

LinxData.Adm Version 1.1

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- To you, the user, for choosing LinxData.Adm and trusting our solution for managing and monitoring your devices.
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We believe this manual will be a useful tool for you to make the most of LinxData.Adm's features and optimize your operations.



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Introduction

LinxData is a comprehensive device management and monitoring platform designed to meet the needs of companies and organizations looking to optimize their operations and ensure the security of their assets. With advanced data collection and analysis capabilities, LinxData allows you to track the performance of your devices in real time, identify problems and make strategic decisions to improve efficiency and reduce costs.

This user manual aims to guide you through the main functionalities of LinxData, from accessing the system to creating and managing users, devices and events. It was designed to cater to different user profiles, such as administrators, operators, managers and technicians, providing clear and detailed information on how to use the system efficiently and safely.

Throughout this manual, you will find step-by-step instructions, illustrative images, and helpful tips to make the most of LinxData and transform the way you manage your devices.



Summary

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1 Basic Operations

This section describes the basic operations that you can perform on various LinxData.Adm pages, such as creating, editing, deleting and exporting records, as well as explaining the standard interface of these pages.

1.1 List View

When you access a page that lists records (such as the Countries page), you will see a table with the most relevant information for each record.

At the end of each row of the table, in the "Action" column, you will find buttons to Edit (Blue pencil) and Delete (Red Trash) the record.



Countries Page



You can click the column headers to sort the records ascending or descending. By clicking once, the sorting will be ascending (AZ or 0-9). By clicking again, the sorting will be descending (ZA or 9-0). You can click multiple times to switch between the two sorting ways.



1.2 Editing Records

To Edit a record, click the pencil icon (blue) in the "Action" column. A window will open displaying all registry information. You can change the desired fields and click "Save" to confirm the changes.

Countries					
+ CREATE C	REFRESH DE EXPORT		Q Search		
Country	Country Code	Flag Code	Active		
Brasil	1086	BR.png	Yes		
Uruguay	ন্ত Update Country		×		
USA	Identification 507a8c08-7660-4748-9f78-093cf1ed9785	Country Name Brasil			
	Country Code	Flag Code BR.png			
	✓ Active ✓ Updated				
			CANCEL UPDATE		

Edit Records

1.3 Deletion of Records

To delete a record, click the Trash icon (red) in the "Action" column. A Confirmation window will appear, asking if you are sure you want to delete the item. Click "Confirm" to delete the record or "Cancel" to return to the list.

tO		the			lis
Countries					
+ CREATE C REFI	RESH 💽 EXPORT			Q Search	
Country	Country Code	Flag Code		Active	
Brasil	1086	BR.png		Yes	
Uruguay	8451	uy.png		Yes	
USA	2496	e Confirmation	×	Yes	
	Are You Sure	You Want To Delete This Item? CAI	NCEL CONFIRM		



Confirm Delete



1.4 Creating New Records

To create a new record, click the "Create" button located above the table. A window similar to the editing window will open, but with blank fields. Fill in the fields with the new record information and click "Save" to create the record.

Countries					
+ CREATE C	REFRESH EXPORT		Q Search		
Country	Country Code	Flag Code	Active		
Brasil	1086	BR.png	Yes		
Uruguay USA	+ Add Country		×		
	Country Name	Country Code			
	Country Name is Required	Country Code is Required			
	Flag Code None.png	C Active Updat	ted		
			CANCEL SAVE		

Create Record

1.5 Other Options

In addition to the "Create", "Edit" and "Delete" buttons, the pages have buttons for:

- **Refresh:** Updates the list of records on the page.
- **Export:** Exports the list of records to an Excel file.

1.6 Standard Page Interface

LinxData.Adm pages follow an interface standard to facilitate navigation and use of the system. The most common elements are:

- Side menu: Allows you to navigate between different sections of the system.
- Action Buttons: Contains buttons to perform actions such as Create, Edit, Delete, Refresh and Export records.
- **Records table:** Displays records in table format, with columns for each relevant information.



- **Pagination:** Allows you to navigate between pages in the record list if there are too many records to be displayed at once.
- Filters and search: Allows you to filter and search for specific records in the list.
- **Translation icon:** Allows you to change the system interface language (see section 1.7 for more details).

1.7 Translation (All Profiles)

LinxData.Adm supports multiple languages, allowing users to customize the system interface according to their preferences. Currently, the system supports the following languages:

- English (United States)
- Portuguese Brazil)
- Simplified Chinese (PRC)
- Japanese
- Spanish (Mexico)
- Russian
- Serbian (Cyrillic)
- French
- Korean

1.7.1 Changing the Language

To change the LinxData.Adm language, follow the steps:

- 1. **Click on the translation icon:** In the top bar of the system, locate the translation icon (a globe) and click on it. [Image of translation icon]
- 2. Choose language: In the drop-down menu that appears, select the desired language.

[Image of language drop-down menu]

3. **Confirm the change:** The system will reload the page and display the interface in the selected language.

1.7.2 Translation Files

LinxData.Adm uses text files in YAML format to store translations for each language. These files are simpler to use than XML files and facilitate the translation process and system maintenance.





Example English translation file (en-US.yml):

About: About AboutL1: Linx Data Admin AboutL1Cli: Linx Data Client AboutL2: Version AboutL3: Copyright - 2023 - by Armando Ketzer & Luiz Pires Abbreviation: Abbreviation AbbreviationReq: Abbreviation is Required Account: Account # ... (other terms and translations)

Example of a Portuguese translation file (pt-BR.yml):

About: Sobre AboutL1: Linx Data Admin AboutL1Cli: Linx Data Cliente AboutL2: Versão AboutL3: Copyright - 2023 - por Armando Ketzer & Luiz Pires Abbreviation: UF AbbreviationReq: UF é Obrigatório Account: Conta # ... (other terms and translations)

Observation:

- The system translation is based on the AKSoftware library, which offers features to manage and apply translations in different parts of the system.
- Translation files can be edited to add new terms or correct existing translations.

With this translation functionality, LinxData.Adm becomes more accessible and easier to use for users from different countries and cultures.



2 Login and System Access

To access LinxData.Adm, follow the steps below:

2.1 Access the address:

Open your internet browser and type the following address in the address bar: <u>https://LinxDataadm.3sys.com.br</u>

2.2 Click "Sign in":

On the home page, find the "Sign In" button in the top right corner of the screen and click it.



Home Page without User



2.3 Complete the login form:

On the login page, enter your email and password in the corresponding fields.

2.4 Click "Sign In":

After filling in the fields, click the "Enter" button to access the system.

Linx Data Sign In	a			
Don't have an account? Sign Up				
Email Izpires@gmail.com				
Password				
	Ø			
Remember me	Forgot Password?			
SIGN IN				
Insert your Login and Password, then click Sig	n In.			



Login Form



2.5 Home page:

If login is successful, you will be redirected to the LinxData.Adm home page. There, you will see the menu for accessing system functions, according to your profile, and your username in the top right corner.



Home with User Login

Comments:

- Make sure you enter the correct email and password. If you forget your password, click the "I forgot my password" link to recover it.
- The access menu displayed on the home page varies depending on your user profile. Each profile has different permissions to access system functionalities.
- If you have questions about using LinxData.Adm, see the rest of this manual or contact technical support.

Next steps

Now that you are logged into the system, you can start using the available features according to your profile. See the following sections of this manual for detailed information about each function.



3 Security (Admin Profile)

The Security section in LinxData.Adm allows users with an **Admin profile** to manage security-related aspects of the system, such as users, access profiles and device tokens.

3.1 Users

The "Users" section in LinxData.Adm allows you to manage the system's users, including creating, editing, deleting and viewing information about each user. Each user is associated with an access profile, which determines their permissions and functionalities within the system.

3.1.1 User View

The Users page displays a list of all users registered in the system, with their respective information.

· > C •	localhos	st:7252/pages/security/	lusers				x 🛙 Q 🛧 🌘
Adm	in	≡					え。 Hello, admin! Logout
inx data		Users					
Home	•	+ CREATE	REFRESH 🔀 EXPORT		Q Search		
Devices Services	• •	User Name	Name	Email	Email Confirmed	Active	Actions
Administration	-	00000001	Device 1 Servidata	00000001@servid ata.net.br	Yes	Yes	/ =
) Localization) Security	•	00000002	Device 2 Servidata	2@servidata.net.br	Yes	Yes	/ =
≔ Users		00000003	Device 3 Servidata	3@servidata.net.br	Yes	Yes	× =
i≡ Roles →] DeviceToken		00000004	Device4 Servidata	4@servidata.net.br	Yes	Yes	/ 1
t Utility	•	00000005	Device 5 Servidata	5@servidata.net.br	Yes	Yes	/ 1
About		00000006	Device 6 Servidata.net.br	6@servidata.net.br	Yes	Yes	× 1
		00000007	Device 7 Servidata	7@servidata.net.br	Yes	Yes	× 1
		80000000	Device 8 Servidata	8@servidat.net.br	Yes	Yes	/ =
		00000009	Device 9 Servidata	9@servidata.net.br	Yes	Yes	× 1
		00000010	Device 10	10@servidata.net.br	Yes	No	1

Users Page



The user list includes information such as:

- Name: User's full name.
- Username: Username used to log in to the system.
- Email: User's email address.
- Profile: Access profile associated with the user.
- Active: Indicates whether the user is active in the system (Yes/No).
- Actions: Buttons to edit or delete the user (only available for users with an Admin profile).

You can use the search field to filter the list of users by name, username or email.

