-ABC123456
<b>Home Hub</b>	Assigned base location	Athens Central Hub
<b>Communication Protocol</b>	Connection protocol	MAVLink

## 8.2 Drone Status Management

Status	Meaning	Can Fly?
<b>Idle</b>	Ready for operation	✓
<b>Flying</b>	Currently airborne	-
<b>Charging</b>	Battery charging	✗
<b>Maintenance</b>	Under maintenance	✗
<b>Offline</b>	No communication	✗

## 8.3 Drone Health Monitoring

Monitor key health indicators:

- Battery Health:** Capacity degradation over time
- Flight Hours:** Total operational hours
- Maintenance Due:** Scheduled maintenance date
- Last Inspection:** Date of last inspection

## 8.4 Maintenance Scheduling

- Select drone from list
- Click "**Schedule Maintenance**"
- Set maintenance type and date
- Drone automatically set to maintenance status on date

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## 9. Hub Management

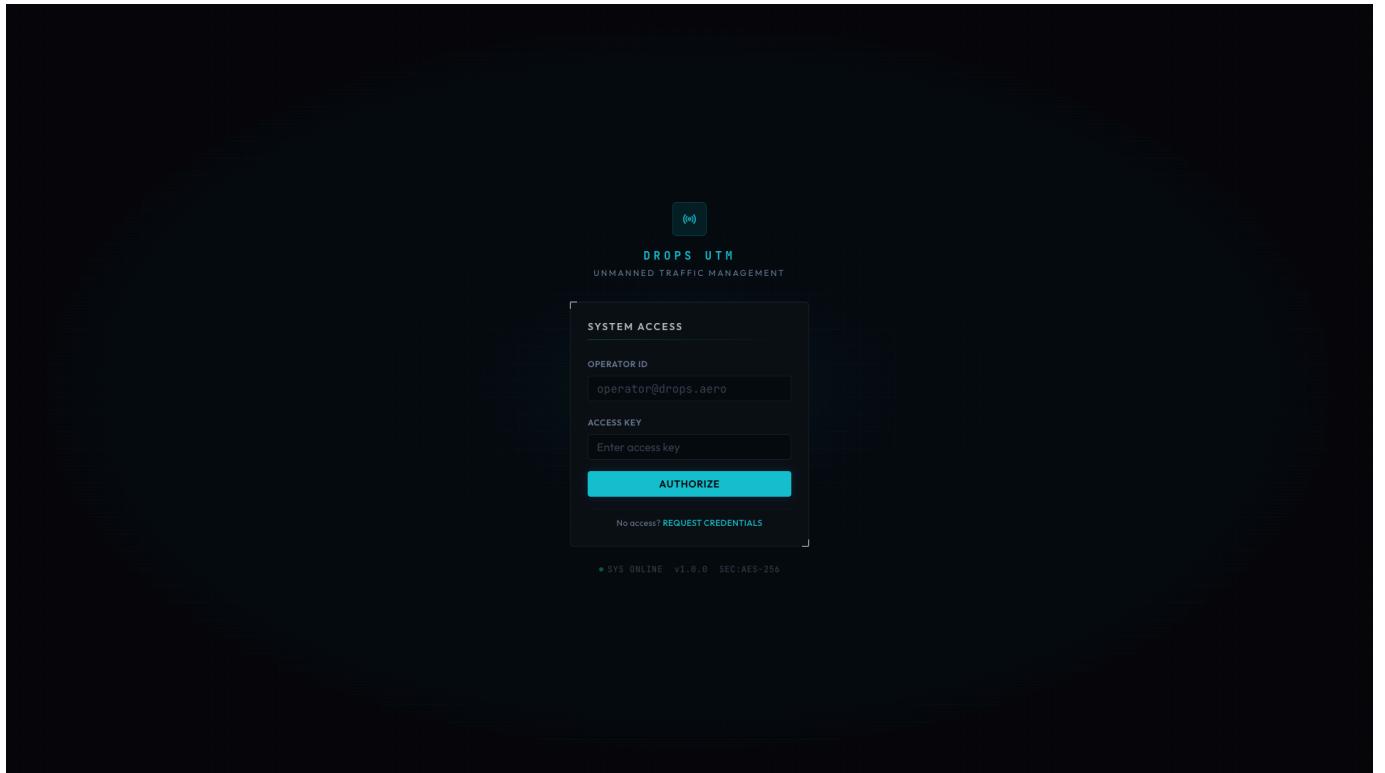


Figure 9.1: Hub Management with Map View

## 9.1 What is a Hub?

A Hub (or Vertiport) is a designated location for drone operations including:

