

Locus Setup Guide



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LOCUS WEB Application

User Manual

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PROPRIETARY:

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1. Introduction

- Before starting following this guide, please ensure that all necessary items from [Getting Started with Locus: Setup Requirements](#) were received from the customer.
- Before starting following this guide, please ensure that Network Server configuration part from [Getting Started with Locus: Setup Requirements](#) was successfully done on the customer's side.
- After all information from the customer received, please contact [Artem Starchenko](#) or [Oleksii Rassykhin](#) to start setup Keyclock tenant.
- For more details on each Locus entity, please use [Locus Web App User Documentation](#) or contact Kyiv RnD team ([Artem Starchenko](#) or [Oleksii Rassykhin](#))

2. Acronyms and Glossary

- **Altitude** - Height of an asset relative to sea level, measured in meters.
- An item, object, or person that a user wants to track, such as equipment, inventory, or personnel. In Locus, assets are linked to devices to monitor their location.
- **Asset ID** - Unique identifier automatically generated by the system for each asset.
- **Asset Status** - The current condition of an asset in LOCUS, shown as **Online** (actively tracked with intermittent updates), **Offline** (no current data from the device), or **Not Available** (not linked to a device). This reflects whether the asset's position is being monitored.
- **Asset Type** - A category user creates in LOCUS to label your assets. It can be anything you need to track, like a van, cart, or road sign, helping you organize and identify assets easily.
- **Battery Level** - The most recent battery charge of a device or beacon (%).
- **Beacon** - Device from TEKTELIC or a third-party provider that uses BLE (Bluetooth Low Energy) to send signals. Beacons help devices locate assets indoors by acting as reference points for tracking.
- **Beacon ID** - Unique identifier automatically generated by the system for each beacon.
- **BLE (Bluetooth Low Energy)** - Wireless technology used by beacons for short-range communication.
- **Beacon model** - The specific type or version of a beacon used in LOCUS. For Tektelic beacons, the model is automatically pulled from the database. For third-party beacons, user will need to create and enter the model yourself.
- **Building** - A structure within a Site for indoor tracking. Contains floor plans. Linked to a Site.
- **Device** - A TEKTELIC IoT tracker that collects location data (via GPS, BLE, or WiFi). Devices must be assigned to an asset to display its position.
- **Device model** - Specific hardware model name of a tracking device (e.g., PELICAN).
- **Event** - Notification triggered by predefined conditions (e.g., low battery).
- **Event ID** - Unique identifier automatically generated by the system for each event.
- **Event Rules** - Custom conditions user set in LOCUS to trigger alerts about your assets. Examples include when an asset enters or exits a geofence, or when a device's battery runs low.

- **Device EUI** – 64-bit globally-unique Extended Unique Identifier (EUI-64) is assigned by the manufacturer, or the owner, of the end device.
- **Floor Plan** - Internal layout map of a building, used for indoor tracking.
- **Home Site** - The logical location where entity belongs to, defined by the end user
- **Geofence**: A virtual boundary user creates in LOCUS to monitor assets indoors or outdoors. The user can set it up around a specific area (like a room or a site) and link it to event rules to trigger events, such as when an asset enters or exits the zone.
- **Indoor Map** – In LOCUS, this refers to a layout of a specific level within a building (e.g., an office floor or warehouse section). User will use indoor maps to place devices and beacons for precise indoor tracking. Same as “Floor plan”.
- **Latitude** – A geographic coordinate that shows an asset’s north-south position on Earth. In LOCUS, it’s used with GPS data from Tektelic devices to track assets outdoors.
- **LoRa** - Long-range wireless communication technology used by tracking devices
- **Longitude** – A geographic coordinate that shows an asset’s east-west position on Earth. Paired with longitude in LOCUS, it pinpoints outdoor asset locations using GPS.
- **MAC Address** - 12-character unique network identifier for beacon devices.
- **Outdoor Map** – Global map showing the planet, focused on a specific Site. Tracks devices moving between Sites using GPS or WiFi.
- **PSR (Packet Success Rate)** - Percentage of successfully received data packets from a device within one hour.
- **RSSI (Received Signal Strength Indicator)**: Signal strength received from devices or beacons, measured in dBm.
- **SNR (Signal-to-Noise Ratio)** - Measurement of signal quality compared to background noise, expressed in decibels (dB).
- **Site** – The physical location where an entity is located
- **Tag** – User-defined labels associated with an entity, used for categorization and management.
- **Tenant** – Organization or workspace within the LOCUS application.

3. Initial Account Setup

Overview

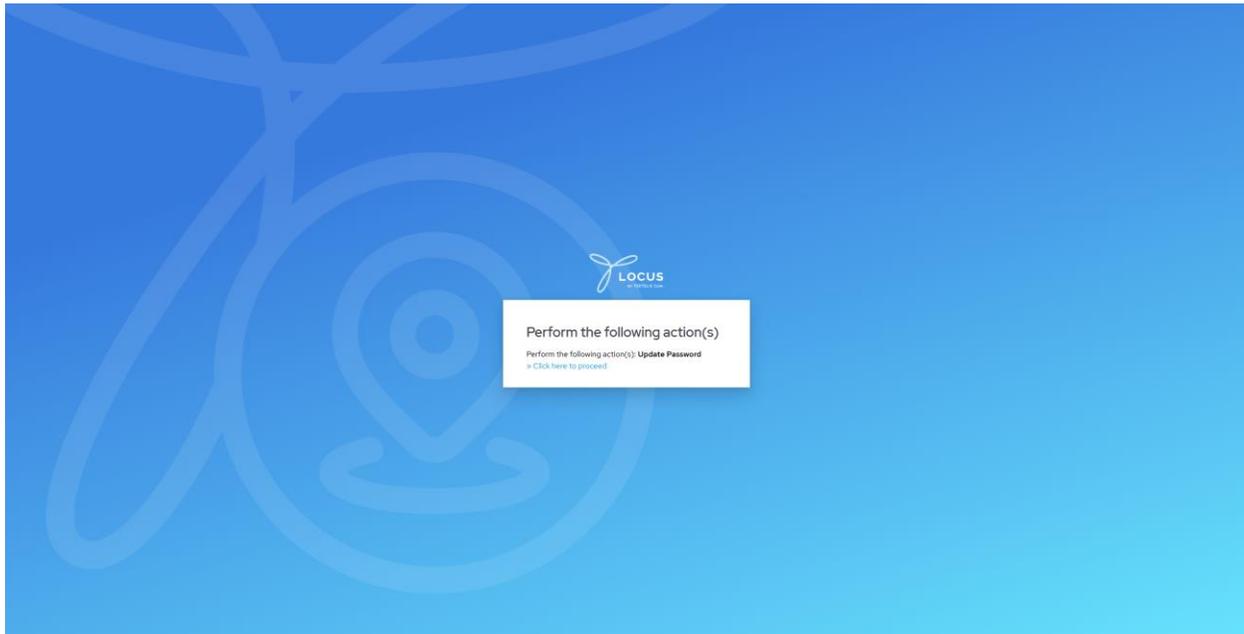
The Initial Account Setup process guides through the steps to assist a user in activating their Locus account after the user has been added to the system and their organization has been created.

1. **Trigger the Password Confirmation Email**

Ensure the system sends a password confirmation email to the user's email address (e.g., "user1@tektelic.com"). The email will contain a button labeled **Link to Account Update**.

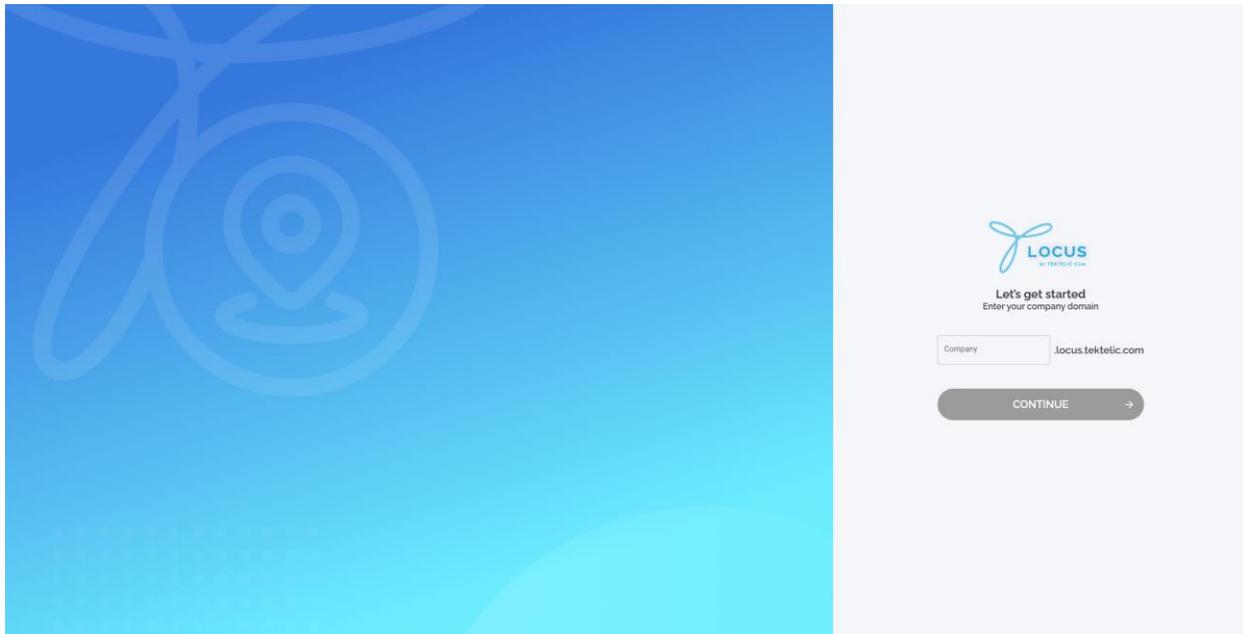
2. **Guide the User to Follow the Link:**

Instruct the user to click the **Link to Account Update** button in the email. This will redirect them to a page called "Perform the Next Actions."

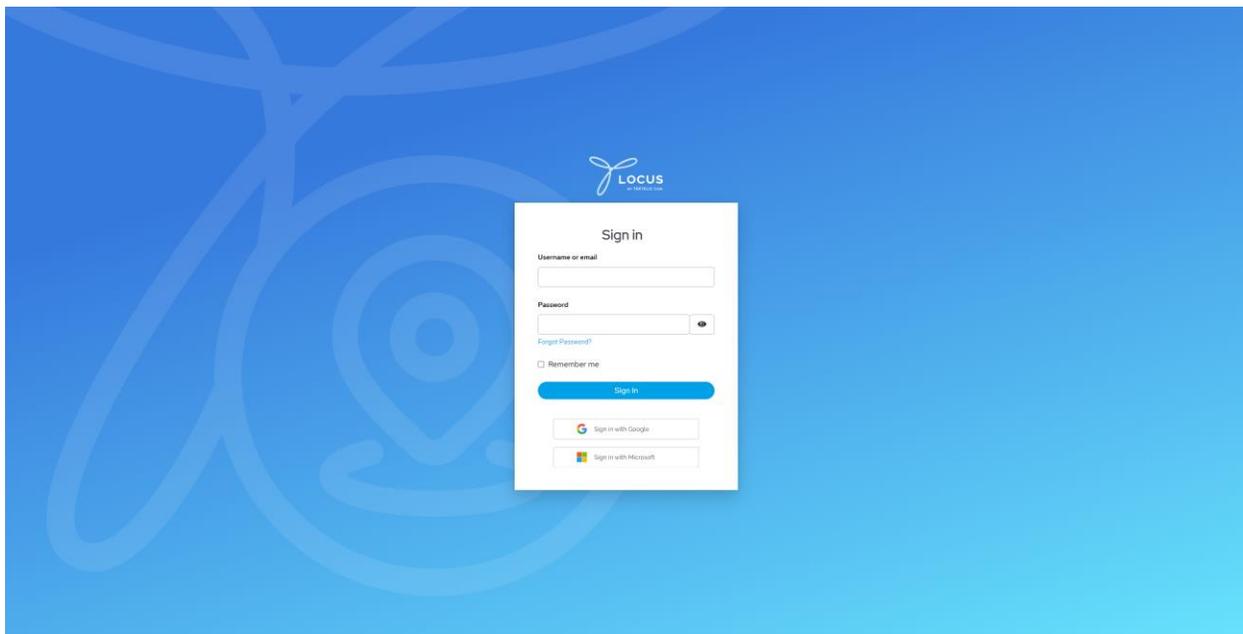


3. **Verify Organization Setup:**

Since you have already created the user's organization (e.g., "Acme Corp"), the user will not need to add it. Use organization's name to proceed.



4. **Assist with Sign-In:** Instruct the user to sign in using their credentials (email and password) or Single Sign-On (SSO) if enabled for their organization.



For details on managing user accounts, troubleshooting login issues, or updating organization details, refer to the [\[WIP\] KeyCloak Administration](#) or contact Kyiv RnD team ([Artem Starchenko](#) or [Oleksii Rassykhin](#))

4. Features

4.1 Sites

Overview

A **Site** represents a physical location within the system. Sites help organize locations for tracking and also control location-based permissions. These permissions determine what a user can view depending on their assigned locations.

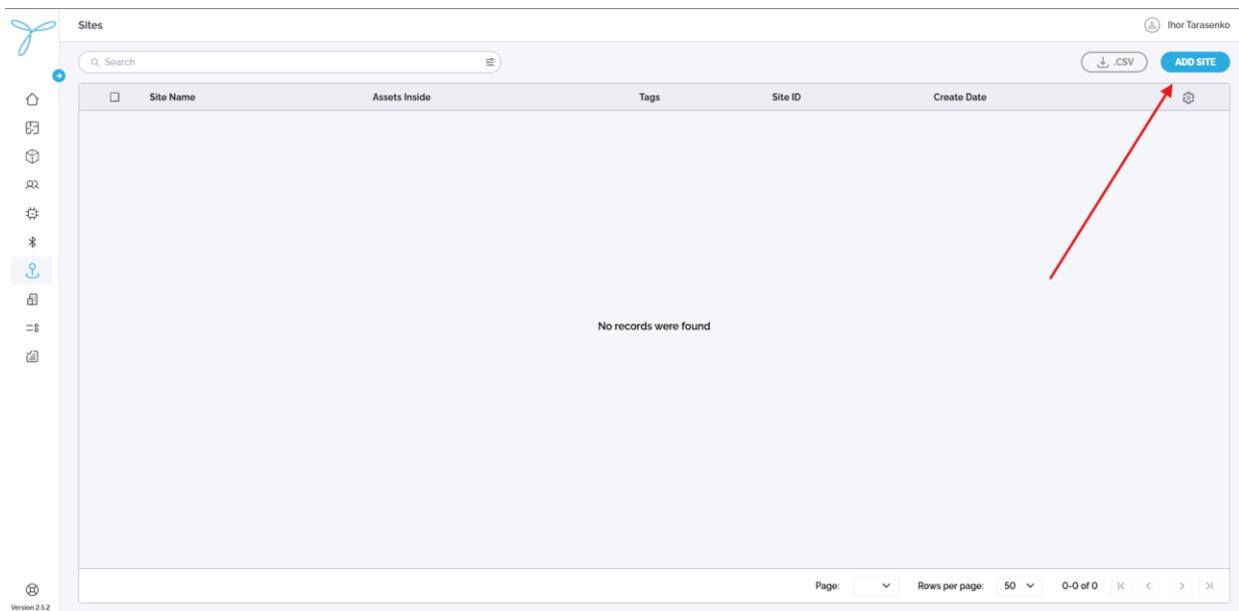
Before You Start

Ensure you have:

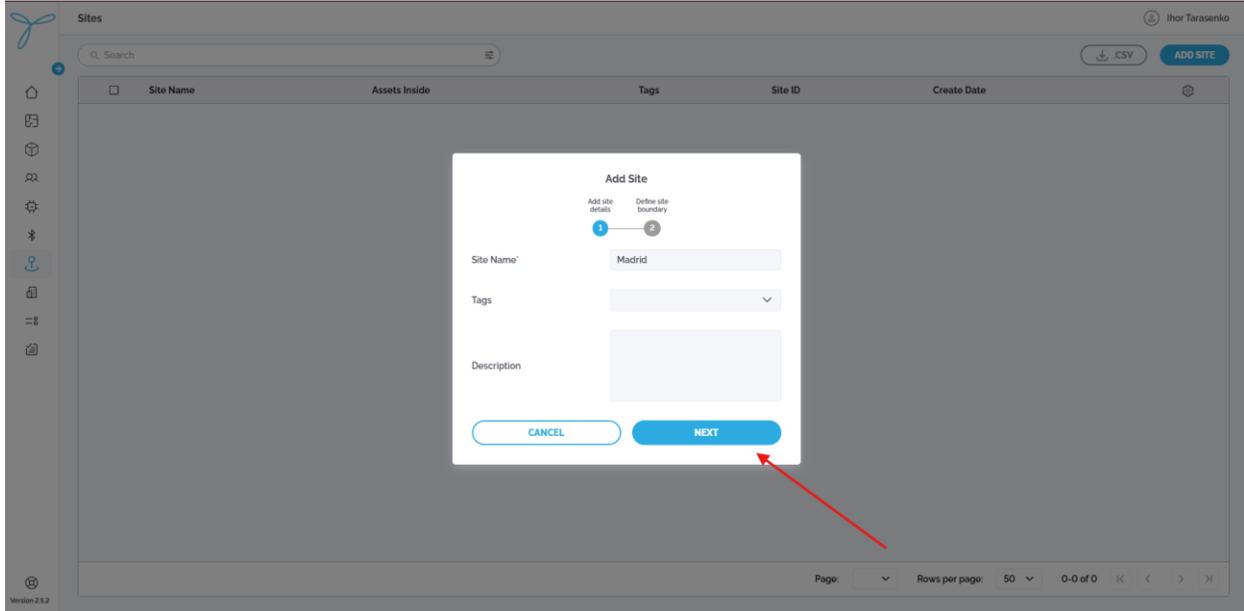
- A list of sites with coordinates provided by the customer. See the [Getting Started with Locus: Setup Requirements](#) guide for details.