3.1.2 Creating and Editing Users

To create a new user or edit an existing user, follow these steps:

1. Click "New" or the edit icon (pencil): On the Users page, click the "New" button to create a new user or the pencil icon in the row of the user you want to edit.

Users						
+ CREATE C R	EFRESH 🖹 EXPORT			с	X Search	
User Name	Name	Email		Email Confirmed		Active
00000001	+ Add User				×	Yes
00000002	User Name		Email			Yes
00000003	User Name is Required		Email is Required			Yes
00000004	Name Name is Required		SelectRole		•	Yes
0000005	Email Confirmed	- Active	 Create Person 			Yes
00000006						Yes
00000007	Password	Ø	Confirm Password		Ø	Yes
80000008				CANCEL	UPDATE	Yes
00000009	Device 9 Servidata	9@servidata.net.	br	Yes		Yes

User Creation/Edit Form



- Fill in the fields:
 - Name: Enter the user's full name.
 - **Username:** Enter a unique username for the user.
 - Email: Enter the user's email address.
 - **Password:** Enter a strong and secure password for the user (see Notes below).
 - **Confirm Password:** Confirm the entered password (optional for editing).
 - **Profile:** Select the access profiles that will be assigned to the user.
 - Active: Select the "Active" checkbox so that the user can access the system.
 - Click "Save": To finish creating or editing the user.

Select the access profile: Click on Select Profile and choose the appropriate access profiles for the user.

Users				
+ CREATE C REF	RESH 🛛 EXPORT		Q Search	
User Name	+ Add User		×	Active
00000001	' User Name	Email	_	Yes
00000002	Izpires@gmail.com	lzpires@gmail.com		Yes
00000003	Name Luiz Pires	SelectRole Admin, Client, Commercial	*	Yes
00000004	🗹 Email Confirmed 🗹 Active	✓ Create Person		Yes
00000005	Password	Confirm Password		Yes
00000006	Password length must be at least 8	••• Password length must be at least 8	Ø	Yes
00000007	Pass word must contain at least one uppercase letter Pass word must contain at least one number Pass word must contain at least one (!?*.)	Password must contain at least one uppercase letter Password must contain at least one number Password must contain at least one (1?*.) Password and Confirm Password don't Match		Yes
0000008		CANCEL	UPDATE	Yes
00000009	Device 9 Servidata 9@ servidata.net.	br Yes		Yes

Select access profiles



Comments:

- Admin User: The Admin user is automatically created when the system is first installed and cannot be deleted.
- **Devices Users:** Devices users are created to represent the physical devices that connect to the system. They have a standardized username and a specific access profile.
- **Individuals:** When creating an individual user, a corresponding record is created in the Persons table, with the user's basic information.

Be careful when deleting users, as this action is irreversible and may affect the functioning of the system.

- The user's email will be used to log in to the system.
- The username must be the email.
- The password must be strong:
 - The length of the Password must be at least 8
 - The password should contain at least 1 uppercase character
 - The password must contain at least one lowercase letter
 - The password must contain at least one (!? *.)
- The access profile will determine the functionalities and actions allowed to the user.

3.1.3 Deletion of Users

To delete an existing user, follow the steps described in the "Basic Operations" section of this manual.

The "Admin" profile can edit information, change access profiles and deactivate users on the Users page.



3.2 Roles

The "Roles" section in LinxData.Adm allows you to manage the system's access roles, defining the permissions and functionalities of each role. Each role determines which areas of the system a user can access and what actions they can perform.

3.2.1 Viewing Roles

The Roles page displays a list of all profiles registered in the system, with their respective permissions.

ServData.Adm	× +	- 0
← → C 😑	pcalhost:7252/pages/security/roles	ତन 🔤 ବ୍ 🕁 🌍
Admin		荥, Hello, admint Logout [
linx data	Roles	
Home	+ CREATE C REFRESH	Q Search
	Name	Actions
Administration	▪ Admin	/ 1
~	Client	× •
i≡ Users	Commercial	× •
:≡ Roles → DeviceToken	Device	× •
🕽 Utility	▼ Employee	× •
About	Engineer	/ 1
	Financial	/ •
	Manager	/ 1
	Operator	/ •
	User	/ 1
		Rows per page 10 ▼ page 1-10 of 10 < < >>)

Profiles Page

The profile list includes information such as:

- Role Name: The name of the role(e.g. "Admin", "Manager", "Operator").
- **Permissions:** A brief description of the permissions granted by the role.
- Actions: Buttons to edit or delete the role (only available for users with an Admin role).

You can use the search field to filter the list of roles by name.



3.2.2 Creating and Editing Roles

To create a new role or edit an existing profile, follow these steps:

1. Click "New" or the edit icon (pencil): On the Roles page, click the "New" button to create a new profile or the pencil icon in the row of the profile you want to edit.

+ Add Role			>
Name			
		CANCEL	SAV

Role Creation/Editing Form

- 2. Fill in the fields:
 - **Name:** Enter a descriptive name for the role.
- 3. Click "Save": To finish creating or editing the role.

3.2.3 List of Roles in use in LinxData

Access profiles determine the permissions and functionalities of each user in LinxData.Adm. The available profiles are:

- Admin: Full access to all functions.
- **Client:** Access only to the LinxData.Cli application.
- Commercial: Access to the commercial area (under development).
- Device: Access to monitoring via ESP32 microchips.
- Employee: Access to basic functions.
- Engineer: Access only to the LinxData.Tec application.
- Financial: Access to financial functions (under development).
- **Manager:** Access to managerial functions.
- **Operator:** Basic operation functions.
- User: Minimum access, for registered users, but without a defined role.



Comments:

- **Default Roles:** LinxData.Adm has some default roles (Admin, Manager, Operator, etc.) that cannot be deleted, but can be edited to adjust permissions.
- Custom Roles: You can create custom roles to meet your organization's specific needs.
- **Permissions Management:** When assigning a role to a user, you will be granting them the permissions defined for that role. It is important to manage permissions carefully to ensure the security and integrity of system data.



3.3 Device Token

The "Device Token" section in LinxData.Adm allows users with an **Admin role** to obtain the access token necessary to authorize remote devices to send read data to the system.

3.3.1 Accessing the Device Token Form

To access the Device Token form, click on "Security" in the side menu and then on "Device Token".

00000001		
Password		
•••••		Ø
NSwiaWF0ljox brPzw1ZULh_(DQxNDUsImV4cCl6MjAzNzYyODE0 NzIxNDA0MTQ1fQ.YOu- C9yMVQ_ClfDCvEsJTn- ICD_Zn5MKrUgU3XOm_	
SIGN IN	В	ACK

Login Device Token Form



3.3.2 Device Token Form Fields

The Device Token form contains the following fields:

- Device Code: Field to enter the unique code of the remote device (Card).
- Password: Field to enter the device password.
- Device Token: Text field that displays the access token after successful login.
- **Clipboard Button:** Button located next to the "Device Token" field that copies the token to the clipboard.
- Enter Button: Button that logs in with the device data entered.
- Back Button: Button that returns to the home page.

3.3.3 Obtaining the Device Token

To obtain the Device Token for a device, follow these steps:

- 1. Fill in the fields: Enter the device code and password in the corresponding fields.
- 2. **Click "Enter":** The system will check the credentials and, if they are valid, will display the access token in the "Device Token" field.
- 3. Copy the Token: Click the "Clipboard" button to copy the token to the clipboard.

3.3.4 Important Notes

- **Device Authorization:** The Device Token is used to authorize remote devices to send reading data to the LinxData.Adm system.
- **Token Validity:** The token has a duration of 10 years and only allows access to the "Create" Events endpoint in the LinxData API.
- Device Role: This form allows only devices registered as users with the "Device" role to log in.
- Security: Keep the access token safe, as it allows data to be sent to the system.

With this detailed section, the LinxData.Adm user manual provides the necessary information to obtain and use the Device Token, ensuring secure communication between remote devices and the system.



4. Devices (Admin and Manager Role)

LinxData allows the monitoring of different types of devices, each with its specific characteristics and functionalities. A device, in the context of LinxData, is any equipment or physical component that can be connected to the system for data collection and analysis. These devices can be sensors, cameras, alarms, controllers, among others, and are responsible for generating the events that will be monitored and managed by the system.

Each device has a set of components that define it and allow it to be integrated with LinxData:

- **Device Type:** Defines the device category (sensor, camera, alarm, etc.) and its general characteristics.
- **Processor Type:** Indicates the type of processor used by the device, which may influence the way data is collected and processed.
- **Card:** Uniquely identifies the device within the system and stores important information, such as the device type, processor type and communication settings.
- **Events:** These are the occurrences recorded by the device, such as alarms, failures, state changes, etc.
- Event Status: Indicates the current state of an event (active, closed, in progress, etc.).
- **Occurrences:** Detailed records of events that require special attention, such as critical failures or malfunctions.

In this section, we will detail each of these components and explain how to register and manage them in LinxData.Adm.



4.1 Processor Types

In LinxData, the processor type defines the hardware used by the device to collect and process data. Each type of processor may have specific characteristics, such as processing capacity, power consumption and communication protocols.

In LinxData.Adm, you can register different types of processor so that the system can recognize and correctly interpret the data sent by the devices.

