Resource Management

The Fleets module in SkyDeck is designed to optimize the use of critical resources such as drones, payloads, and pilots for executing drone missions efficiently. You can set up and organize resources, schedule missions, and track resource utilization within this module. SkyDeck manages scheduling conflicts automatically and provides a document vault for storing related documents accessible to authorized users as needed, streamlining resource management and mission coordination.

SkyDeck allows you to manage the following types of resources:

- **Pilot**: A pilot is responsible for operating the drone during a mission.
- **Drone**: The drone is the aerial vehicle used to carry the sensor to capture data.
- **Payload**: A payload refers to the additional equipment or sensors mounted on the drone to capture specific types of data.

Layout of the Fleets Module
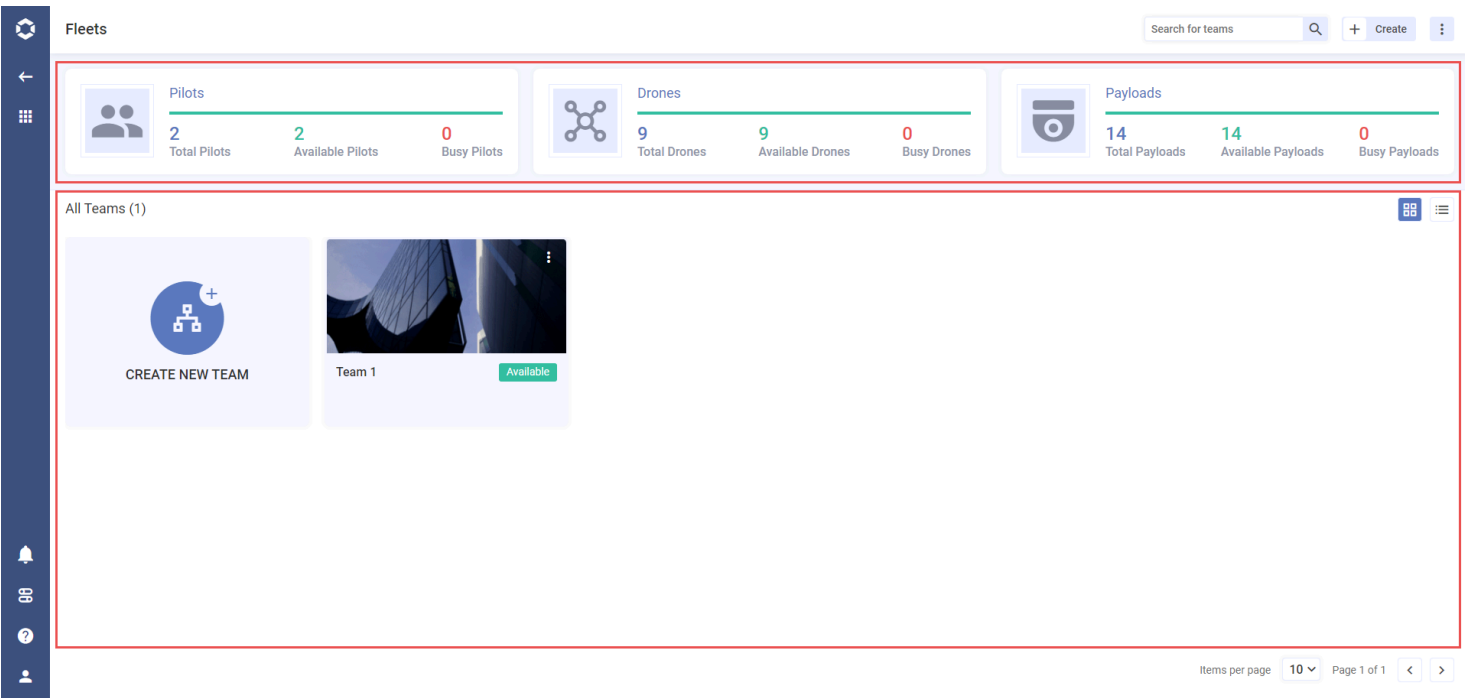
Fleets Page

The Fleets page in SkyDeck is divided into the following sections:

- **Resource Overview:** This section offers a concise overview of the three resource types: Pilots, Drones, and Payloads. It displays key information such as the total number of each resource, how many are currently available, and how many are busy based on their scheduled tasks.

- **Teams:** In this section, you can create teams that are assigned to specific projects. These teams utilize assets such as pilots, drones, and payloads to execute missions and milestones within the assigned project scope.

