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# Mahlkönig Sync

## Desktop Application

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## Pre-Requisites!

To be able to sync a Grind-by-Sync (GbS) grinder to a La Marzocco machine, you need a commercial La Marzocco coffee machine.

•

Users not having a GbS grinder will only see part of the functionality in the apps. The apps are centered around monitoring statistics, telemetry, and more on the devices.

•

You also need the La Marzocco app and you need to make sure that the La Marzocco machine is already onboarded according to La Marzocco's own onboarding instructions.

•

The grinder uses the 2.4Ghz Wifi protocol and will ONLY capture 2.4Ghz. 5Ghz is not supported and will not be detected/listed by the grinder.

# Customer Roles

## **Company Manager: The person with overall responsibility of assets across a company**

- Can invite and edit regional managers, store managers, baristas
- Can onboard edit devices across the company
- Can define company regions and stores

•

## **Regional Manager: The person with oversight across a specific region**

- Can invite and edit store managers, baristas
- Can onboard edit devices across the region of responsibility
- Can define stores

•

## **Store Manager: The person responsible for a given store**

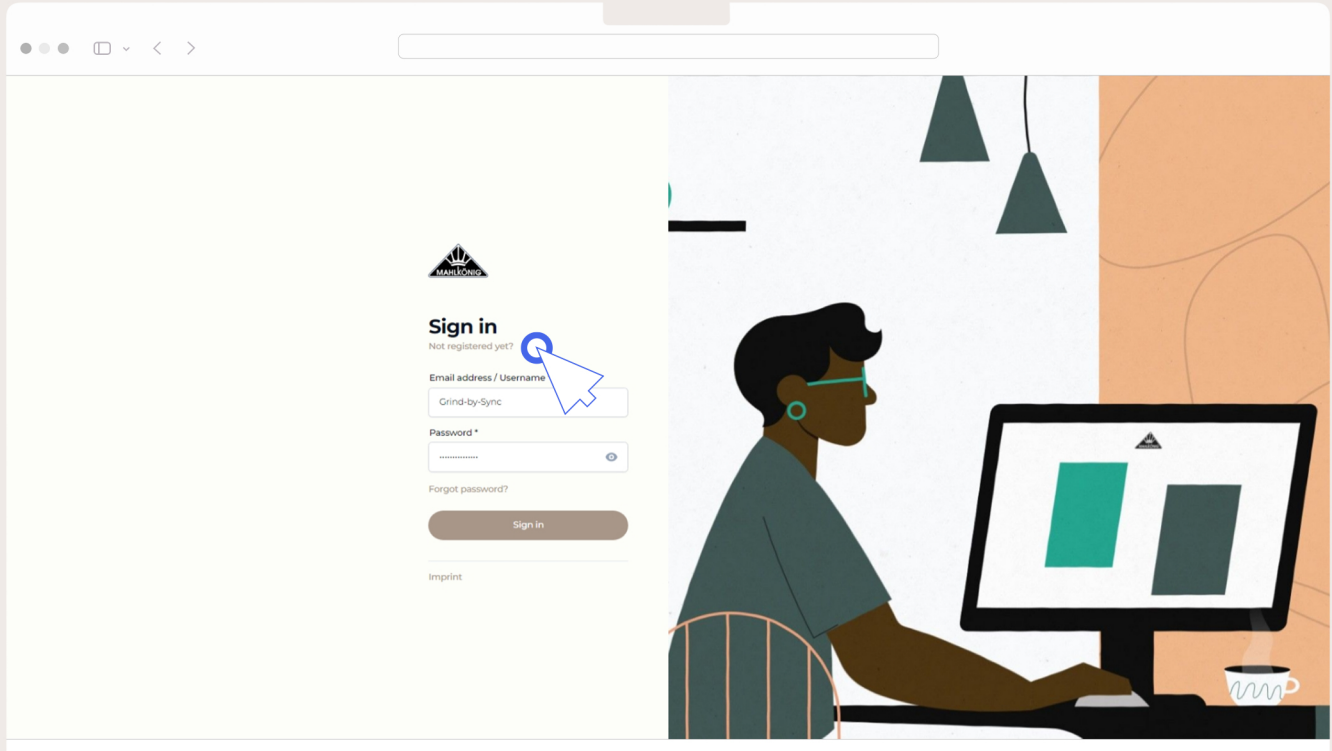
- Can invite and edit baristas
- Can onboard edit devices for her/his store