ServData.Adm	x +			- 0 ×
	host:7252/pages/Deviœ/ProœssorTypes			🖙 🖣 ९ 🖈 🌖 :
Admin	=			ズ _A Hello, admin! Logout [→
linx data	Processor Types			
A Home	+ CREATE C REFRESH REPORT		Q Search	
Devices	Name	Description	Active	Actions
Events	DOIT ESP32 DEVKIT V1	Esp32 com WI-FI	Yes	Z 1
Event Status Occurrences Device Types	Esp32-WROOM	Esp32 - Espressif	Yes	× =
Processor Types				
R Administration Image: Localization Image: Collection Image: Localization Image: Collection				
			Rowsperpage 10	▼ page 1-2 of 2 < < > >



4.1.1 Types of Processor Used :

Currently, LinxData uses the following types of microcircuits as processors:

- 1. **ESP32-WROOM:** Low-cost, high-performance Wi-Fi microcontroller, ideal for IoT projects.
- 2. **DOIT ESP32 DEVKIT V1:** Development board based on ESP32, with additional features such as OLED display, buttons and LEDs, facilitating prototyping and project development.



4.1.2 Registration of New Processor Types

LinxData.Adm allows users with an **Admin role** to register new types of processor, if it is necessary to add equipment with characteristics different from the existing types. To register a new type of processor, follow the steps:

- 1. Access the "Devices" menu and click on "Processor Types".
- 2. Click the "New Processor Type" button.
- 3. Fill in the fields with information about the new type of processor, such as name, description and technical characteristics.
- 4. Click "Save" to complete the registration.

Processor Typ	es				
+ CREATE C REFR	ESH 🖹 EXPORT				Q Search
Name		Description		Active	
DOIT ESP32 DEVKIT ¥1 Esp32-WROOM	Update Processor Type Identification 628fbdff-acee-4e5a-8efe-0a0847c1ba72 Description Esp32 com WI-FI Updated		ame DIT ESP32 DEVKIT V1		×
				CANCEL	UPDATE

Processor Types Create and Update

4.1.3 Editing and Deleting Processor Types

Users with an **Admin profile** can also edit or delete existing processor types on the "Processor Types" page.



Note: It is important to be careful when editing or deleting processor types, as this may affect the functioning of devices already registered in the system. Make sure the changes will not cause compatibility issues or data loss.



4.2 Device Types

In LinxData, device types define the categories and general characteristics of the equipment monitored by the system. Each type of device has specific attributes that differentiate it from others, such as the type of data it collects, the units of measurement used and the configuration parameters.

ServData.Adm	× +				- 0 >
← → C •• k	ocalhost:7252/pages/De	viœ/DeviceTypes		© 1	🛛 २ 🛧 🍈
Admin	=			⊼,	Hello, admin! Logout 🕞
linx data	Device T	ypes			
Home	+ CREATE	C REFRESH		Q Search	
Cards	Туре	Name	Description	Active	Actions
🏚 Events	2	Caixa de Água - Inferior	Monitoramento Caixa de Água Inferior	Yes	/ =
Event Status Occurrences	2	Caixa de Água - Superior	Monitoramento Caixa de Agua Superior	Yes	× 1
Device Types	1	Central de Incêndio	Monitoramento Central Incêndio.	Yes	/ 🔳
Administration	3	Contador de Pulsos	Cantador de Pulsos para Hidrômetros	Yes	
				Rows per page 10 ▼ page 1-4 of 4	I< < > >I

4.2.1 Types of Devices in LinxData

LinxData currently supports the following device types:

- **Fire Control Panel:** Monitors the status of fire alarm control panels, detecting events such as fire alarms, system failures and the need for maintenance.
- Water Reservoir Monitor: Monitors the water level in reservoirs, warning about low levels, leaks and other problems related to water supply.

4.2.2 Create Device Types

LinxData.Adm allows users with an **Admin profile** to register new types of device, if it is necessary to add equipment with different characteristics to the existing types. To register a new type of device, follow the steps:



- 1. Access the "Devices" menu and click on "Device Types".
- 2. Click the "New Device Type" button.
- 3. Fill in the fields with information about the new device type, such as name, description, unit of measurement, configuration parameters, etc.
- 4. Click "Save" to complete the registration.

Device Ty	pes					
+ CREATE	C REFRESH 🖹 EXPORT			Q Search		
Туре	Name	Description			Active	Actions
2	+ Add Devic	се Туре		×	Yes	/ 1
2	Туре	Name			Yes	/ 1
1	Type is Required	Name is Required			Yes	/ 1
3	CDescription		Active		Yes	/ 1
	Updated					
	-		CF	ANCEL SAVE		

Device Types Create and Update

4.2.3 Editing and Deleting Device Types

Users with an Admin role can also edit or delete existing device types on the "Device Types" page.

Note: It is important to be careful when editing or deleting device types, as this may affect the functioning of devices already registered in the system. Make sure the changes will not cause compatibility issues or data loss.


4.3 Cards

Cards are the heart of the LinxData system, representing each device installed remotely and allowing them to be monitored and managed. Each card has a unique code that identifies the device and stores information crucial to the functioning of the system, such as the type of processor, the type of device, the associated legal entity and the status of the device.

4.3.1 Card Features

- **Unique device identification:** Each card has a unique code that identifies the remote device (microchip).
- **Association with processor type:** The card identifies the processor in use on the device, facilitating the identification of the program recorded on the microchip.
- Association with device type: The card identifies the type of device to which it is associated:
 - 1 Fire Station
 - 2 Water Box
 - o 3 Pulse Counter
- Association with a legal entity: The card is linked to the legal entity where the device will be installed remotely.
- **Device Status Monitoring:** The card stores a 10-character status consisting of "0" or "1" which represents the device status. Each status position indicates a specific event, depending on the device type.



Admin		=					3	Hello, admin! Logout
nx data		Cards						
Home		+ CREATE	C REFRESH 📘 E	XPORT		Q Search		
Devices -	•	Code	Status	P rocessor Type	Device Type	Person	Active	Actions
🛱 Events		00000001	0000000000	D OIT ESP 32 DEVKIT V1	Caixa de Água - Superior	TreeSys Informatica Ltda	Yes	/
Event Status		00000002	1111000000	Esp32-WROOM	Central de Incêndio	Servidata Net	No	× •
Device Types		00000003	1111000000	Esp32-WROOM	Central de Incêndio	Condominio Qiapoek	Yes	1
Processor Types Services		00000004	1111000000	Esp32-WROOM	Central de Incêndio	Servidata Net	Να	
		00000005	1111000000	Esp32-WROOM	Central de Incêndio	TreeSys Informatica Ltda	No	1
	•	00000006	1111000000	Esp32-WROOM	Central de Incêndio	TreeSys Informatica Ltda	No	× •
Utility	-	00000007	1111000000	Esp32-WROOM	Central de Incêndio	TreeSys Informatica Ltda	No	1
About		00000008	0000000000	Esp32-WROOM	Caixa de Água - Inferior	TreeSys Informatica Ltda	Yes	/
		00000009	1111000000	Esp32-WROOM	Central de Incêndio	TreeSys Informatica Ltda	No	1
		00000010	1111000000	Esp32-WROOM	Central de Incêndio	Servid ata Net	Yes	/



4.3.2 Creating a Card

To create a card in LinxData.Adm, follow the steps below:

- 1. Access the Cards page: In the side menu, click on "Devices" and then on "Cards".
- 2. Click "New Card": On the Cards page, click the "New Card" button.
- 3. Fill in the Card information:
 - **Code:** Enter the device's unique code (microchip).
 - Processor Type: Select the type of processor used in the device (ESP32-WROOM or DOIT ESP32 DEVKIT V1).
 - **Device Type:** Select the device type:
 - Type 1 Fire Station:
 - **Status:** Enter the initial status as "1111000000" (no errors).
 - Type 2 Water Reservoir:
 - Status: Enter the initial status as "000000000".



- Sensor Height: Enter the height between the sensor and the water when the tank is full (minimum 30cm).
- Yellow Limit: Enter the volume in cm³ that represents the alert limit (between the full reservoir and the red limit).
- **Red Limit:** Enter the volume in cm³ that represents the critical water limit.
- **Total Volume:** Enter the total volume of the reservoir in cm³.
- **Total Area:** Enter the total area of the reservoir in m².
- Reserve Volume: Enter the reserve volume for use by firefighters in the event of a fire.
- Use Reserve: Indicate whether the reserve volume should be considered when calculating the limits (Yes or No).
- Type 3 Pulse Counter:
 - Status: Enter the initial status as "000000000".
 - **K Factor:** Enter the pulse constant for the water meter volume (normally in liters).



4.3.3 Click "Save":

To complete the card registration.