4.2 Add new site

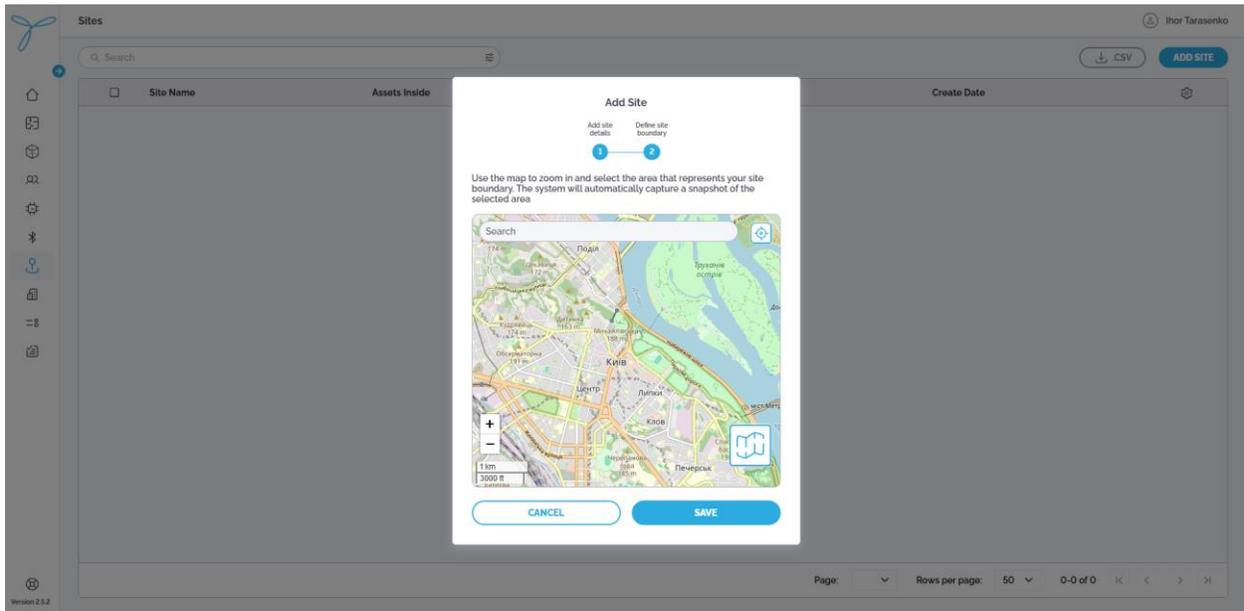
1. Navigate to the **Sites** menu and click **Add Site**:



2. Enter the **Site Name** (e.g., "Madrid"). Other fields can be left blank.



3. Click **Next**, then follow the on-screen instructions to define the site boundary.



For details on editing, deleting, or viewing sites, refer to the [Locus Web App User Documentation](#)

4.3 Buildings

Overview

A Building is a marker on the map and an entity that helps users organize their maps in a hierarchical structure.

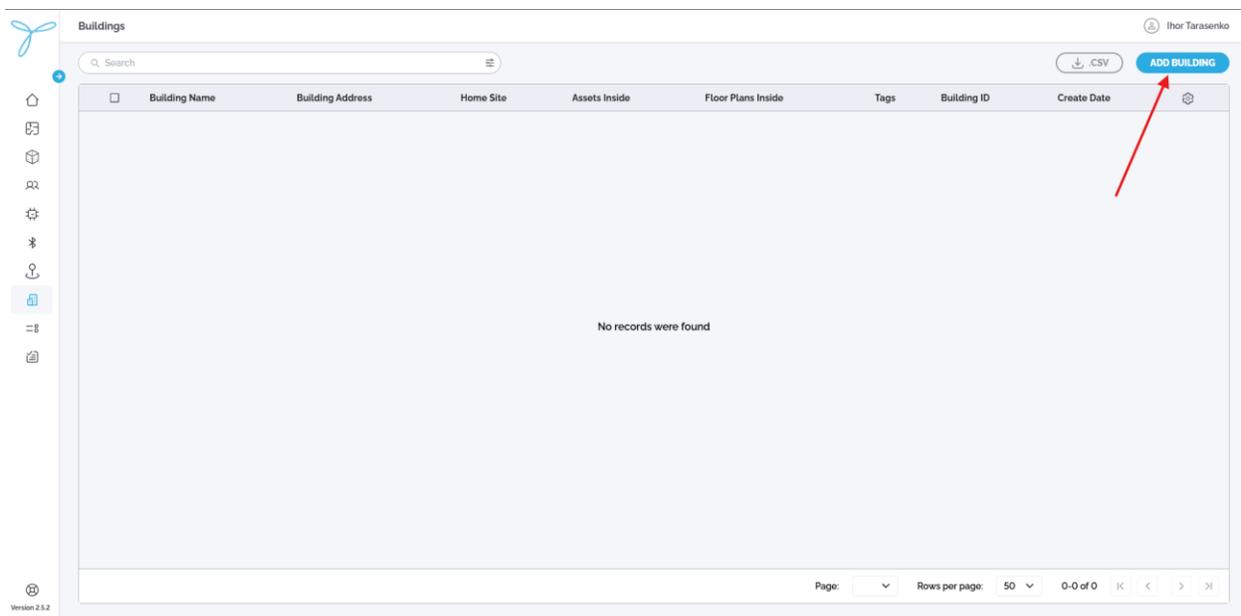
Before You Start

Ensure you have:

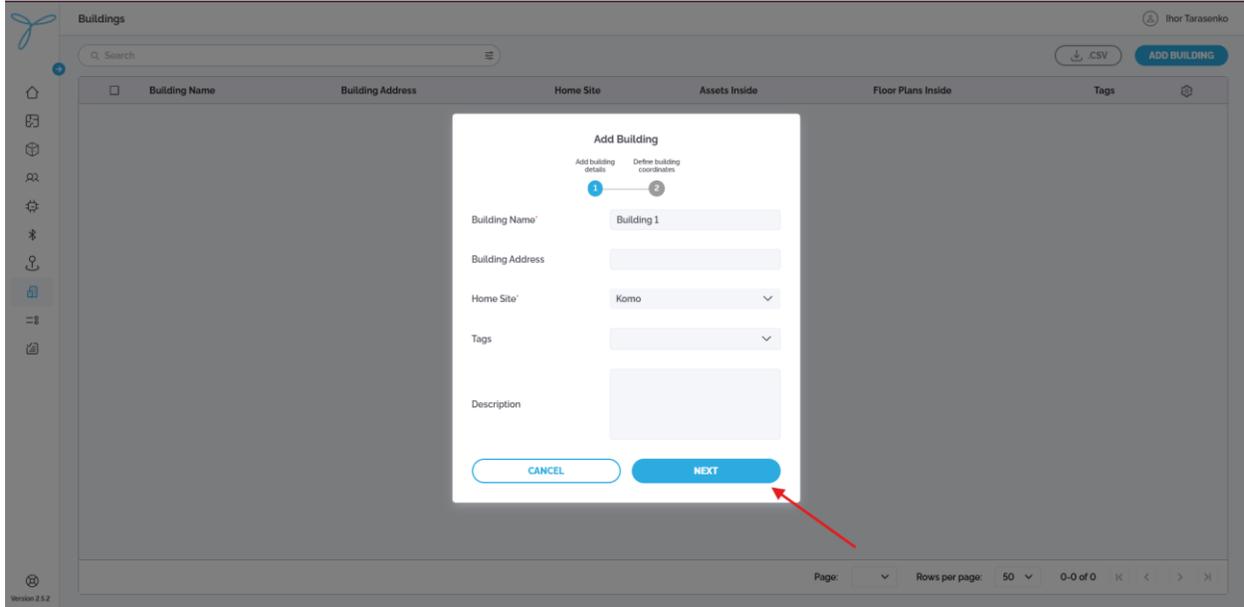
- A list of buildings provided by the customer. See the [Getting Started with Locus: Setup Requirements](#) guide for details.

4.4 Add new building

1. Navigate to the **Building** menu and click **Add Building**:



2. Enter the **Building Name** (e.g., "Building1"). Assign building to an existing **Site**



3. Click **Next**, then follow the on-screen instructions to add building pin

For details on editing, deleting, or viewing buildings, refer to the [Locus Web App User Documentation](#)

4.5 Floor plans

Floor Plans allow users to manage indoor layouts and required to track assets indoor.

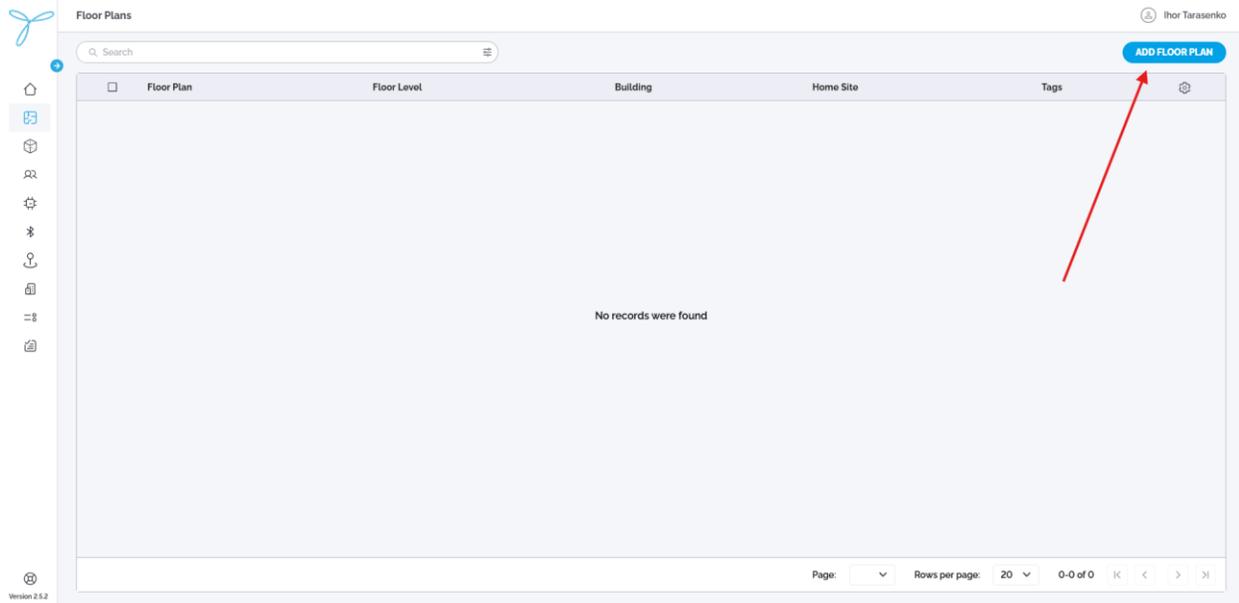
Before You Start

Ensure you have:

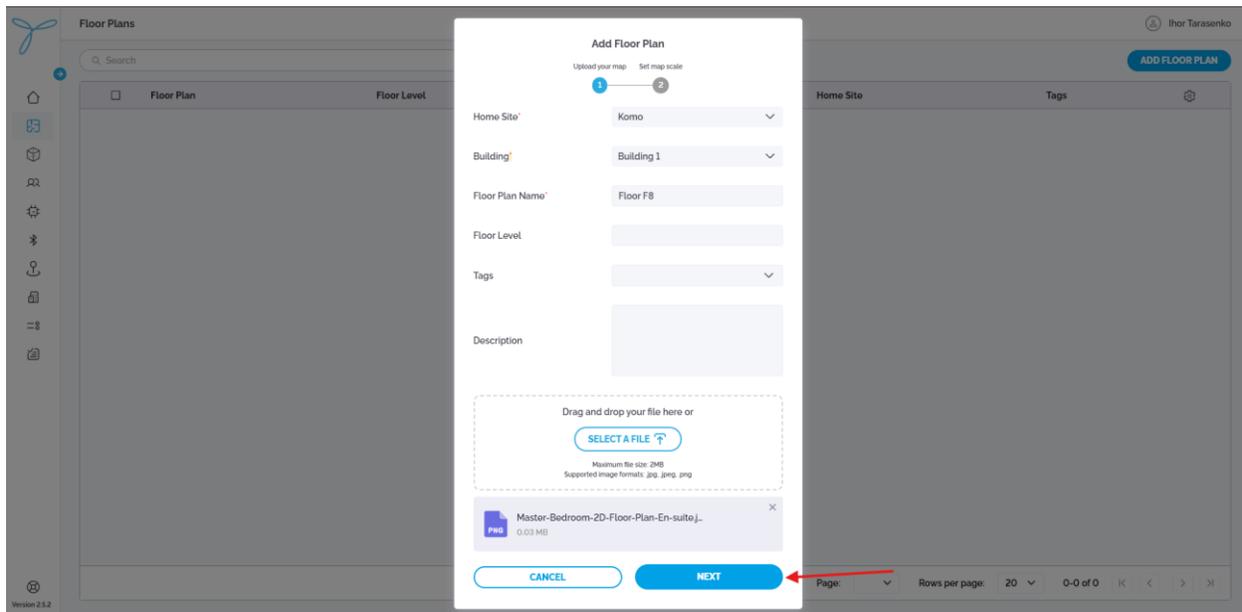
- A list of floor plans with images and dimensions provided by the customer. See the [Getting Started with Locus: Setup Requirements](#) guide for details.

4.6 Add new Floor plan

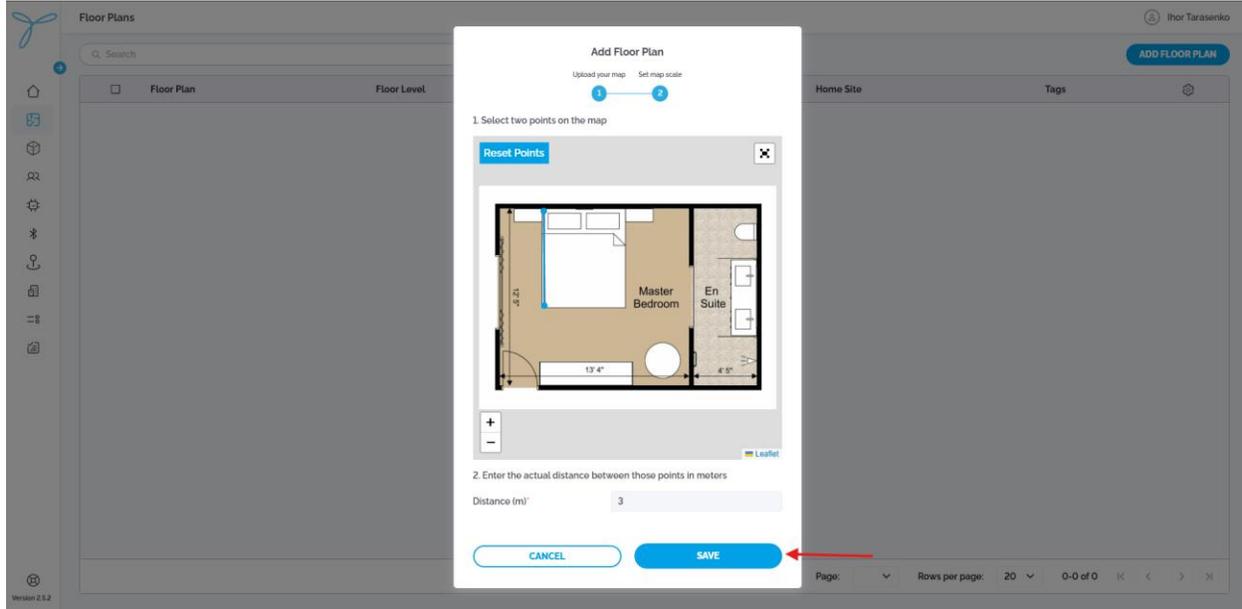
1. Navigate to the **Building** menu and click **Add Floor plan**:



2. Select **Site** for the **Floor plan**.
Select **Building** for the **Floor plan**.
Enter the **Floor Plan Name** (e.g., "Floor F8").
Assign a picture to the **Floor plan**.



3. Click **Next**, then follow the on-screen instructions to define the **Floor plan** dimensions.



For details on editing, deleting, or viewing floor plans, refer to the [Locus Web App User Documentation](#)

4.7 Devices

Overview

The Devices page lets you manage and monitor TEKTELIC trackers. Stork and Chickadee devices requires Semtech LoRa Cloud connection. To manage it, you need to use API. **To receive GNSS functionality for these devices, contact Kyiv RnD team (or contact Kyiv RnD team ([Artem Starchenko](#) or [Oleksii Rassykhin](#)))**

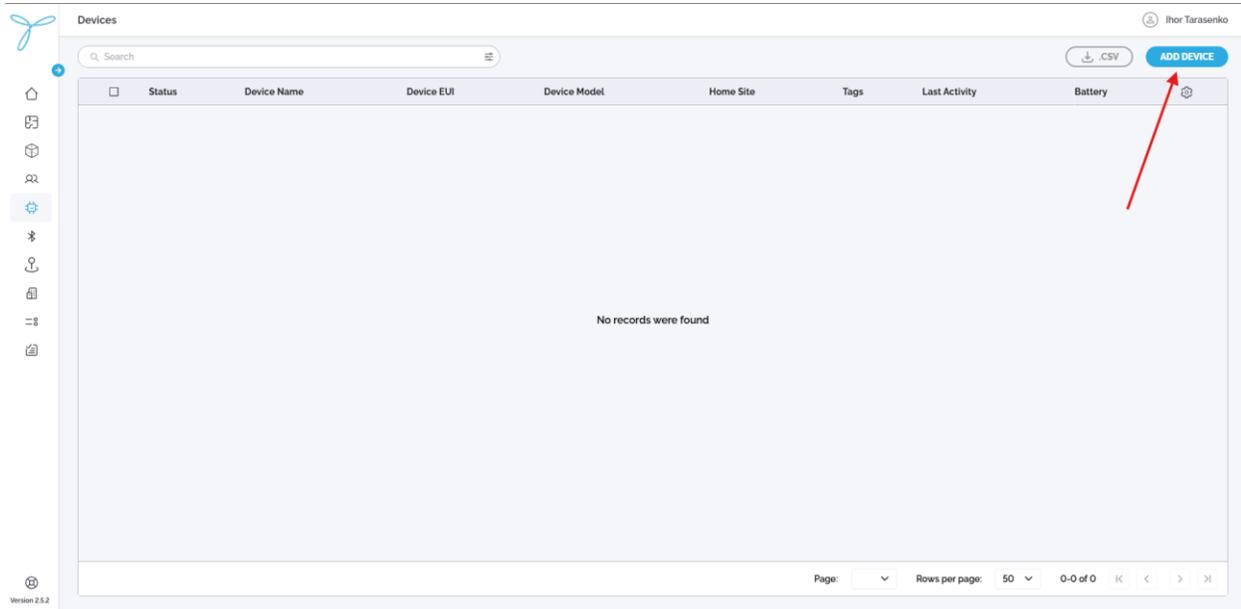
Before You Start

Ensure you have:

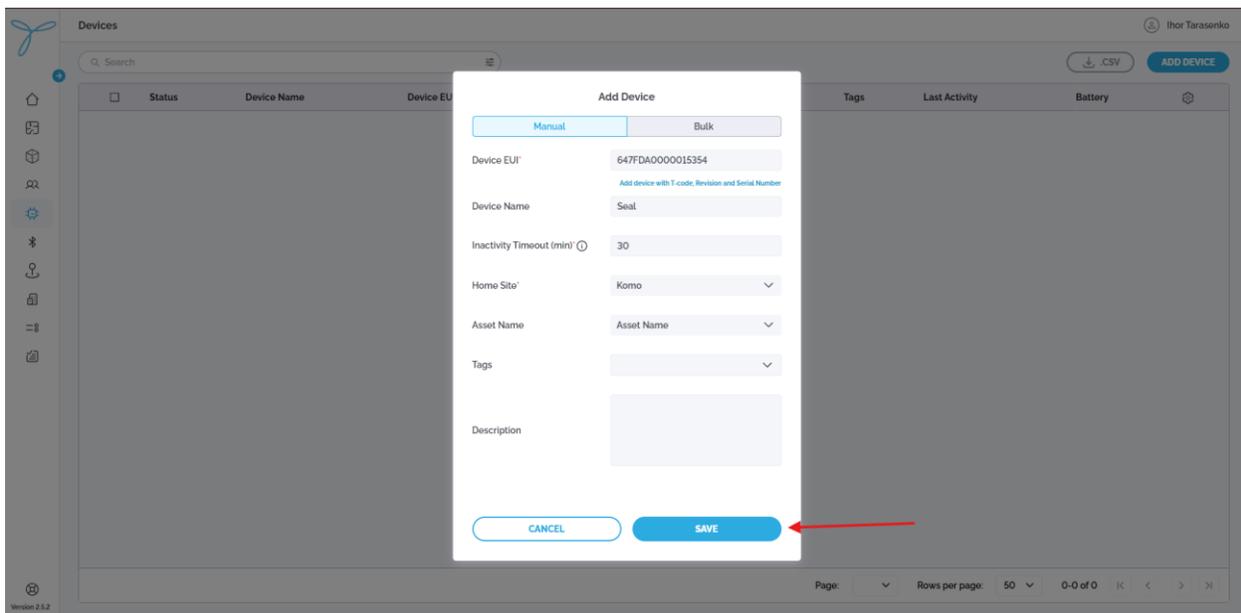
- A list of devices provided by the customer. See the [Getting Started with Locus: Setup Requirements](#) guide for details.
- For bulk import, CSV file filled with customers devices.