•

## **Barista: The person usually operating the equipment**

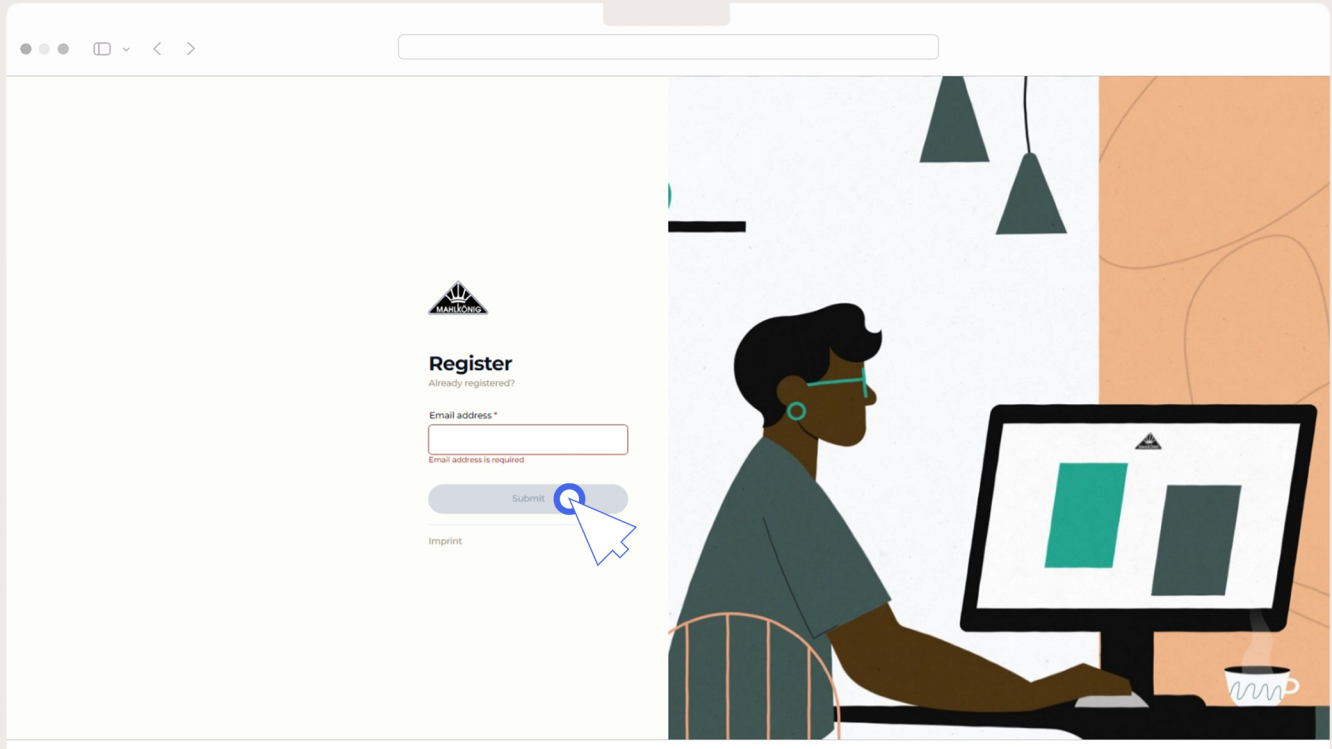
- Can view data for the defined store

//

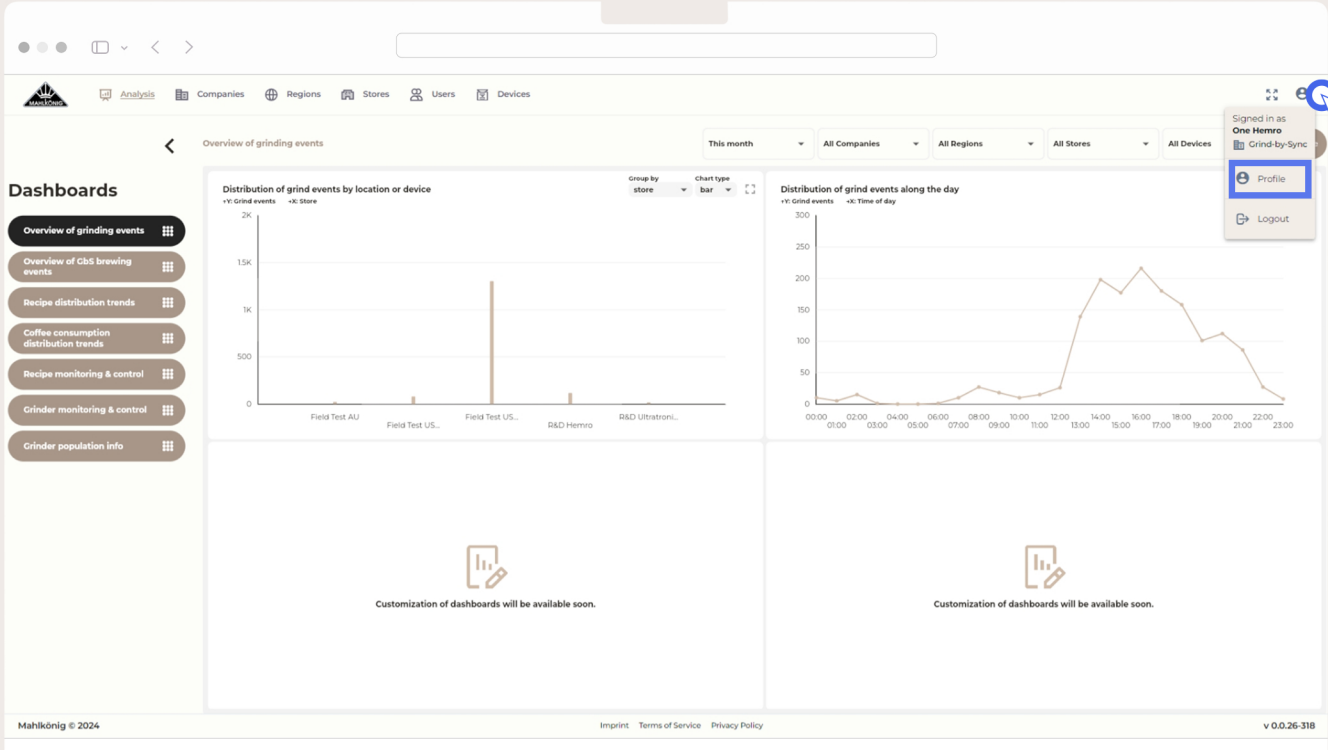


## User Registration & Profile

//

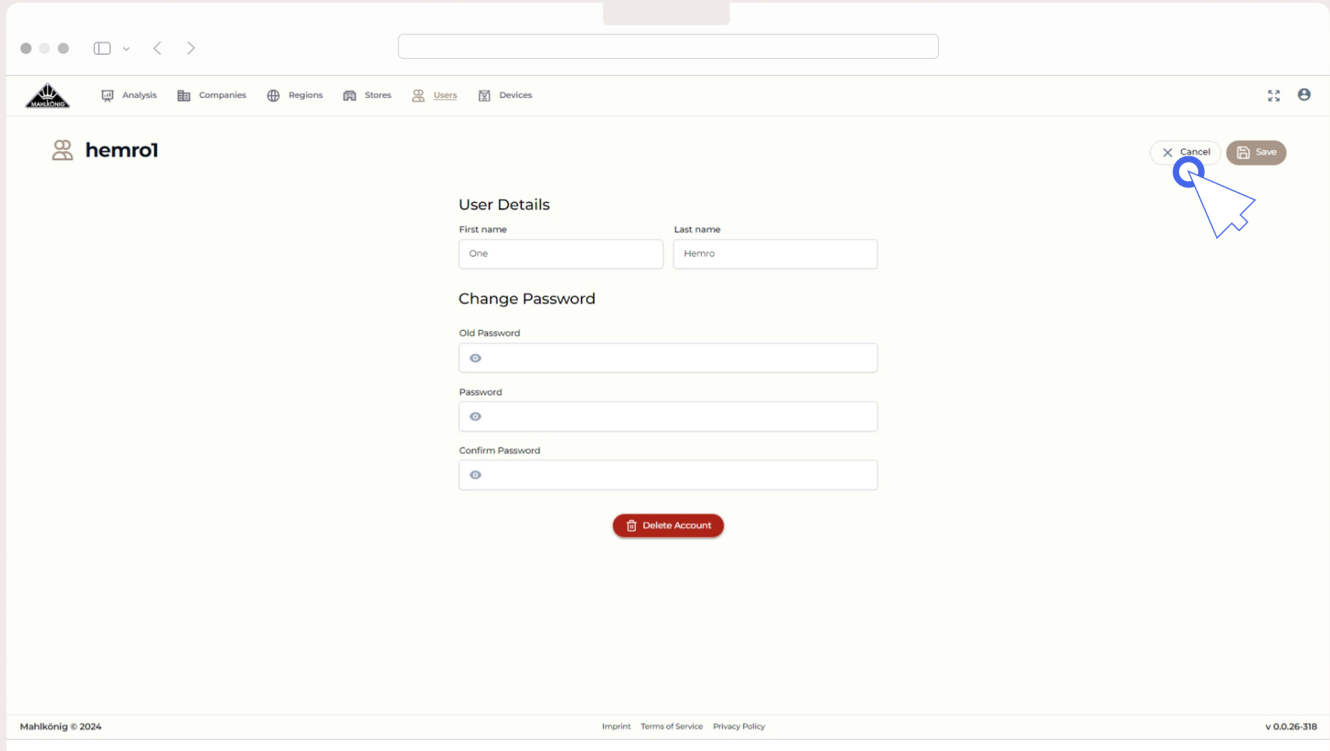


## User Registration & Profile



## User Registration & Profile

//



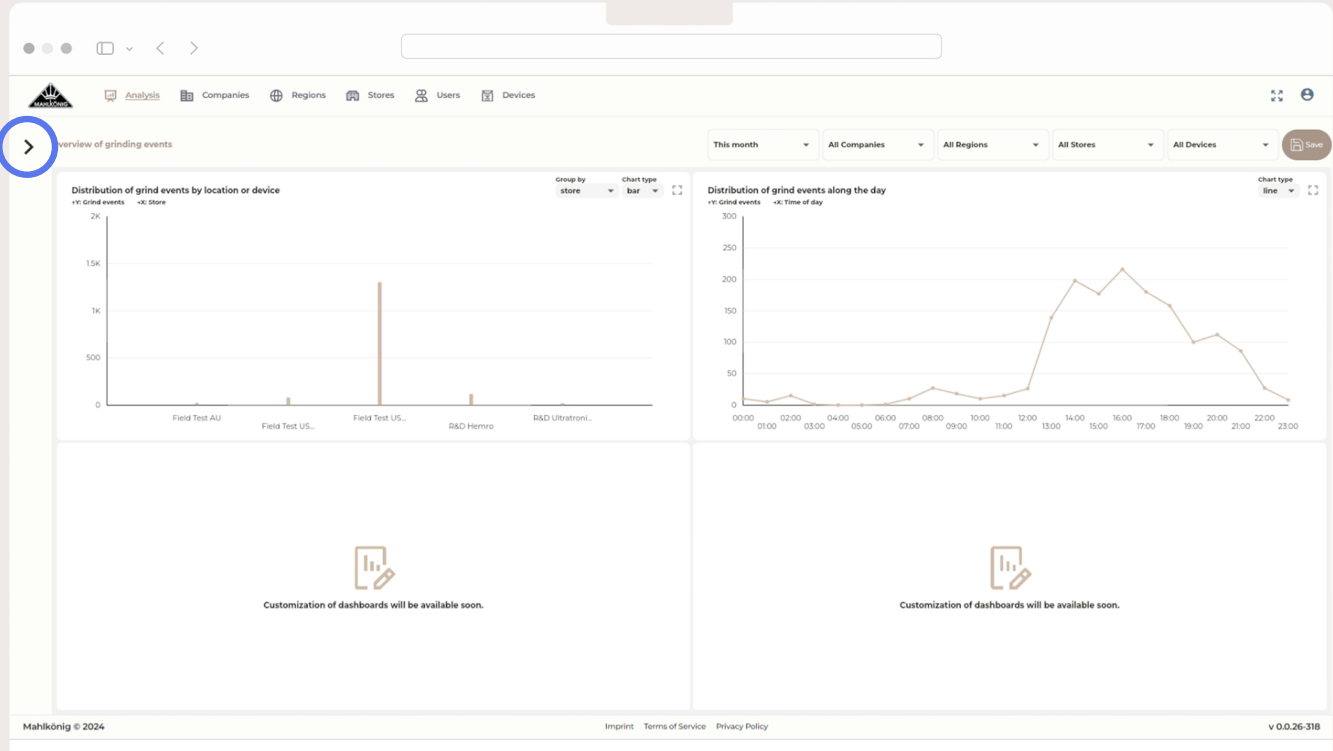
## User Registration & Profile

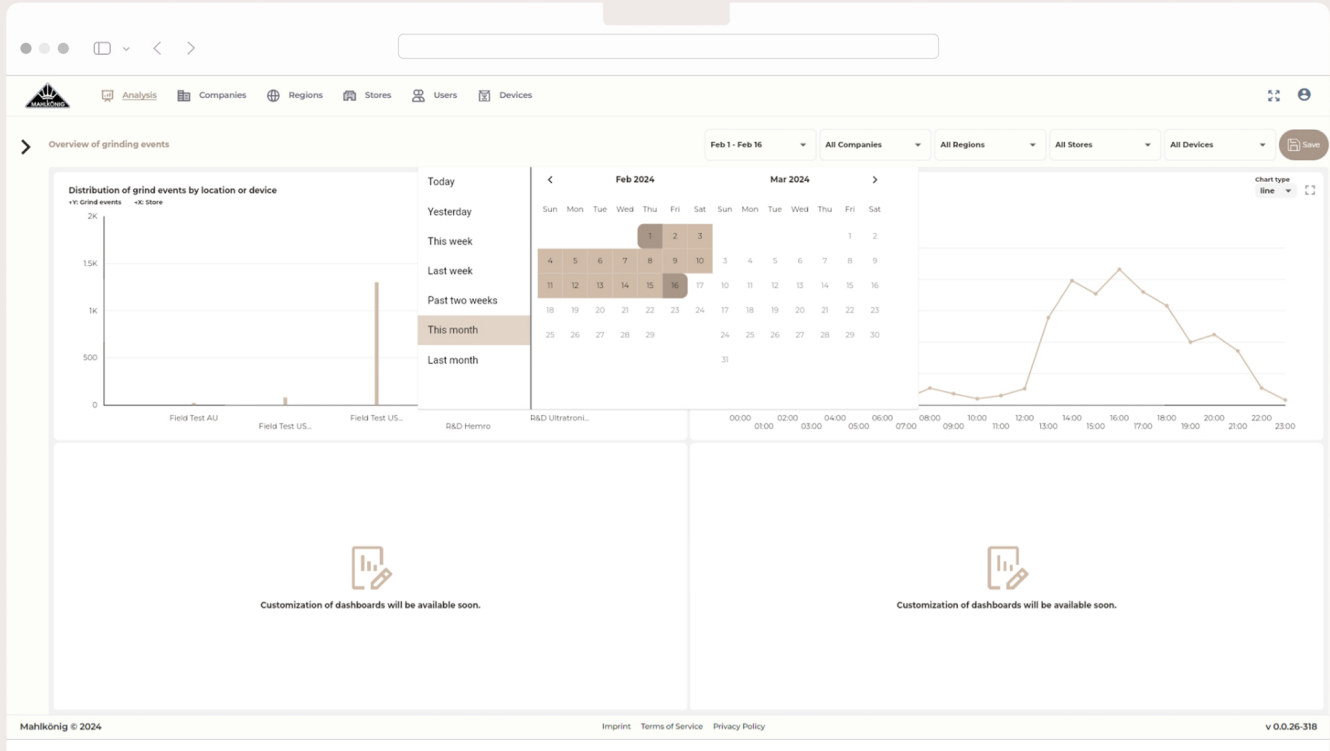


//

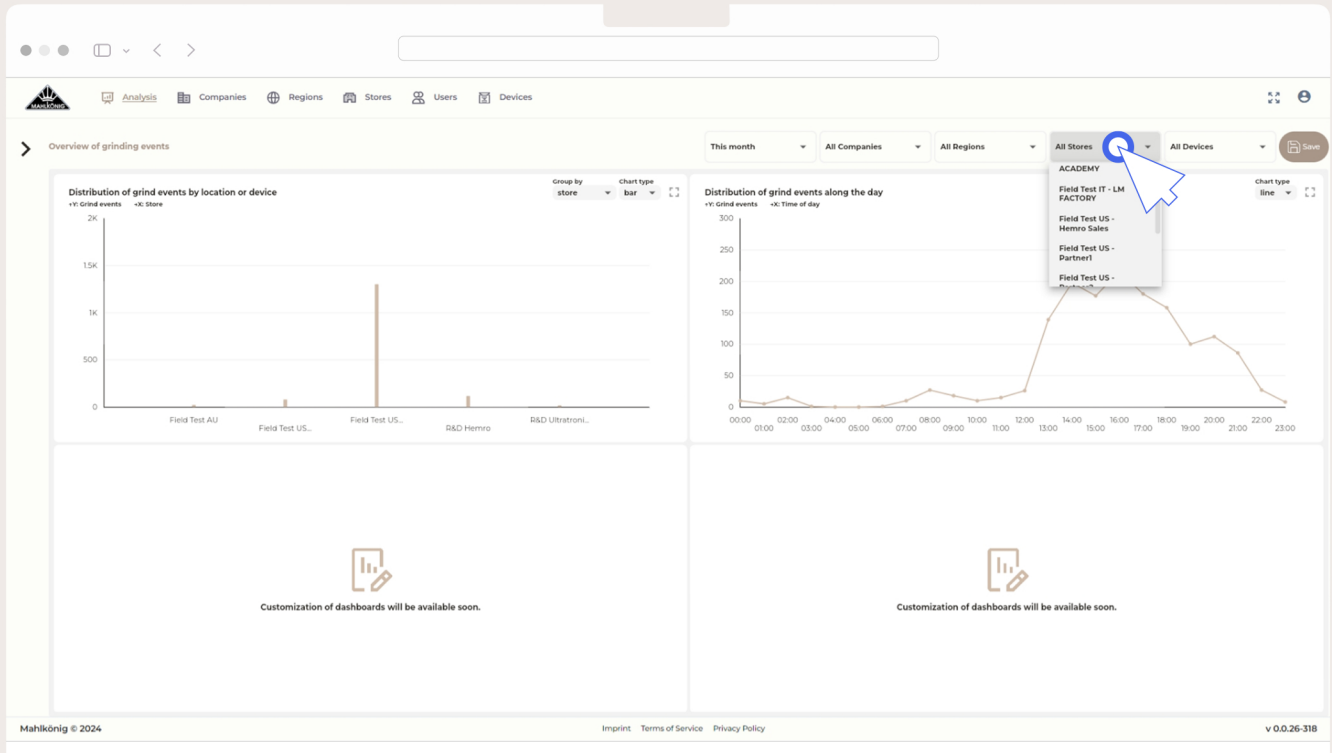
The screenshot displays the 'Overview of grinding events' dashboard. At the top, there is a navigation bar with icons for Analysis, Companies, Regions, Stores, Users, and Devices. Below this is a filter bar with dropdown menus for 'This month', 'All Companies', 'All Regions', 'All Stores', and 'All Devices', along with a 'Save' button. A left sidebar contains a 'Dashboards' section with a list of widgets: 'Overview of grinding events' (highlighted with a blue circle), 'Overview of C15 brewing events', 'Recipe distribution trends', 'Coffee consumption distribution trends', 'Recipe monitoring & control', 'Grinder monitoring & control', and 'Grinder population info'. The main content area features two charts: 'Distribution of grind events by location or device' (a bar chart showing a significant peak for 'Field Test US...') and 'Distribution of grind events along the day' (a line chart showing a peak in activity around 16:00). Two placeholder boxes at the bottom indicate that 'Customization of dashboards will be available soon.' The footer contains copyright information for 2024, links for Imprint, Terms of Service, and Privacy Policy, and a version number v 0.0.26-318.