Cards							
+ CREATE	C REFF	ন্ত Update Card			×		
Code	Statu	c Identification 2c4f8c0a-83a4-4974-b16f-3	fad776ea4c8	Select Person Condominio Oiapock	-	Active	Actions
00000001	0000	SelectProcessorType		Select Device Type		Yes	/ 1
00000002	11110	Esp32-WROOM	-	1 - Central de Incêndio	•	No	/ 1
00000003	1111:	Code00000003	Status	Sensor Height	Green Limit	Yes	/ 1
00000004	11110					No	/ =
00000005	11110	Yellow Limit	Red Limit	Total Volume	Total Area	No	/ =
00000006	1111	Volume Reserve	Volume Minimum	C,00	Use Reserve	No	/ 1
00000007	1111	laud	Іруб	Longitude	Latitude	No	/ =
80000008	0000	lpv4	IDAO	Longitude	Lautuue	Yes	/ =
00000009	1111:	🔽 Active 🔽 U	pdated			Νο	/ =
00000010	11116.	coper moo	M Oct		CANCEL UPDATE	Yes	/ =
					Rows per pay	ge 10 🔻 page 1-10 of 10	<

Card Model - Type 1 - Fire Station

Cards							
+ CREATE	C REFF	ල Update Card			×		
Code	Statu	Identification 5c7d966c-a9ab-4f79-99f	I-2f7cdd47dbd1	Select Person TreeSys Informatica Ltda	a -	Active	Actions
00000001	00000	SelectProcessorType		Select Device Type		Yes	/ 1
00000002	11110	DOIT ESP32 DEVKIT V1	-	2 - Caixa de Água - Super	rior 👻	No	/ 1
0000003	11110	Code00000001	Status000000000	Sensor Height 40,00	0,00	Yes	/ 1
00000004	11110	- Yellow Limit	Red Limit	Tutal Volume	Tutal Area	No	/ 1
0000005	11110	25200,00	10800,00	36000000,00	90000,00	No	/ 1
00000006	11110	Volume Reserve	Volume Minimum 0,00	K Factor 0,00	Use Reserve	No	/ 1
00000007	11110	Ipv4	Ιρνό	Longitude	Latitude	No	/ 1
8000000	0000	iba.	ipro	Longitude		Yes	/ =
0000009	11110	🗹 Active 🗹	Updated		_	No	/ 1
00000010	11116.	Lopue (III	000		CANCEL UPDATE	Yes	/ 1



Card Model - Type 2 - Water Reservoir

4.3.3 Important Notes

- Alert Messages: The LinxData.Adm system constantly monitors the status of devices. If a discrepancy is detected between the expected status and the status reported by the device, the system will send SMS and email messages to those responsible registered in the "Contact People" section.
- **Creating Event Status (EventStatus):** After creating a card, it is necessary to manually create an "EventStatus" record for the card, following the steps described in <u>section 4.5</u>.



4.4 Events

Events are occurrences recorded by devices monitored by LinxData, representing changes in the state or functioning of the equipment. These occurrences can be generated by several factors, such as:

- **Timing:** Events scheduled to occur at regular intervals, defined in the device firmware.
- Interruption: Events triggered by a change in the monitored environment, such as a fire alarm or a temperature variation.
- **Watchdog Timer:** Events generated when the device "freezes" or stops responding, indicating a possible malfunction.

Events are sent by devices to LinxData.Adm through the API and stored in the database for later analysis and processing. Each event contains important information, such as:

- Card code (device): Identifies the device that generated the event.
- Event date and time: Informs the exact moment the event occurred.
- Event type: Indicates the nature of the event (alarm, fault, state change, etc.).
- Event data: Contains additional information about the event, such as sensor values, error messages, etc.
- **Temperature:** Informs the temperature of the device circuit at the time of the event.
- Hal: Indicates the state of the device's hardware (if it is working correctly or if there is a problem).

Observation:

• For devices of the "Water Reservoir Monitor" type, the **H2O field** in the event data informs the distance sensor reading, expressed in centimeters.



4.4.1 Event List View

The Events page in LinxData.Adm allows you to view and manage events registered by devices. To access this page, click on "Devices" in the side menu and then on "Events".

=									
								Â	Hello, admin! Logout
Events									
+ CREATE	C REFRESH 🔀 EX	XPORT				0 500	roh		
Select Device 00000003		_	Start and End Date - 20/03/2024 -	+ 20/03/2024			1011		
Device Code	Status	Counter	Event Date	Hall	Temperature	H20	Version	Active	Actions
00000003	1111000000	3562	20/03/2024 00:22:08	74	43,3333			Yes	۹ ا
00000003	1111000000	3563	20/03/2024 01:22:15	74	43,8889			Yes	۹ 🔋
00000003	1111000000	3564	20/03/2024 02:22:21	80	43,8889			Yes	۵
00000003	1111000000	3565	20/03/2024 03:22:29	69	43,8889			Yes	۹ ا
00000003	1111000000	3566	20/03/2024 04:22:35	68	43,8889			Yes	۵ ا
00000003	1111000000	3567	20/03/2024 05:22:39	76	43,8889			Yes	۵ ا
00000003	1111000000	3568	20/03/2024 06:22:45	77	43,8889			Yes	۵ 📋
00000003	1111000000	3569	20/03/2024 07:22:51	76	43,8889			Yes	۹ 📋
00000003	1111000000	3570	20/03/2024 08:22:58	67	43,8889			Yes	۹ ا
	+ CREATE Seect Device 00000003 Device Code 00000003 00000003 00000003 00000003 000000	+ CREATE C REFRESN ■ EX Select Device Status Device Code Status 00000003 1111000000 00000003 1111000000 00000003 1111000000 00000003 1111000000 00000003 1111000000 00000003 1111000000 00000003 1111000000 00000003 1111000000 00000003 1111000000	CREATE C REFRESH E EXPORT Seect Device C00000003 Status Counter Device Code Status Counter 00000003 1111000000 3663 00000003 1111000000 3664 00000003 1111000000 3566 00000003 1111000000 3566 00000003 1111000000 3566 00000003 1111000000 3566 00000003 1111000000 3566 00000003 1111000000 3566 00000003 1111000000 3566	← CREATE C REFRESH EXPORT Seect Device Start and End Date 20/03/2024 - Device Code Status Counter Event Date 00000003 1111000000 3562 20/03/2024 00.22.08 - 00000003 1111000000 3563 20/03/2024 00.22.08 - 00000003 1111000000 3564 20/03/2024 02.22.21 - 00000003 1111000000 3565 20/03/2024 02.22.21 - 00000003 1111000000 3565 20/03/2024 02.22.21 - 00000003 1111000000 3565 20/03/2024 02.22.21 - 00000003 1111000000 3565 20/03/2024 02.22.45 - 00000003 1111000000 3567 20/03/2024 02.22.45 - 00000003 1111000000 3568 20/03/2024 02.22.45 - 00000003 1111000000 3569 20/03/2024 02.22.51 -	+ CREATE C REFREENT E EXPORT Seex: Dervice 000000003 Statu and End Date 20/03/2024 → 20/03/2024 Dervice Code Status Counter Event Date Hall 00000003 1111000000 3562 20/03/2024 00:22:05 74 00000003 1111000000 3563 20/03/2024 02:22:15 74 00000003 1111000000 3564 20/03/2024 02:22:21 80 00000003 1111000000 3565 20/03/2024 02:22:21 80 00000003 1111000000 3565 20/03/2024 04:22:35 68 00000003 1111000000 3567 20/03/2024 04:22:35 67 00000003 1111000000 3569 20/03/2024 04:22:45 77 00000003 1111000000 3569 20/03/2024 05:22:45 77	• CREATE © TEFREENT EXEMINATION Seect Dervice 000000003 Stat and End Date 20/03/2024 - 20/03/2024 - 20/03/2024 Dervice Code Status Counter Event Date Hall Temperature 00000003 111100000 3562 20/03/2024 00 22.08 74 43.3889 00000003 111100000 3563 20/03/2024 02 22.21 80 43.889 00000003 111100000 3565 20/03/2024 02 22.22 80 43.889 00000003 111100000 3565 20/03/2024 02 22.22 80 43.889 00000003 111100000 3565 20/03/2024 02 22.22 80 43.889 00000003 111100000 3565 20/03/2024 02 22.22 80 43.889 00000003 111100000 3565 20/03/2024 02 22.25 68 43.889 00000003 111100000 3565 20/03/2024 05 22.39 76 43.889 00000003 111100000 3569 20/03/2024 05 22.45 77 43.889 0	Image: Contract of the	Image: Contract Contract State and End Date 2003/2024 $20/03/2024$ $-20/03/2024$ -2	• CREATE © REFERENT Exercite sext bevice 00000003 Statu at Databas - 20/03/2024 - 20/03/2024 - 20/03/2024 Porice Code Status Counter Event Date Temperature H20 Version Active 00000003 111100000 3620 20/03/2024 012221 74 43.3839 Version Active 0000003 111100000 3650 20/03/2024 012221 80 43.8890 Version Yes 0000003 111100000 3650 20/03/2024 012231 80 43.8890 Version Yes 0000003 111100000 3650 20/03/2024 012230 69 43.8890 Version Yes 0000003 111100000 3650 20/03/2024 012230 69 43.8890 Version Yes 0000003 111100000 3650 20/03/2024 012230 69 43.8890 Version Yes 0000003 111100000 3650 20/03/2024 012230 76 43.8890 Version Yes 0000003 111100000 3650 20/03/2024 012230 76 <td< td=""></td<>

Events List View Page

The Events page displays a paginated list of events, with the following information:

- Device Code: Identification of the device that generated the event.
- Status: Event Status.
- Date and time: Time at which the event occurred.
- **Counter** : Event Counter
- Type of event: Nature of the event.
- **Event Data:** Additional information about the event, including temperature, Hal and, in the case of water tank monitors, the distance sensor reading (H2O).
- Actions: Button to delete the event (only available for users with an Admin profile) and button to view event details.

At the top of the page, there is a device selection button, which allows you to filter events by device, and a date selector to choose the time period for events to be displayed.





Comments:

- When you select a device, the page automatically displays events for the current date (today).
- If only the date is selected, without specifying the device, the system will bring events from all devices in the selected period.
- You can search for a specific device by entering the device code in the search field.
- The "Create" button is disabled on this page as events are automatically generated by devices and cannot be created manually. The treatment and interpretation of events occurs in the "Event Status" section.