4.8 Add new device via DevEUI

1. Navigate to **Devices** menu and click **Add device**

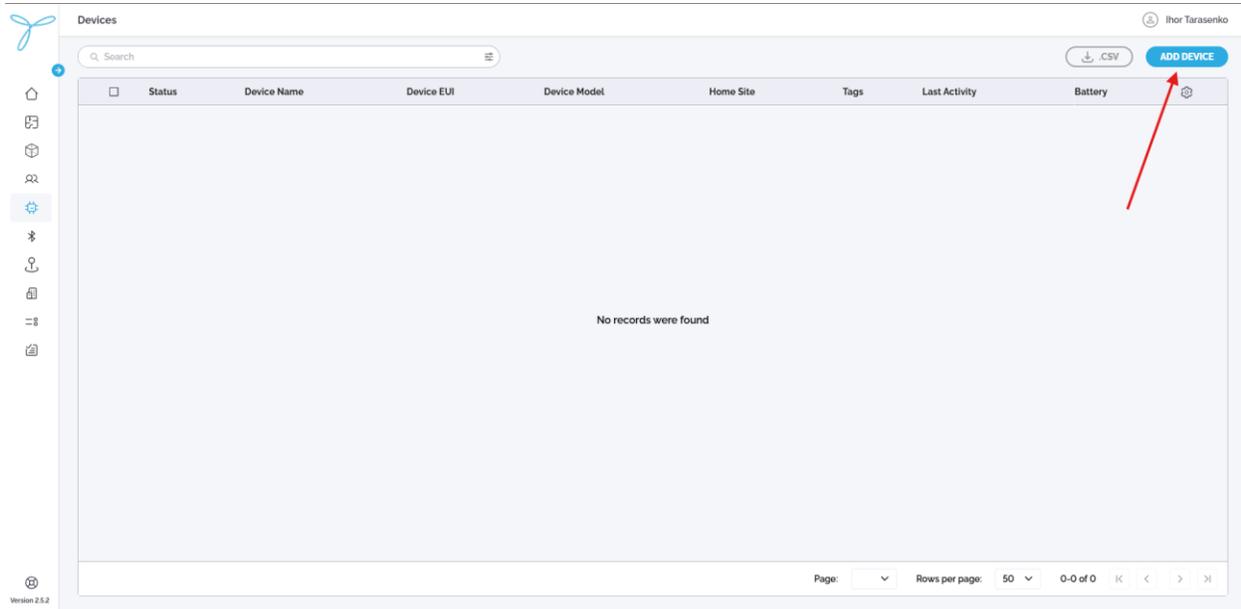


2. Enter **DevEUI** of the device. Enter **Inactivity timeout** for device. Assign **Device** to the existing **Site**. Other fields can leave blank. Click “Save”

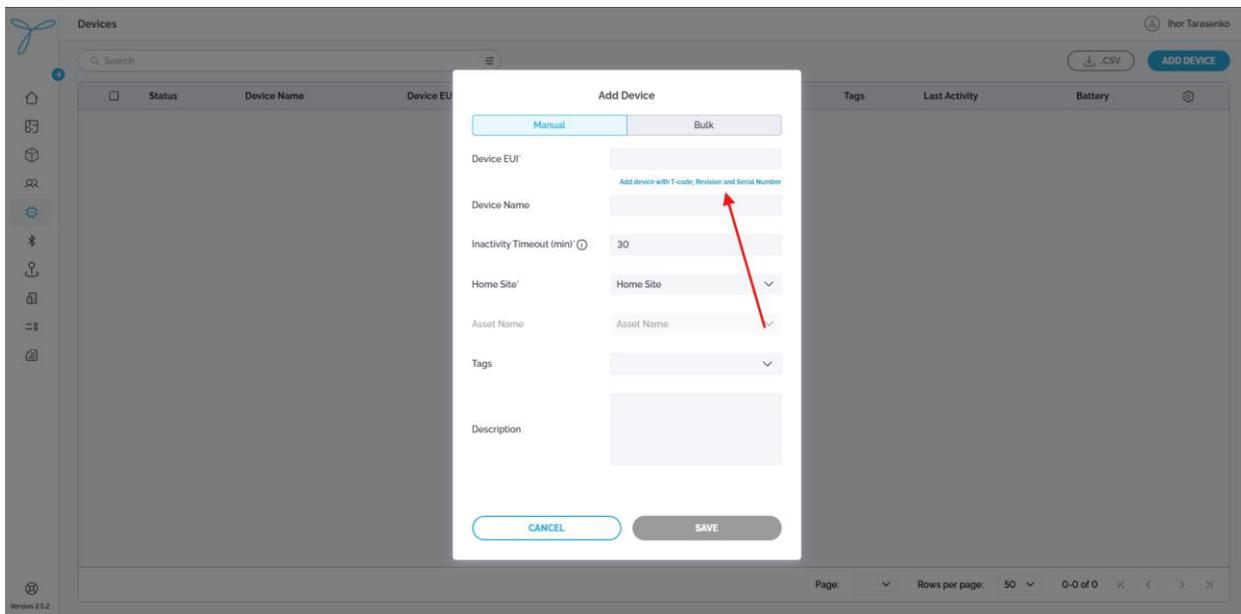


4.9 Add new device via T-code/Revision/Serial number

1. Navigate to **Devices** menu and click **Add device**.



2. Click on “**Add device with T-code, Revision and Serial number**” button.



3. Enter **T-code, Revision and Serial number**, click “Next”.

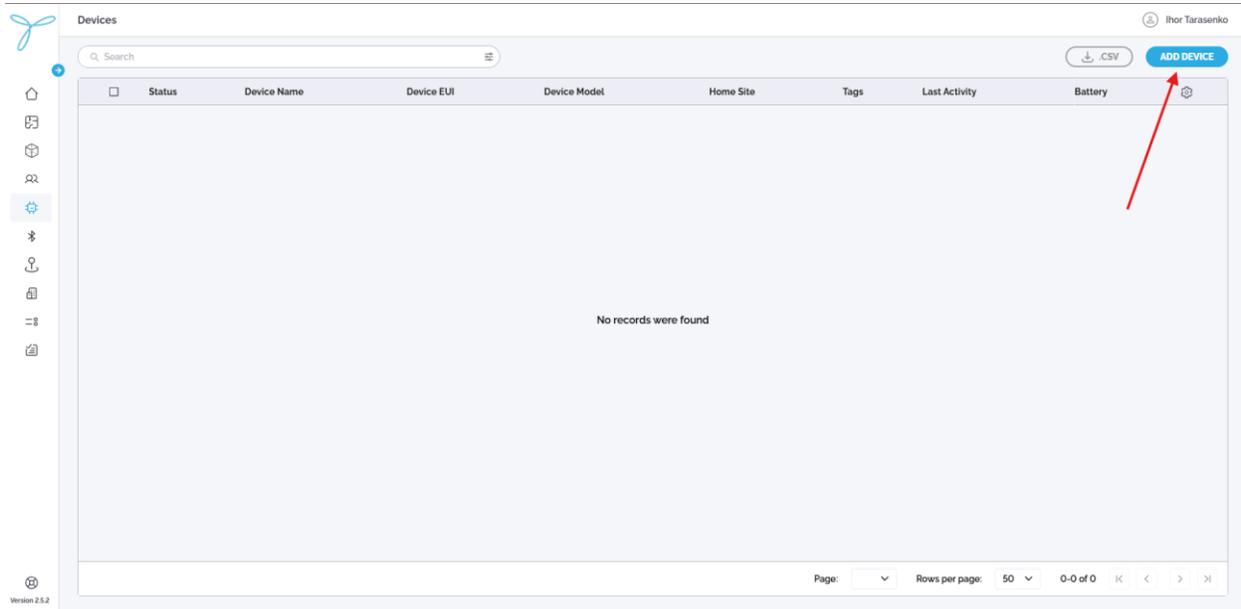
The screenshot shows the 'Add Device' dialog box in the 'Devices' application. The dialog has two tabs: 'Manual' (selected) and 'Bulk'. Below the tabs, there is a small instruction: 'Find the T-code (e.g. T0000000), Revision (Rev. e.g. A1), and Serial number (e.g. 0000A0000) on device label (bottom) or packaging'. The form contains three input fields: 'T-code' with the value 'T0000000', 'Revision' with the value 'A', and 'Serial Number' with the value '0000A0000'. Below these fields is a link that says 'Add device with Device EUI'. At the bottom of the dialog are two buttons: 'CANCEL' and 'NEXT'. A red arrow points to the 'NEXT' button. The background shows a table with columns for 'Status', 'Device Name', and 'Device EU'. The top right of the application shows a user profile 'Ihor Tarasenko' and an 'ADD DEVICE' button. The bottom right shows pagination information: 'Page: Rows per page: 50 0-0 of 0'.

4. Enter **Inactivity timeout** for device. Assign **Device** to the existing **Site**. Other fields can leave blank. Click “Save”.

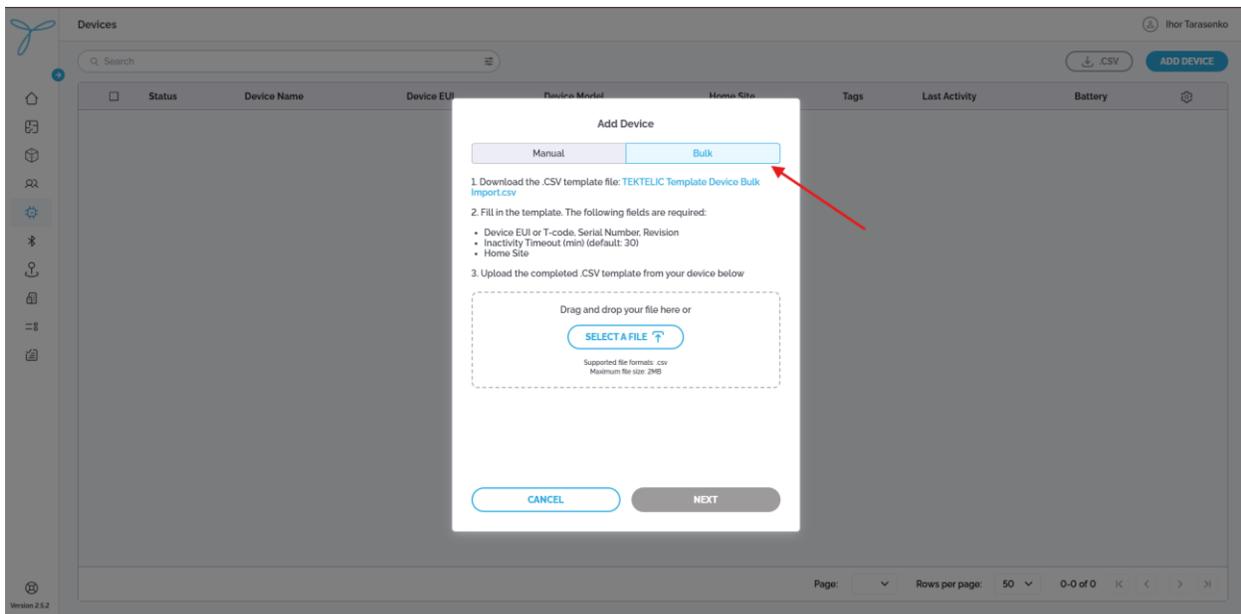
The screenshot shows the 'Add Device' dialog box in the 'Devices' application. The dialog has two tabs: 'Manual' (selected) and 'Bulk'. Below the tabs, there is a link that says 'Add device with T-code, Revision and Serial Number'. The form contains several input fields: 'Device EUI' with the value '647FDA000015354', 'Device Name' with the value 'Seal', 'Inactivity Timeout (min)' with the value '30', 'Home Site' with a dropdown menu showing 'Komo', 'Asset Name' with a dropdown menu showing 'Asset Name', and 'Tags' with a dropdown menu. There is also a 'Description' field which is currently empty. At the bottom of the dialog are two buttons: 'CANCEL' and 'SAVE'. A red arrow points to the 'SAVE' button. The background shows the same table as in the previous screenshot. The top right of the application shows a user profile 'Ihor Tarasenko' and an 'ADD DEVICE' button. The bottom right shows pagination information: 'Page: Rows per page: 50 0-0 of 0'.

4.10 Add new device via Bulk

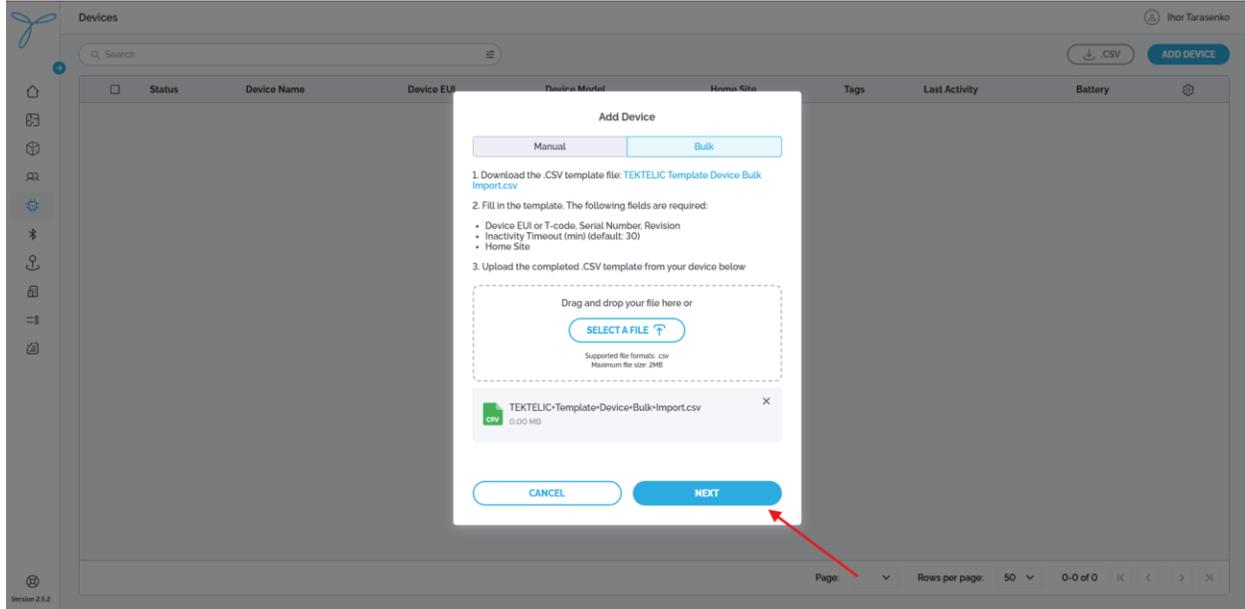
1. Navigate to **Devices** menu and click “Add device”.



2. Select “Bulk”



3. Import CSV file from the customer. Click on “Next”



For details on editing, deleting, CSV export or viewing devices, refer to the [Locus Web App User Documentation](#)

4.11 Assets

Overview

The Assets page lets you manage and monitor tracked items across sites, including their types, locations, and device associations.

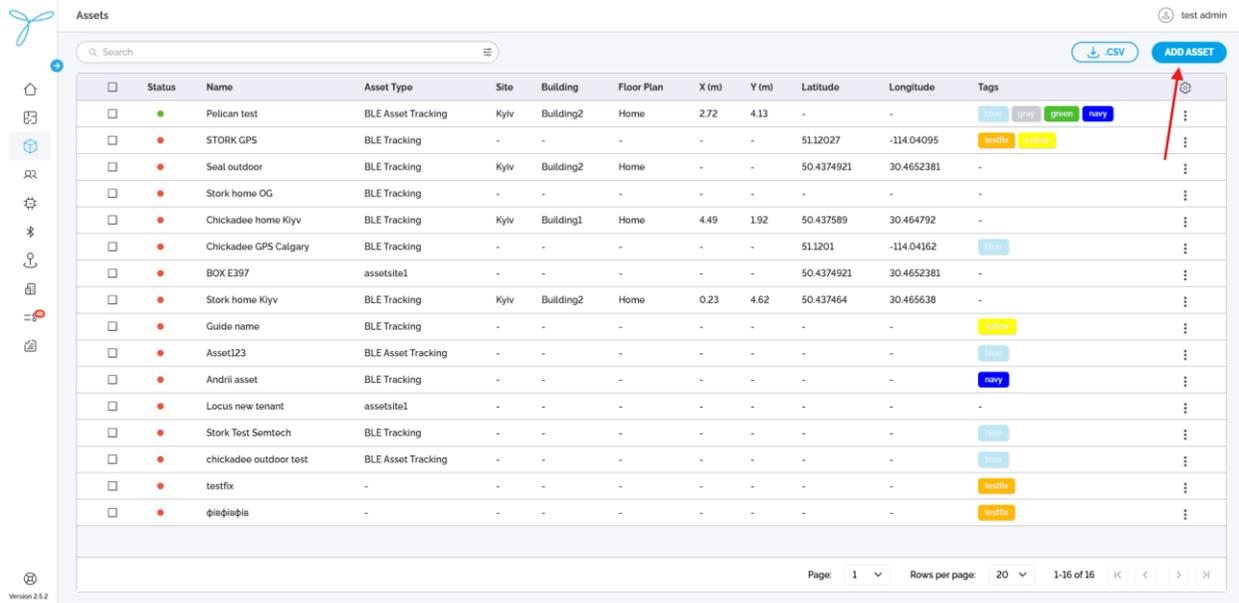
Before You Start

Ensure you have:

- A list of assets provided by the customer. See the [Getting Started with Locus: Setup Requirements](#) guide for details.
- For bulk import, CSV file filled with customers assets.