- Takeoff and landing
- Battery charging/swapping
- Maintenance facilities
- Storage

## 9.2 Creating a Hub

**Required Role:** Admin only

1. Navigate to **Hubs** → Click "Add Hub"

2. Enter hub details:

Field	Description	Example
<b>Code</b>	Short identifier	ATH-01
<b>Name</b>	Descriptive name	Athens Central Hub
<b>Latitude</b>	GPS latitude	37.9838
<b>Longitude</b>	GPS longitude	23.7275
<b>Airspace Radius</b>	Controlled radius (meters)	5000
<b>Airspace Ceiling</b>	Maximum altitude (meters)	400
<b>Timezone</b>	Local timezone	Europe/Athens

## 9.3 Hub Status

Status	Description
Active	Fully operational
Maintenance	Limited operations
Offline	Not operational

## 9.4 Hub Capacity

Configure hub limitations:

- Maximum simultaneous drones
- Charging station count
- Landing pad availability

# 10. Airspace Management

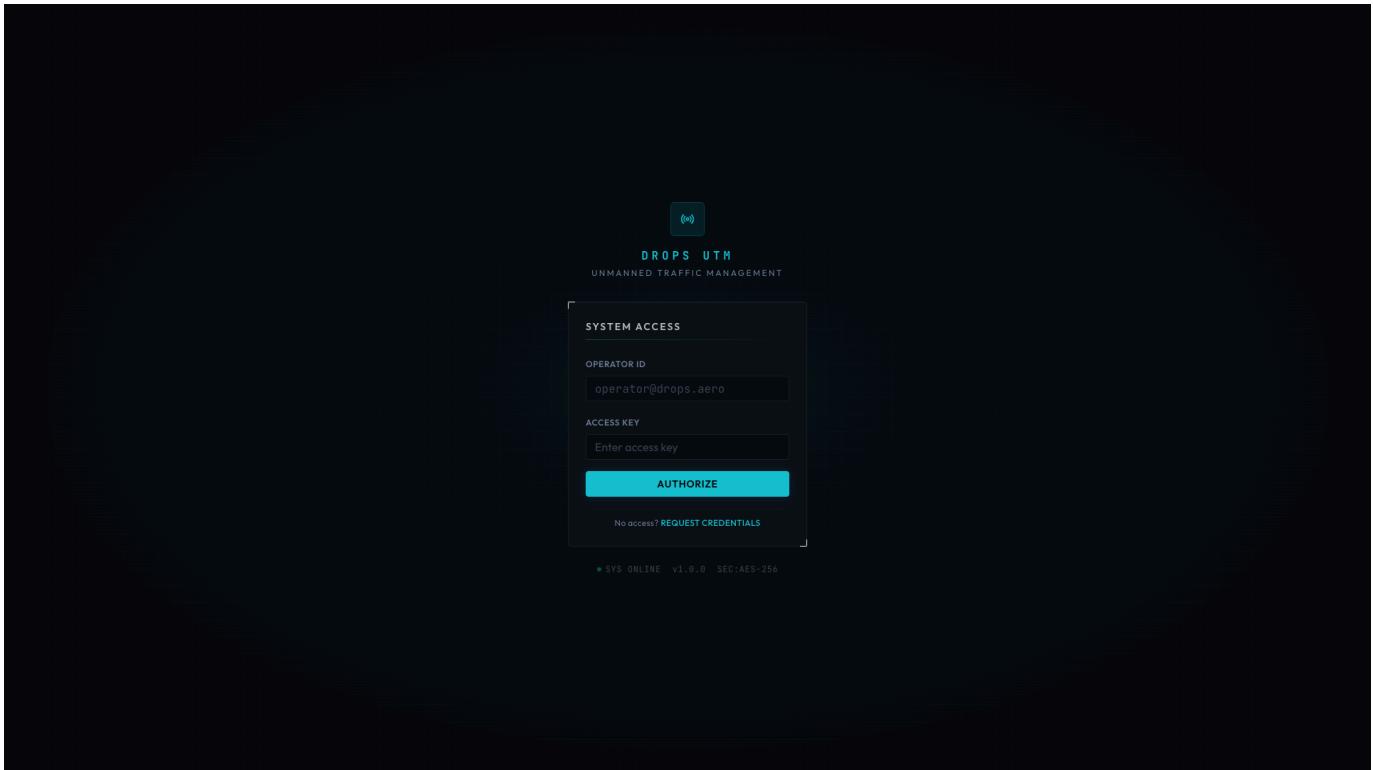


Figure 10.1: Airspace Zone Management

## 10.1 Zone Types

Zone Type	Description	Flight Rules
Controlled	Managed airspace around hubs	Authorization required
Restricted	Limited access areas	Special permission needed
Prohibited	No-fly zones	No flights allowed

<b>Advisory</b>	Caution areas	Extra vigilance required
<b>Emergency</b>	Temporary emergency zones	Emergency traffic only

## 10.2 Creating an Airspace Zone

**Required Role:** Admin or Hub Operator

1. Navigate to **Airspace** → Click "**Create Zone**"
2. Define zone parameters:
  - o Name and type
  - o Associated hub
  - o Altitude floor and ceiling
  - o Priority level

## 10.3 Geofencing

Geofences automatically:

- Warn drones approaching boundaries
- Prevent entry into prohibited zones
- Trigger alerts on breaches
- Initiate emergency protocols if configured