//

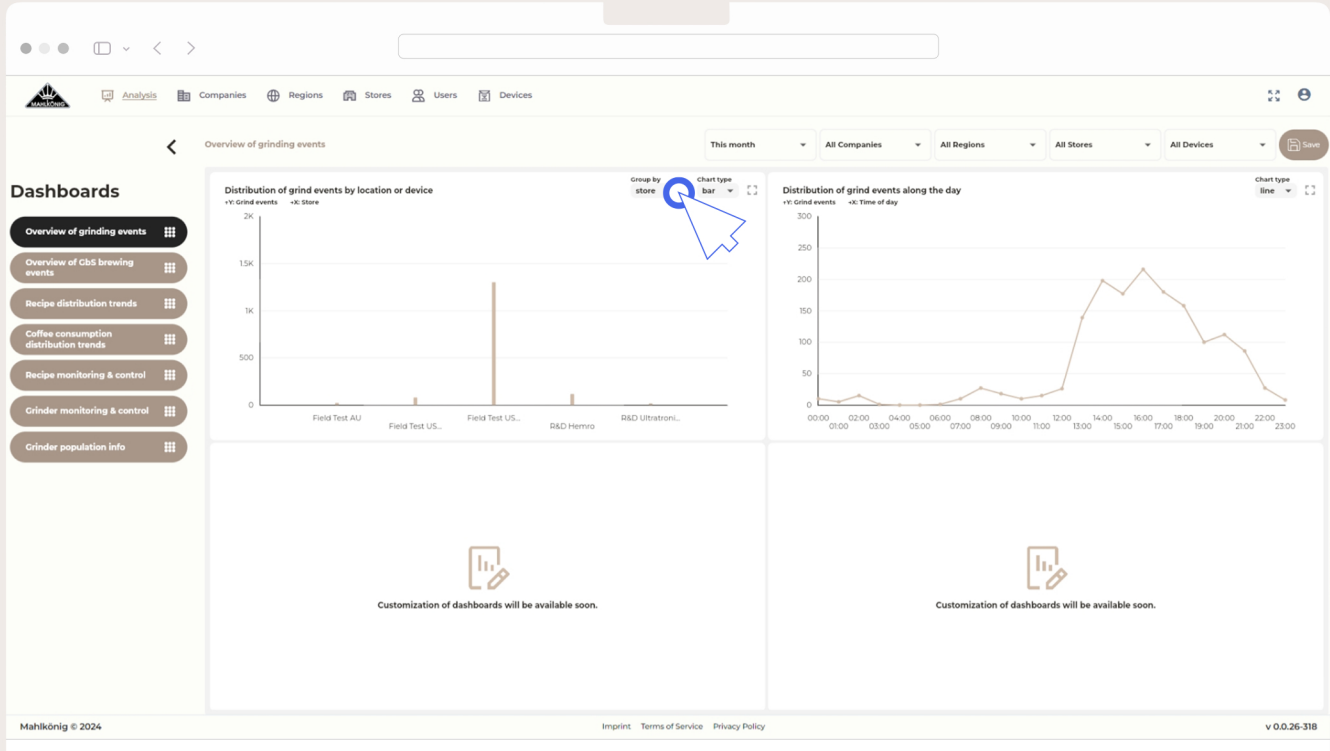




//



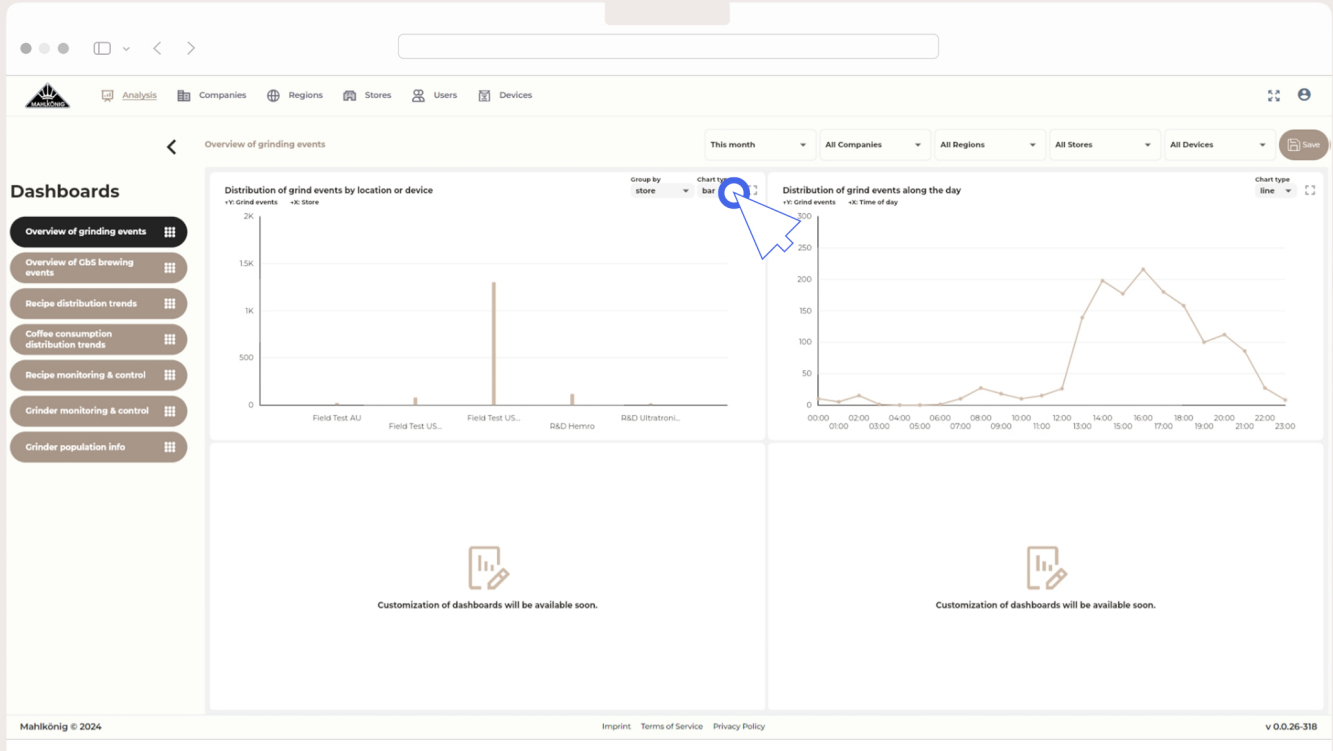
//



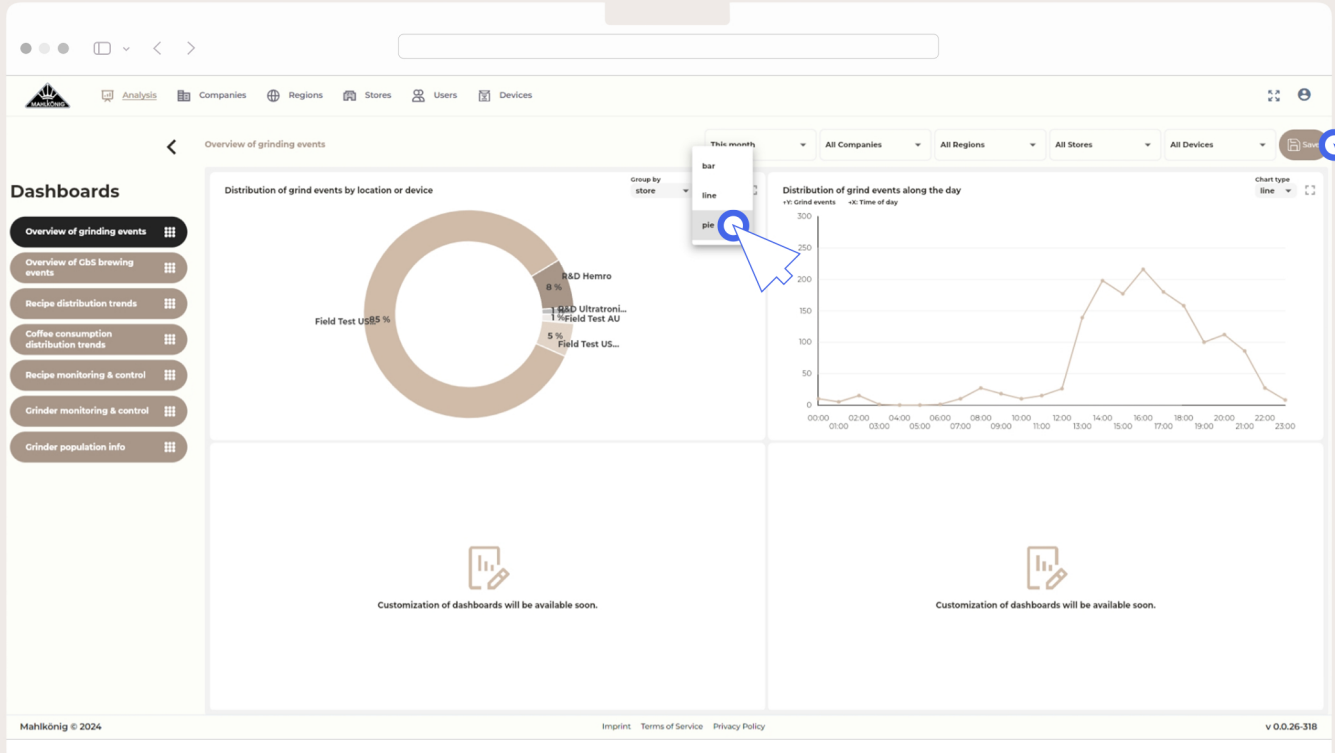
//

The screenshot displays the 'Overview of grinding events' dashboard in the Mahlkönig Sync Desktop Application. The interface includes a navigation bar with icons for Analysis, Companies, Regions, Stores, Users, and Devices. A sidebar on the left lists various dashboards, with 'Overview of grinding events' selected. The main content area features two charts: 'Distribution of grind events by location or device' (a bar chart) and 'Distribution of grind events along the day' (a line chart). A dropdown menu is open over the bar chart, showing options for 'company', 'region', 'store', and 'device', with a blue circle and mouse cursor highlighting the 'device' option. The bottom of the dashboard contains two placeholder boxes with the text 'Customization of dashboards will be available soon.' The footer includes copyright information (Mahlkönig © 2024), legal links (Imprint, Terms of Service, Privacy Policy), and a version number (v 0.0.26-318).