4.12 Add new asset

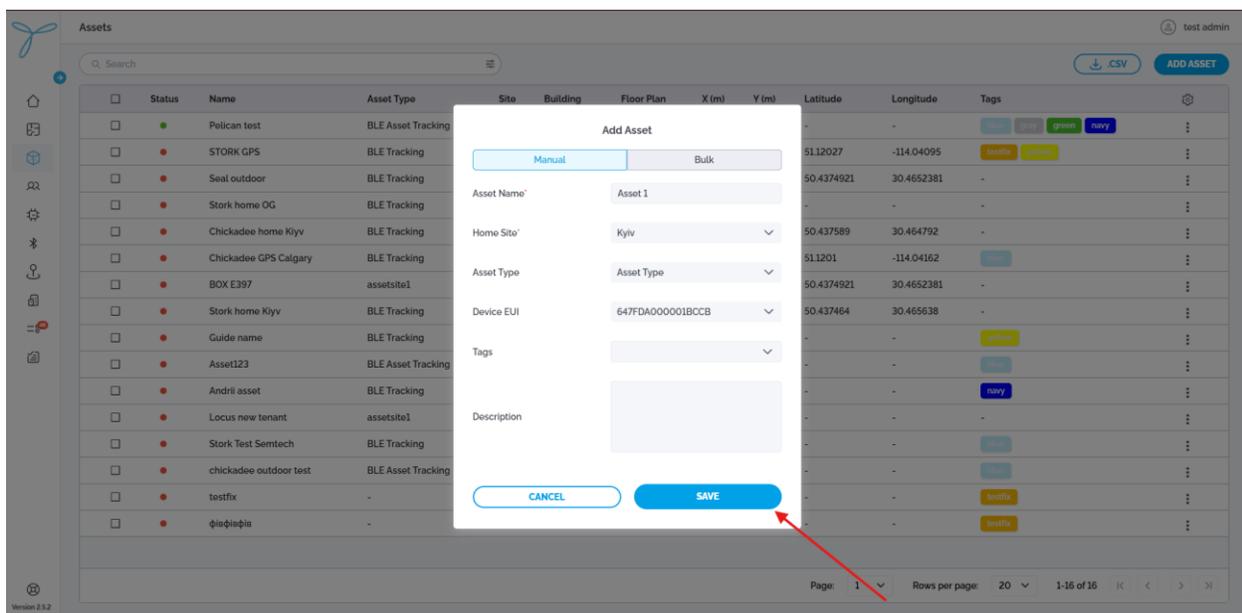
1. Navigate to **Assets** menu and click **“Add asset”**.



The screenshot shows the 'Assets' management interface. At the top right, there is a search bar, a 'CSV' download button, and a blue 'ADD ASSET' button with a gear icon, which is highlighted by a red arrow. Below the header is a table with columns: Status, Name, Asset Type, Site, Building, Floor Plan, X (m), Y (m), Latitude, Longitude, and Tags. The table contains 16 rows of asset data. At the bottom right, there are pagination controls: Page 1, Rows per page: 20, and 1-16 of 16.

Status	Name	Asset Type	Site	Building	Floor Plan	X (m)	Y (m)	Latitude	Longitude	Tags
●	Pelican test	BLE Asset Tracking	Kyiv	Building2	Home	2.72	4.13	-	-	blue, grey, green, navy
●	STORK GPS	BLE Tracking	-	-	-	-	-	51.12027	-114.04095	testfix, yellow
●	Seal outdoor	BLE Tracking	Kyiv	Building2	Home	-	-	50.4374921	30.4652381	-
●	Stork home OG	BLE Tracking	-	-	-	-	-	-	-	-
●	Chickadee home Kyiv	BLE Tracking	Kyiv	Building1	Home	4.49	1.92	50.437589	30.464792	-
●	Chickadee GPS Calgary	BLE Tracking	-	-	-	-	-	51.1201	-114.04162	blue
●	BOX E397	assetsite1	-	-	-	-	-	50.4374921	30.4652381	-
●	Stork home Kyiv	BLE Tracking	Kyiv	Building2	Home	0.23	4.62	50.437464	30.465638	-
●	Guide name	BLE Tracking	-	-	-	-	-	-	-	yellow
●	Asset123	BLE Asset Tracking	-	-	-	-	-	-	-	blue
●	Andrii asset	BLE Tracking	-	-	-	-	-	-	-	navy
●	Locus new tenant	assetsite1	-	-	-	-	-	-	-	-
●	Stork Test Semtech	BLE Tracking	-	-	-	-	-	-	-	blue
●	chickadee outdoor test	BLE Asset Tracking	-	-	-	-	-	-	-	blue
●	testfix	-	-	-	-	-	-	-	-	testfix
●	φiηφiηφiη	-	-	-	-	-	-	-	-	testfix

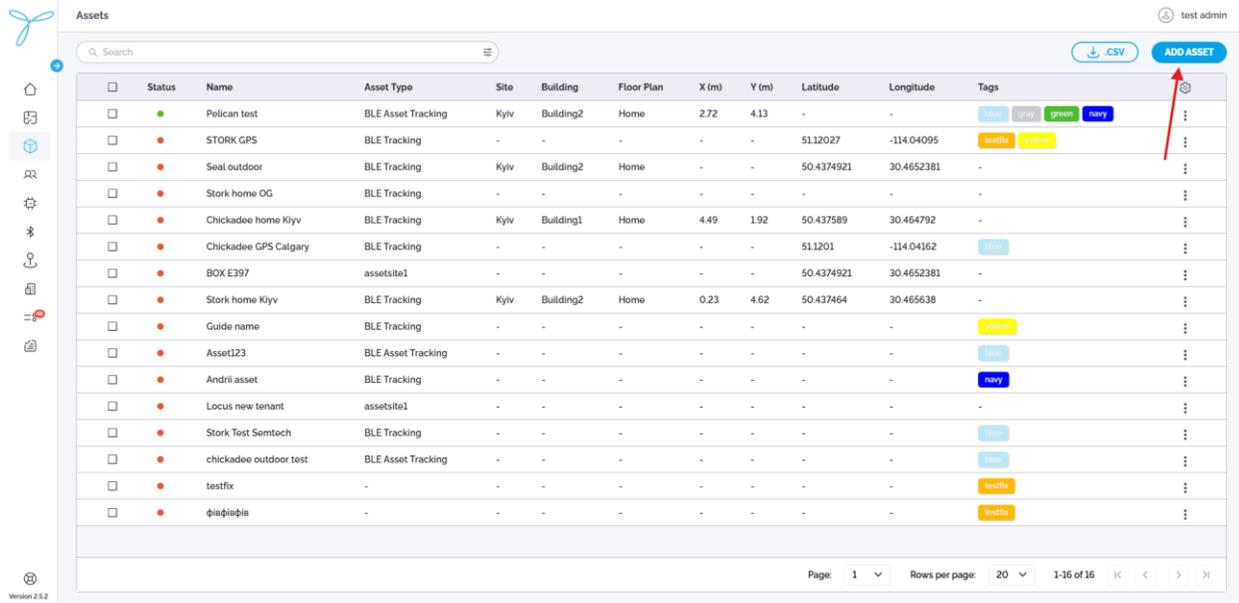
2. Enter asset name. Assign asset to an existing Site. Select DevEUI of existing Device to bound asset (optional). Click on **“Save”** button



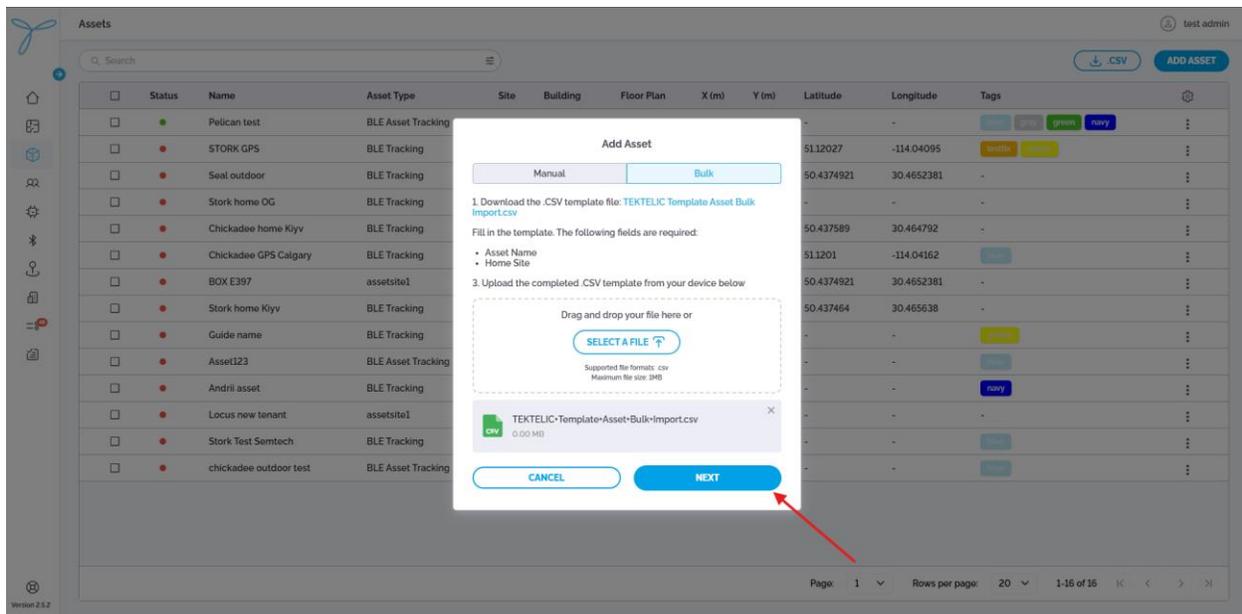
The screenshot shows the 'Add Asset' dialog box overlaid on the Assets table. The dialog has two tabs: 'Manual' (selected) and 'Bulk'. It contains the following fields: 'Asset Name' (text input with 'Asset 1'), 'Home Site' (dropdown menu with 'Kyiv'), 'Asset Type' (dropdown menu with 'Asset Type'), 'Device EUI' (dropdown menu with '647FDA00001BCCB'), 'Tags' (dropdown menu), and 'Description' (text area). At the bottom of the dialog are 'CANCEL' and 'SAVE' buttons. A red arrow points to the 'SAVE' button. The background shows the same Assets table as in the previous screenshot.

4.13 Add new asset via Bulk

1. Navigate to **Assets** menu and click “Add asset”.



2. Import customer's CSV file. Click on “Next” button



For details on editing, deleting, CSV export or viewing assets, refer to the [Locus Web App User Documentation](#)

4.14 Beacons

Overview

The Beacons page lets you manage and monitor beacons for indoor positioning and asset tracking.

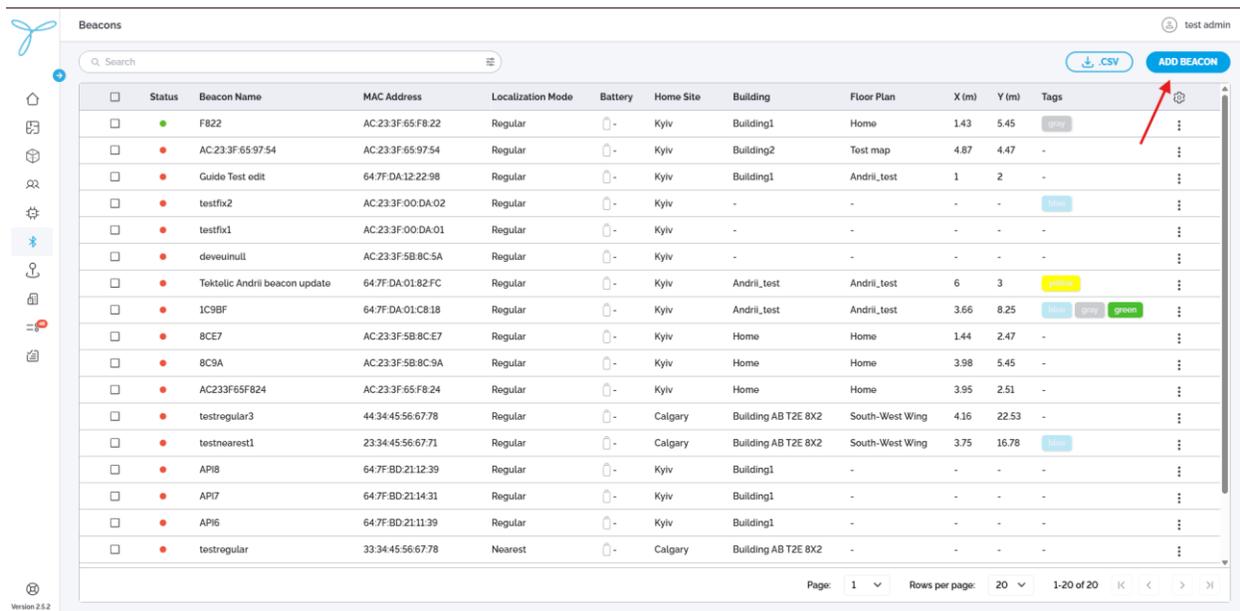
Before You Start

Ensure you have:

- A list of beacons provided by the customer. See the [Getting Started with Locus: Setup Requirements](#) guide for details.
- For bulk import, CSV file filled with customers beacons.
- **Contact Kyiv RnD team (or contact Kyiv RnD team ([Artem Starchenko](#) or [Oleksii Rassykhin](#)))** to create a “beacon model” (only for non-TEKTELIC beacons)

4.15 Add new beacon (TEKTELIC)

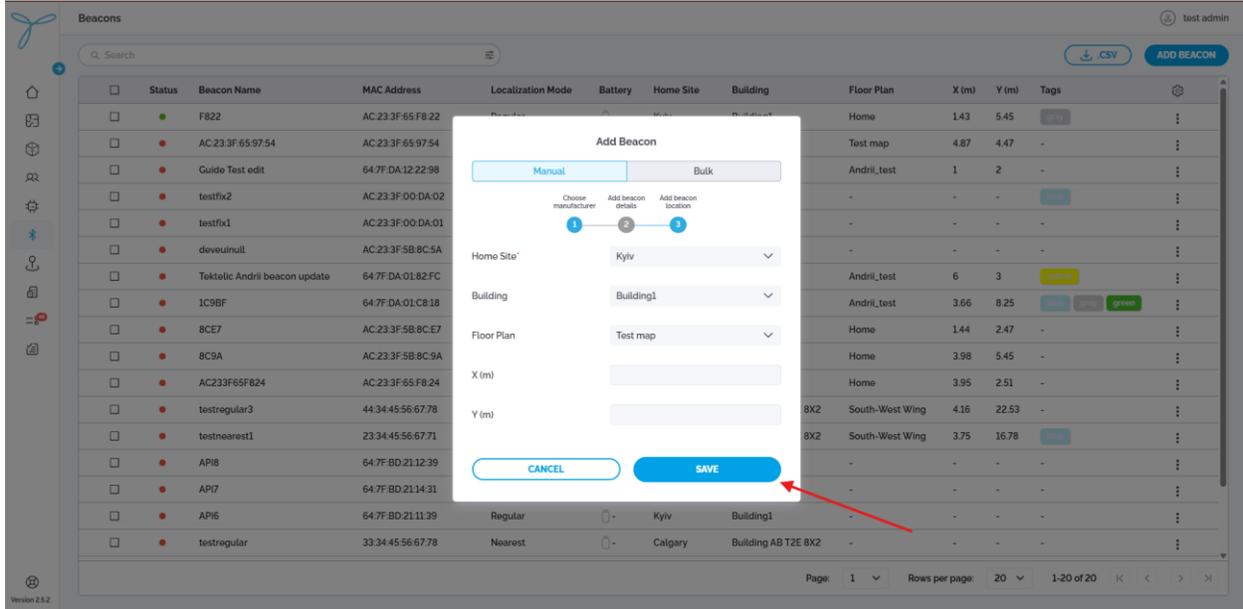
1. Navigate to **Beacons** menu and click “Add beacon”.



The screenshot displays the 'Beacons' management page. At the top right, there is a search bar, a 'Download CSV' button, and an 'ADD BEACON' button with a gear icon. A red arrow points to the 'ADD BEACON' button. Below the buttons is a table with the following columns: Status, Beacon Name, MAC Address, Localization Mode, Battery, Home Site, Building, Floor Plan, X (m), Y (m), Tags, and a vertical ellipsis for actions. The table contains 20 rows of beacon data. At the bottom, there is a pagination control showing 'Page: 1', 'Rows per page: 20', and '1-20 of 20'.