## 11. Emergency Response

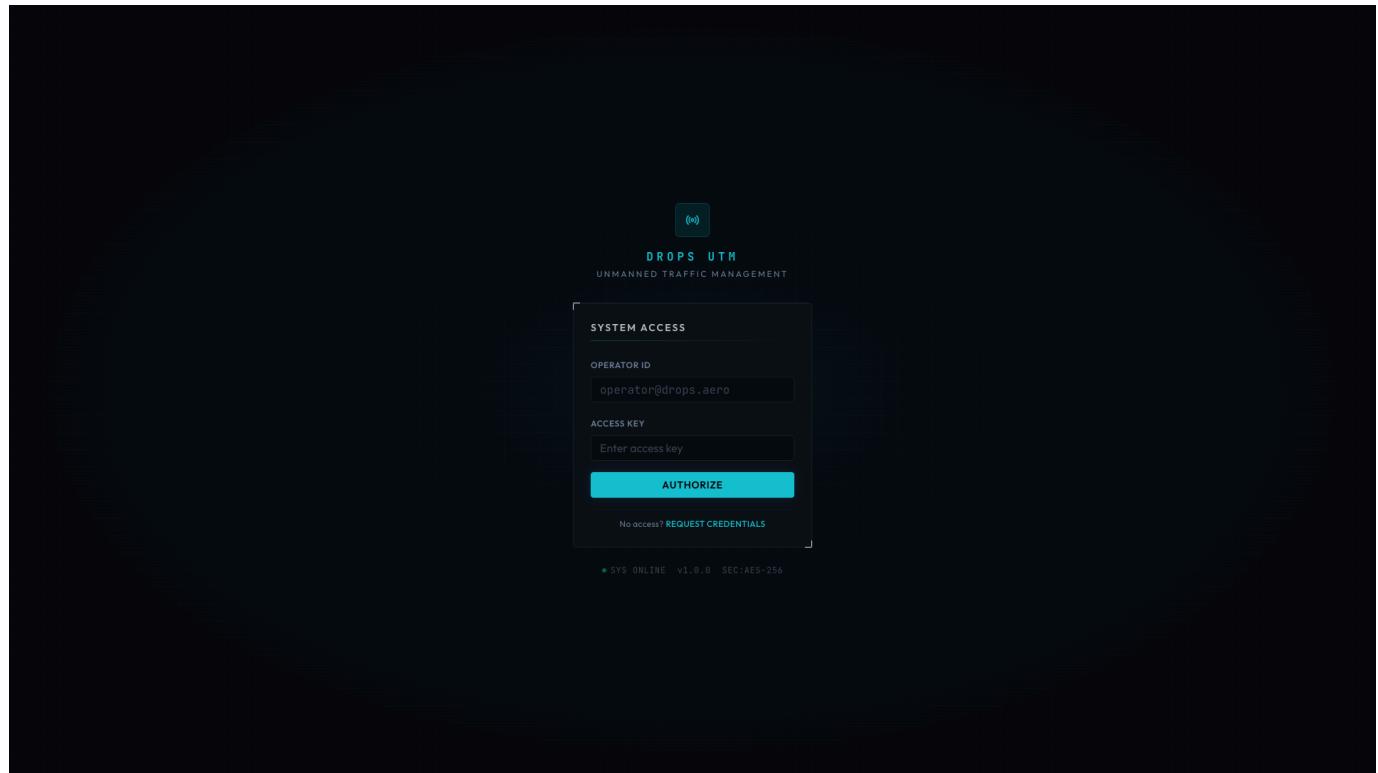


Figure 11.1: Emergency Response Dashboard

### 11.1 Emergency Types

Type	Severity	Description
<b>Battery Low</b>	Warning	Battery below 30%
<b>Battery Critical</b>	Critical	Battery below 20%
<b>Signal Weak</b>	Warning	Communication degraded
<b>Signal Lost</b>	Emergency	No communication
<b>Geofence Warning</b>	Warning	Approaching boundary
<b>Geofence Breach</b>	Critical	Boundary violated
<b>Motor Anomaly</b>	Critical	Motor malfunction detected
<b>GPS Degraded</b>	Warning	Poor GPS signal

## 11.2 Response Modes

### Automatic Mode

- System automatically executes response protocols
- Immediate action without operator confirmation
- Best for: High-risk operations, remote areas

### Supervised Mode

- System proposes action
- Operator must confirm within timeout
- Auto-executes if no response
- Best for: Standard operations with oversight

## 11.3 Response Actions

Action	Description
<b>RTH</b>	Return to home hub
<b>LAND</b>	Immediate landing
<b>HOVER</b>	Hold current position
<b>DIVERT</b>	Fly to alternate location
<b>DESCEND</b>	Reduce altitude
<b>CLIMB</b>	Increase altitude
<b>ESTOP</b>	Emergency stop (hover + alert)

## 11.4 Responding to Emergencies

1. Alert appears in Emergency dashboard
2. Review incident details
3. For Supervised mode:
  - o Click "**Approve**" to execute recommended action
  - o Click "**Override**" to reject and handle manually
4. Monitor execution
5. Document resolution

## 11.5 Incident History

All incidents are logged with:

- Timestamp
- Drone and flight information
- Severity and type
- Response action taken
- Resolution time
- Operator notes