> [Click here](#) to learn how teams facilitate efficient resource allocation and project management within SkyDeck.

Creating a New Resource

To set up drones and payloads using the Fleets module in SkyDeck, follow these instructions:

1. Navigate to the Fleets module within SkyDeck and click on the **Create** option on top right.
2. Select the type of resource you want to create from the menu.
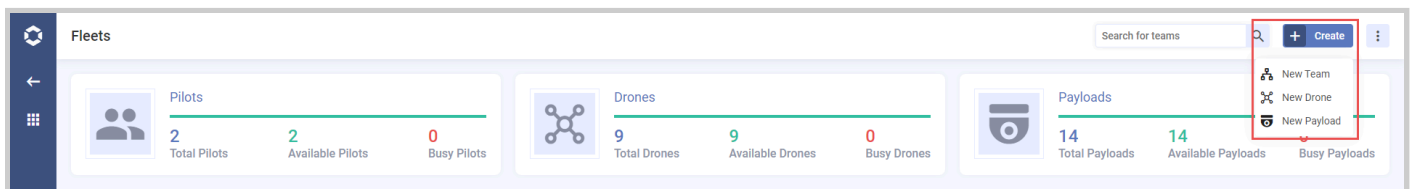
Create Resource

3. Based on the selected option, the **Create Drone** or **Create Payload** page will be displayed
4. Enter the necessary details for the resource, such as its model, capabilities, and unique identifier.
5. Click on the **Save** button to create the resource.

> Please note that **Pilots** need to be added by the administrator using the **Console Module**. When a user is added with a Pilot user role, they will automatically appear in the fleets module under Pilot resources. For detailed instructions on adding a user in SkyDeck, **[click here](#)**.

Managing Resources

The Fleets module in SkyDeck offers various features to assist you in managing your resources efficiently. Here's an overview of the key functionalities that this section explores:

- [Resource List](#): Access a detailed list of all resources, including pilots, drones, and payloads, with location and availability information

- **Resource Calendar**: View resource schedules to plan assignments and optimize utilization over time.
- **Resource Details:** Explore utilization statistics, schedules, and specifications to monitor performance and make informed allocation decisions.
- **Resource Document Vault**: Store and manage critical documents like manuals and certifications for each resource, ensuring compliance and transparency

Resource List

In the Fleets module's Resource Overview section, hover over any resource type and click the **View** button to access a detailed list of resources within that category.
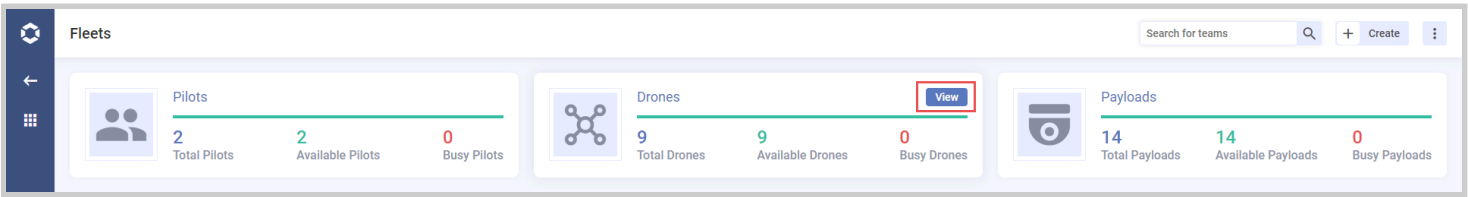
View all resources

Upon clicking the **View** button for any resource type in the Fleets module's Resource Overview section, a new page will display a detailed list of all resources created within your organization. This page provides information about the resources associated with the selected category. You can use the **category selection option** located at the top-left of the page to navigate between different resource categories and access their respective details.


Resource list

Resource Calendar

Resource calendar displays the schedule and availability of each resource. This calendar allows you to visualize resource utilization patterns and identify upcoming assignments.