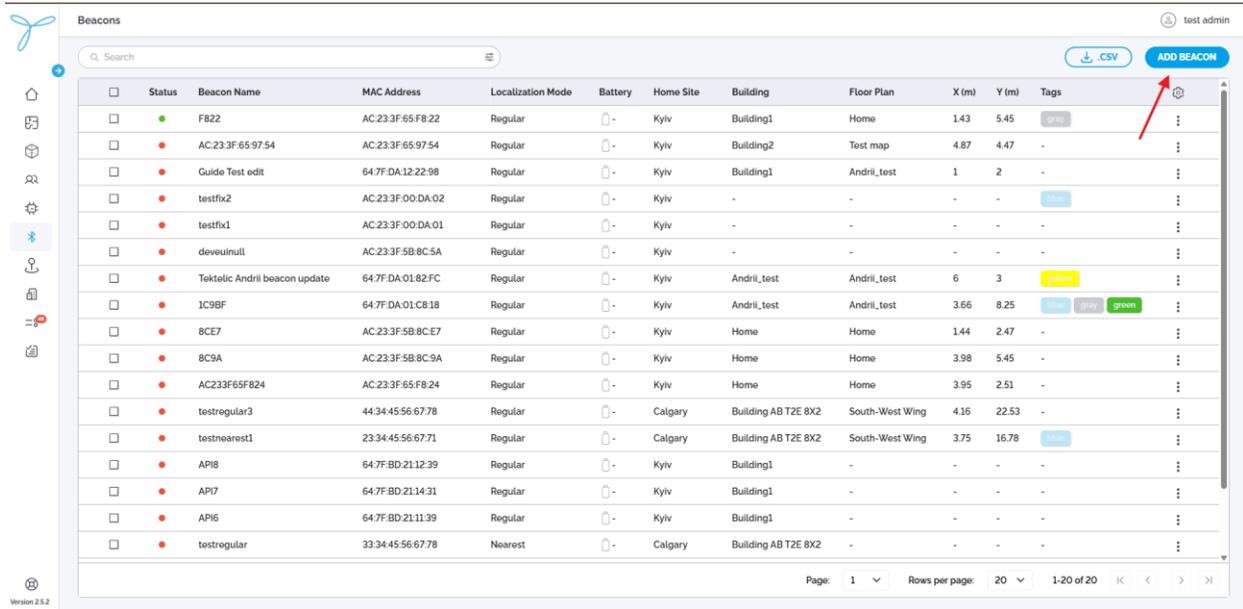
Status	Beacon Name	MAC Address	Localization Mode	Battery	Home Site	Building	Floor Plan	X (m)	Y (m)	Tags	
<input type="checkbox"/>	F822	AC:23:3F:65:F8:22	Regular	<input type="checkbox"/>	Kyiv	Building1	Home	1.43	5.45	grey	⋮
<input type="checkbox"/>	AC:23:3F:65:97:54	AC:23:3F:65:97:54	Regular	<input type="checkbox"/>	Kyiv	Building2	Test map	4.87	4.47	-	⋮
<input type="checkbox"/>	Guido Test edit	64:7F:DA:12:22:98	Regular	<input type="checkbox"/>	Kyiv	Building1	Andrii_test	1	2	-	⋮
<input type="checkbox"/>	testfix2	AC:23:3F:00:DA:02	Regular	<input type="checkbox"/>	Kyiv	-	-	-	-	blue	⋮
<input type="checkbox"/>	testfix1	AC:23:3F:00:DA:01	Regular	<input type="checkbox"/>	Kyiv	-	-	-	-	-	⋮
<input type="checkbox"/>	deveunull	AC:23:3F:5B:8C:5A	Regular	<input type="checkbox"/>	Kyiv	-	-	-	-	-	⋮
<input type="checkbox"/>	Tektelic Andrii beacon update	64:7F:DA:01:82:FC	Regular	<input type="checkbox"/>	Kyiv	Andrii_test	Andrii_test	6	3	yellow	⋮
<input type="checkbox"/>	1C9BF	64:7F:DA:01:C8:18	Regular	<input type="checkbox"/>	Kyiv	Andrii_test	Andrii_test	3.66	8.25	blue grey green	⋮
<input type="checkbox"/>	RCE7	AC:23:3F:5B:8C:E7	Regular	<input type="checkbox"/>	Kyiv	Home	Home	1.44	2.47	-	⋮
<input type="checkbox"/>	8C9A	AC:23:3F:5B:8C:9A	Regular	<input type="checkbox"/>	Kyiv	Home	Home	3.98	5.45	-	⋮
<input type="checkbox"/>	AC233F65F824	AC:23:3F:65:F8:24	Regular	<input type="checkbox"/>	Kyiv	Home	Home	3.95	2.51	-	⋮
<input type="checkbox"/>	testregular3	44:34:45:56:67:78	Regular	<input type="checkbox"/>	Calgary	Building AB T2E 8X2	South-West Wing	4.16	22.53	-	⋮
<input type="checkbox"/>	testnearest1	23:34:45:56:67:71	Regular	<input type="checkbox"/>	Calgary	Building AB T2E 8X2	South-West Wing	3.75	16.78	blue	⋮
<input type="checkbox"/>	API8	64:7F:BD:21:12:39	Regular	<input type="checkbox"/>	Kyiv	Building1	-	-	-	-	⋮
<input type="checkbox"/>	API7	64:7F:BD:21:14:31	Regular	<input type="checkbox"/>	Kyiv	Building1	-	-	-	-	⋮
<input type="checkbox"/>	API6	64:7F:BD:21:11:39	Regular	<input type="checkbox"/>	Kyiv	Building1	-	-	-	-	⋮
<input type="checkbox"/>	testregular	33:34:45:56:67:78	Nearest	<input type="checkbox"/>	Calgary	Building AB T2E 8X2	-	-	-	-	⋮

4. Select “Home Site”. Select “Building”. Select “Floor plan”. Click “Save”



4.16 Add new beacon (Other)

1. Navigate to **Beacons** menu and click “Add beacon”.



2. Select “Other” as manufacturer. Click on “Next” button

The screenshot shows the 'Add Beacon' dialog box with the 'Manual' tab selected. The progress indicator shows three steps: 'Choose manufacturer' (1), 'Add beacon details' (2), and 'Add beacon location' (3). The 'Other' manufacturer option is selected. A red arrow points to the 'NEXT' button.

Status	Beacon Name	MAC Address
<input type="checkbox"/>	F822	AC:23:3F:65:F8:22
<input type="checkbox"/>	AC:23:3F:65:97:54	AC:23:3F:65:97:54
<input type="checkbox"/>	Guide Test edit	64:7F:DA:12:22:98
<input type="checkbox"/>	testfix2	AC:23:3F:00:DA:02
<input type="checkbox"/>	testfix1	AC:23:3F:00:DA:01
<input type="checkbox"/>	deveuinull	AC:23:3F:5B:8C:5A
<input type="checkbox"/>	Tektelic Andrii beacon update	64:7F:DA:01:82:FC
<input type="checkbox"/>	1C9BF	64:7F:DA:01:C8:18
<input type="checkbox"/>	8CE7	AC:23:3F:5B:8C:E7
<input type="checkbox"/>	8C9A	AC:23:3F:5B:8C:9A
<input type="checkbox"/>	AC233F65F824	AC:23:3F:65:F8:24
<input type="checkbox"/>	testregular3	44:34:45:56:67:78
<input type="checkbox"/>	testnearest1	23:34:45:56:67:71
<input type="checkbox"/>	API8	64:7F:BD:21:12:39
<input type="checkbox"/>	API7	64:7F:BD:21:14:31
<input type="checkbox"/>	API6	64:7F:BD:21:11:39
<input type="checkbox"/>	testregular	33:34:45:56:67:78

Floor Plan	X (m)	Y (m)	Tags
Home	1.43	5.45	
Test map	4.87	4.47	
Andrii_test	1	2	
-	-	-	
-	-	-	
-	-	-	
Andrii_test	6	3	yellow
Andrii_test	3.66	8.25	blue, green
Home	1.44	2.47	
Home	3.98	5.45	
Home	3.95	2.51	
8X2 South-West Wing	4.16	22.53	
8X2 South-West Wing	3.75	16.78	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
8X2	-	-	

3. Select “Beacon model”. Enter “MAC address”. Enter “Name”. Select “Localization mode”. Enter discovery timeout. Click on “Next” button.

The screenshot shows the 'Add Beacon' dialog box with the 'Manual' tab selected. The progress indicator shows three steps: 'Choose manufacturer' (1), 'Add beacon details' (2), and 'Add beacon location' (3). The 'Beacon Model' is set to 'Beacon', 'MAC Address' is 'AC:23:3F:65:F8:24', 'Beacon Name' is 'Beacon', 'Localization Mode' is 'Regular', and 'Discovery Timeout (min)' is '120'. A red arrow points to the 'NEXT' button.

Status	Beacon Name	MAC Address
<input type="checkbox"/>	F822	AC:23:3F:65:F8:22
<input type="checkbox"/>	AC:23:3F:65:97:54	AC:23:3F:65:97:54
<input type="checkbox"/>	Guide Test edit	64:7F:DA:12:22:98
<input type="checkbox"/>	testfix2	AC:23:3F:00:DA:02
<input type="checkbox"/>	testfix1	AC:23:3F:00:DA:01
<input type="checkbox"/>	deveuinull	AC:23:3F:5B:8C:5A
<input type="checkbox"/>	Tektelic Andrii beacon update	64:7F:DA:01:82:FC
<input type="checkbox"/>	1C9BF	64:7F:DA:01:C8:18
<input type="checkbox"/>	8CE7	AC:23:3F:5B:8C:E7
<input type="checkbox"/>	8C9A	AC:23:3F:5B:8C:9A
<input type="checkbox"/>	AC233F65F824	AC:23:3F:65:F8:24
<input type="checkbox"/>	testregular3	44:34:45:56:67:78
<input type="checkbox"/>	testnearest1	23:34:45:56:67:71
<input type="checkbox"/>	API8	64:7F:BD:21:12:39
<input type="checkbox"/>	API7	64:7F:BD:21:14:31
<input type="checkbox"/>	API6	64:7F:BD:21:11:39
<input type="checkbox"/>	testregular	33:34:45:56:67:78

Floor Plan	X (m)	Y (m)	Tags
Home	1.43	5.45	
Test map	4.87	4.47	
Andrii_test	1	2	
-	-	-	
-	-	-	
-	-	-	
Andrii_test	6	3	yellow
Andrii_test	3.66	8.25	blue, green
Home	1.44	2.47	
Home	3.98	5.45	
Home	3.95	2.51	
8X2 South-West Wing	4.16	22.53	
8X2 South-West Wing	3.75	16.78	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
8X2	-	-	

4. Select “Home Site”. Select “Building”. Select “Floor plan”. Click “Save”

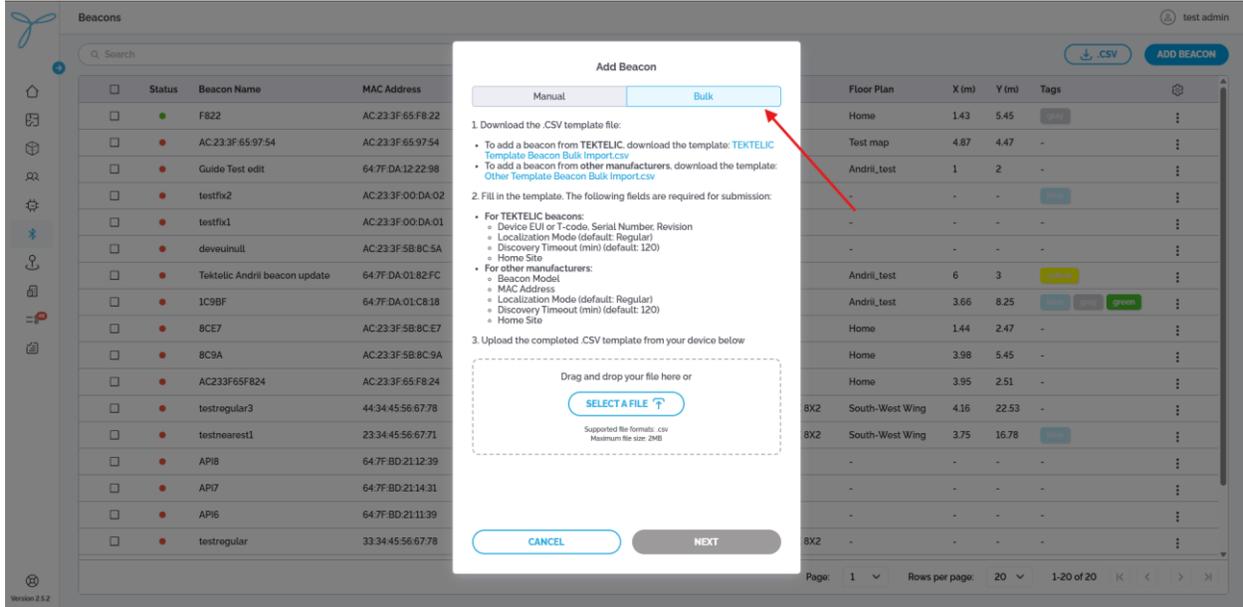
The screenshot shows the 'Beacons' application interface. A modal window titled 'Add Beacon' is open, allowing for manual or bulk addition of beacons. The 'Manual' tab is selected. The form includes a progress indicator with three steps: 'Choose manufacturer', 'Add beacon details', and 'Add beacon location'. The 'Home Site' dropdown is set to 'Kyiv', 'Building' to 'Building1', and 'Floor Plan' to 'Test map'. There are 'X (m)' and 'Y (m)' input fields. At the bottom of the modal are 'CANCEL' and 'SAVE' buttons. A red arrow points to the 'SAVE' button. The background table shows columns for Status, Beacon Name, MAC Address, Localization Mode, Battery, Home Site, Building, Floor Plan, X (m), Y (m), and Tags.

4.17 Add new beacons via Bulk

1. Navigate to **Beacons** menu and click “Add beacon”.

The screenshot shows the 'Beacons' application interface. The main table of beacon data is visible. The 'ADD BEACON' button is highlighted with a red arrow. The table has columns for Status, Beacon Name, MAC Address, Localization Mode, Battery, Home Site, Building, Floor Plan, X (m), Y (m), and Tags. The 'ADD BEACON' button is located in the top right corner of the table area.

2. Select “Bulk”



The screenshot shows the 'Add Beacon' dialog box with the 'Bulk' tab selected. A red arrow points to the 'Bulk' tab. The dialog contains the following instructions:

- Download the .CSV template file:
 - To add a beacon from TEKTELIC, download the template: [TEKTELIC Template Beacon Bulk Import.csv](#)
 - To add a beacon from other manufacturers, download the template: [Other Template Beacon Bulk Import.csv](#)
- Fill in the template. The following fields are required for submission:
 - For TEKTELIC beacons:
 - Device EUI or T-code, Serial Number, Revision
 - Localization Mode (default: Regular)
 - Discovery Timeout (min) (default: 120)
 - Home Site
 - For other manufacturers:
 - Beacon Model
 - MAC Address
 - Localization Mode (default: Regular)
 - Discovery Timeout (min) (default: 120)
 - Home Site
- Upload the completed CSV template from your device below

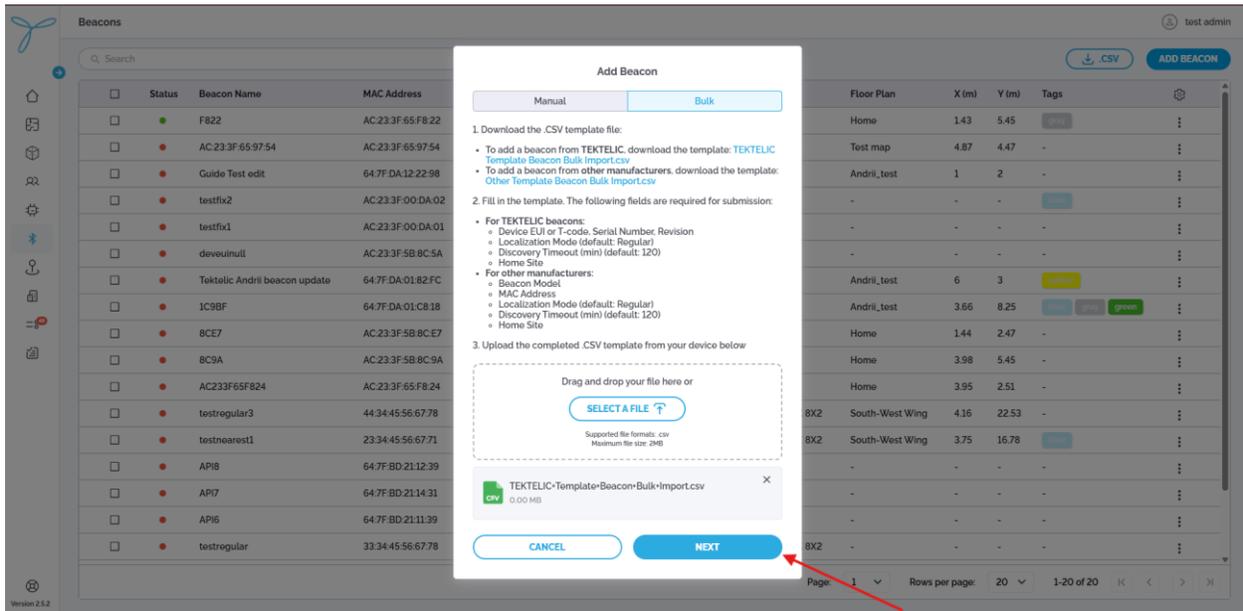
Drag and drop your file here or

[SELECT A FILE](#)

Supported file formats: csv
Maximum file size: 2MB

[CANCEL](#) [NEXT](#)

3. Import customer's CSV file. Click “Next”



The screenshot shows the 'Add Beacon' dialog box with the 'Bulk' tab selected. A red arrow points to the 'NEXT' button. A file selection dialog is open, showing a file named 'TEKTELIC-Template+Beacon-Bulk+Import.csv'.