## 12. Fleet Orchestration

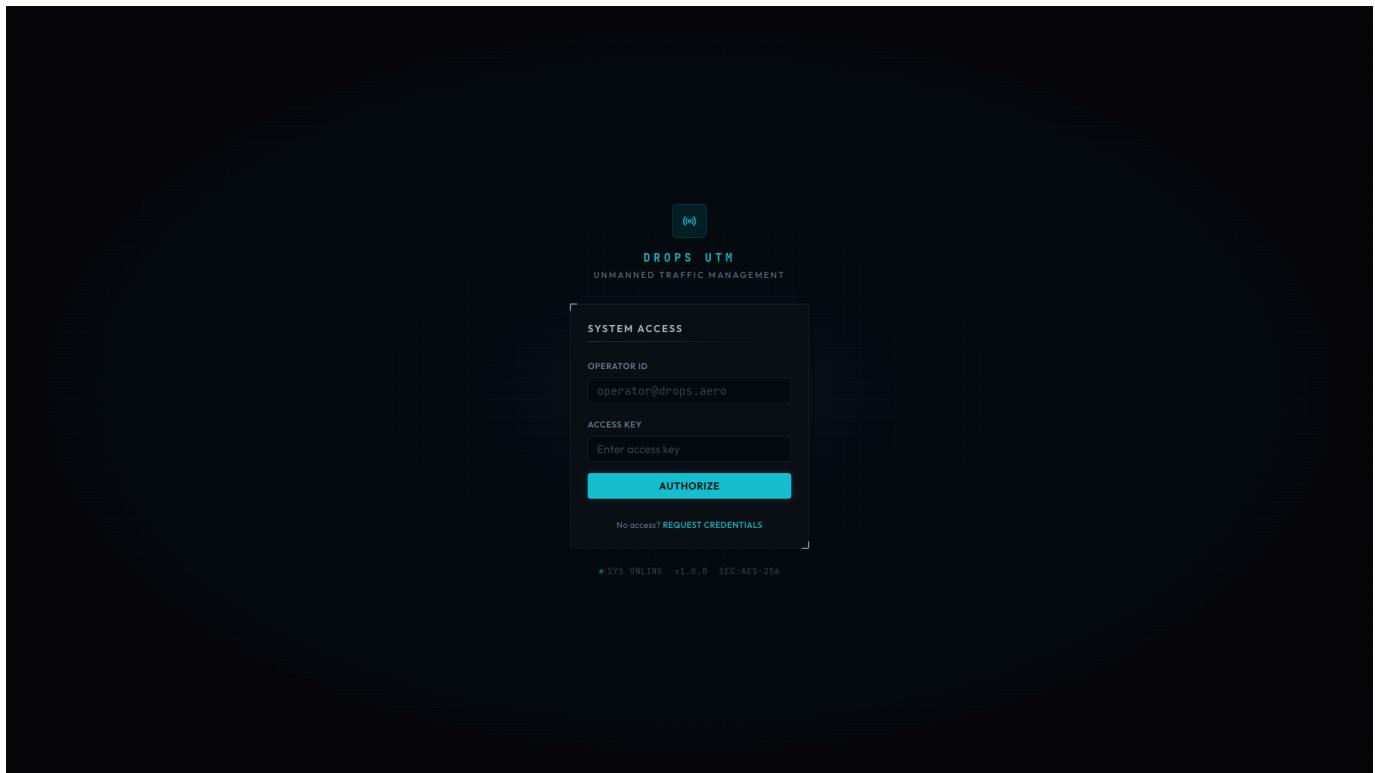


Figure 12.1: Fleet Orchestration Settings

### 12.1 Overview

Fleet Orchestration optimizes drone deployment across hubs based on demand, battery levels, and operational requirements.

### 12.2 Configuration Modes

Mode	Description
Balanced	Even distribution across hubs
Demand-Driven	Concentrate where needed
Energy-Optimized	Minimize battery consumption

### 12.3 Rebalancing

The system can automatically:

- Detect imbalanced fleet distribution
- Propose rebalancing flights
- Execute transfers between hubs

## 12.4 Fleet Analytics

Monitor fleet-wide metrics:

- Utilization rates by hub
- Average flight times
- Battery efficiency
- Maintenance patterns