To access a resource's calendar:

1. Navigate to the Resource list within the Fleets module.
2. Click on the resource for which you want to view the calendar. The resource details page will open with the Calendar mode displayed by default.
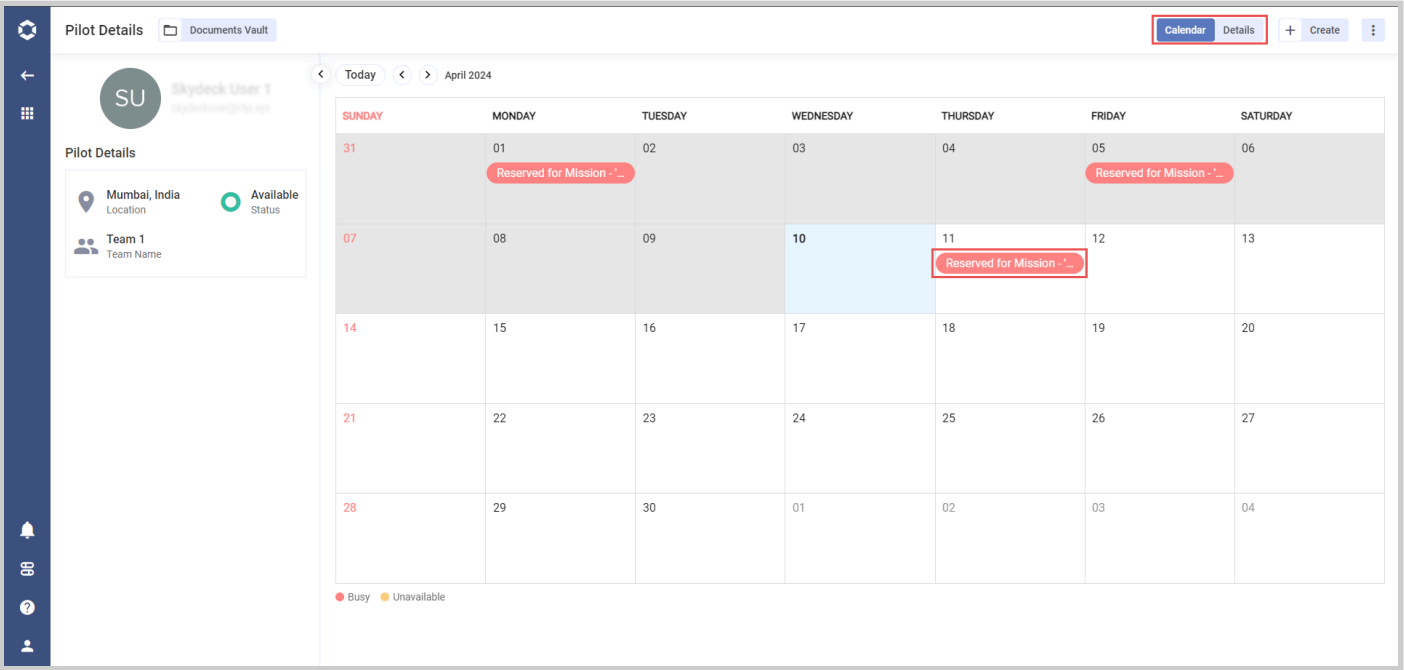

Resource Calendar

If a mission is scheduled on a particular date, you will see the resource status as '**reserved for mission**' on the calendar. You can also mark a resource as unavailable by clicking on any timeslot on the calendar and mentioning the unavailability reason. This will make the resource unavailable for any mission assignments during the selected time period.

Resource Details

Resource details page displays the utilization statistics, schedule overview, and any technical specifications of the resource.

To access a resource details:

1. Navigate to the **Resource list** within the **Fleets** module.
2. Click on the resource for which you want to view the details. The resource details page will open with the **Calendar mode** displayed by default. Click on the **Details** option on the top right to view the required information.
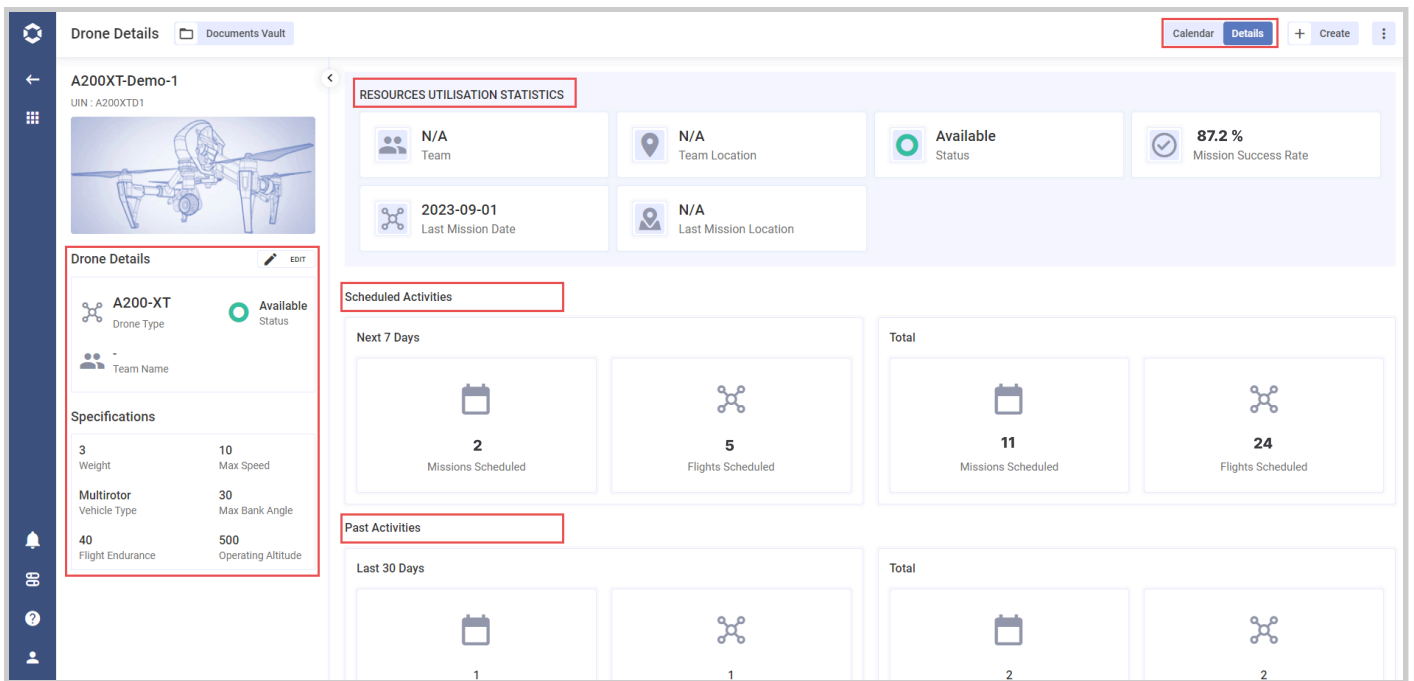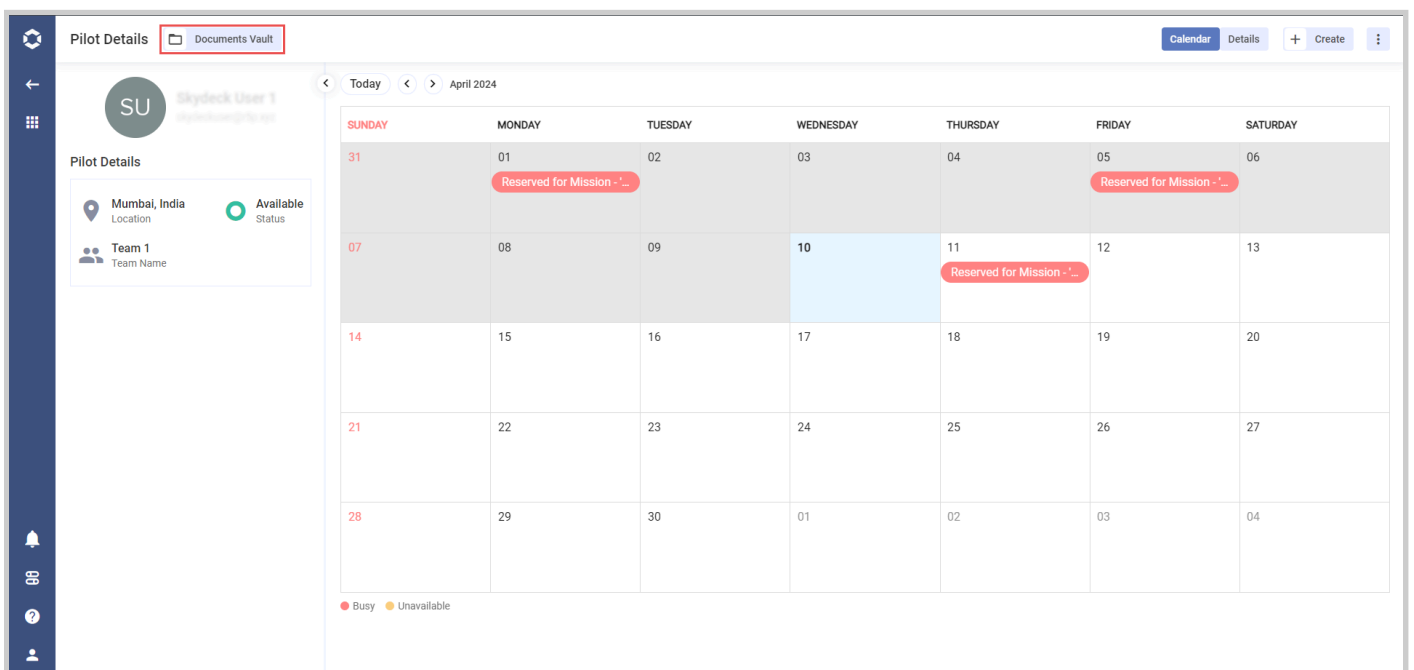
Resource details