//

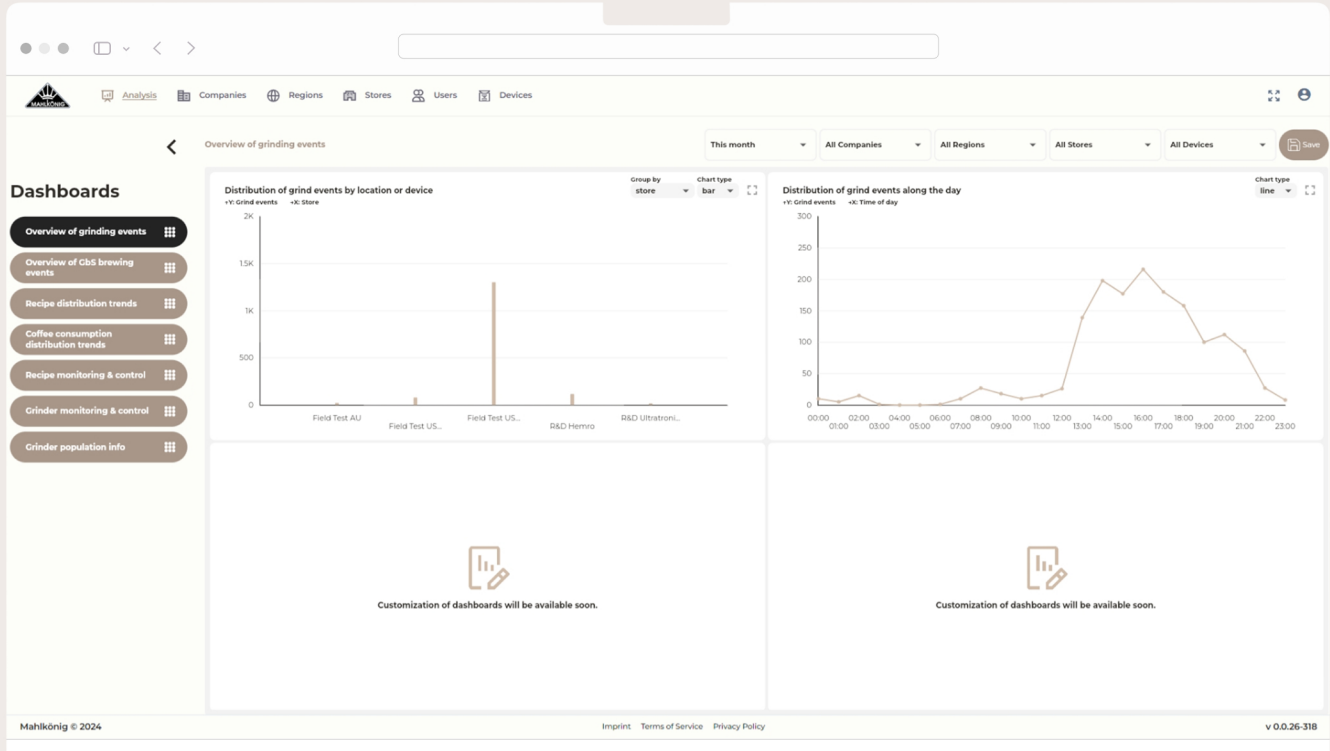


//

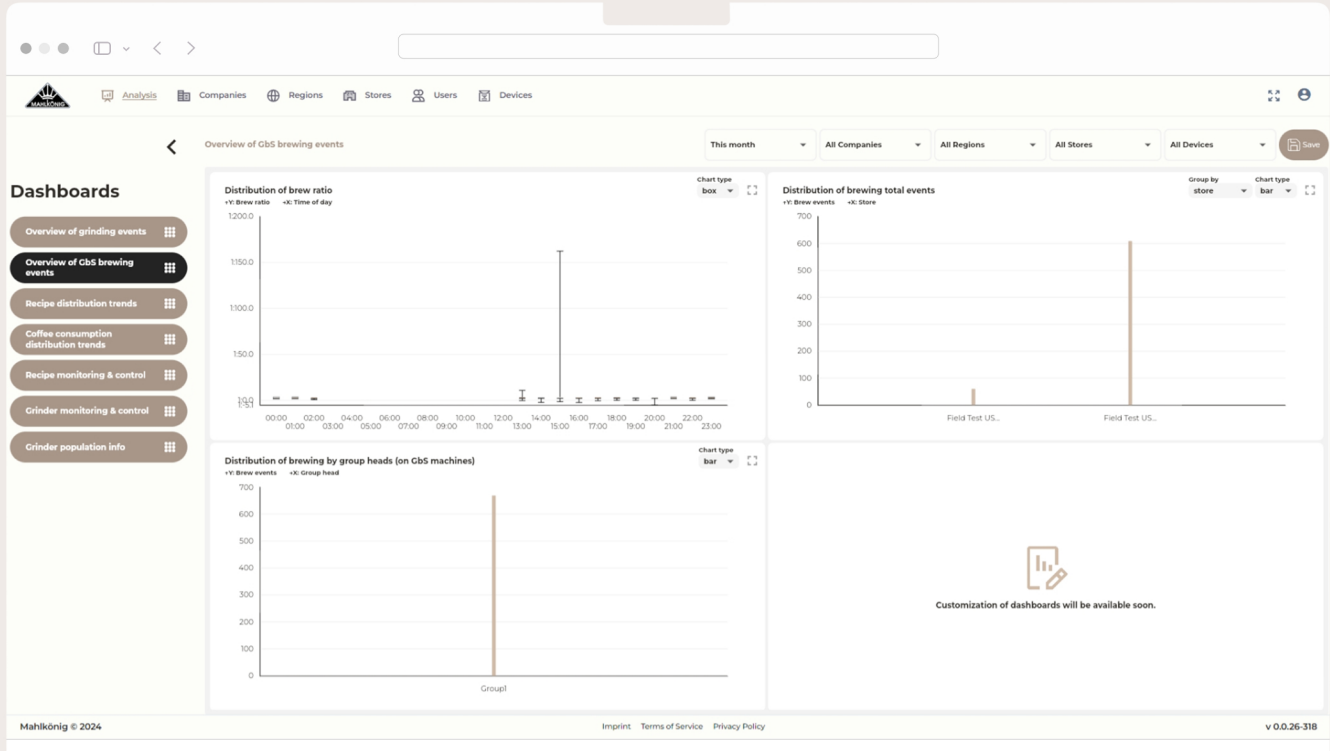




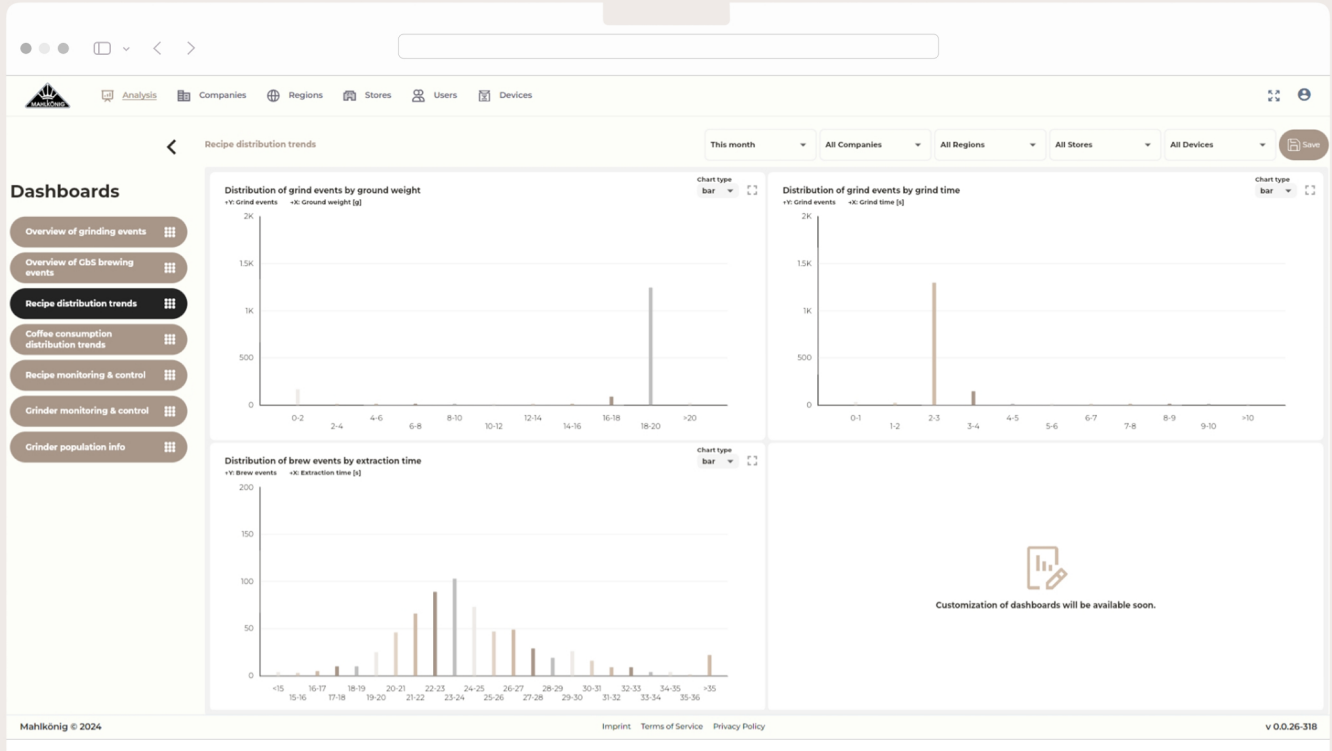
//



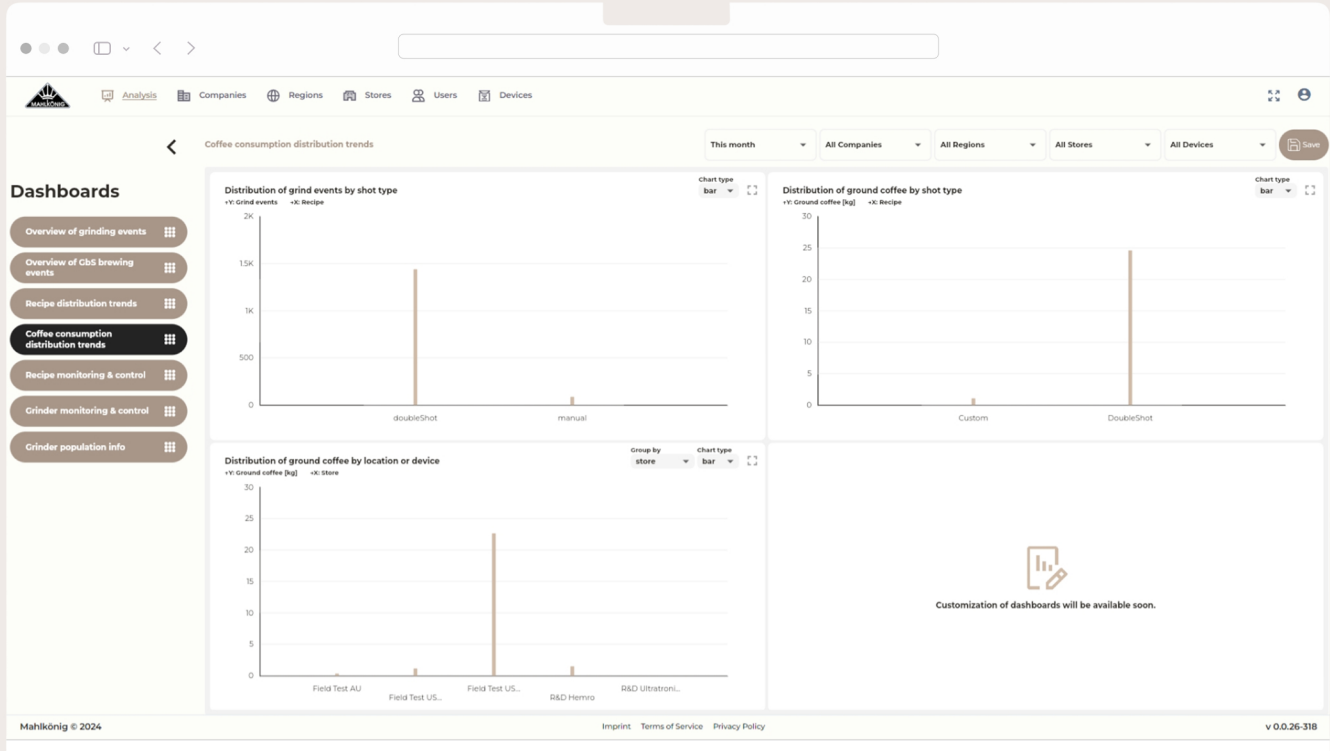
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The screenshot displays the 'Recipe monitoring & control' dashboard. The interface includes a navigation bar with icons for Analysis, Companies, Regions, Stores, Users, and Devices. The main content area features three charts and a placeholder for a fourth chart.

**Monitoring of recipe ground weight**  
 Y-axis: Deviation from target [mg] (-x: Time of day)  
 X-axis: Time of day (00:00 to 23:00)  
 The chart shows a horizontal line at 0 mg. Data points are represented by vertical error bars with horizontal caps, indicating deviations from the target. Most deviations are within the -50 mg to 50 mg range, with a notable spike to approximately 200 mg around 20:00.

**Monitoring of recipe extraction time**  
 Y-axis: Extraction time [s] (-x: Time of day)  
 X-axis: Time of day (00:00 to 23:00)  
 The chart shows a horizontal line at approximately 25 seconds. Data points are represented by vertical error bars with horizontal caps. Deviations are mostly between 10 and 40 seconds, with a significant spike to about 90 seconds around 18:00.

**Monitoring of recipe beverage weight**  
 Y-axis: Beverage weight [g] (-x: Time of day)  
 X-axis: Time of day (00:00 to 23:00)  
 The chart shows a horizontal line at approximately 40 grams. Data points are represented by vertical error bars with horizontal caps. Deviations range from about -40 to 50 grams, with a large spike to approximately 60 grams around 17:00.

**Placeholder:**  
 A message with a pencil icon states: 'Customization of dashboards will be available soon.'

At the bottom of the dashboard, there is a footer with the text: 'Mahlkönig © 2024', 'Imprint Terms of Service Privacy Policy', and 'v.0.0.26-318'.

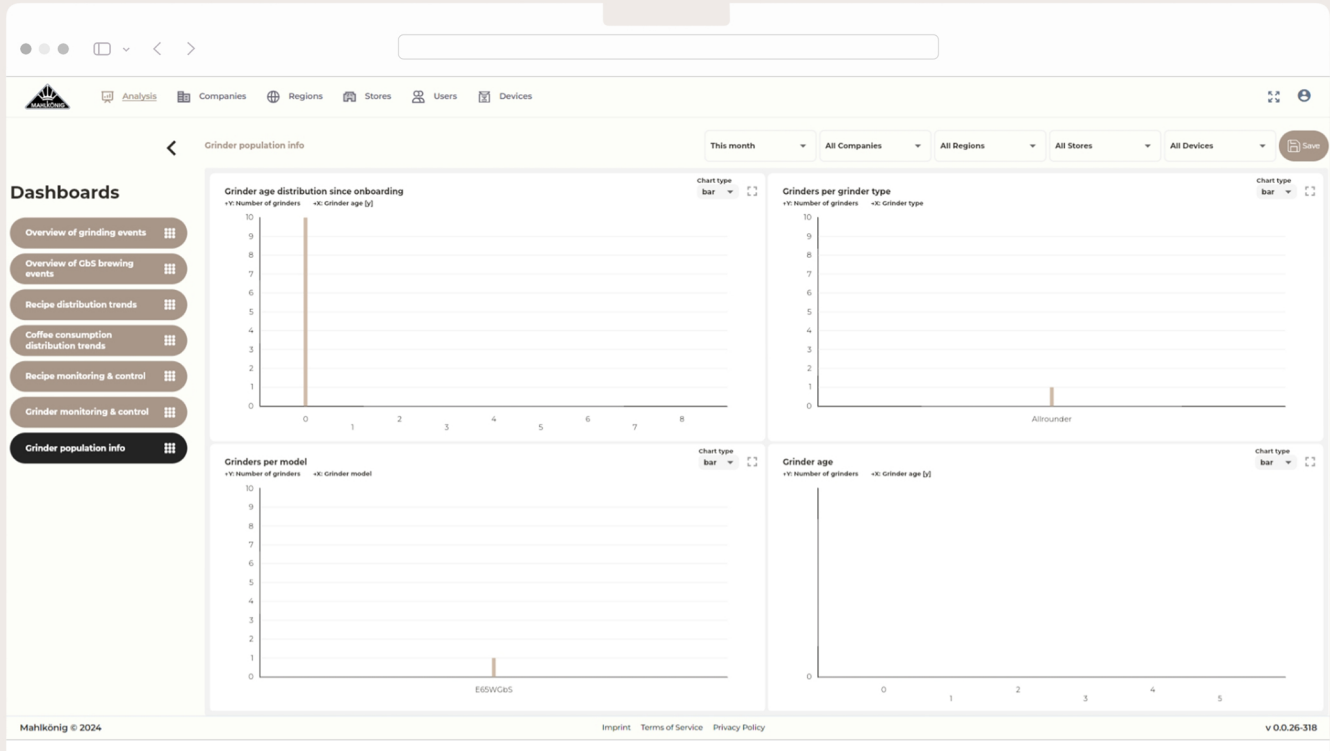
//

The screenshot displays the 'Grinder monitoring & control' dashboard. The interface includes a navigation bar with icons for Analysis, Companies, Regions, Stores, Users, and Devices. A filter bar at the top right shows 'This month', 'All Companies', 'All Regions', 'All Stores', and 'All Devices', along with a 'Save' button. On the left, a 'Dashboards' sidebar lists various views, with 'Grinder monitoring & control' selected. The main area contains three bar charts:

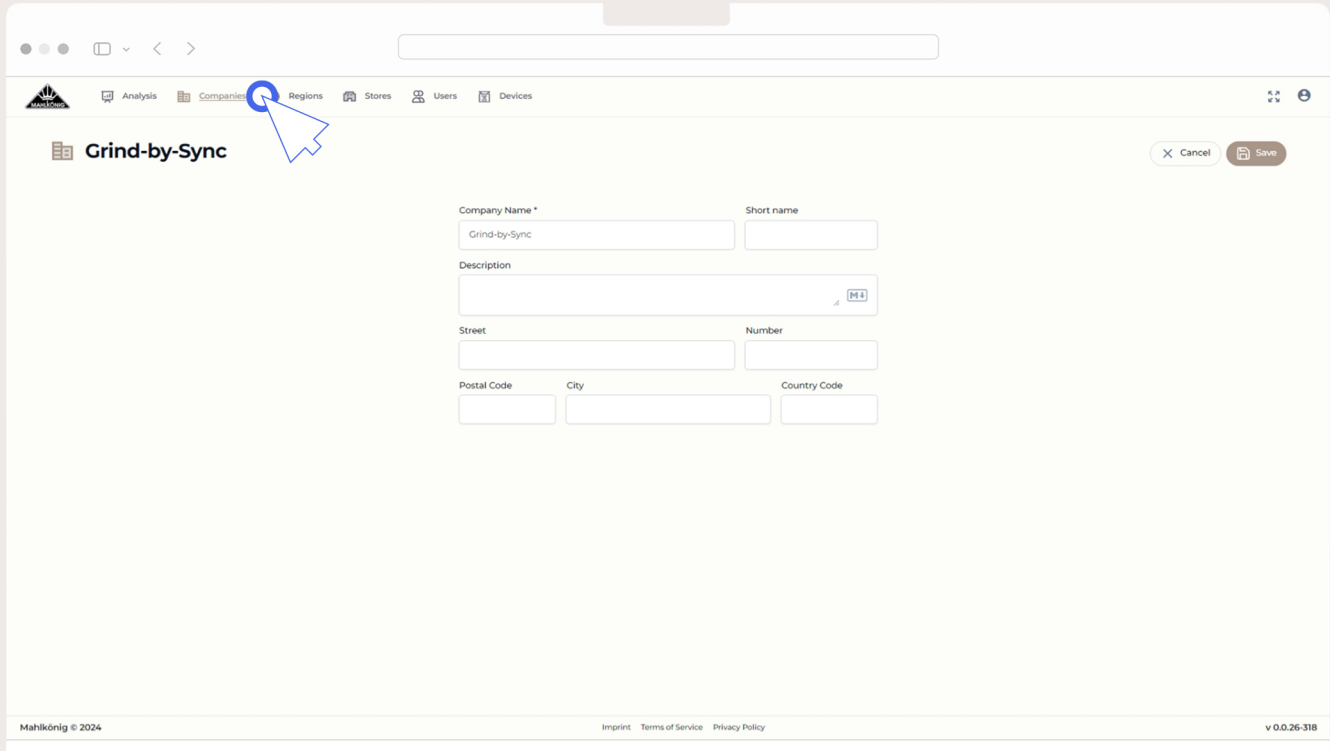
- Monitoring of grinders per firmware version:** A bar chart showing the number of grinders for four different firmware versions: 119777, 11215, 113995, and 19941. The y-axis ranges from 0 to 10.
- Monitoring of burr utilization across grinders:** A bar chart showing burr usage time [%] for the range 0-20. The y-axis ranges from 0 to 10.
- Monitoring of burr life across grinders:** A bar chart showing burr health [%] for the range 0-20. The y-axis ranges from 0 to 10.

A placeholder message in the bottom right corner states: 'Customization of dashboards will be available soon.' The footer contains 'Mahlkönig © 2024', 'Imprint Terms of Service Privacy Policy', and 'v 0.0.26-318'.

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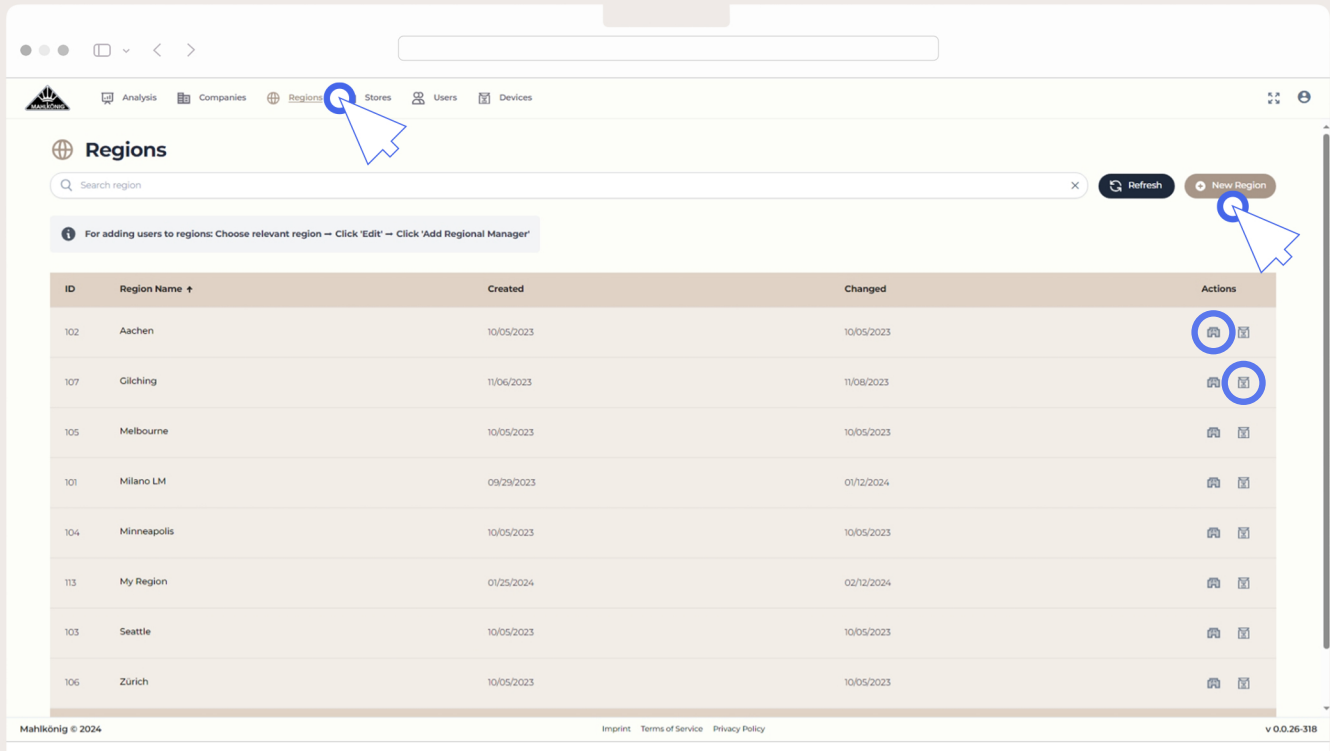
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## Companies Tab

Company Admin View  
(only available to company managers)





## Regions Tab

Regional Managers View (only editable by Company or Regional Manager)

**Regions**

Search region  Refresh New Region

**For adding users to regions: Choose relevant region – Click 'Edit' – Click 'Add Regional Manager'**

ID	Region Name ↑	Created	Changed	Actions
102	Aachen	10/05/2023	10/05/2023	
107	Gilching	11/06/2023	11/08/2023	
105	Melbourne	10/05/2023	10/05/2023	
101	Milano LM	09/29/2023	01/12/2024	
104	Minneapolis	10/05/2023	10/05/2023	
113	My Region	01/25/2024	02/12/2024	
103	Seattle	10/05/2023	10/05/2023	
106	Zürich	10/05/2023	10/05/2023	

**Region Details** Aachen

Details Edit

ID

Region Name Aachen

Short name

Description

Created 10/05/2023

Changed 10/05/2023

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//

The screenshot displays the 'Regions' management page in the Mahlkönig Sync Desktop Application. The interface includes a navigation bar with icons for Analysis, Companies, Regions, Stores, Users, and Devices. The main content area features a search bar, a 'Refresh' button, and a 'New Region' button, which is highlighted by a blue arrow. Below the search bar is a table listing existing regions with columns for ID, Region Name, Created, Changed, and Actions. A right-hand sidebar shows the 'Region Details' for 'Aachen', including fields for ID, Region Name, Short name, Description, Created, and Changed. A footer contains copyright information and version details.