Events			
+ CREATE C RI	FRESH EXPORT	Q Search	
Select Device 00000003	Start and End Date → 20/03/2024	→ 20//03/2024 🛱	
Device Code	s + View Event	×	Version Active Actions
00000003	1 Identification 15bd aead-476a-40be-9ff0-e7eb56ec46c6	Device Code 00000003	Yes 🔍 🧃
00000003	1 Date Counter	Status Temperature Hall	Yes 🔍 🧵
00000003	20/03/2024 00:22:08 3562	1111000000 43,3333 74	Yes 💽
00000003	Humidity Battery Smoke 0,0000 0,0000 0,0000	0,0000 Gas H2O	Yes 🔍 📋
0000003	PulseCount Active Update	ed Version	Yes 🔍 🍵
00000003	1		Yes 🔍 📋
00000003	1) Huuuuuu 3000 20/03/2024-00.22.45	RETURN 45,00.69	Yes 🖸

View Event Page

4.4.2 Filters and Event Search

On the Events page, you can use filters to refine the list of events displayed. The available filters are:

- Device: Allows you to select a specific device to view only the events generated by it.
- **Date:** Allows you to define a period to view events that occurred within that time interval.

In addition to filters, you can also use the search field to find specific events based on keywords present in the event data or device code.

4.4.3 Event Management

Users with an Admin profile can delete events from the Events page. Deleting events should be done with caution as it may affect historical data analysis.

Note: The basic operations for deleting events follow the same pattern as described in the "Basic Operations" section of this manual.



4.4.4 Export Event List

Users with an Admin or Operator profile can export the list of events to an Excel file, which allows them to analyze event data in a more detailed and personalized way. To export the list, simply click the "Export" button at the top of the page.



4.5 Event Status (EventStatus)

EventStatus table in LinxData.Adm stores the current state of each device monitored by the system. Each record in the table represents the last event processed for a specific device, containing relevant information about its operation and possible alerts.

4.5.1 Event Status View

The Event Status page in LinxData.Adm allows you to view the current status of all devices registered in the system. To access this page, click on "Devices" in the side menu and then on "Event Status".

 ✓ ServData.Adm 		× +										- 6) :
← → C	localho	ost:7252/pages/De	viœ/EventStatus								C 72 C 73	९ ☆	6
Admin		=									х _А н	ello, admin! Lo	igout (H
linx data		Events S	Status										
Home		+ CREATE	C REFRESH	X EXPORT					Q. Search				
 Devices Cards 	•	Code	Counter	Date	Status	Hall	Temperature	H20	Volume	Active	Status Ok	Actio	ns
Levents		00000001	1324	20/06/2024 23:50:00	100000000	98	55,5556	80,0000	28800,00	Yes	Yes	1	
Event Status Occurrences		00000002	231	18/06/2024 19:27:52	1111000000	-7	72,7778	0,0000	0,00	Yes	Yes	1	
Device Types		00000003	4917	13/05/2024 23:24:53	1111000000	74	43,3333	0,0000	0,00	Yes	Yes	1	Ĩ
Processor Types	Ŧ	00000004	24	26/02/2024 17:48:35	1111000001	93	43,8889	0,0000	0,00	No	No	1	Î
Administration	-	00000005	183	27/03/2024 15:58:26	1111000001	98	48,3333	0,0000	0,00	No	No	1	
) Localization) Security	• •	00000006	54	01/11/2023 14:20:02	1111000000	101	51,1111	0,0000	0,00	No	Yes	1	•
t Utility	•	0000007	9	26/02/2024 18:00:46	1111000001	68	40,5556	0,0000	0,00	No	No	1	Î
About		00000008	309	12/07/2024 19:27:30	110000000	95	55,5556	20,0000	22800,00	Yes	No	1	T
		00000009	490	18/05/2024 11:45:11	1111000001	76	44,4444	0,0000	0,00	Yes	No	1	T
		00000010	18	15/03/2024 12:10:25	1111000001	108	66,6667	0,0000	0,00	No	No	1	Î
									Rows per pa	ge 10 -	page 1-10 of 10 <	< >	

Event Status Page

4.5.2 Event Status Fields

- **Code:** Card (device) identifier associated with the event status.
- Status: 10-character string representing the device state (see section 4.5.3 for details).
- **Counter:** Counter of events registered for the device.



- **Date:** Date and time of the last event status update.
- Hall: Measure that indicates magnetic interference in the device's microprocessor.
- Temperature: Temperature of the device's microprocessor.
- H2O:
 - For Water Reservoirs: Reading the distance from the water surface in centimeters.
 - For **Pulse Counters:** Pulse sensor value.
- Volume: Volume of the water tank (in m³).
- Active: Indicates whether the device is Active (Yes/No).
- OK Status: Indicates whether the device is working correctly (Yes/No).

4.5.3 Status Interpretation

Interpretation of the Status field value depends on the device type. For each type of device, the status is composed of a sequence of 10 (ten) characters "0" or "1", where each position represents a specific aspect of the device's operation.

4.5.4 Device Types and Status Interpretation

• Device Type 1 Fire Control Panel:

- **Position 1:** Fire alarm (0 = Activated, 1 = Not activated)
- **Position 2:** Device crash (0 = Crash, 1 = No crash)
- **Position 3:** Reserved (1 = Not used)
- **Position 4:** Reserved (1 = Not used)
- **Position 5 to 9:** Reserved for future features
- **Position 10:** Device Reset (0 = Normal, 1 = Reset)
- Device Type 2 Water Reservoir:
 - **Position 1:** Green Level (1 = Yes, 0 = No)
 - **Position 2:** Yellow Level (1 = Yes, 0 = No)
 - **Position 3:** Red Level (1 = Yes, 0 = No)
 - Position 4 to 9: Reserved for future features
 - **Position 10:** Device Reset (0 = Normal, 1 = Reset)
- Pulse Counter Device Type 3:
 - **Position 1 to 9:** Reserved for future features
 - **Position 10:** Device Reset (0 = Normal, 1 = Reset)

Note: The initial status for all device types is "000000000", except for fire stations, which have an initial status of "1111000000" (no errors).





4.5.4 Creating and Updating Event Status

The EventStatus record needs to be created manually when a new card is registered. The system updates the EventStatus of a device whenever it receives a new valid event from the remote device.

Events	Status				
+ CREATE	C REFF	্ত Update Device Event Status	×		
Code	Counter	Identification Select Device Card	Active	Status Ok	Actions
00000001	1324	8851 fa5d-1e20-4f21-8ce0-3fe48632b349 00000003 -	Yes	Yes	/ 1
00000002	231	Date Last Counter 13-05-2024 23:24:53 4917	Yes	Yes	/ 1
00000003	4917	Last Status Last Event Id	Yes	Yes	1
00000004	24	1111000000 8851fa5d-1e20-4f21-8ce0-3fe48632b349	No	No	/ =
00000005	183	Temperature Hall Humidity Battery Smoke C02 43,3333 74 0,0000 0,0000 0,0000 0,0000 0,0000	No	No	/ 1
0000006	54	Gas H20 Volume Volume Liters ✓ Status Ok 0,0000 0,000 0,00 0,00 0,00 ✓ Status Ok	No	Yes	/ 1
00000007	9		No	No	/ 1
0000008	309	Active Updated Version	Yes	No	/ 1
0000009	490	CANCEL UPDA	TE Yes	No	/ 1

Status Event Create Edit

4.5.5 Additional Observations

- It is important to regularly check the EventStatus of devices to ensure they are functioning correctly.
- You can configure alerts and notifications based on EventStatus to receive warnings in case of abnormalities.
- The user cannot manually edit or delete the event status as it is automatically updated by the system based on events received from devices.



4.6 Occurrences

The "Occurrences" section in LinxData.Adm allows you to view the history of processed and recorded events for each device. This functionality is essential for monitoring device performance, identifying behavior patterns and solving problems more efficiently.

4.6.1 Occurrence View

The Occurrences page in LinxData.Adm displays a paginated list of occurrences, with the following information:

- Card code: Identification of the device that generated the event.
- Date and time: Time at which the event occurred.
- Type of event: Nature of the event.
- Event Data: Additional information about the event, including temperature, Hal and, in the case of water tank monitors, the distance sensor reading (H2O).
- **Message:** Description of the device state after the event.
- Last updated: Date and time the event status was last updated.
- Actions: Button to view the details of the occurrence (magnifying glass icon).

At the top of the page, there is a device selection button, which allows you to filter occurrences by device, and a date selector to choose the time period of occurrences to be displayed.

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Occurrences Page

4.6.2 Filters and Occurrence Search

On the Occurrences page, you can use filters to refine the list of occurrences displayed. The available filters are:

- Device: Allows you to select a specific device to view only events related to it.
- Date: Allows you to define a period to view occurrences that occurred within that time interval.

In addition to filters, you can also use the search field to find specific occurrences based on keywords present in the event data or device code.

4.6.3 Important Notes

- Occurrence Creation: The LinxData.Adm system automatically creates a new record in the Z_EventsStatus (Event History) table whenever the status of a device is updated in the EventStatus table, i.e. the Occurrence List is a copy of the EventsStatus table.
- **View Details:** By clicking the magnifying glass icon in the "Actions" column, you can view the details of an occurrence, including all information about the event that generated it.
- **Data Export:** It is possible to export the list of occurrences to an Excel file, which allows you to analyze the data in a more detailed and personalized way. To export the list, simply click the "Export" button at the top of the page.

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Occurrences View Page



5. Administration (Admin and Operator Profile)

The Administration section of LinxData.Adm offers tools to manage the administrative aspects of the system, such as people, contacts, message settings and roles. The features in this section are accessible to users with **Admin** and **Operator** profiles , with some variations in permissions.

5.1 Dashboard

The control panel, or Dashboard, offers an overview of the system, presenting summarized information about devices, events and users through graphs and counters.



Panel

• 5.1.1 Devices:

• Pie chart with total device count, active and inactive devices.