# 13. Connectivity & Device Management

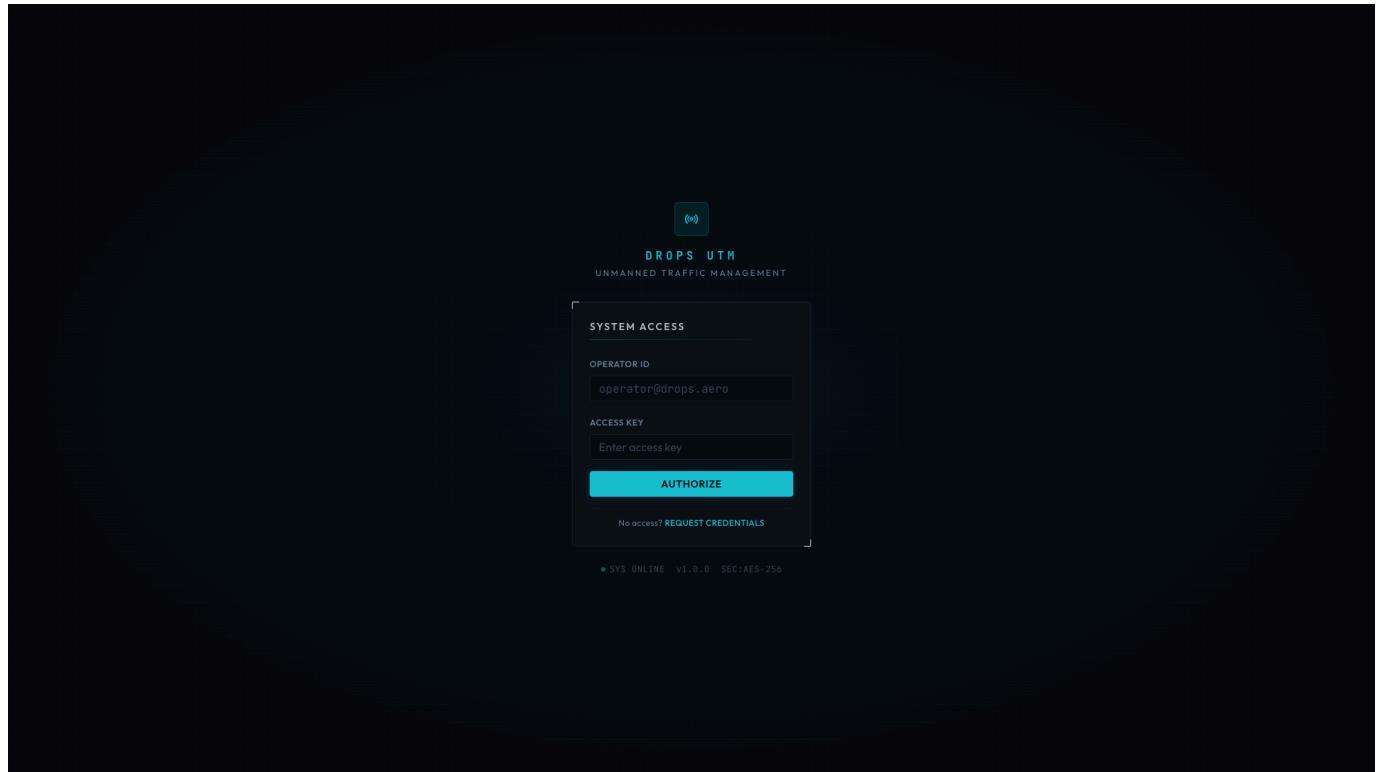


Figure 13.1: Device Connectivity Management

## 13.1 Device Registration

Drones connect to DROPS UTM through secure protocols:

1. Generate device credentials
2. Configure drone communication module
3. Establish connection
4. Verify telemetry flow

## 13.2 Communication Protocols

Protocol	Use Case

<b>MAVLink</b>	Standard drone protocol
<b>DJI SDK</b>	DJI enterprise drones
<b>Custom API</b>	Proprietary systems

### 13.3 Connection Monitoring

View connection status:

- Signal strength
- Latency
- Packet loss
- Last communication time

### 13.4 Command Routing

Send commands through:

- Direct connection
- Relay through hub
- Satellite backup (if available)