**Regions**

Search region  Refresh

**For adding users to regions: Choose relevant region – Click 'Edit' – Click 'Add Regional Manager'**

ID	Region Name ↑	Created	Changed	Actions
102	Aachen	10/05/2023	10/05/2023	
107	Gilching	11/06/2023	11/08/2023	
105	Melbourne	10/05/2023	10/05/2023	
101	Milano LM	09/29/2023	01/12/2024	
104	Minneapolis	10/05/2023	10/05/2023	
113	My Region	01/25/2024	02/12/2024	
103	Seattle	10/05/2023	10/05/2023	
106	Zürich	10/05/2023	10/05/2023	

**Region Details** Aachen

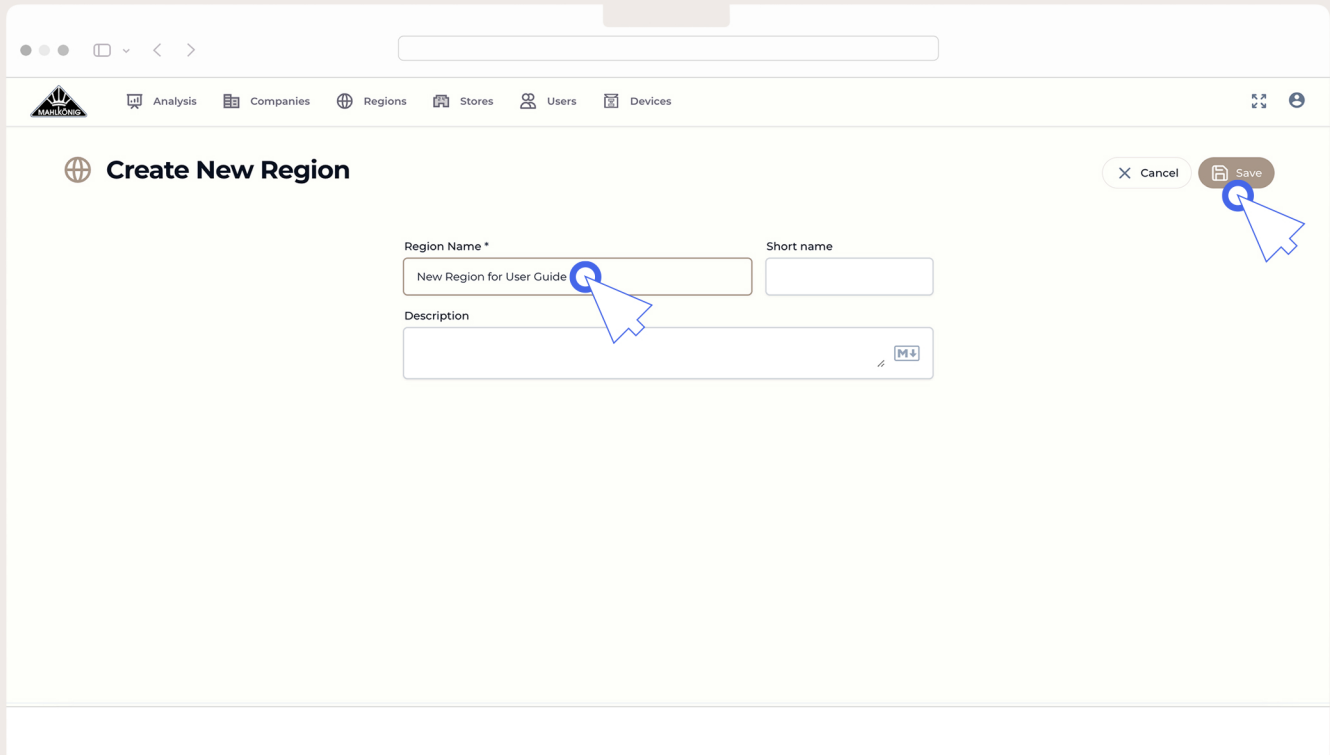
Details Edit

ID 102  
Region Name Aachen  
Short name  
Description  
Created 10/05/2023  
Changed 10/05/2023

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## Adding New Region

//



## Adding New Region

//

The screenshot displays the 'Regions' management interface in the Mahlkönig Sync Desktop Application. The main area features a table of regions with the following data:

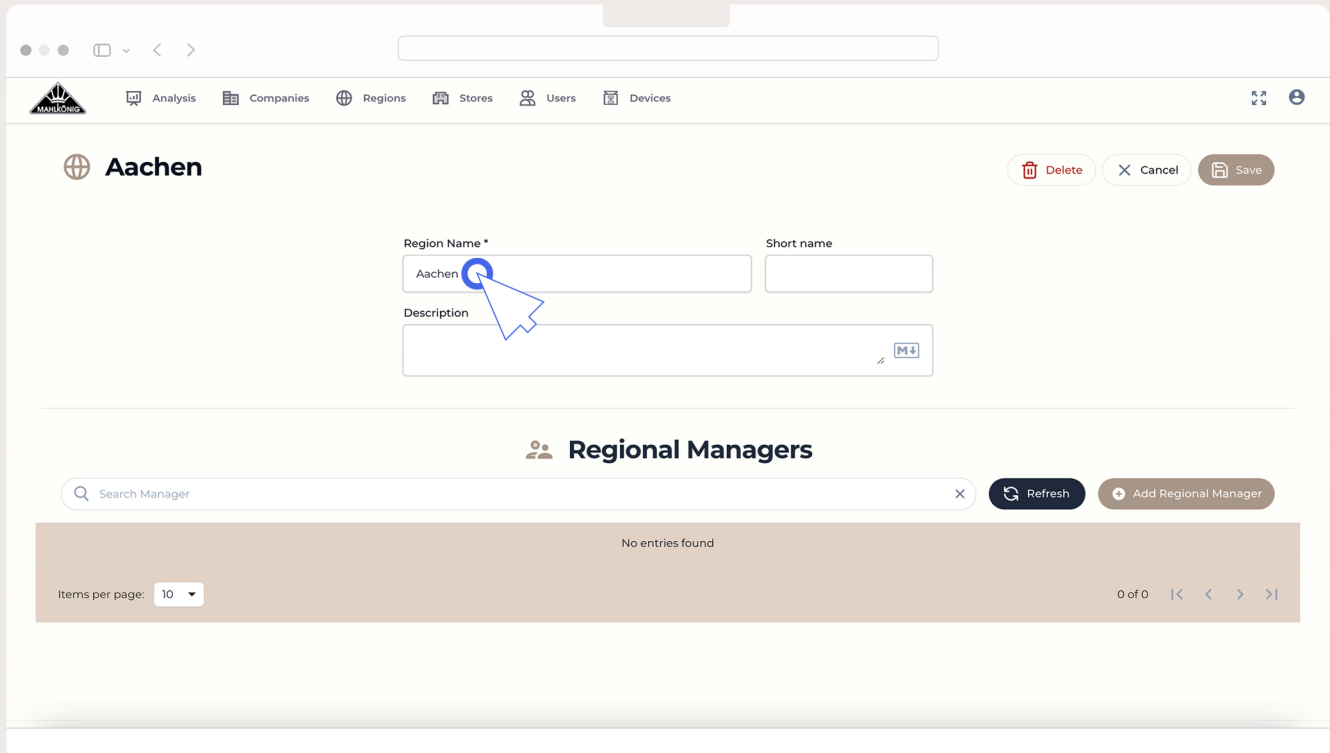
ID	Region Name	Created	Changed	Actions
102	Aachen	10/05/2023	10/05/2023	[Icons]
107	Gilching	11/06/2023	11/08/2023	[Icons]
105	Melbourne	10/05/2023	10/05/2023	[Icons]
101	Milano LM	09/29/2023	01/12/2024	[Icons]
104	Minneapolis	10/05/2023	10/05/2023	[Icons]
113	My Region	01/25/2024	02/12/2024	[Icons]
103	Seattle	10/05/2023	10/05/2023	[Icons]
106	Zürich	10/05/2023	10/05/2023	[Icons]

The 'Aachen' region (ID 102) is highlighted in blue. A right-hand sidebar shows the 'Region Details' for Aachen, with an 'Edit' button highlighted by a blue mouse cursor. The sidebar also displays fields for ID, Region Name, Short name, Description, Created (10/05/2023), and Changed (10/05/2023).

At the bottom of the application, the footer contains: Mahlkönig © 2024, Imprint, Terms of Service, Privacy Policy, and v 0.0.26-318.

## Editing Existing Region

//



## Editing Existing Region

**Regions**

Search region  Refresh New Region

**For adding users to regions: Choose relevant region -> Click 'Edit' -> Click 'Add Regional Manager'**

ID	Region Name ↑	Created	Changed	Actions
102	Aachen	10/05/2023	10/05/2023	
107	Gilching	11/06/2023	11/08/2023	
105	Melbourne	10/05/2023	10/05/2023	
101	Milano LM	09/29/2023	01/12/2024	
104	Minneapolis	10/05/2023	10/05/2023	
113	My Region	01/25/2024	02/12/2024	
103	Seattle	10/05/2023	10/05/2023	
106	Zürich	10/05/2023	10/05/2023	

**Region Details** Aachen

Details Edit

ID

Region Name Aachen

Short name

Description

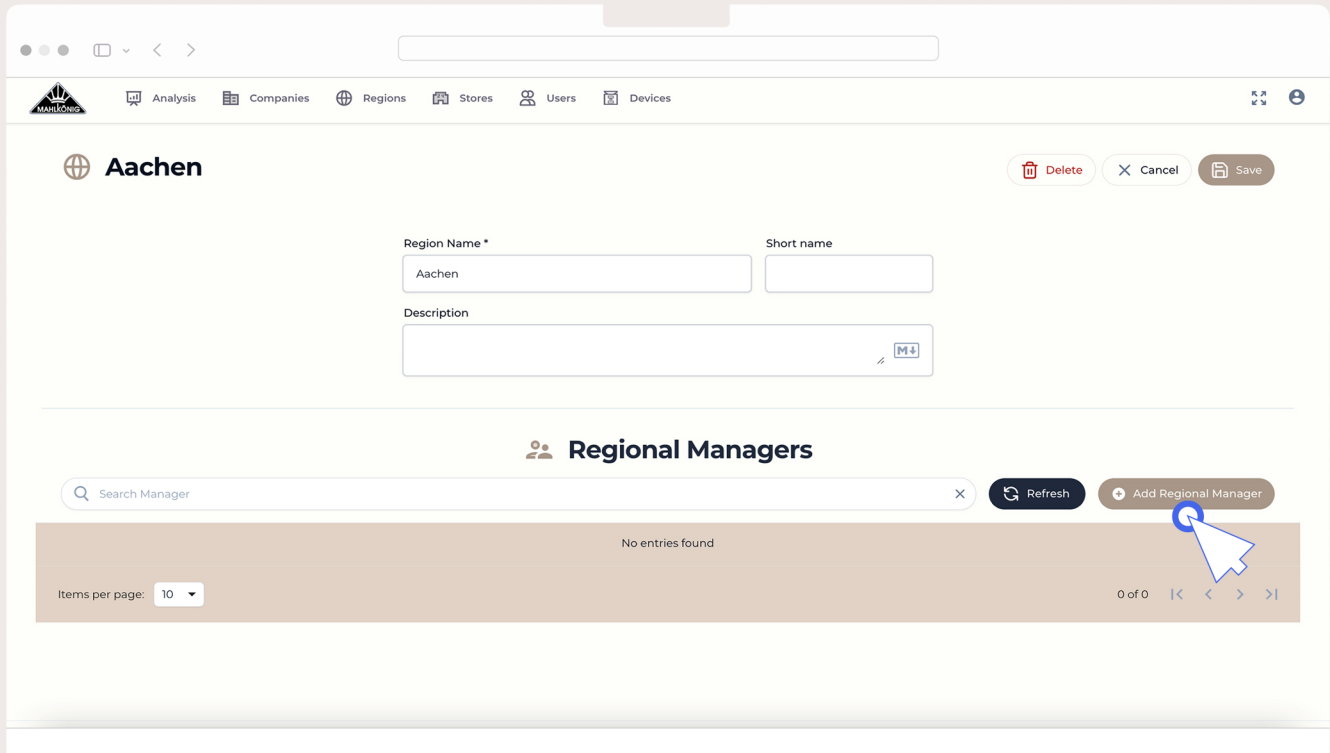
Created 10/05/2023

Changed 10/05/2023

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## Editing Region & Regional Managers