Drag and drop your file here or

[SELECT A FILE](#)

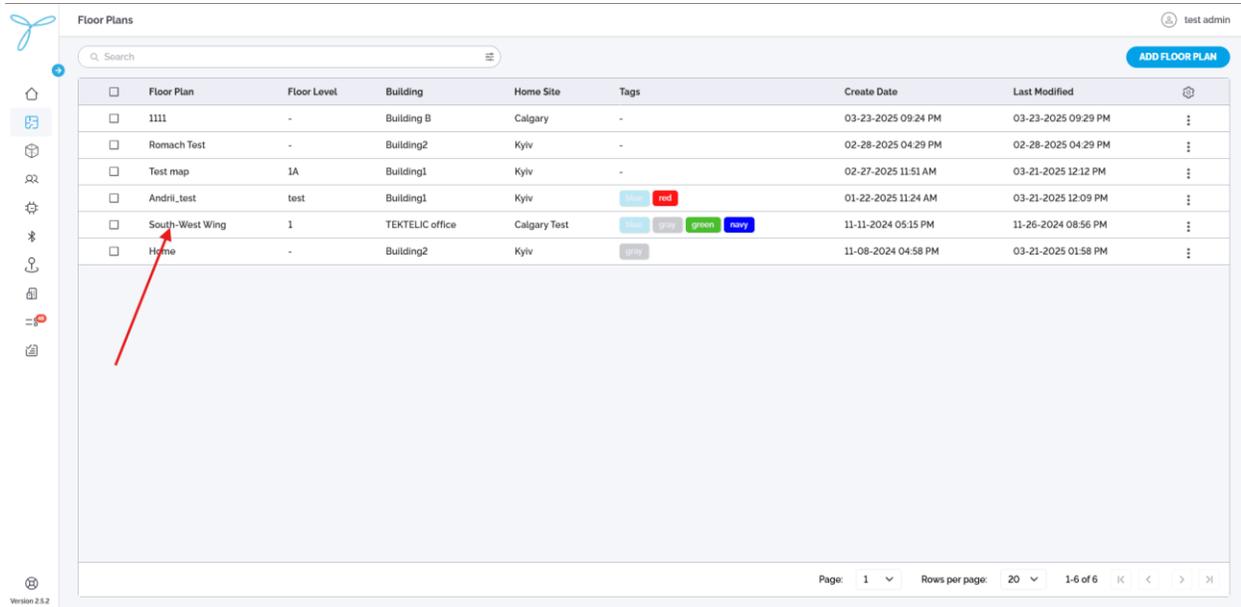
Supported file formats: csv
Maximum file size: 2MB

[CANCEL](#) [NEXT](#)

For details on editing, deleting, CSV export or viewing beacons, refer to the [Locus Web App User Documentation](#)

4.18 Assign Beacon to the floor plan

1. Navigate to **Floor plans** menu and select “**Floor plan**”



Floor Plans

test admin

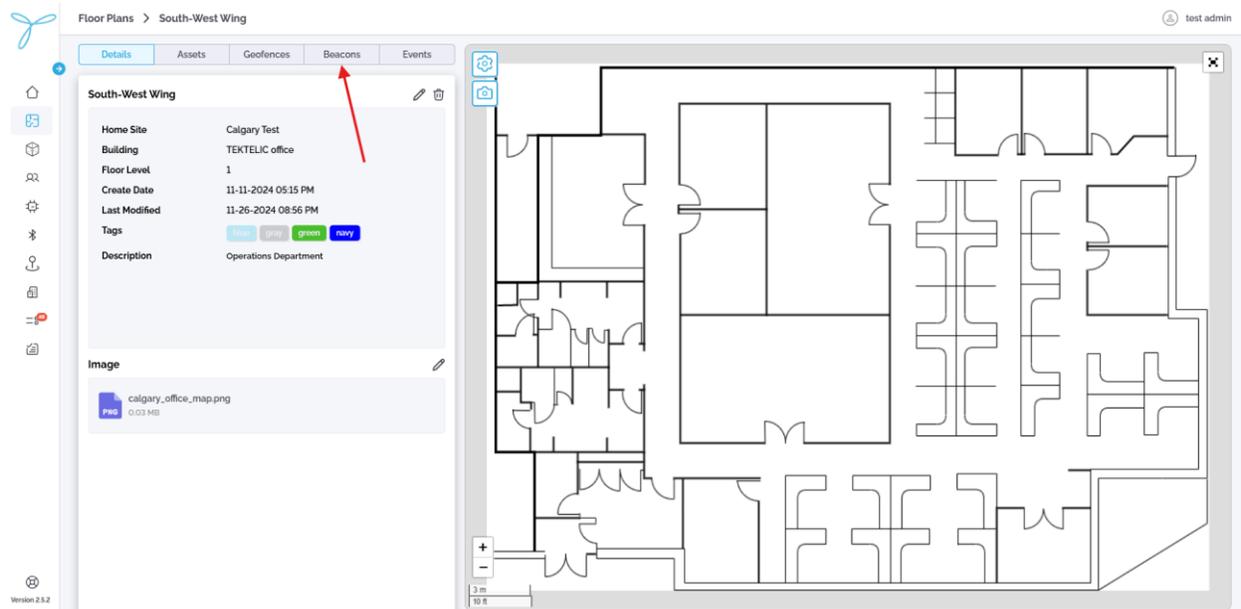
Search

ADD FLOOR PLAN

<input type="checkbox"/>	Floor Plan	Floor Level	Building	Home Site	Tags	Create Date	Last Modified	
<input type="checkbox"/>	1111	-	Building B	Calgary	-	03-23-2025 09:24 PM	03-23-2025 09:29 PM	⋮
<input type="checkbox"/>	Romach Test	-	Building2	Kyiv	-	02-28-2025 04:29 PM	02-28-2025 04:29 PM	⋮
<input type="checkbox"/>	Test map	1A	Building1	Kyiv	-	02-27-2025 11:51 AM	03-21-2025 12:12 PM	⋮
<input type="checkbox"/>	Andrii_test	test	Building1	Kyiv	blue red	01-22-2025 11:24 AM	03-21-2025 12:09 PM	⋮
<input type="checkbox"/>	South-West Wing	1	TEKTELIC office	Calgary Test	blue grey green navy	11-11-2024 05:15 PM	11-26-2024 08:56 PM	⋮
<input type="checkbox"/>	Home	-	Building2	Kyiv	grey	11-08-2024 04:58 PM	03-21-2025 01:58 PM	⋮

Page: 1 Rows per page: 20 1-6 of 6

2. Open “**Beacons**” tab.



Floor Plans > South-West Wing

test admin

Details Assets Geofences **Beacons** Events

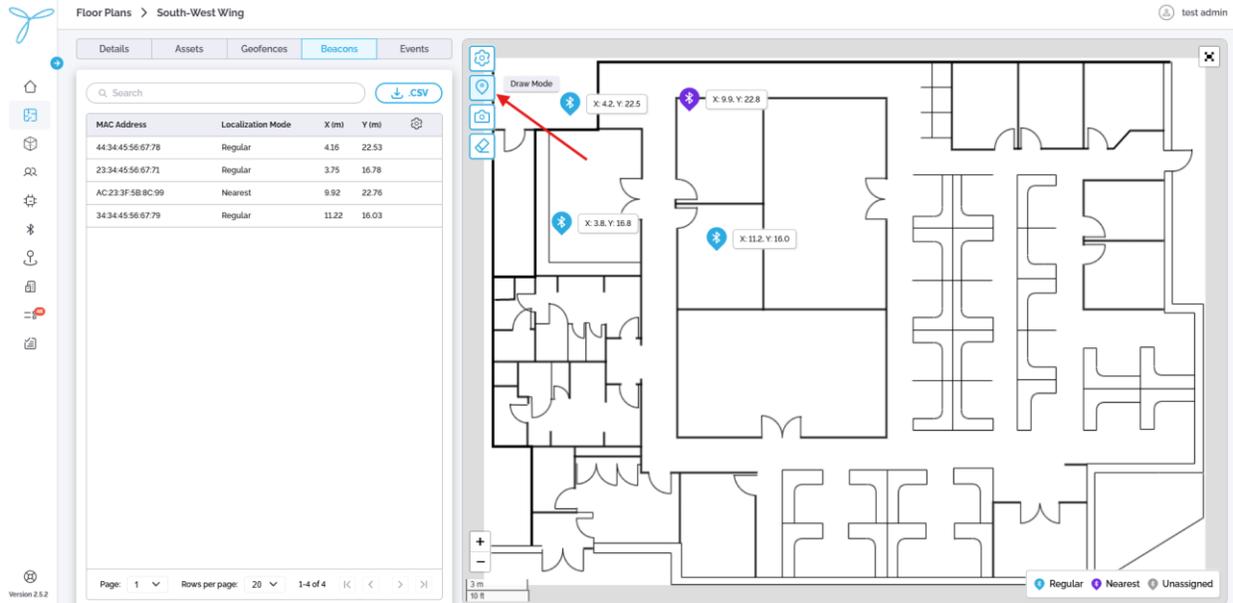
South-West Wing

Home Site: Calgary Test
Building: TEKTELIC office
Floor Level: 1
Create Date: 11-11-2024 05:15 PM
Last Modified: 11-26-2024 08:56 PM
Tags: blue grey green navy
Description: Operations Department

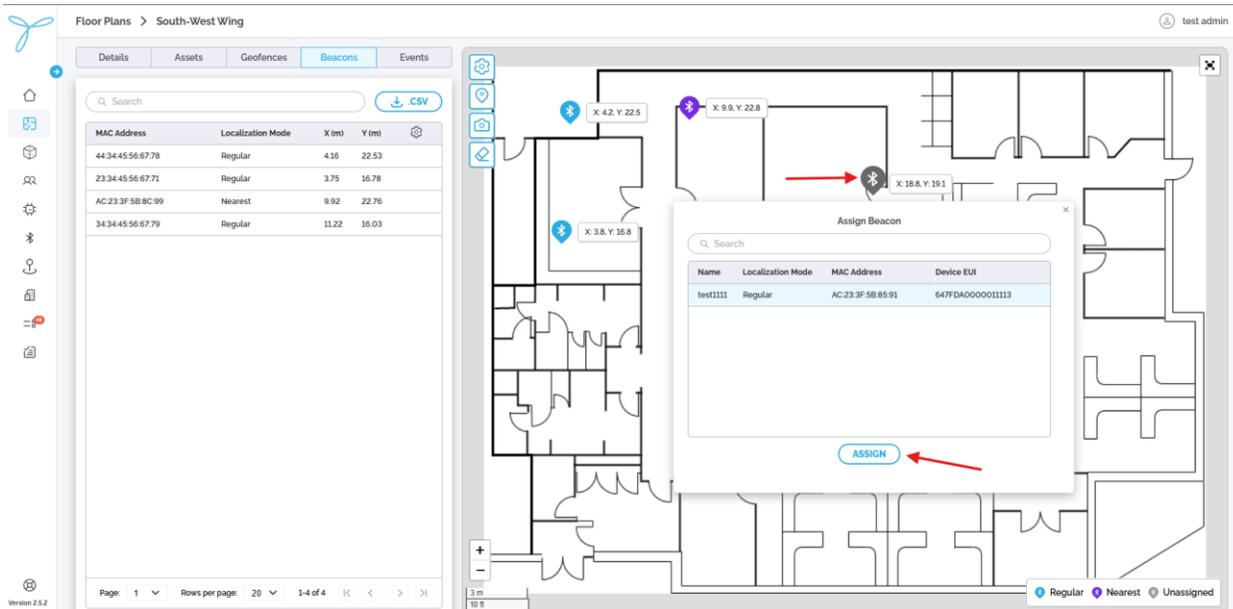
Image: calgary_office_map.png (0.03 MB)

3 m

3. Click on “**Draw mode**” button. Click on the map to assign beacon position. Click on “**Draw mode**”.



4. Click on the beacon's pin. Select beacon from the list. Click on “**Assign**”



4.19 Edit Beacon`s position

1. Navigate to **Floor plans** menu and select **“Floor plan”**

Floor Plans

test admin

Search

ADD FLOOR PLAN

<input type="checkbox"/>	Floor Plan	Floor Level	Building	Home Site	Tags	Create Date	Last Modified	
<input type="checkbox"/>	1111	-	Building B	Calgary	-	03-23-2025 09:24 PM	03-23-2025 09:29 PM	⋮
<input type="checkbox"/>	Romach Test	-	Building2	Kyiv	-	02-28-2025 04:29 PM	02-28-2025 04:29 PM	⋮
<input type="checkbox"/>	Test map	1A	Building1	Kyiv	-	02-27-2025 11:51 AM	03-21-2025 12:12 PM	⋮
<input type="checkbox"/>	Andrii_test	test	Building1	Kyiv	blue red	01-22-2025 11:24 AM	03-21-2025 12:09 PM	⋮
<input type="checkbox"/>	South-West Wing	1	TEKTELIC office	Calgary Test	blue grey green navy	11-11-2024 05:15 PM	11-26-2024 08:56 PM	⋮
<input type="checkbox"/>	Home	-	Building2	Kyiv	grey	11-08-2024 04:58 PM	03-21-2025 01:58 PM	⋮

Page: 1 Rows per page: 20 1-6 of 6

2. Open **“Beacons”** tab.

Floor Plans > South-West Wing

test admin

Details Assets Geofences Beacons Events

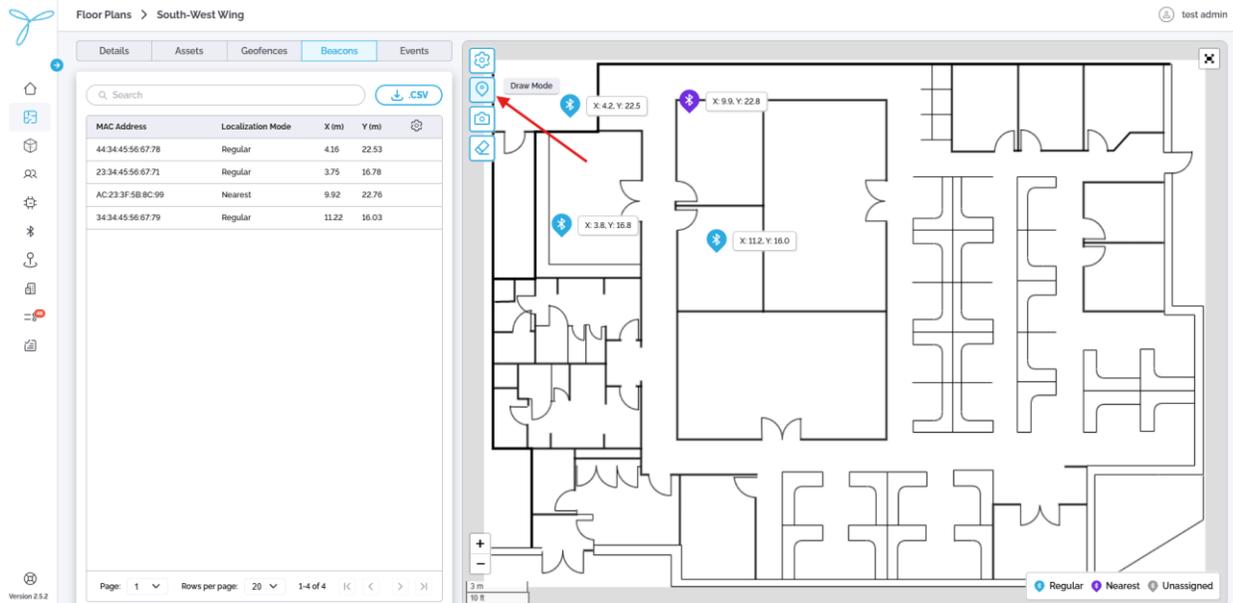
South-West Wing

Home Site: Calgary Test
Building: TEKTELIC office
Floor Level: 1
Create Date: 11-11-2024 05:15 PM
Last Modified: 11-26-2024 08:56 PM
Tags: blue grey green navy
Description: Operations Department

Image: calgary_office_map.png (0.03 MB)

3 m

3. Click on “**Draw mode**”. Hold and “drag” beacon to it’s new position. Click on “**Draw mode**”



For more details on beacons positioning, refer to the [Locus Web App User Documentation](#)

4.20 Geofences (Optional)

Overview

The specific geofence(s) on either the indoor or outdoor map where the asset was located at the time the device generated the report.

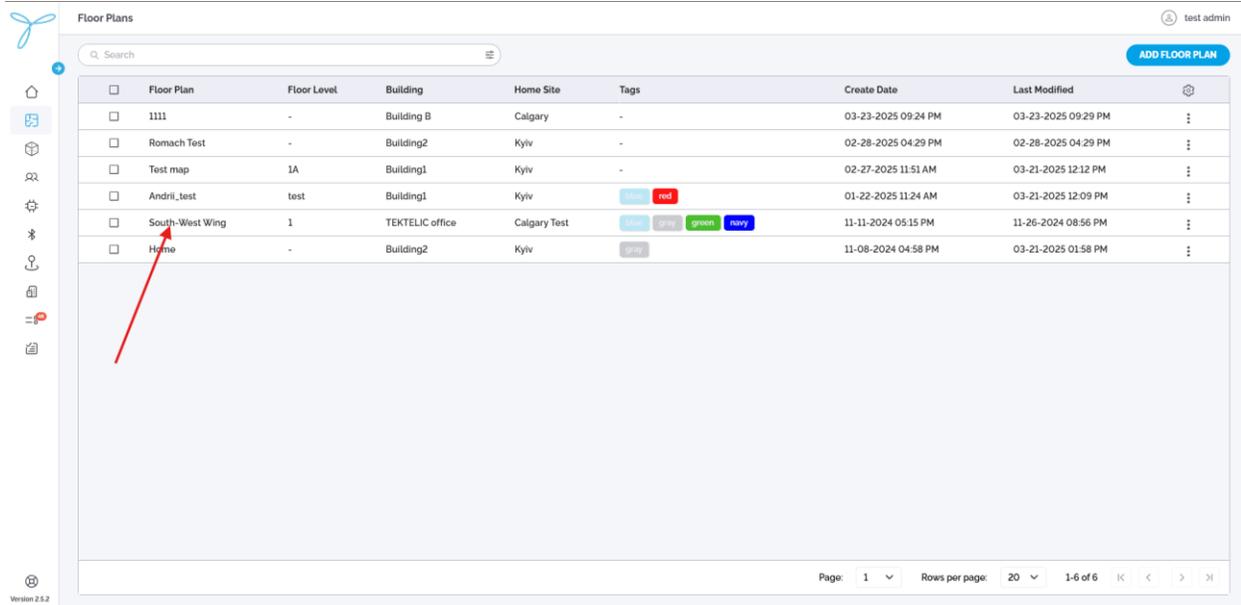
Before You Start

Ensure you have:

- A list of geofences provided by the customer. See the [Getting Started with Locus: Setup Requirements](#) guide for details.

4.21 Add new geofence(indoor)

1. Navigate to **Floor plans** menu and select “**Floor plan**”

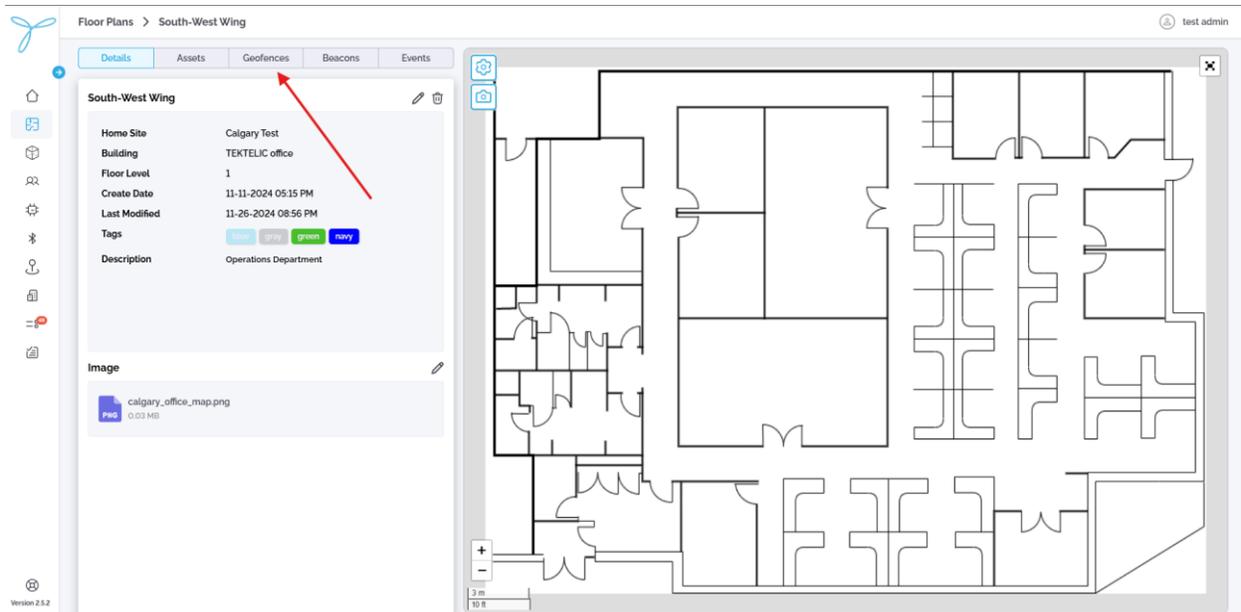


The screenshot shows the 'Floor Plans' management interface. At the top, there is a search bar and an 'ADD FLOOR PLAN' button. Below is a table with the following columns: Floor Plan, Floor Level, Building, Home Site, Tags, Create Date, and Last Modified. A red arrow points to the 'Home' row in the table.