## 14. Weather Monitoring

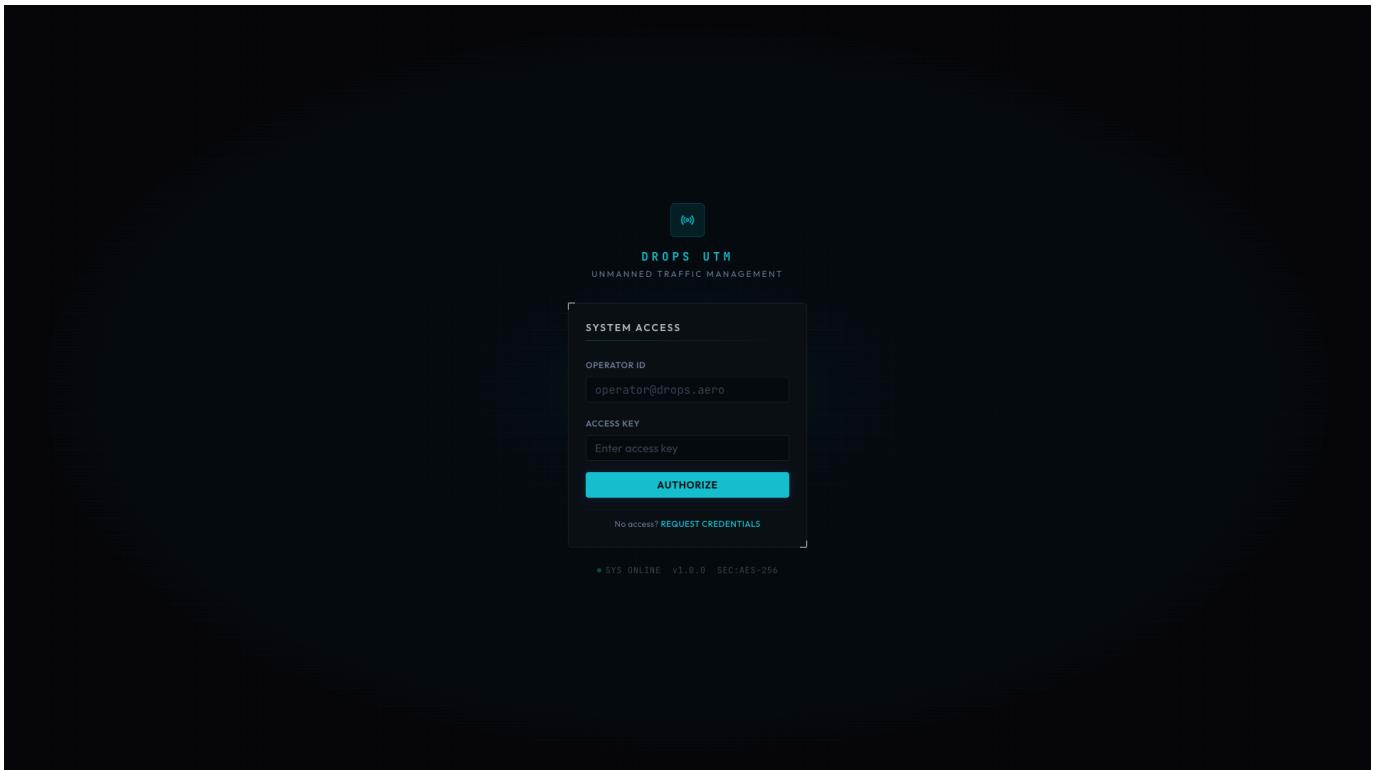


Figure 14.1: Weather Monitoring Dashboard

### 14.1 Weather Dashboard

View current conditions:

- Temperature

- Wind speed and direction
- Visibility
- Precipitation
- Cloud cover

## 14.2 Flight Weather Assessment

Before each flight:

- Check departure hub weather
- Check destination weather
- Review en-route conditions
- Verify within operational limits

## 14.3 Weather Alerts

Automatic alerts for:

- High winds exceeding limits
- Low visibility
- Incoming storms
- Rapid condition changes

## 14.4 Weather-Based Restrictions

Configure automatic restrictions:

- Maximum wind speed for operations
- Minimum visibility
- Precipitation limits

# 15. Conflict Detection

## 15.1 Conflict Types

Type	Description	Severity
Airspace	Drones in same airspace	Medium
Collision Risk	Potential collision course	High
Schedule	Overlapping flight times	Low
Resource	Competing for same resource	Low

## 15.2 Conflict Resolution

1. System detects potential conflict
2. Alert generated with details
3. Resolution options presented:
  - Reroute one or both flights
  - Delay one flight
  - Altitude separation
  - Cancel one flight
4. Operator selects resolution
5. System implements changes

## 15.3 Conflict Prevention

Proactive measures:

- Flight plan deconfliction
  - Automatic separation enforcement
  - Time-based slot allocation
- 

# 16. Settings & Configuration

**Required Role:** Admin only

## 16.1 System Settings

- Organization information