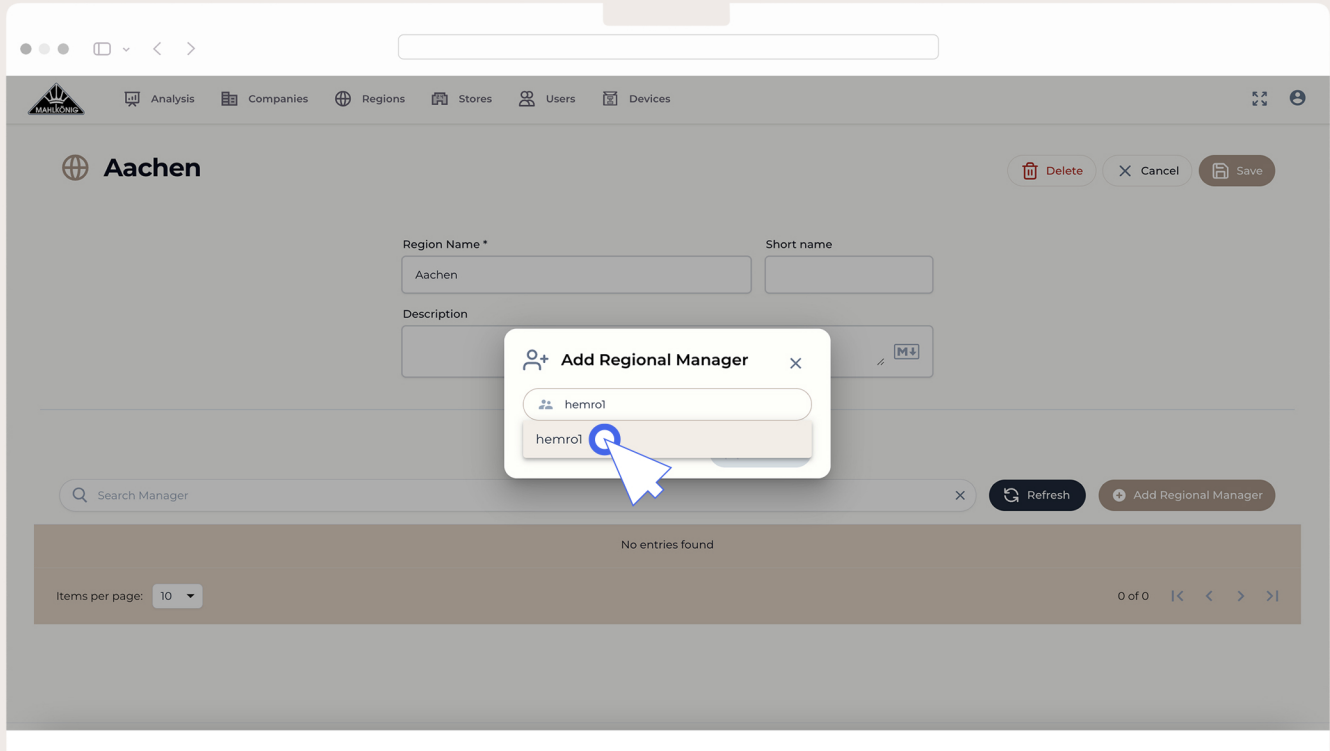
//



## Editing Region & Regional Managers

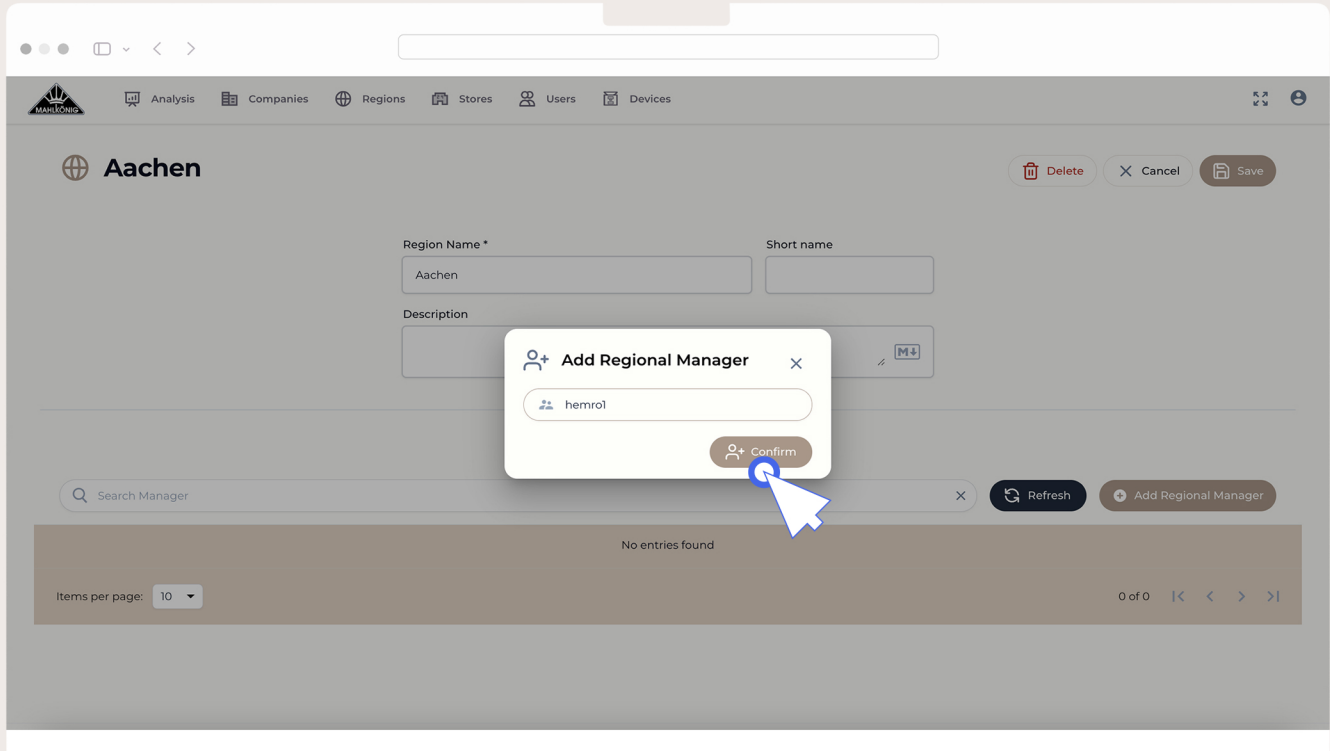


//



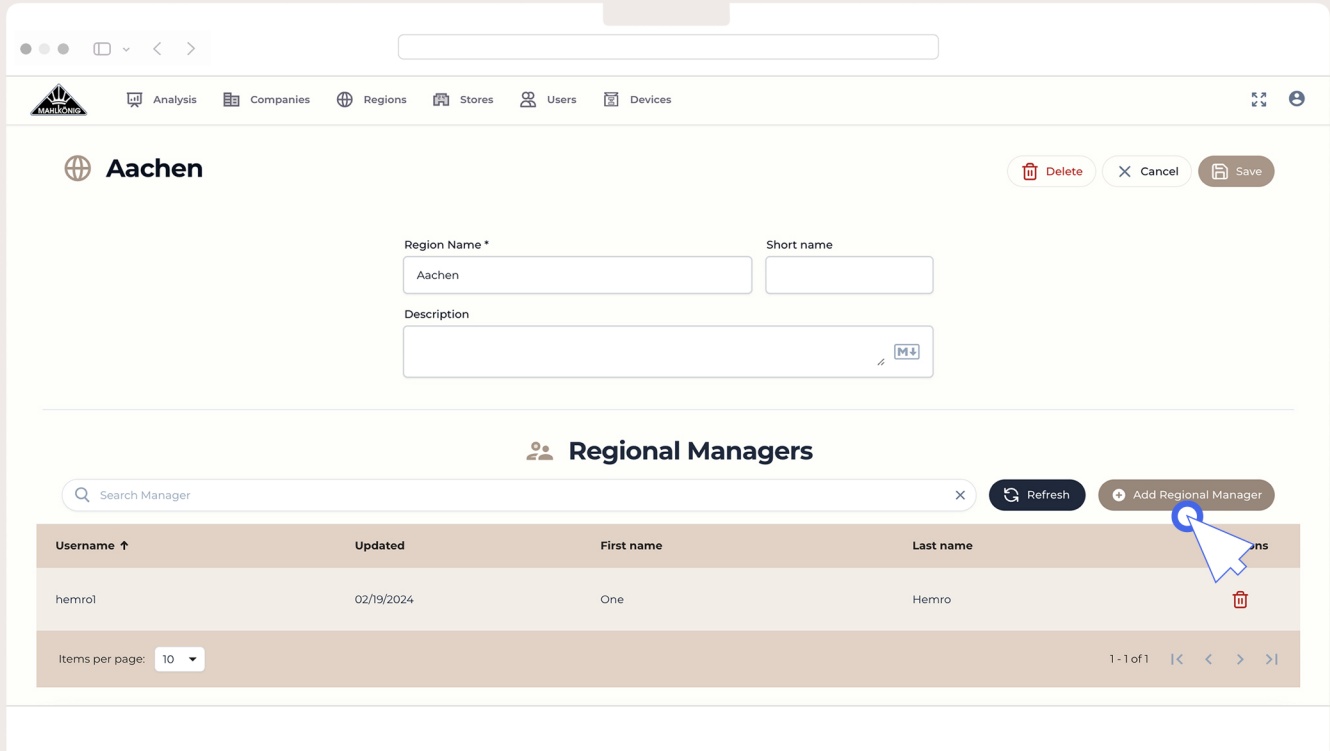
## Adding an Existing User as Regional Manager

//



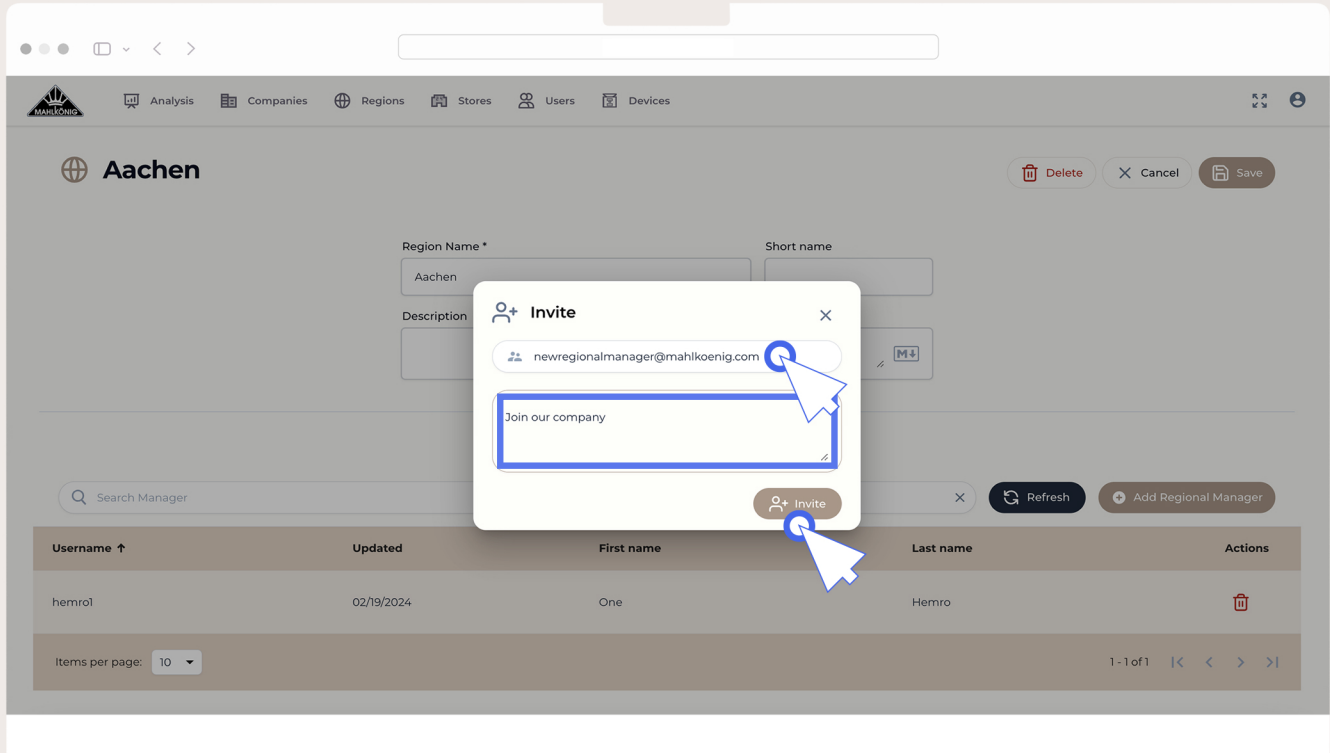
## Adding an Existing User as Regional Manager

//



## Inviting a New User as Regional Manager

//



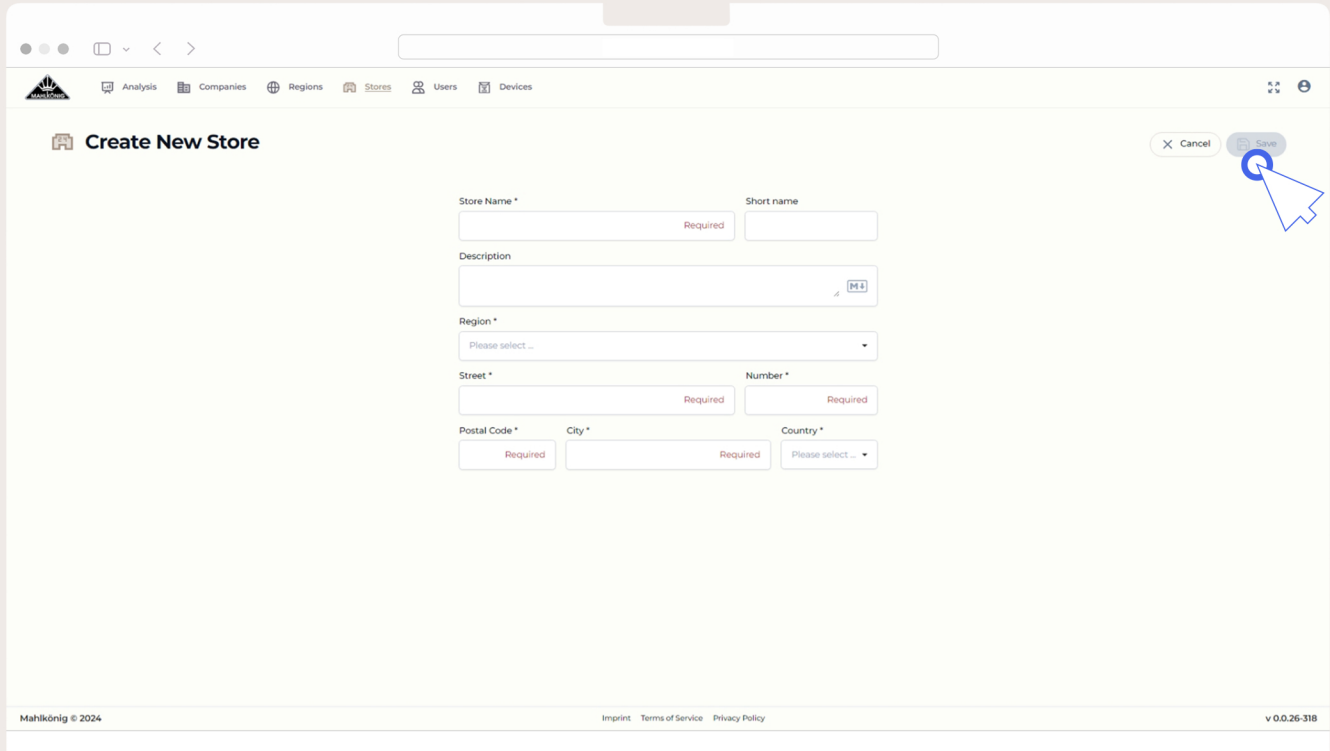
## Inviting a New User as Regional Manager

The screenshot displays the 'Stores' management page in the Mahlkönig Sync Desktop Application. The page features a navigation bar with icons for Analysis, Companies, Regions, Stores, Users, and Devices. A search bar is located at the top left, and a 'New Store' button is at the top right. A table lists various stores with columns for ID, Store Name, Region, Created, and Changed. The 'Actions' column contains edit icons. A blue circle highlights the 'New Store' button and the edit icon for the first store entry.