<input type="checkbox"/>	Floor Plan	Floor Level	Building	Home Site	Tags	Create Date	Last Modified	
<input type="checkbox"/>	1111	-	Building B	Calgary	-	03-23-2025 09:24 PM	03-23-2025 09:29 PM	⋮
<input type="checkbox"/>	Romach Test	-	Building2	Kyiv	-	02-28-2025 04:29 PM	02-28-2025 04:29 PM	⋮
<input type="checkbox"/>	Test map	1A	Building1	Kyiv	-	02-27-2025 11:51 AM	03-21-2025 12:12 PM	⋮
<input type="checkbox"/>	Andrii_test	test	Building1	Kyiv	blue red	01-22-2025 11:24 AM	03-21-2025 12:09 PM	⋮
<input type="checkbox"/>	South-West Wing	1	TEKTELIC office	Calgary Test	blue gray green navy	11-11-2024 05:15 PM	11-26-2024 08:56 PM	⋮
<input type="checkbox"/>	Home	-	Building2	Kyiv	gray	11-08-2024 04:58 PM	03-21-2025 01:58 PM	⋮

Page: 1 Rows per page: 20 1-6 of 6

2. Open “**Geofences**” tab.



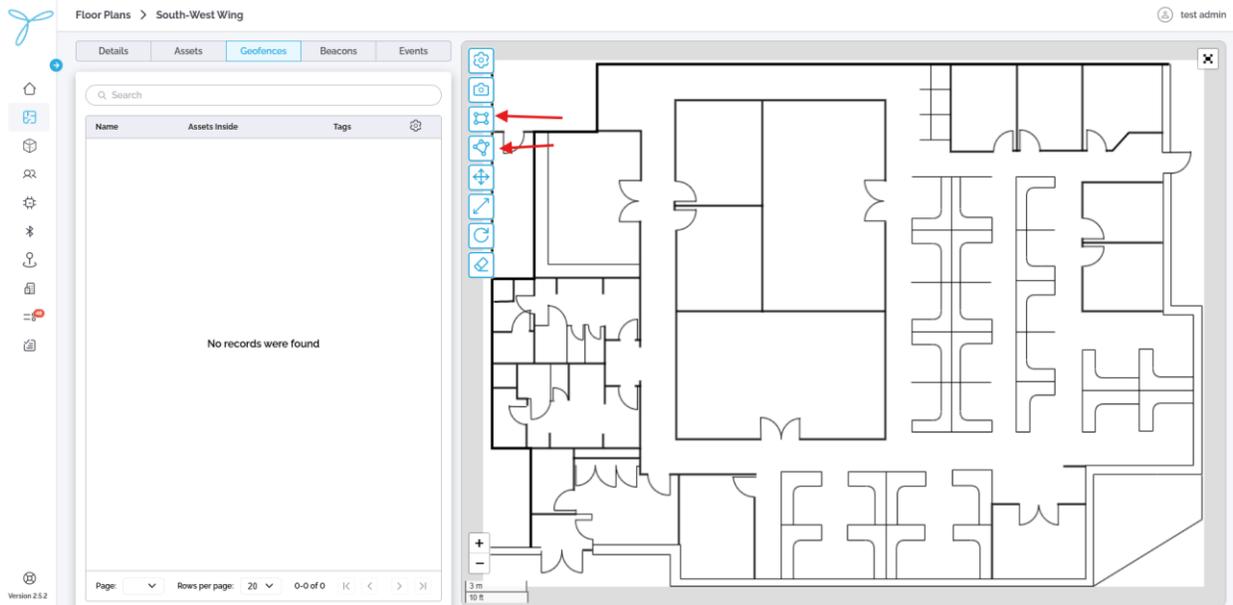
The screenshot shows the 'Geofences' tab for the 'South-West Wing' floor plan. The left sidebar contains details for the geofence, including Home Site, Building, Floor Level, Create Date, Last Modified, Tags, and Description. The main area displays a floor plan image with a red arrow pointing to the 'Geofences' tab.

South-West Wing

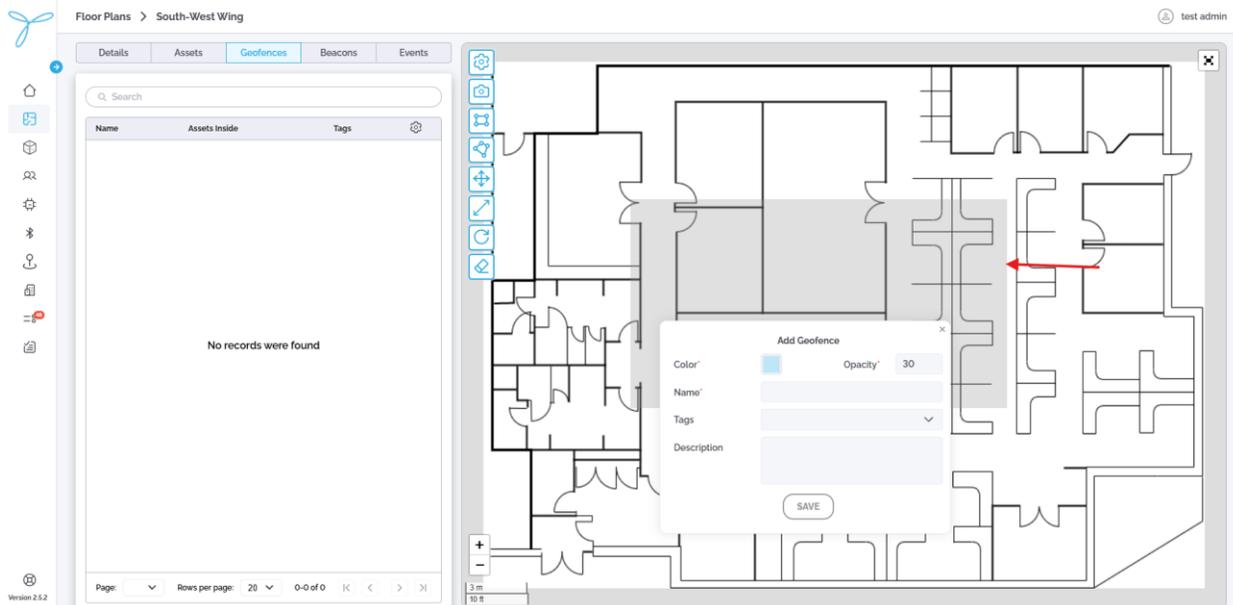
Home Site: Calgary Test
Building: TEKTELIC office
Floor Level: 1
Create Date: 11-11-2024 05:15 PM
Last Modified: 11-26-2024 08:56 PM
Tags: blue gray green navy
Description: Operations Department

Image: calgary_office_map.png (0.03 MB)

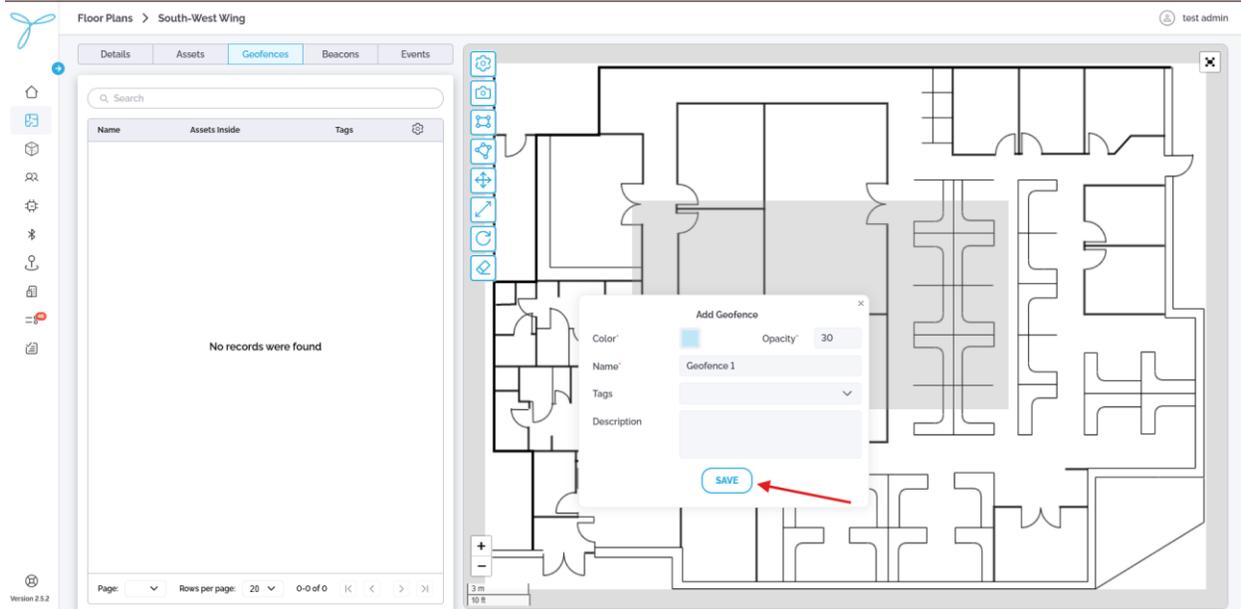
3. Select “Draw polygon” or “Draw rectangle” option



4. Define geofence boundaries. Click on “Draw polygon” or “Draw rectangle” button to exit edit mode. Click on geofence boundaries to open “Add geofence” modal window.

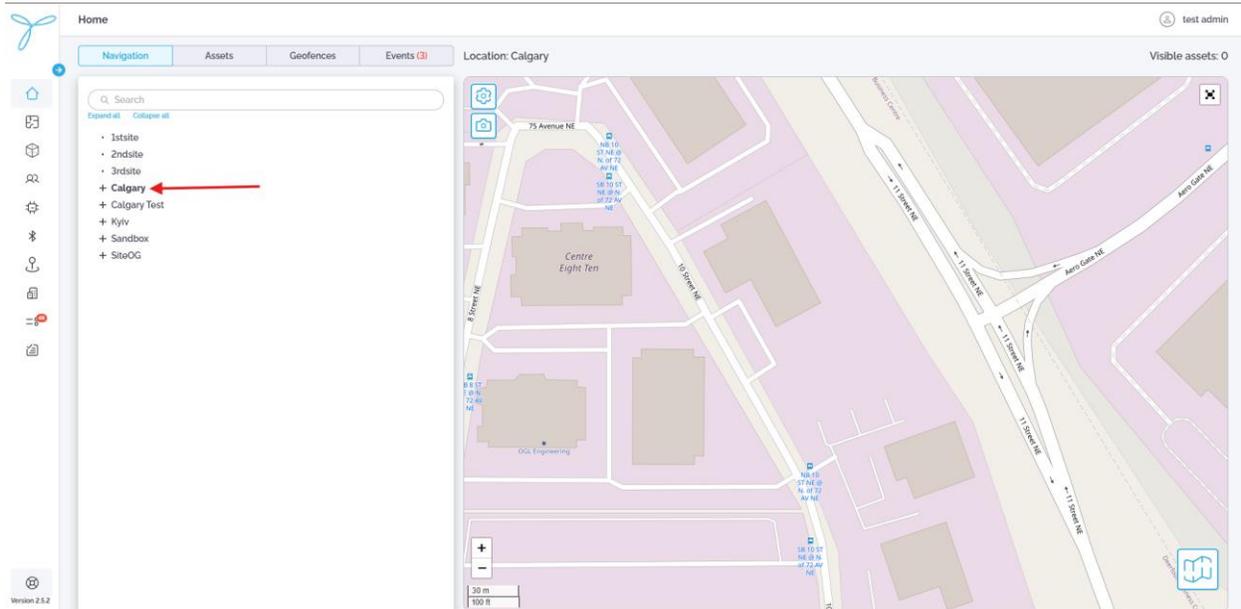


5. Select **geofence** color. Enter geofence name. Click on “**Save**” button

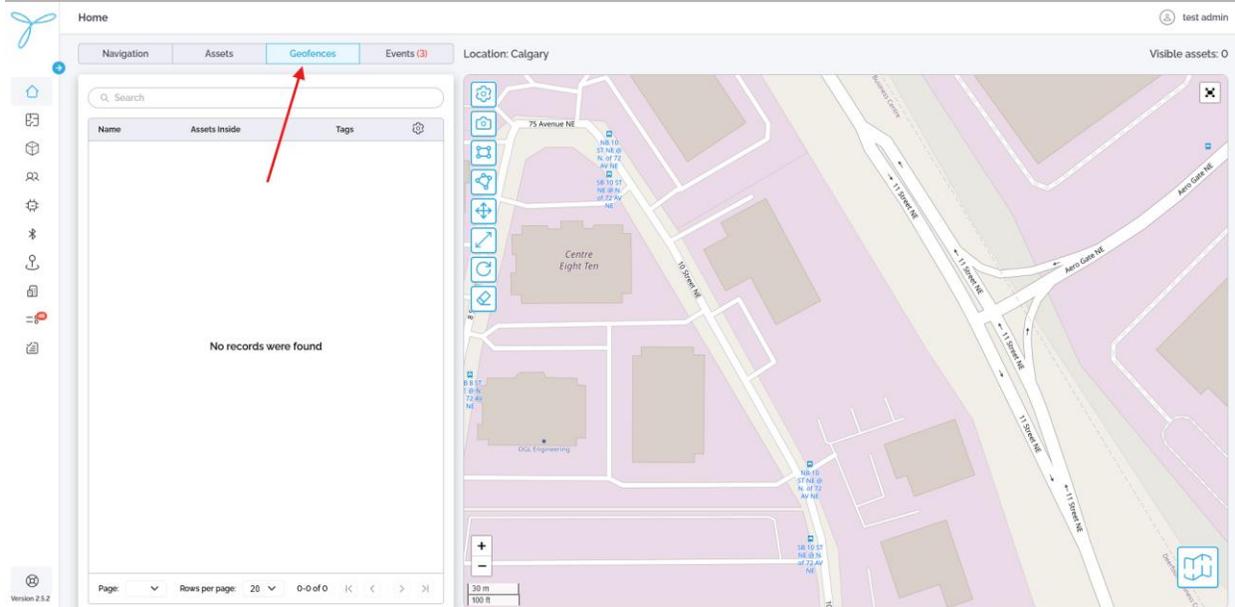


4.22 Add new geofence(outdoor)

1. Navigate to **Home** menu and select **Site**.



2. Open “Geofences” section.



3. Follow the same steps, as for indoor geofence.

For more details on geofences, refer to the [Locus Web App User Documentation](#)

4.23 Event Rules (Optional)

Overview

The Event Rules page lets you create and monitor rules that trigger events (e.g., assets entering/exiting geofences) across sites. Event rules are bounded with existing geofences.

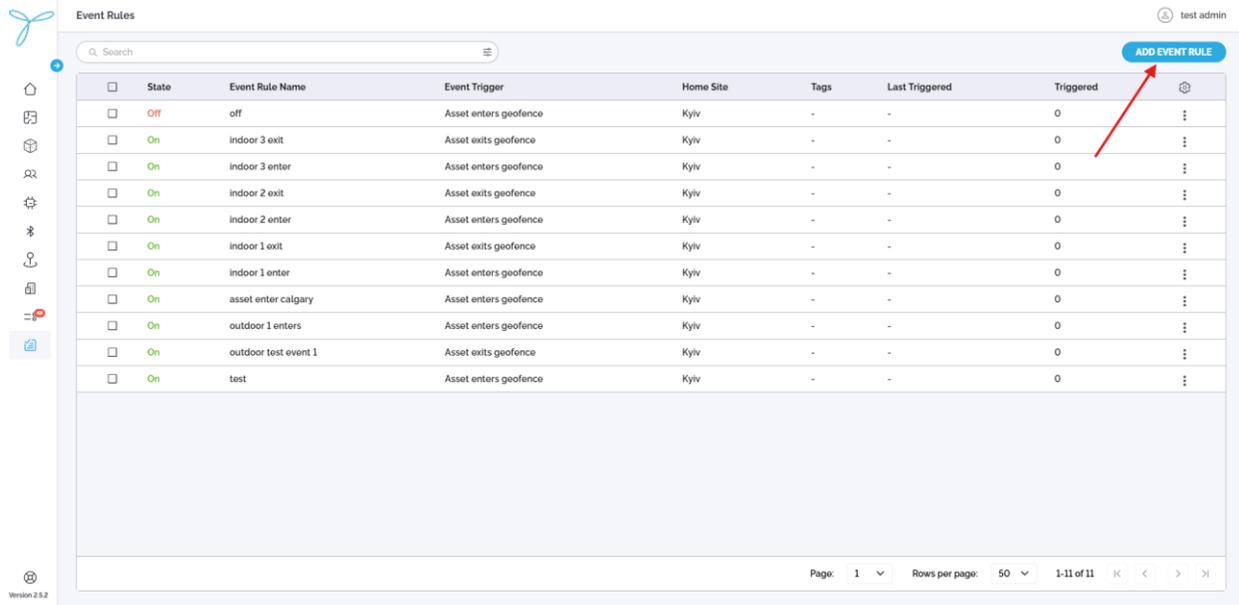
Before You Start

Ensure you have:

- A list of event-rules provided by the customer. See the [Getting Started with Locus: Setup Requirements](#) guide for details.

4.24 Add new Event Rule (without Webhook)

1. Navigate to **Event rules** menu and click “Add event rule”

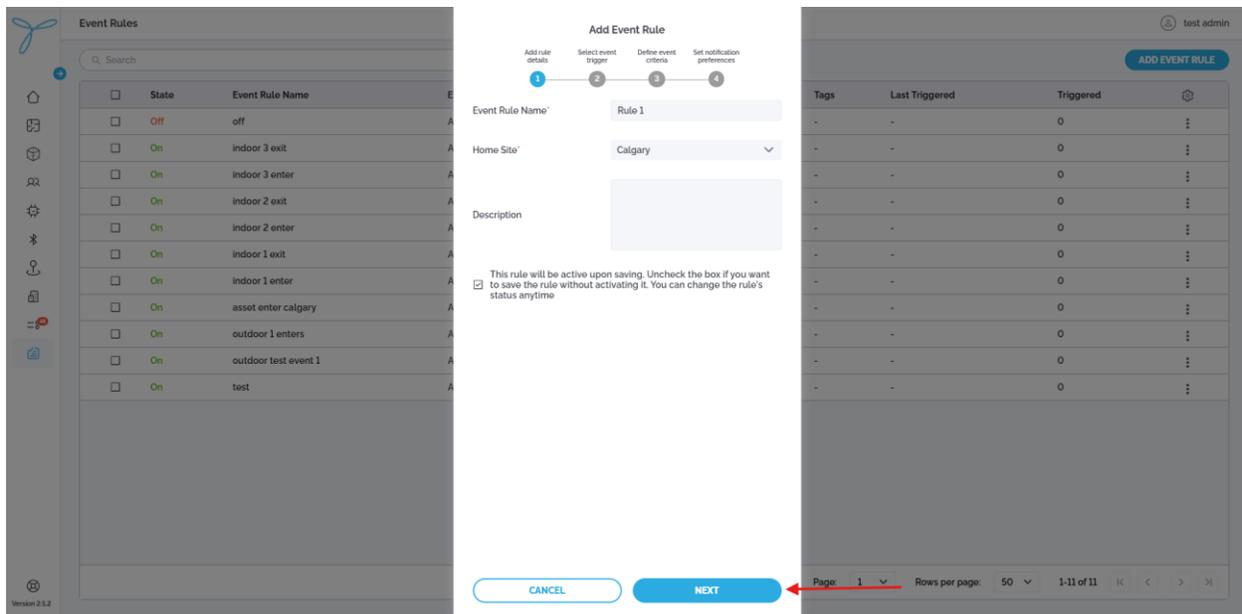


The screenshot shows the 'Event Rules' management page. At the top right, there is a user profile icon for 'test admin' and a blue button labeled 'ADD EVENT RULE'. Below this is a search bar and a table of event rules. The table has columns for State, Event Rule Name, Event Trigger, Home Site, Tags, Last Triggered, and Triggered. A red arrow points from the 'ADD EVENT RULE' button to the table area.