- Default operational parameters
- Alert thresholds
- Notification preferences

## 16.2 User Management

- Create/edit user accounts
- Assign roles
- Reset passwords
- Deactivate accounts

## 16.3 Integration Settings

- Weather service API
  - External system connections
  - Webhook configurations
- 

# 17. Practical Examples

## Example 1: Daily Operations Startup

**Scenario:** Hub operator starting morning operations

1. **Login** to DROPS UTM as hub operator
2. **Check Dashboard** for overnight alerts
3. **Review Weather** for all hubs
4. **Verify Drone Status:**
  - Navigate to Drones
  - Check battery levels
  - Confirm maintenance status
5. **Review Scheduled Flights:**
  - Navigate to Flights
  - Authorize pending flights
6. **Open Control Center** for monitoring

## Example 2: Creating and Executing a Cargo Mission

**Scenario:** Delivering package from Hub A to Hub B

#### **1. Create Mission:**

- Navigate to Missions → New Mission
- Name: "Cargo Delivery ATH-001"
- Departure: Athens Central Hub
- Arrival: Piraeus Port Hub
- Assign available drone

#### **2. Plan Route:**

- Add waypoints along approved corridor
- Set altitude to 80m (above obstacles)
- Review altitude profile

#### **3. Configure Parameters:**

- Speed: 15 m/s
- No hover points needed

#### **4. Save and Review:**

- Verify total distance and time
- Check weather along route

#### **5. Execute:**

- Click "Start Mission"
- Monitor in Control Center
- Await completion notification