ID	Store Name ↑	Region	Created	Changed	Actions
111	Field Test AU	Melbourne	10/05/2023	12/04/2023	
117	Field Test AU - Hemro Sales	Melbourne	11/09/2023	12/08/2023	
112	Field Test AU	Melbourne	10/05/2023	12/04/2023	
107	Field Test IT - LM ACADEMY	Milano LM	10/05/2023	12/08/2023	
106	Field Test IT - LM FACTORY	Milano LM	10/05/2023	12/08/2023	
116	Field Test US - Hemro Sales	Seattle	11/09/2023	12/08/2023	
109	Field Test US - Partner1	Seattle	10/05/2023	12/08/2023	
110	Field Test US - Partner2	Minneapolis	10/05/2023	12/08/2023	

## Adding a New Store or Editing an Existing One

//



## Adding a New Store

//

The screenshot displays the 'Stores' management interface. At the top, there is a navigation bar with icons for Analysis, Companies, Regions, Stores, Users, and Devices. Below this is a search bar and a 'Region' dropdown menu. A 'Refresh' button and a 'New Store' button are also present. A notification banner reads: 'For adding users to stores: Choose relevant store → Click 'Edit' → Click 'Add Store Managers/Baristas''. The main area contains a table with the following data:

ID	Store Name ↑	Region	Created	Changed	Actions
111	Field Test AU	Melbourne	10/05/2023	12/04/2023	[Edit]
117	Field Test AU - Hemro Sales	Melbourne	11/09/2023	12/08/2023	[Edit]
112	Field Test AU	Melbourne	10/05/2023	12/04/2023	[Edit]
107	Field Test IT - LM ACADEMY	Milano LM	10/05/2023	12/08/2023	[Edit]
106	Field Test IT - LM FACTORY	Milano LM	10/05/2023	12/08/2023	[Edit]
116	Field Test US - Hemro Sales	Seattle	11/09/2023	12/08/2023	[Edit]
109	Field Test US - Partner1	Seattle	10/05/2023	12/08/2023	[Edit]
110	Field Test US - Partner2	Minneapolis	10/05/2023	12/08/2023	[Edit]

On the right, the 'Store Details' sidebar is open for 'Field Test AU'. It includes buttons for 'Details' and 'Edit'. A blue arrow points to the 'Edit' button. The sidebar also displays various fields: ID, Store Name, Short name, Description, Region (Melbourne), Created (10/05/2023), Changed (12/04/2023), Street, Number, Postal Code, City, and Country.

At the bottom of the application, there is a footer with 'Mahlkönig © 2024', 'Imprint Terms of Service Privacy Policy', and 'v 0.0.26-318'.

## Editing an Existing Store

//

The screenshot shows a web browser window displaying the 'Field Test AU' form. The browser's address bar is empty. The navigation menu at the top includes 'Analysis', 'Companies', 'Regions', 'Stores', 'Users', and 'Devices'. The form title is 'Field Test AU'. On the right side of the form, there are three buttons: 'Delete', 'Cancel', and 'Save'. The form fields are as follows:

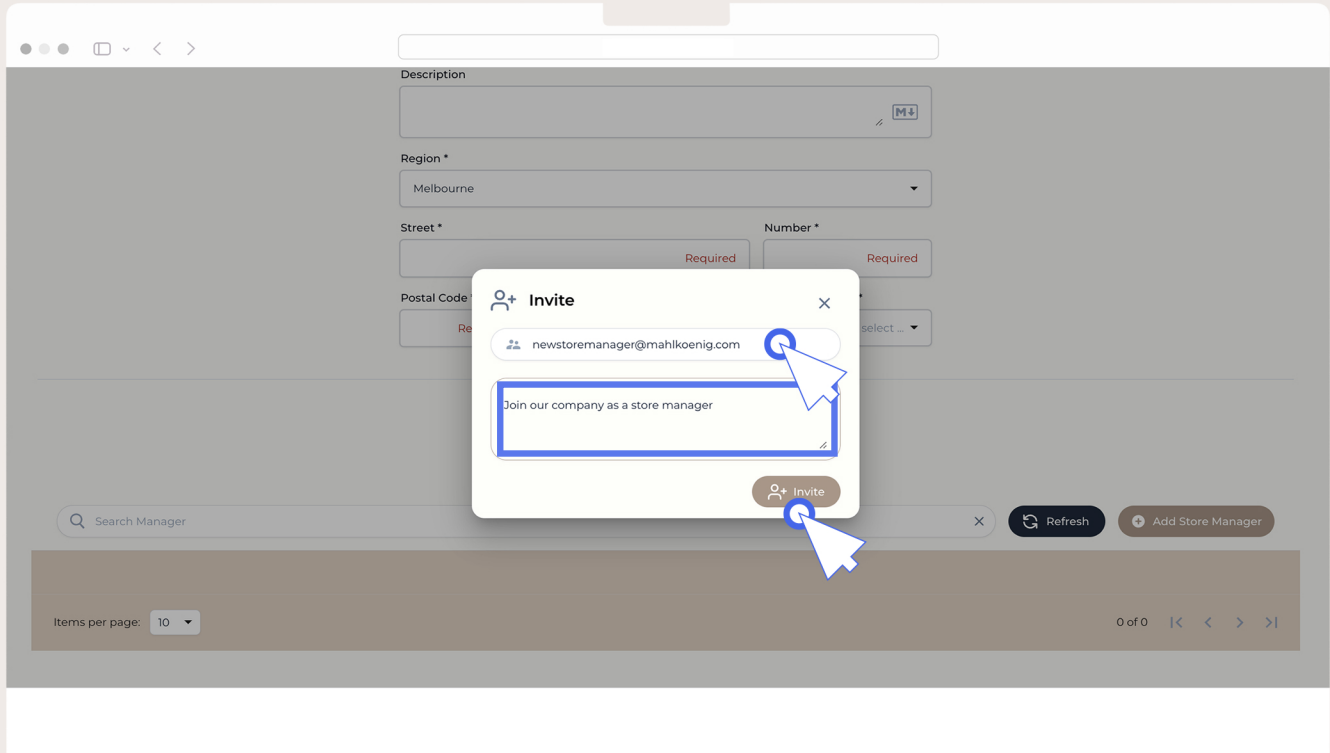
- Store Name \***: Input field containing 'Field Test AU'.
- Short name**: Empty input field.
- Description**: Text area with a rich text editor icon (M+).
- Region \***: Dropdown menu showing 'Melbourne'.
- Street \***: Input field with a red 'Required' label.
- Number \***: Input field with a red 'Required' label.
- Postal Code \***: Input field with a red 'Required' label.
- City \***: Input field with a red 'Required' label.
- Country \***: Dropdown menu with 'Please select ...'.

At the bottom of the form, there are two dark buttons with white text and pencil icons: 'Edit Store Managers' and 'Edit Baristas'. Blue mouse cursor icons are pointing to both buttons.

## Inviting a New User as Store Manager or Barista



//



## Inviting a New User as Store Manager or Barista

//

The screenshot displays a web application interface for adding a new user. At the top, there is a search bar. Below it is a form with the following fields:

- Description:** A text input field with a small icon on the right.
- Region \*:** A dropdown menu currently showing "Melbourne".
- Street \*:** A text input field with a red "Required" label below it.
- Number \*:** A text input field with a red "Required" label below it.
- Postal Code \*:** A text input field with a red "Required" label below it.
- City \*:** A text input field with a red "Required" label below it.
- Country \*:** A dropdown menu with "Please select ..." as the current selection.

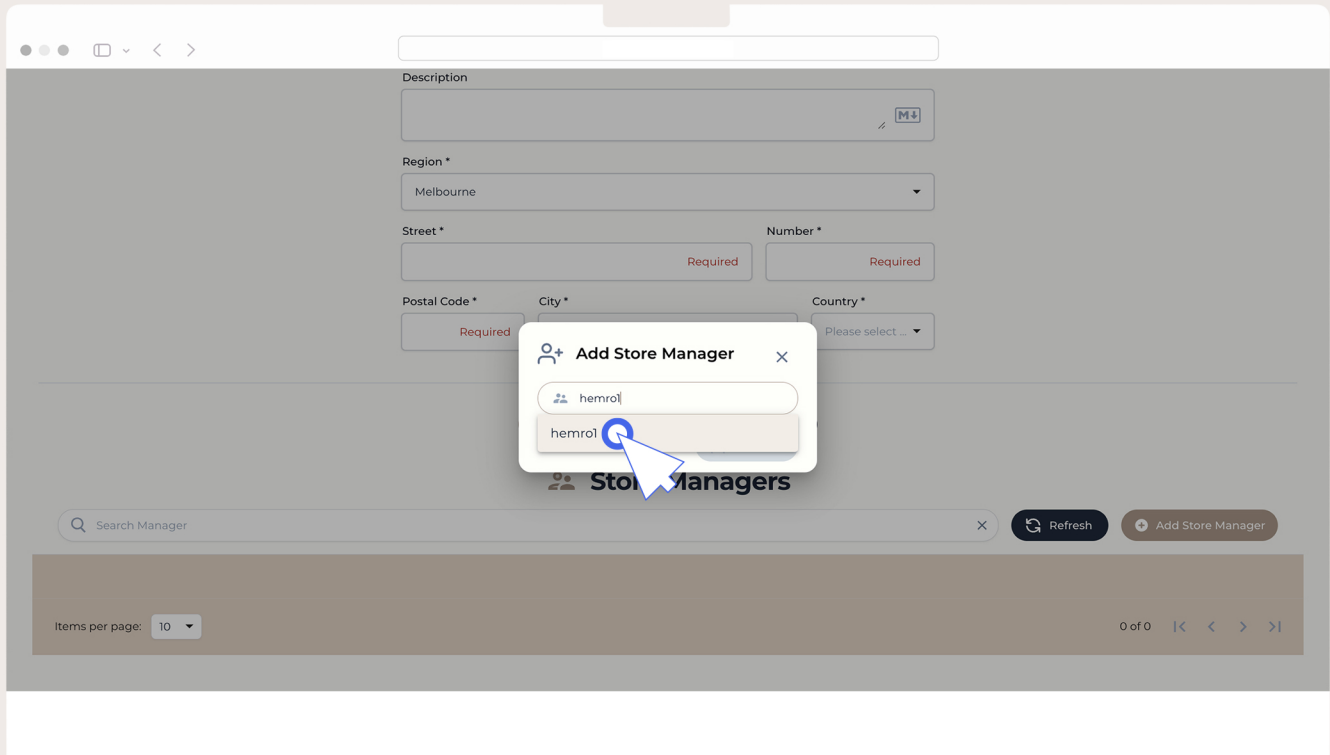
Below the form are two buttons: "Edit Store Managers" and "Edit Baristas".

The main section is titled "Store Managers" and features a search bar with the placeholder "Search Manager" and a close button (X). To the right of the search bar are two buttons: "Refresh" and "Add Store Manager". A blue mouse cursor is pointing at the "Add Store Manager" button.

At the bottom of the section, there is a pagination bar with "Items per page: 10" and a status "0 of 0" with navigation arrows.

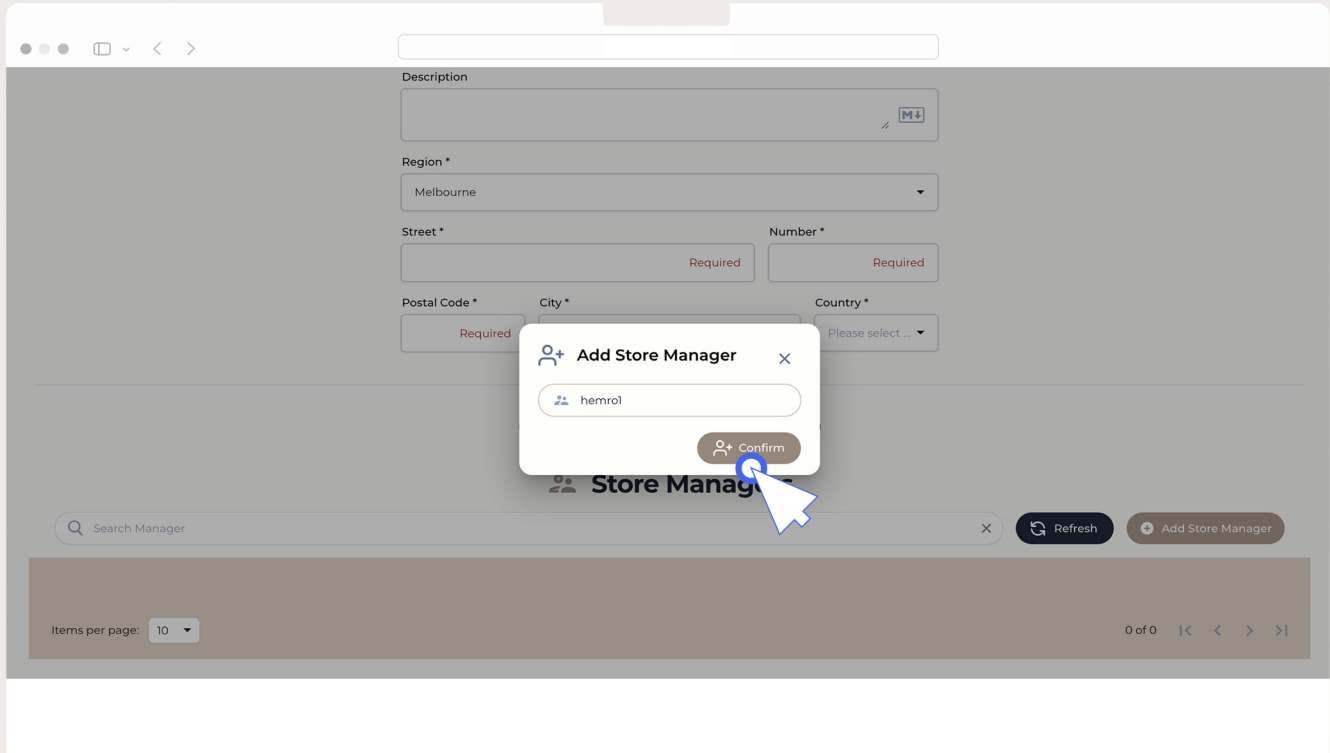
## Inviting a New User as Store Manager or Barista