• 5.1.2 Status Events Last Year:

 Annual bar chart, month by month, showing total events, events with OK status, and events with non-OK status.



- 5.1.3 Total Events:
 - Counters for total events, OK events and non-OK events.
- 5.1.4 Latest Events:
 - Bar graph showing month, week and day, with total events, OK events and non-OK events.
- 5.1.5 Users:
 - Pie chart with total count of active and inactive users.
- 5.1.6 People:
 - Pie chart with total people count, active and inactive people.



5.2 Persons

The "Persons" section allows you to manage individuals and legal entities registered in the LinxData.Adm system. When accessing this section, you will see a paginated list of persons, with filters by country and state to facilitate the search.

5.2.1 Persons View

The Persons page displays a paginated list of registered persons, including information such as name, type (physical or legal), CPF/CNPJ, email and telephone number.

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Administration	Armando Ketzer	Individual	11986801900		São Paulo	Yes	× •
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Persons Page

At the top of the page you will find two selectors:

- **Country:** Allows you to filter the list by country. If a person does not have a country entered, they will appear in the list when the "People" menu is clicked, but you will need to select the correct country for them to appear in the filtered results.
- State: Allows you to filter the list by state, after selecting a country.

When you select a country and state, the list will only display people who belong to the selected combination.



5.2.2 Creating and Editing People

To create a new person or edit an existing person, follow the steps described in the "Basic Operations" section of this manual. When you click on "New" or the edit icon (pencil), you will be directed to a form with four tabs:

- **Personal Data:** Basic information about the person, such as name, type (physical or legal), CPF/CNPJ, date of birth, gender, etc.
- Address: Information about the person's address, such as street, number, complement, neighborhood, city, state, zip code and country.
- **Finances:** The person's financial information, such as bank details and payment methods.
- **Other:** Additional personal information, such as notes and custom fields.

Fill in the relevant fields in each tab and click "Save" to finish registering or editing the person.

Note: The information entered in the "Finance" and "Other" tabs may vary depending on the system configuration and your company's needs. Consult your system administrator for more details about these fields.

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			CANCEL UPDATE		

Person Create/Edit





5.3 Person Contact

Contact Persons are individuals directly linked to legal entities and can be configured to receive notifications about the monitoring status. The maintenance technician and the Salesperson linked to the Legal Entity can be part of Contact Persons to receive information relevant to monitoring.

5.3.1 Viewing Person Contact

The Contact Persons page displays a paginated list of natural persons associated with a legal entity, including information such as name, role, email and cell phone number.

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Person Contact page

At the top of the page, you will find a Legal Entity selector to filter the list and display only natural persons associated with that company.



5.3.2 Creating and Editing Person Contacts

To create a new Person Contact or edit an existing one, follow the steps described in the "Basic Operations" section of this manual. When you click on "New" or the edit icon (pencil), you will be directed to the "Add/Edit Person Contact" form.

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Person Contact	Nick Name	iunction I			Cell Phone	Active	Actions
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	Nick Name Pires	Email Izpires@gmail.c	om	Cell Phone (21)99299-5191			
	Receive Emails	ReceiveSms	Active	Updated C/	ANCEL UPDATE		

Person Contact Create/Edit

This form has two selectors at the top:

- Legal Entity: Select the company to which the natural person is associated.
- Individual: Select the individual who will be added as a contact.

Then, fill in the other fields on the form, such as role, nickname, email, cell phone, and the options for receiving emails and SMS.

Add/Edit Contact Person Form Fields:

- Legal Entity: The legal entity to which the natural person belongs.
- Person Contact: The natural person connected to the legal entity.
- Role: The role of the contact person (Admin, Manager, Technician, Sales, etc.).
- Nickname: A short name to be used when sending emails.
- E-mail: Exclusive e-mail address for receiving messages.
- Cell phone: Cell phone number for receiving SMS.
- Receive Emails: Indicates whether the person receives monitoring emails (Yes/No).
- Receive SMS: Indicates whether the person receives monitoring SMS (Yes/No).
- Active: Indicates whether the person is active in the system (Yes/No).
- Updated: Indicates whether the record has already been updated after creation (Yes/No).



Note: The information entered in the Person Contacts form is important to ensure that system alerts and notifications are sent to the correct people and through the appropriate means of communication.

5.4 Configurations

The "Configurations" section in LinxData.Adm allows you to configure the SMTP (Simple Mail Transfer Protocol) server responsible for sending system notification emails. These notifications are important to alert users about events and occurrences on monitored devices.

5.4.1 Accessing the Configurations Page

To access the Settings page, click on "Administration" in the side menu and then on "Configurations".

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Configurations page

5.4.2 Configurations Table Fields



The Configurations page displays a list of SMTP settings registered in the system. Each configuration has the following fields:

- Name: A descriptive name to identify the SMTP configuration (e.g. "Gmail SMTP Server", "Company SMTP Server").
- SMTP: The SMTP server address (e.g. "[invalid URL removed]")
- Port: The port used by the SMTP server (for example, 587 for Gmail).
- Use SSL: Indicates whether the connection to the SMTP server must be encrypted using SSL (Yes/No).
- Email FROM: The email address that will be used as the sender for notification messages.
- Email To: An email address to which test messages will be sent.
- Token in Memory: Field in disuse.
- Active: Indicates whether the SMTP configuration is active and being used by the system (Yes/No).
- **Updated:** Indicates whether the configuration was updated after creation (Yes/No).

Configu	rations										
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Configurations Create/Edit

5.4.3 Creating a New SMTP settings

To create a new SMTP settings, follow these steps:

- 1. Click "New": On the Configurations page, click the "New" button.
- 2. Fill in the fields: Enter the SMTP server information in the corresponding fields.
- 3. **Click "Save":** To finish registering the configuration.



5.4.4 Editing and Deleting SMTP Settings

To edit or delete an existing SMTP configuration, follow the steps described in the "Basic Operations" section of this manual.

5.4.5 Important Notes

- **Credentials:** To use an SMTP server, you will need access credentials (usually an email and a password) provided by the service provider.
- **Testing:** Before activating an SMTP configuration, it is important to perform tests to verify that messages are being sent correctly. You can use the "Email To" field to send test messages to a specific email address.
- **Security:** When using an external SMTP server, make sure it offers security features, such as SSL/TLS encryption, to protect sensitive information in email messages.

With this detailed section, the LinxData.Adm user manual provides the necessary information to configure the SMTP server and ensure correct sending of email notifications.



5.5 Messages

The "Messages" section in LinxData.Adm allows you to customize notifications sent by email and SMS to users in case of events on monitored devices. These messages can be configured for different types of events and include relevant information about what happened.

5.5.1 Accessing the Messages Page

To access the Messages page, click on "Administration" in the side menu and then on "Messages".

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5.5.2 Messages Table Fields

The Messages page displays a list of messages configured in the system. Each message has the following fields:

• **SMTP Configuration:** Allows you to select the SMTP configuration that will be used to send the message by email.



- **Message Name:** A descriptive name to identify the message (e.g., "Fire Alert", "Low Water Level").
- **Message Type:** The type of event that triggers the sending of the message:
 - **Status Change:** Message sent when a device's status changes.
 - **Counter:** Message sent when there is a failure in the sequential count of messages sent by the device.
 - **Timer:** Message sent when the device does not communicate with the system for a specified period of time (70 minutes by default).
 - H2O: Message sent when there is a change in the volume of water in a reservoir.
 - **Pulse:** Message sent with the volume reading of a water meter.
- **Subject:** The subject of the email message. You can use replacement tokens to enter dynamic information, such as the device ID and event timestamp.
- **HTML Template:** An HTML template for the email message body. You can use replacement tokens to insert dynamic information.
- Header: The header text of the email message.
- **Body:** The body text of the email message, which may contain replacement tokens.
- Footer: The footer text of the email message.
- SMS Text: The text of the SMS message, limited to 160 characters.
- **Is Test:** Indicates whether the message is a test (Yes/No). Test messages are only sent to the email address specified in "Email To" in the SMTP configuration.
- Active: Indicates whether the message is active and will be sent in case of events (Yes/No).
- **Updated:** Indicates whether the message was updated after creation (Yes/No).

5.5.3 Message Creation and Editing

To create a new message or edit an existing message, follow the steps described in the "Basic Operations" section of this manual. When you click on "New" or the edit icon (pencil), you will be directed to the message creation/editing form.



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Message Create/Edit Page

5.5.4 Replacement Tokens

Replacement tokens are used to insert dynamic information into messages, such as device code, event date and time, device status, and other relevant data. Tokens can be used in the "Subject", "Body", "Footer" and "SMS Text".

5.5.4.1 Token List

- [DeviceCode]: Unique device code.
- [DeviceCodeAnt]: Previous device code (used in change messages).
- [DateAnt]: Date and time of the last event in the format "dd-MM-yyyy HH:mm:ss".
- [AntStatus]: Previous status of the device.
- [CounterAnt]: Previous counter of the device.
- [IdAnt]: ID of the last event.
- [H2OAnt]: Previous reading of the distance sensor in water tanks (in cm).
- [VolumeAnt]: Previous volume of the water tank (in m³).
- [DeviceCodeAtu]: Current device code.
- [DateAtu]: Date and time of the current event in the format "dd-MM-yyyy HH:mm:ss".
- [StatusAtu]: Current status of the device.
- [CounterAtu]: Current device counter.
- [DateTimeNow]: Current date and time in the format "dd-MM-yyyy HH:mm:ss".
- [PersonName]: Name of the person associated with the device.
- [PersonAddress]: Address of the person associated with the device.
- [PersonComplement]: Complement of the person's address.