This page provides detailed information on resource utilization statistics, scheduled and past activities, and specifications

Resource Document Vault

This is a dedicated document vault for each resource, allowing you to store and manage relevant documents such as manuals, certifications, and maintenance records. This feature ensures that essential documentation is properly organized and is readily accessible.
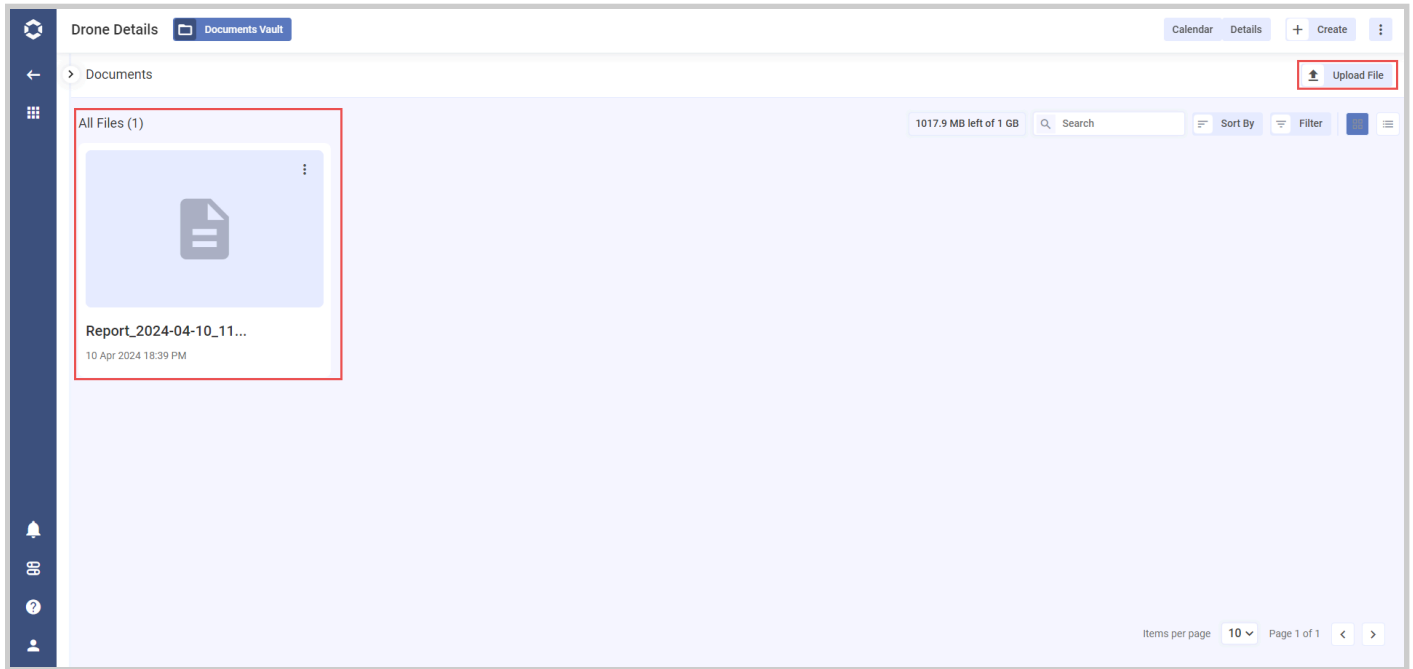
To access a resource document vault:

1. Navigate to the **Resource list** within the **Fleets** module.
2. Click on the resource for which you want to access the documents. The resource details page will open with the Calendar mode displayed by default. Click on the **Document Vault** option on the top right to view the required information.

3. Once inside the document vault, you can **view**, **edit** and **download** the uploaded files. To upload a new file click on the **Upload File** option on top right.

Document Vault

Document Vault for all the resources can be accessed by users with **Admin, Mission Manager** and **Project Manager** roles. Users with **Pilots** role can access their own Vault and the vault of any resource that is in the **same team** as them.