## **Example 3: Handling an Emergency**

**Scenario:** Drone reports critical battery during flight

#### **1. Alert Received:**

- Emergency banner appears
- Audio notification sounds

#### **2. Review Situation:**

- Drone: GR-DRN-003
- Battery: 18%
- Location: 5km from destination
- Recommended action: LAND

#### **3. Assess Options:**

- LAND: Safe but package not delivered
- RTH: May not have enough battery
- Continue: Risk of forced landing

#### **4. Decision:**

- Click "Approve" for LAND
- Drone descends to safe landing

#### **5. Follow-up:**

- Dispatch recovery team
- Document incident
- Schedule battery inspection

## Example 4: Setting Up a New Hub

**Scenario:** Admin adding new vertiport location

### 1. Gather Information:

- Exact GPS coordinates
- Airspace clearances
- Operational parameters

### 2. Create Hub:

- Navigate to Hubs → Add Hub
- Code: SKG-01
- Name: Thessaloniki Airport Hub
- Coordinates: 40.5200, 22.9700
- Radius: 3000m
- Ceiling: 120m (airport proximity)

### 3. Configure Airspace:

- Navigate to Airspace → Create Zone
- Define controlled zone around hub
- Set as Controlled type
- Priority: High

### 4. Assign Drones:

- Edit drones to set new home hub
- Or register new drones

### 5. Verify:

- Check hub appears on map
- Confirm airspace zone visible
- Test drone assignment

## Example 5: Pilot Creating a Survey Mission

**Scenario:** Pilot planning infrastructure inspection

### 1. Login as pilot

### 2. Create Mission:

- Navigate to Missions → New Mission
- Name: "Pipeline Inspection Segment 7"
- Description: "Monthly inspection of gas pipeline"

### 3. Draw Survey Path:

- Select "Draw Path" mode
- Click along pipeline route
- Maintain consistent altitude (50m)

### 4. Configure Waypoints:

- Add camera actions at key points
- Set hover time for detailed inspection
- Configure photo intervals

### 5. Schedule:

- Set for next available weather window
- Save as scheduled mission

#### 6. Await Authorization:

- Hub operator reviews and authorizes
  - Receive notification when approved
- 

## 18. Troubleshooting

### 18.1 Common Issues

#### Cannot Login

- Verify email and password
- Check caps lock
- Clear browser cache
- Contact admin for password reset

#### Drone Not Appearing on Map

- Verify drone is online
- Check communication status
- Refresh browser
- Verify hub assignment

#### Mission Won't Start

- Ensure drone is assigned
- Verify at least one waypoint exists
- Check drone battery level
- Confirm weather conditions

#### Commands Not Executing

- Verify drone connection
- Check signal strength
- Try alternative command route
- Contact support if persistent

### 18.2 Error Messages

Error	Cause	Solution
"Forbidden"	Insufficient permissions	Contact admin for role upgrade
"Drone not available"	Drone busy or offline	Wait or select different drone
"Airspace conflict"	Route crosses restricted zone	Modify flight path
"Weather limits exceeded"	Conditions unsafe	Wait for improvement

### 18.3 Support Contacts

- Technical Support: [support@drops.eu](mailto:support@drops.eu)
  - Emergency Hotline: +30 210 XXX XXXX
  - Documentation: [docs.drops.eu](http://docs.drops.eu)
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## 19. Glossary

Term	Definition
<b>AGL</b>	Above Ground Level - altitude measured from terrain
<b>BVLOS</b>	Beyond Visual Line of Sight - operations where pilot cannot see drone
<b>Geofence</b>	Virtual boundary that triggers actions when crossed
<b>Hub</b>	Ground station for drone operations (also: Vertiport)
<b>MAVLink</b>	Micro Air Vehicle Link - common drone communication protocol
<b>MSL</b>	Mean Sea Level - altitude measured from sea level
<b>RTH</b>	Return to Home - command to fly back to launch point
<b>Telemetry</b>	Real-time data transmitted from drone
<b>UTM</b>	Unmanned Traffic Management - system for managing drone airspace
<b>VLOS</b>	Visual Line of Sight - operations where pilot can see drone
<b>Waypoint</b>	Geographic point along a planned route

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## Document Information

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**Change Log:**

Version	Date	Changes
1.0	Feb 10, 2026	Initial release

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