- [PersonNeighborhood]: Neighborhood of the person associated with the device.
- [PersonCity]: City of the person associated with the device.
- [PersonState]: State of the person associated with the device (abbreviation).
- [PersonZipCode]: ZIP code of the person associated with the device.
- [PersonCountry]: Country of the person associated with the device.
- [GoogleMapsLnk]: Link to Google Maps with the address of the person associated with the device.
- [H2OAtu]: Current reading of the distance sensor in water tanks (in cm).
- [VolumeAtu]: Current volume of the water tank (in m³).
- [DeviceName]: Device name.
- [font_color]: Font color of the message.
- [bck_color]: Background color of the message.
- [WarningType]: Type of alert (ex: "Low Water Level").

Usage Examples:

- Subject: Device Card [DeviceCode] STATUS CHANGE Alert in [DateTimeNow]
- **Body:** [Head] [Body] [Bottom]
- SMS text: Alert! The [DeviceCode] reservoir has a water level of [H2OAnt]cm .



Observation:

- This is the complete list of tokens used in the ReplaceTags and ReplaceH20 functions .
- For more information on how to use tokens, see the LinxData.Adm documentation.

Tip:

• When using tokens, make sure that the field names are correct and that the values are available when sending the message.



5.6 Functions

The "Roles" section in LinxData.Adm allows you to manage the roles assigned to Contact Persons, defining the different roles they can play in the organization, such as "Admin", "Manager", "Technical" or "Sales".

5.6.1 Accessing the Functions Page

To access the Roles page, click on "Administration" in the side menu and then on "Roles".

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Admin	≡		×.	Hello, admin! L	ogout [-)
inx data	Function	2			
Home	runotion				
Devices	+ CREATE	C REFRESH SEXPORT	Q Search		
Cards	Name	Description	Active	Actio	ons
🏚 Events	Comercial	Operador Comercial ou Vendas	Yes	1	
Event Status Occurrences	Gerente	Gerente de departamento	Yes	1	
Device Types	Admin	Esta função permite que o Administrador receba mensagens de E-mail e SMS enviados pela API	Yes	1	
Processor Types	Técnico	Colaborador Serviços Técnicos	Yes	1	
Administration					
Administration					
Persons					
Person Contacts					
Configurations					
Messages					
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About					

Functions Page

5.6.2 Functions Table Fields

The Functions page displays a list of functions registered in the system. Each function has the following fields:

- Name: The name of the role (e.g. "Manager", "Technician").
- **Description:** A brief description of the role, explaining its responsibilities and duties.
- Active: Indicates whether the function is active and can be assigned to a Contact Person (Yes/No).



5.6.3 Creating a New Function

To create a new role, follow these steps:

- 1. **Click "New":** On the Roles page, click the "New" button.
- 2. Fill in the fields: Enter the role name and description.
- 3. Check "Active": Make sure the "Active" checkbox is selected so that the function can be used.
- 4. Click "Save": To finish registering the function.

Functions				
+ CREATE C	REFRESH REPORT	Q Search		
Name	Description		Active	Actions
Comercial	Operador Comercial ou Vendas		Yes	× 1
Gerente	Gerente de d	×	Yes	/ 1
Admin	Esta função		Yes	× •
Técnico	Colaborador 39b6d0bb-f280-47f6-bf 54-4bda 99ffd94f Comercial		Yes	/ 1
	Operador Comercial ou Vendas 🛛 Vendas			
	CANCEL	UPDATE		

Create/Edit function

5.6.4 Editing and Deleting Roles

To edit or delete an existing role, follow the steps described in the "Basic Operations" section of this manual.

5.6.5 Important Notes

- Roles and Access Profiles: The roles defined in this section are different from the access profiles (Admin, Manager, Operator, etc.) that determine the permissions of each user in the system. Roles are used to categorize Contact Persons according to their roles in the organization.
- Association with Contact Persons: When registering a Contact Person, you must select a role for them, indicating their role in the company and the responsibilities they have in relation to the monitored devices.
- **Updating Roles:** It is important to keep the role list updated to reflect changes in the organization's structure and employee roles.



6. Location (Admin Profile)

The Location section in LinxData.Adm allows you to manage geographic information, such as countries, states and cities. This information is important for organizing system data and sending notifications and alerts.

6.1 Countries

The Countries page displays a list of all countries registered in the system, with their respective codes and flag codes.



Countries page

Countries Table Fields:

- **Country:** Name of the country.
- Code: Country code (ISO 3166-1 alpha-2).
- Flag Code: Country flag code (ISO 3166-1 alpha-2).
- Active: Indicates whether the country is active in the system (Yes/No).



6.1.1 Create a New Country

To create a new country, follow these steps:

- 1. **Click "New":** On the Countries page, click the "New" button.
- 2. Fill in the fields: Enter the name of the country, the ISO 3166-1 alpha-2 code and the flag code.
- 3. Check "Active": Make sure the "Active" checkbox is selected.
- 4. Click on "Save": To finish registering the country.

Countries			
+ CREATE C REI	FRESH EXPORT		Q Search
Country	Country Code	Flag Code	Active
Brasil	1086	BR.png	Yes
Uruguay	+ Add Country		×
USA	Country Name Country Name is Required Flag Code None.png	Country Code Country Code Is Required Country Code Is Required Update	d
			CANCEL SAVE

Create and Edit Countries Page

6.1.2 Edit a Country

To edit an existing country, follow the steps described in the "Basic Operations" section of this manual.


6.2 States

The States page displays a list of all states registered in the system, with their respective countries and acronyms.

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Home	Ŧ	+ CREATE C REFRESH			Q Search				
C Services	• •	Select a Country Brasil 👻							
Localization		State	Abreviation	Active				ctions	
: Countries		Minas Gerais	Mg	Yes			1	1	
: States		Rio de Janeiro	RJ	Yes			1	•	i -
i≡ Cities Security	.	Rio Grande do Sul	RS	Yes				•	i i
t Utility	-	Santa Catarina	SC	Yes					1
About		São Paulo	SP	Yes				•	
					Rows per page 10 🔻 page 1-5	of 5 <	<	>	>1

States page

States Table Fields:

- Country: Name of the country to which the state belongs (foreign key of the Countries table).
- State: Name of the state.
- UF: Acronym of the Federation Unit (two characters).
- Active: Indicates whether the status is active in the system (Yes/No).

At the top of the page, you will find a Country selector to filter the list and display only the states belonging to the selected country.



6.2.1 Create a New State

To create a new state, follow these steps:

- 1. Click "New": On the States page, click the "New" button.
- 2. Select country: Choose the country the state belongs to in the Country selector.
- 3. Fill in the fields: Enter the name of the state and the acronym of the UF.
- 4. Check "Active": Make sure the "Active" checkbox is selected.
- 5. Click "Save": To finalize the state registration.

States				
+ CREATE C REFR	ESH EXPORT		Q Search	
Select a Country Brasil	*			
State	Abreviation	Active		Actions
Minas Gerais	ල Update State		×	× •
Rio de Janeiro	Identification	Select a Country		× 1
Rio Grande do Sul	dc1427da-d7b5-4acb-91f4-521a6b947324		•	/ =
Santa Catarina	State Name São Paulo	SP Acti	ive	× •
São Paulo	Updated			× •
		C4	ANCEL UPDATE	

State Creation/Editing Form

6.2.2 Edit a State

To edit an existing state, follow the steps described in the "Basic Operations" section of this manual.



6.3 Cities

The Cities page displays a list of all cities registered in the system, with their respective countries, states and codes (optional).

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Admi	in	≡			X	Hello, adm	in! Logou	π [→
linx data		Cities						
Home Devices		+ CREATE C REFRES	H 💽 EXPORT		Q. Search			
Services	*	Select a Country Brasil	select State São Paulo	Ť				
Administration	*	City	Code	Active			Actions	
➡ Localization	1	Campinas	12345	Yes			/ 1	1
i≣ States		Santo Amaro	011	Yes			/ 1	
:= Cities								
Security	•	São Paulo	011	Yes			/	
🔉 Utility	•							
About								
					Rows per page 10 👻 page 1-3 of 3	< <	>	>1

Cities Page

Cities Table Fields:

- **Country:** Name of the country to which the city belongs (foreign key from the Countries table).
- State: Name of the state to which the city belongs (foreign key of the States table).
- **City:** Name of the city.
- **Code:** City code (optional).
- Active: Indicates whether the city is active in the system (Yes/No).

At the top of the page, you will find Country and State selectors to filter the list and display only cities belonging to the selected combination.



6.3.1 Create a New City

To create a new city, follow these steps:

- 1. **Click "New":** On the Cities page, click the "New" button.
- 2. **Select country and state:** Choose the country and state the city belongs to in the corresponding selectors.
- 3. Fill in the fields: Enter the city name and code (optional).
- 4. **Check "Active":** Make sure the "Active" checkbox is selected.
- 5. Click "Save": To finalize the city's registration.

Cities				
+ CREATE C REFRESH	EXPORT		Q Search	
Select a Country Brasil	seleot State ✔ São Paulo	*		
Cîty	Code	Active		Actions
Campinas	ල Update City		×	× •
Santo Amaro	- Identification	Select a Country		/ 1
São Paulo				/ 1
	Select State	City Name		
	dc1427da-d7b5-4acb-91f4-521a6b947324	✓ São Paulo		
	Otry Code Active	Updated		
			CANCEL UPDATE	

City Creation/Editing Form

6.3.2 Edit a City

To edit an existing city, follow the steps described in the "Basic Operations" section of this manual.