State	Event Rule Name	Event Trigger	Home Site	Tags	Last Triggered	Triggered
Off	off	Asset enters geofence	Kyiv	-	-	0
On	indoor 3 exit	Asset exits geofence	Kyiv	-	-	0
On	indoor 3 enter	Asset enters geofence	Kyiv	-	-	0
On	indoor 2 exit	Asset exits geofence	Kyiv	-	-	0
On	indoor 2 enter	Asset enters geofence	Kyiv	-	-	0
On	indoor 1 exit	Asset exits geofence	Kyiv	-	-	0
On	indoor 1 enter	Asset enters geofence	Kyiv	-	-	0
On	asset enter calgary	Asset enters geofence	Kyiv	-	-	0
On	outdoor 1 enters	Asset enters geofence	Kyiv	-	-	0
On	outdoor test event 1	Asset exits geofence	Kyiv	-	-	0
On	test	Asset enters geofence	Kyiv	-	-	0

Page: 1 Rows per page: 50 1-11 of 11

2. Enter Name. Select Home Site.



The screenshot shows the 'Add Event Rule' form with a progress indicator at the top. The first step, 'Add rule details', is active. The form includes fields for 'Event Rule Name' (Rule 1), 'Home Site' (Calgary), and 'Description'. A checkbox is checked, indicating the rule will be active upon saving. The 'NEXT' button is highlighted with a red arrow.

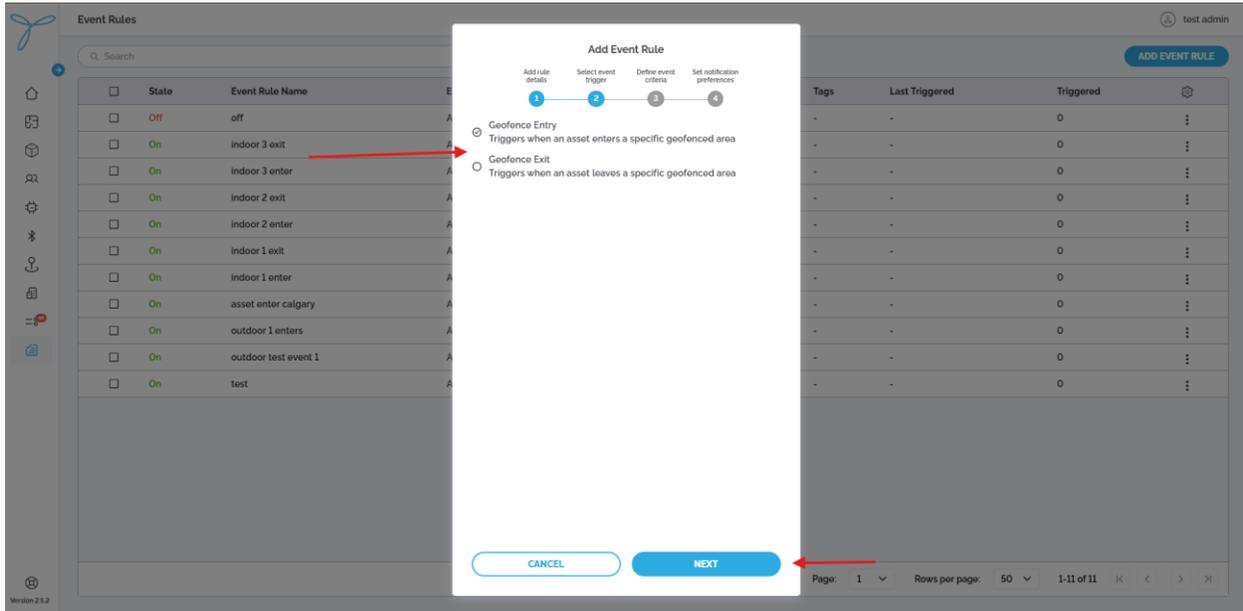
Progress: 1. Add rule details, 2. Select event trigger, 3. Define event criteria, 4. Set notification preferences

Event Rule Name: Rule 1
Home Site: Calgary
Description:
 This rule will be active upon saving. Uncheck the box if you want to save the rule without activating it. You can change the rule's status anytime.

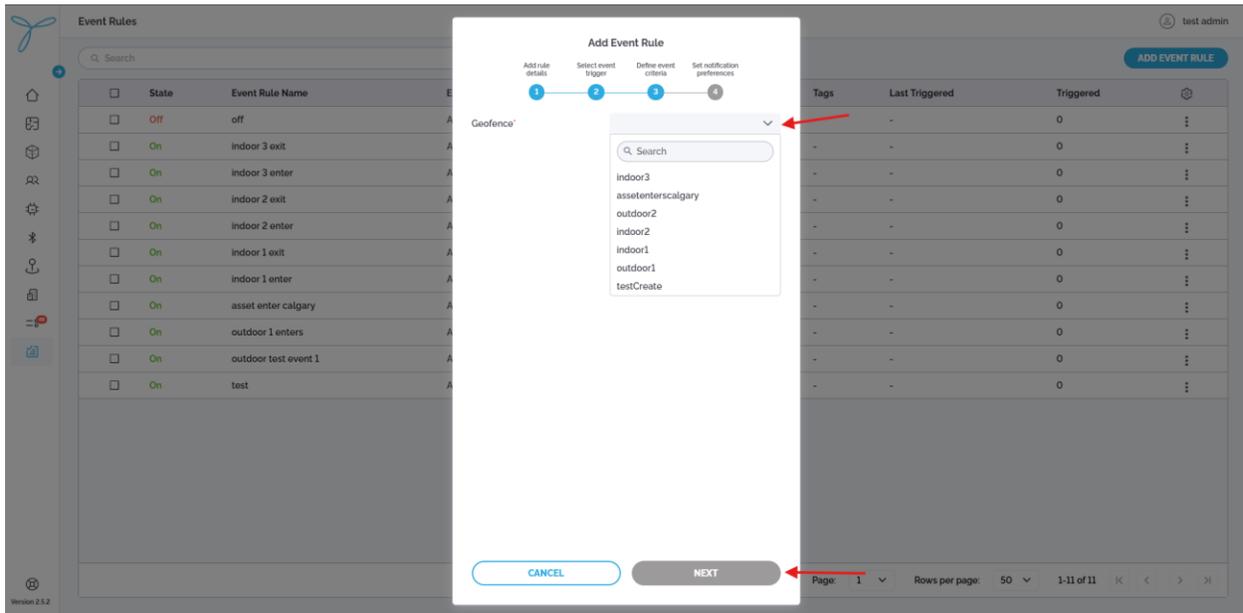
CANCEL NEXT

Page: 1 Rows per page: 50 1-11 of 11

3. Select **Event trigger**. Click on “Next”



4. Select **geofence** to bound the **event rule**. Click on “Next”



5. Click on “Save” button.

Version 2.5.2

test admin

ADD EVENT RULE

Tags	Last Triggered	Triggered	
-	-	0	⋮
-	-	0	⋮
-	-	0	⋮
-	-	0	⋮
-	-	0	⋮
-	-	0	⋮
-	-	0	⋮
-	-	0	⋮
-	-	0	⋮
-	-	0	⋮
-	-	0	⋮

Page: 1 Rows per page: 50 1-11 of 11

4.25 Add new Event Rule (with Webhook)

1. Navigate to **Event rules** menu and click “Add event rule”

Version 2.5.2

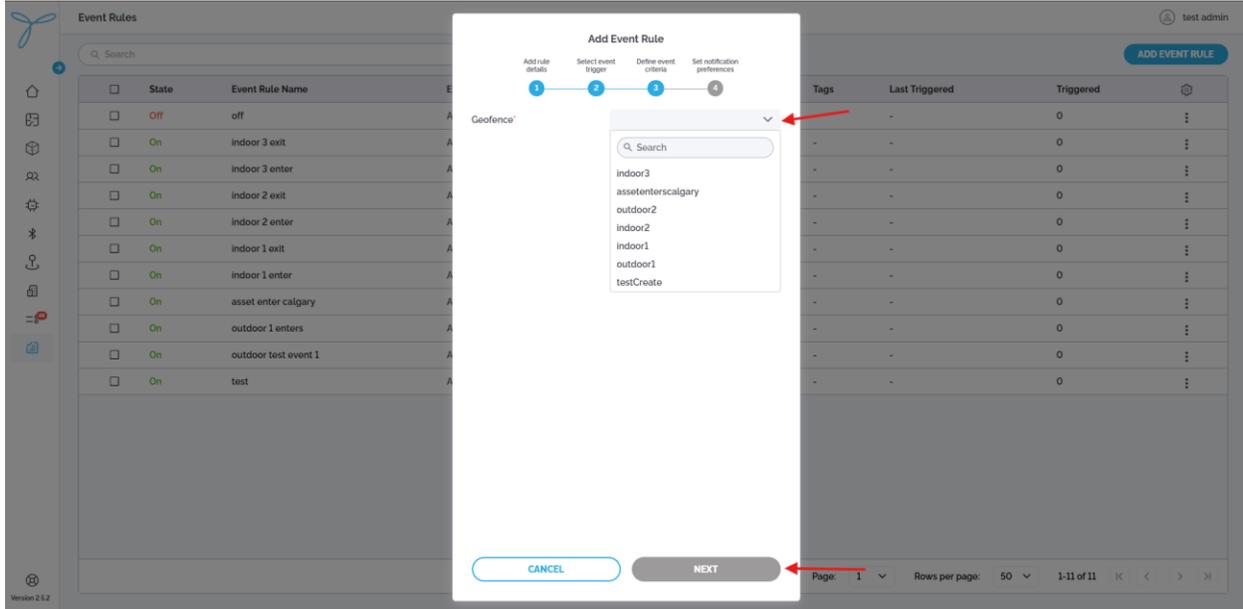
test admin

ADD EVENT RULE

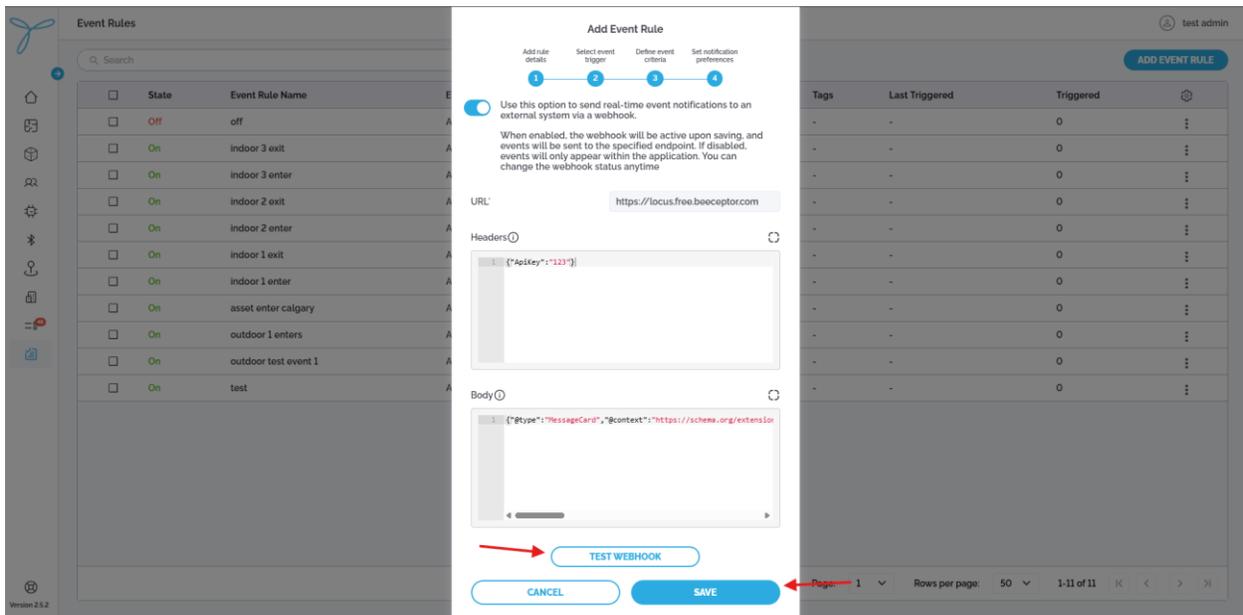
State	Event Rule Name	Event Trigger	Home Site	Tags	Last Triggered	Triggered	
Off	off	Asset enters geofence	Kyiv	-	-	0	⋮
On	indoor 3 exit	Asset exits geofence	Kyiv	-	-	0	⋮
On	indoor 3 enter	Asset enters geofence	Kyiv	-	-	0	⋮
On	indoor 2 exit	Asset exits geofence	Kyiv	-	-	0	⋮
On	indoor 2 enter	Asset enters geofence	Kyiv	-	-	0	⋮
On	indoor 1 exit	Asset exits geofence	Kyiv	-	-	0	⋮
On	indoor 1 enter	Asset enters geofence	Kyiv	-	-	0	⋮
On	asset enter calgary	Asset enters geofence	Kyiv	-	-	0	⋮
On	outdoor 1 enters	Asset enters geofence	Kyiv	-	-	0	⋮
On	outdoor test event 1	Asset exits geofence	Kyiv	-	-	0	⋮
On	test	Asset enters geofence	Kyiv	-	-	0	⋮

Page: 1 Rows per page: 50 1-11 of 11

4. Select geofence to bound the event rule. Click on “Next”



5. Enter URL. Enter Headers. Enter Body. Click on “Test webhook” to validate integration. Click on “Save” button.



Example (in JavaScript):

URL : client`s HTTPS server.

Headers :

```
{  
  "apiKey": "123"  
}
```

Body :

```
{  
  "@type": "MessageCard",  
  "@context": "https://schema.org/extensions",  
  "summary": "{{eventRule.name}}",  
  "themeColor": "0076D7",  
  "title": "Device {{hit.last.device.eui}}",  
  "text": "Event Type: {{eventType}}. Floor:  
{{hit.last.indoorLocation.indoorLocation.floor.id}}. Site:  
{{hit.last.indoorLocation.indoorLocation.site.id}}"  
}
```

4.26 Events (Optional)

Overview

The Events page lets you monitor and analyze events related to assets, such as entering or exiting geofences, across sites, buildings, and floor plans.

Timestamp	Event Status	Event Type	Asset Name	Asset ID	Site	Building	Floor Plan
02-25-2025 02:29 PM	✔	Asset enters geofence	Pelican test	0a891972-3867-4a05-8a2b-534f25a7f111	Kyiv	Building1	Home
02-25-2025 12:57 PM	✔	Asset enters geofence	Pelican test	0a891972-3867-4a05-8a2b-534f25a7f111	Kyiv	Building1	Home
02-25-2025 12:47 PM	✔	Asset exits geofence	Pelican test	0a891972-3867-4a05-8a2b-534f25a7f111	Kyiv	Building1	Home
02-25-2025 12:44 PM	✔	Asset enters geofence	Pelican test	0a891972-3867-4a05-8a2b-534f25a7f111	Kyiv	Building1	Home
02-24-2025 10:52 PM	✔	Asset exits geofence	Pelican test	0a891972-3867-4a05-8a2b-534f25a7f111	Kyiv	Building1	Home
02-24-2025 10:52 PM	✔	Asset enters geofence	Pelican test	0a891972-3867-4a05-8a2b-534f25a7f111	Kyiv	Building1	Home
02-24-2025 06:08 PM	✔	Asset enters geofence	Pelican test	0a891972-3867-4a05-8a2b-534f25a7f111	Kyiv	Building1	Home
02-24-2025 02:07 PM	✔	Asset enters geofence	Seal outdoor	7a737ac44-899f-4023-b558-ab729f00308f	-	-	-
02-24-2025 01:30 PM	✔	Asset exits geofence	Seal outdoor	7a737ac44-899f-4023-b558-ab729f00308f	-	-	-
02-25-2025 09:22 PM	✔	Asset enters geofence	Seal outdoor	7a737ac44-899f-4023-b558-ab729f00308f	-	-	-
02-25-2025 06:22 PM	✔	Asset enters geofence	Seal outdoor	7a737ac44-899f-4023-b558-ab729f00308f	-	-	-
02-18-2025 04:34 PM	✔	Asset enters geofence	Seal outdoor	7a737ac44-899f-4023-b558-ab729f00308f	-	-	-
02-12-2025 04:36 PM	✔	Asset enters geofence	Mocked Seal	056c75d6-f027-442b-8542-9827345b0347	-	-	-
02-12-2025 01:51 PM	✔	Asset enters geofence	Pelican test	0a891972-3867-4a05-8a2b-534f25a7f111	Kyiv	Building1	Home
02-12-2025 01:46 PM	✔	Asset enters geofence	Pelican test	0a891972-3867-4a05-8a2b-534f25a7f111	Kyiv	Building1	Home
02-12-2025 01:35 PM	✔	Asset exits geofence	Pelican test	0a891972-3867-4a05-8a2b-534f25a7f111	Kyiv	Building1	Home
02-12-2025 01:35 PM	✔	Asset enters geofence	Pelican test	0a891972-3867-4a05-8a2b-534f25a7f111	Kyiv	Building1	Home
02-12-2025 01:16 PM	✔	Asset enters geofence	Pelican test	0a891972-3867-4a05-8a2b-534f25a7f111	Kyiv	Building1	Home
02-12-2025 12:56 PM	✔	Asset exits geofence	Pelican test	0a891972-3867-4a05-8a2b-534f25a7f111	Kyiv	Building1	Home
02-12-2025 12:49 PM	✔	Asset exits geofence	Pelican test	0a891972-3867-4a05-8a2b-534f25a7f111	Kyiv	Building1	Home

5. Conclusion

Client need`s to physically place beacons accordingly to it`s placement on the Floor Plan for indoor tracking.

After than, we need to re-check workability of the complete solution. Position for indoor tracking will be recognized after 4 successfull BLE scan`s from the device, WITH valid existing beacon`s MAC addresses.