//

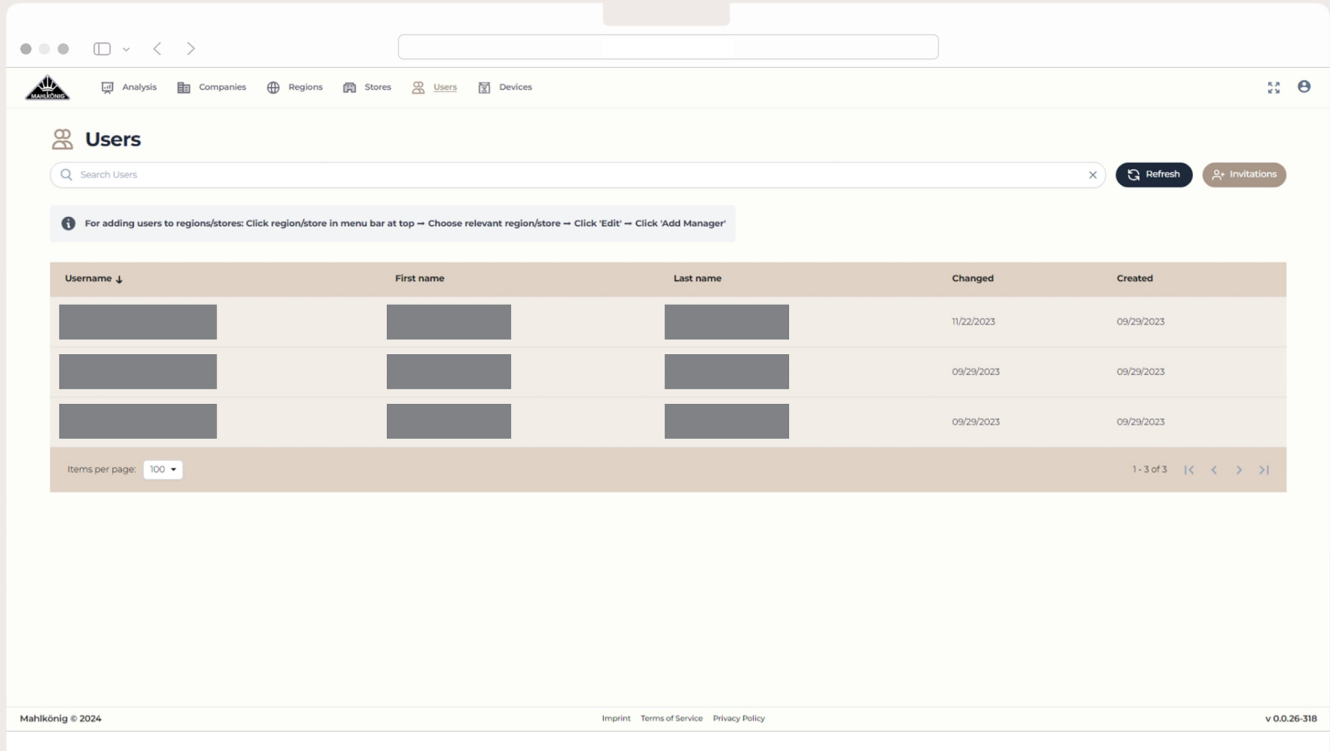


## Inviting an Existing User as Store Manager or Barista

//



## Inviting an Existing User as Store Manager or Barista



## Inviting or Editing Users Profiles

//

The screenshot displays the 'Users' management page in the Mahlkönig Sync Desktop Application. The page features a navigation bar with options like Analysis, Companies, Regions, Stores, Users, and Devices. A search bar is present at the top, along with 'Refresh' and 'Invitations' buttons. A table lists users with columns for Username, First name, Last name, Changed, and Created. A blue circle highlights the 'Edit' button in the 'User Details' sidebar, which is open on the right side of the screen. The sidebar shows fields for Username, First name, Last name, Changed, Created, Company, and Groups. A mouse cursor is pointing at the 'Edit' button.

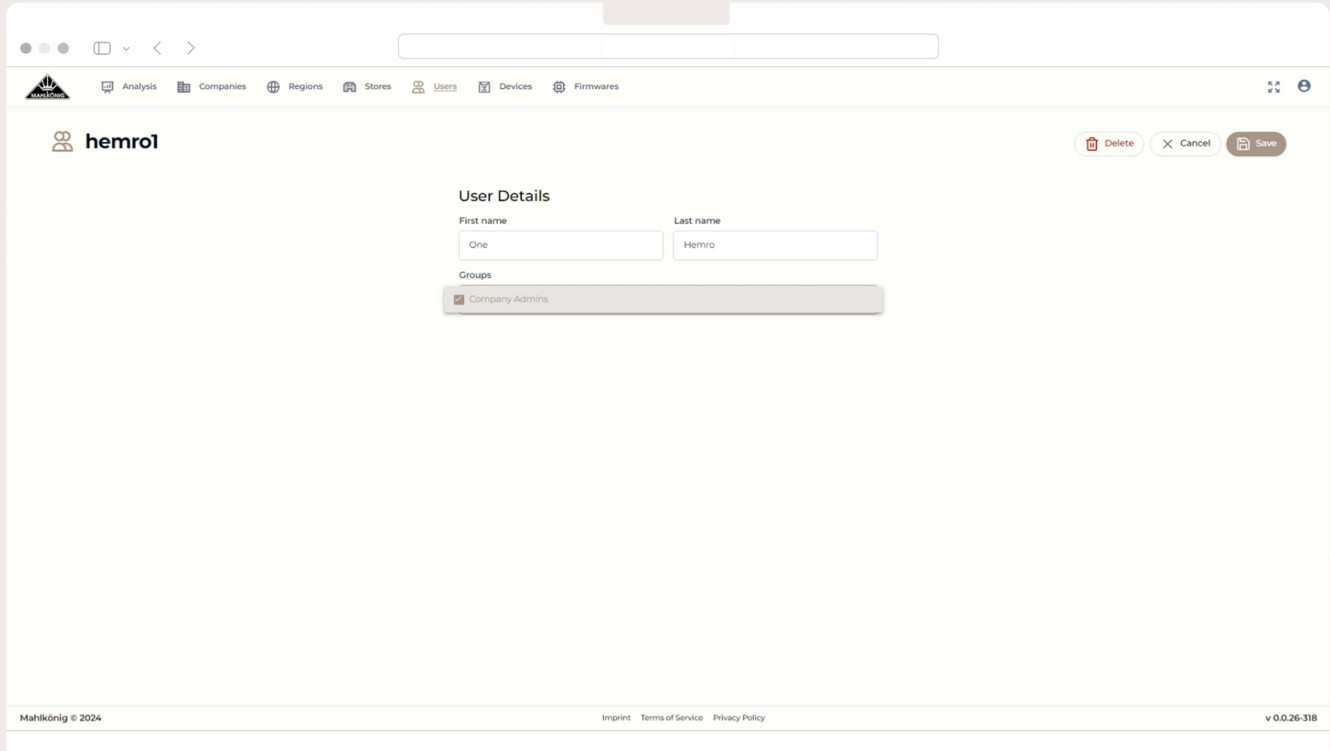
Username ↑	First name	Last name	Changed	Created
[Redacted]	[Redacted]	[Redacted]	09/29/2023	09/29/2023
[Redacted]	[Redacted]	[Redacted]	09/29/2023	09/29/2023
[Redacted]	[Redacted]	[Redacted]	11/22/2023	09/29/2023

Items per page: 100 | 1 - 3 of 3 | < > >|

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## Editing a User Profile

//



## Editing a User Profile

The screenshot displays the 'Devices' management interface. At the top, there is a navigation menu with icons for Analysis, Companies, Regions, Stores, Users, and Devices. Below this is a search bar labeled 'Search devices' and two dropdown filters for 'Region' and 'Store'. A 'Refresh' button and a 'New Device' button are also present. The main content is a table with the following columns: SN, HMI SN (with an upward arrow), HW Version, FW Version, Model, Subtype, Name, Assembly Date, First Online, Last Online, Store, Test Device (with a checkbox), and CBS Paired Device (SN). The table contains ten rows of device data. The row with SN 25F671 is highlighted with a blue border. The footer of the application shows 'Mahlkönig © 2024', 'Imprint', 'Terms of Service', 'Privacy Policy', and 'v 0.0.26-318'.

SN	HMI SN ↑	HW Version	FW Version	Model	Subtype	Name	Assembly Date	First Online	Last Online	Store	Test Device	CBS Paired Device (SN)
	25F66B		10.9.941			EBOW CbS - 780909		10/09/2023	02/02/2024	Field Test AU	<input checked="" type="checkbox"/>	KB002846
	25F66E		10.11.977			EBOW CbS - LM Field Test USA2		11/22/2023	01/19/2024	Field Test US - Hemro Sales	<input checked="" type="checkbox"/>	PB042095
	25F671		10.7.920			EGSW CbS - 651945		11/09/2023	11/22/2023	R&D Hemro	<input checked="" type="checkbox"/>	
	25F672		10.7.920			EBOW CbS - 702735 (Missing)		10/05/2023	11/22/2023	R&D Hemro	<input checked="" type="checkbox"/>	PB038238
	25F674					EBOW CbS - Oliver		11/09/2023	never	R&D Yukawa	<input checked="" type="checkbox"/>	
	25F675		10.11.971			EBOW CbS - 762270		10/05/2023	02/14/2024	Field Test AU	<input checked="" type="checkbox"/>	KB002846
	25F679					EBOW CbS - Oliver		11/09/2023	never	R&D Yukawa	<input checked="" type="checkbox"/>	
	25F67C		10.11.977			EBOW CbS - Hemro Sales Office		10/05/2023	02/12/2024	Field Test US - Hemro Sales	<input checked="" type="checkbox"/>	
	25F67E		10.7.933			EBOW CbS - 751190		11/07/2023	12/05/2023	R&D Hemro	<input checked="" type="checkbox"/>	

## Editing Device Info

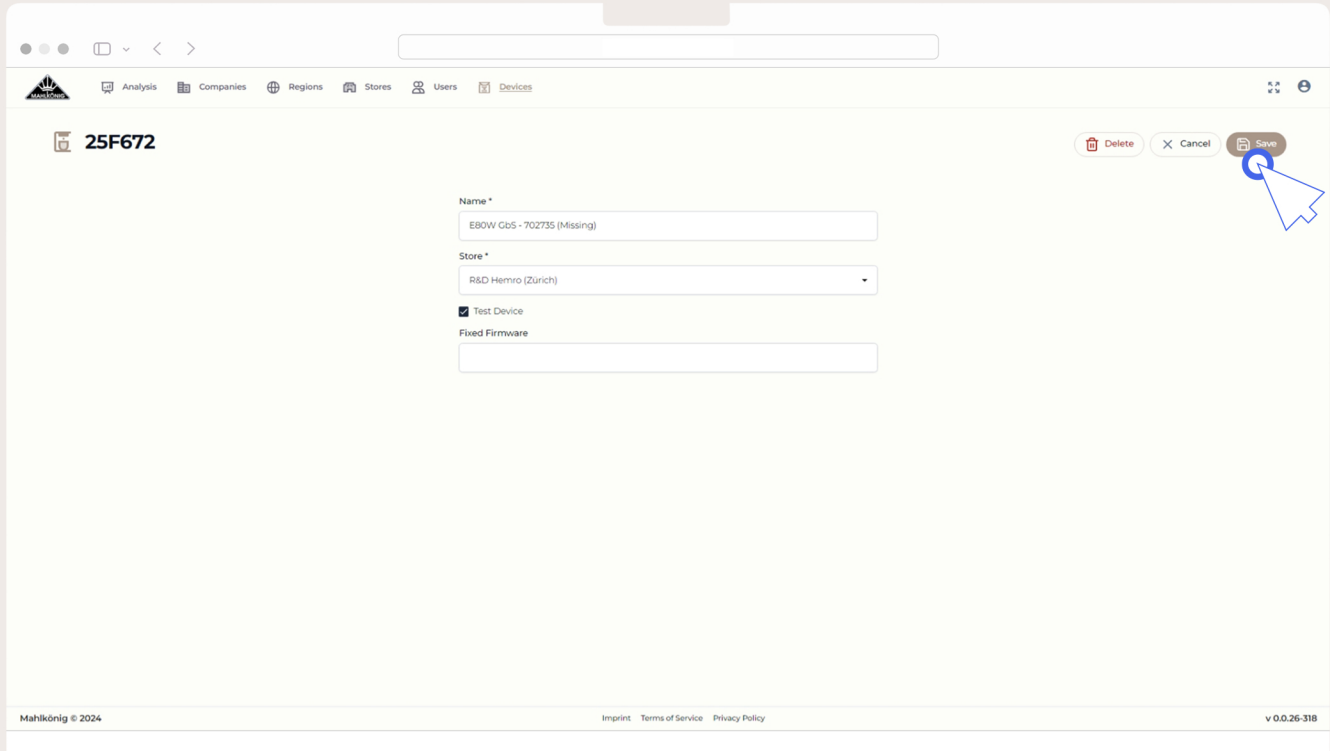


The screenshot displays the Mahlkönig Sync Desktop Application interface. At the top, there is a navigation bar with icons for Analysis, Companies, Regions, Stores, Users, and Devices. The main content area is titled "Devices" and features a search bar, filters for Region and Store, and buttons for Refresh and New Device. Below this is a table listing various devices with columns for SN, HMI SN, HW Version, FW Version, Model, Subtype, Name, Assembly Date, First Online, Last Online, Store, Test Device, and CbS Paired Device (SN). The device with SN 25F671 is highlighted in brown. To the right of the table, a "Device Details" panel is open for device 25F671, showing fields for SN, HMI SN, HW Version, Last Online, FW Version, Model, Subtype, Name, Assembly Date, First Online, Store, Test Device, Production Date, Region, CbS Paired Device (SN), Fixed Firmware, and Changed. An "Edit" button with a pencil icon is visible in the top right of the details panel, with a blue arrow pointing to it.

SN	HMI SN	HW Version	FW Version	Model	Subtype	Name	Assembly Date	First Online	Last Online	Store	Test Device	CbS Paired Device (SN)
25F66B			10.9.941			EBOW CbS - 7B0909		10/09/2023	02/02/2024	Field Test AU	<input checked="" type="checkbox"/>	KB002846
25F66E			10.11.977			EBOW CbS - LM Field Test USA2		11/22/2023	01/19/2024	Field Test US - Hemro Sales	<input checked="" type="checkbox"/>	PB042095
25F671			10.7.920			E65W CbS - 651945		11/09/2023	11/22/2023	R&D Hemro	<input checked="" type="checkbox"/>	
25F672			10.7.920			EBOW CbS - 70Z735 (Missing)		10/05/2023	11/22/2023	R&D Hemro	<input checked="" type="checkbox"/>	PB038238
25F674						EBOW CbS - Oliver		11/09/2023	never	R&D Yukawa	<input checked="" type="checkbox"/>	
25F675			10.11.971			EBOW CbS - 76Z270		10/05/2023	02/14/2024	Field Test AU	<input checked="" type="checkbox"/>	KB002846
25F679						EBOW CbS - Oliver		11/09/2023	never	R&D Yukawa	<input checked="" type="checkbox"/>	
25F67C			10.11.977			EBOW CbS - Hemro Sales Office		10/05/2023	02/12/2024	Field Test US - Hemro Sales	<input checked="" type="checkbox"/>	
25F67E			10.7.933			EBOW CbS - 751190		11/07/2023	12/05/2023	R&D Hemro	<input checked="" type="checkbox"/>	

## Editing Device Info

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## Saving Device Info