7. Service Orders (Admin and Operator Profile)

The "Work Order Management" section of LinxData.Adm allows users with an **Admin** and **Operator profile** to create, view, edit and track the progress of work orders related to monitored devices.

7.1 Work Order Section Overview

The Service Orders page displays a paginated list of all service orders registered in the system, including information such as order number, customer, responsible technician, associated device, status and start and end dates.



Service Orders Page



7.2 Creating a New Service Order

To create a new work order, follow these steps:

- 1. Access the Service Orders page: In the side menu, click on "Services" and then on "Service Orders".
- 2. Click "New": On the Work Orders page, click the "New" button.
- 3. Fill in the fields:
 - **Number:** Automatically generated by the system.
 - **Customer:** Select the customer for whom the work order will be created.
 - **Technician:** Select the technician responsible for the service order (optional).
 - Device (Card): Select the device associated with the work order.
 - **Sensor Number:** Enter the sensor number, if applicable.
 - **Previous Event Status:** Enter the status of the event prior to the reported problem.
 - **Event Status:** Enter the current status of the event.
 - **Description:** Describe the problem reported by the customer (minimum 10 and maximum 200 characters).
 - **Comment:** Add an internal comment about the service order (optional, minimum of 10 and maximum of 200 characters).
 - **Order Status:** Select the initial status of the work order (Open, In Progress, Completed, etc.).
 - **Order Date:** Automatically filled with the current date.
 - **End Date:** Populated when the work order is completed.
 - **Hours Worked:** Enter the time spent executing the service order (optional).
- 4. Click "Save": To finish creating the service order.

7.3 Viewing and Editing Work Orders

To view or edit an existing work order, follow the steps described in the "Basic Operations" section of this manual. When you click on the magnifying glass icon (view) or the pencil icon (edit), you will be directed to the work order details page, where you can view or change the registered information.

7.4 Status of Service Orders

The status of a work order indicates its progress:

- **Open:** The work order has been created but has not yet been started.
- In Progress: The technician is working on the work order.
- Completed: The work order has been completed.



• **Canceled:** The work order has been canceled.

The status of the service order can be changed by the responsible technician or the system administrator.

Service (Orders					
+ CREATE	ල Update Service Order				×	
Device	Identification cc5fde39-e2f2-4b96-9964-a4f83ee40c1d	Service Order Number	Select Customer Condominio Oiapock	Ŧ		Active
00000001	Select Device Card D0000003 - Condominio Olapock 🔹	Select Techniolan Técnico Luiz Pires	•	Service Order Date	Service Order End Date	Yes Yes
	Event Status Previous. Event Status 0000000000 000000000	Hours Worked	Service Order Status Completed 👻	Sensor Number	Active	
	✓ Updated					
	Description					
	Comment Sem comentários, por enquanto.					
					CANCEL UPDATE	→ pa

Service Order Create/Edit





8. System Logs (Admin Profile)

The "System Logs" section in LinxData.Adm allows users with an Admin profile to view and manage the logs generated by the system, helping to identify and resolve problems, in addition to providing important information about the application's operation.

8.1 Viewing Logs

The System Logs page displays a paginated list of available log files. To access this page, click on "Utilities" in the side menu and then on "System Logs".



The System Logs page displays the following elements:

- Title: "Log Files" •
- Refresh Button: Updates the list of log files.
- Date Selector: Allows you to select a date range to filter the displayed logs. The system will display the logs for the selected date and the previous 10 days.



- Search Field ("Search"): Allows you to search for specific log files.
- Log Table: Displays the log files in a table format, with the following columns:
- Log File: Name of the log file (in the format "webapi-dd/MM/yyyy.log").
- Actions: Buttons to view and download the log file.

8.2 Viewing the Contents of a Log

To view the contents of a log file, click the magnifying glass icon in the "Actions" column of the row corresponding to the desired file. A dialog window (modal) will open, displaying the contents of the log.

View Log File	
webpi28/07/2024.log 2024-07-28 06:42:30.780 -03:00 [WRN] ServData.Api.Infrastructure.Middleware.UserlpMiddleware /api/logs/ Captured IP address: 189.122.189.176 2024-07-28 06:43:20.551 -03:00 [WRN] ServData.Api.Infrastructure.Middleware.UserlpMiddleware /api/account/login Captured IP address: 189.122.189.176 2024-07-28 06:43:21.627 -03:00 [WRN] ServData.Api.Infrastructure.Middleware.UserlpMiddleware /api/account/login Captured IP address: 189.122.189.176 2024-07-28 06:43:21.627 -03:00 [WRN] ServData.Api.Infrastructure.Middleware.UserlpMiddleware /api/account/login Captured IP address: 189.122.189.176 2024-07-28 06:43:21.627 -03:00 [WRN] ServData.Api.Contoller /.api/account/login Captured IP address: 189.128.189.176	ĺ
2024-07-28 06:43:26.799-03:00 [WRN] ServData.Api.infrastructure. Middleware. UserlpMiddleware 'api/logs Captured IP address: 189.122.189.176 2024-07-28 06:43:27.037-03:00 [WRN] ServData.Api.infrastructure. Middleware. UserlpMiddleware 'api/logs Captured IP address: 189.122.189.176 2024-07-28 06:44:20.399-03:00 [WRN] ServData.Api.infrastructure. Middleware. UserlpMiddleware 'api/logs Captured IP address: 189.122.189.176 2024-07-28 06:44:09.399-03:00 [WRN] ServData.Api.infrastructure. Middleware. UserlpMiddleware 'api/logs/getlogcontent Captured IP address: 189.122.189.176 2024-07-28 06:44:09.499-03:00 [WRN] ServData.Api.infrastructure. Middleware. UserlpMiddleware 'api/logs/getlogcontent Captured IP address: 189.122.189.176 2024-07-28 06:44:51.81 -0.300 [WRN] ServData.Api.infrastructure. Middleware. UserlpMiddleware 'api/logs/getlogcontent Captured IP address: 189.122.189.176 2024-07-28 07:64:45.181 -0.300 [WRN] ServData.Api.infrastructure. Middleware. UserlpMiddleware 'api/logs/getlogcontent Captured IP address: 189.122.189.176 2024-07-28 07:65:01.270 -0300 [WRN] ServData.Api.infrastructure. Middleware. UserlpMiddleware 'api/logs/getlogcontent Captured IP address: 189.122.189.176 2024-07-28 07:56:01.270 -0300 [WRN] ServData.Api.infrastructure. Middleware. UserlpMiddleware 'api/logs Captured IP address: 189.122.189.176 2024-07-28 07:56:01.270 -0300 [WRN] ServData.Api.infrastructure. Middleware. UserlpMiddleware 'api/logs Captured IP address: 189.122.189.176 2024-07-28 07:57:17.372 -0300 [WRN] ServData.Api.infrastructure. Middleware. UserlpMiddleware 'api/logs/getlogcontent Captured IP address: 189.122.189.176 2024-	Γ.

Log Viewer Window]

The dialog window has the following elements:

- Title: "View Log File"
- File Name: Displayed in the upper left corner of the window.
- Multiline Text Field: Displays the contents of the log file.
- **Clipboard Button**: Copies the contents of the log to the clipboard.
- **Refresh Button**: Updates the contents of the log displayed in the window.
- Back Button: Closes the dialog window and returns to the System Logs page.



8.3 Downloading a Log File

To download a log file, click the download icon in the "Actions" column of the row corresponding to the desired file. The file will be downloaded to your computer.

8.4 Important Notes

- File Format: Log files are stored in the format "webapi-dd/MM/yyyy.log", where "dd/MM/yyyy" represents the date of the log.
- **Filter by Date**: The date selector allows you to filter the displayed logs by a period of 11 days (the selected date and the previous 10 days).
- Search: The search field allows you to find specific logs based on the file name.
- **Refresh List**: The "Refresh" button updates the list of logs displayed on the page.



LinxData Glossary

API (Application Programming Interface): Application Programming Interface. Set of rules and specifications that allows different software to communicate and exchange information with each other. In the context of LinxData, the API is used for communication between monitoring devices and the central system.

Device: Electronic equipment or physical component that connects to LinxData to be monitored and managed. Examples of devices include sensors, cameras, alarms, among others.

Endpoint: Access point to a web service or API. In LinxData, endpoints are used to perform specific actions, such as sending monitoring data or requesting information about a device.

ESP32: Low-cost, high-performance microcontroller, with integrated Wi-Fi and Bluetooth connectivity, used in several Internet of Things (IoT) projects, including LinxData monitoring devices.

Event: Occurrence registered by LinxData that represents a change in the state or functioning of a device. Examples of events include alarms, faults, temperature changes, among others.

Hal: Device hardware status indicator. Tells you if the device is working properly or if there is a problem.

H2O: Field in the event data that informs the reading of the distance sensor in centimeters, used in devices of the "Water Reservoir Monitor" type.

Login: Authentication process in which the user enters their credentials (email and password) to access the LinxData system.

Access Profile: Set of permissions that define the functionalities and actions that a user can perform in LinxData. The access profiles are Admin, Manager, Operator, Employee, User, Client, Commercial, Device, Engineer and Financial.

Security Token: String generated by LinxData to authenticate and authorize device access to the API.

Replacement Token: Variable used in LinxData.Adm email and SMS messages to insert dynamic information, such as device code, date and time of the event, device status, etc. Tokens are represented by square brackets ([]) and are replaced by the corresponding values when sending the message.



Web API: Web-based application programming interface that allows communication between different systems and applications over the internet. In LinxData, the Web API is used to receive monitoring data from devices and provide information about the system.