
Welotec

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May 09, 2022

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ADMIN GUIDE

1.1 Introduction

This document intends to provide information and instruction on using a SMART EMS system. Includes information about the product's features and how some of the features are designed to work. Document also provides system requirements and copyright info.

1.2 System requirements

System is designed to be used by a web browser. In order to ensure the proper functioning of the system, web browser should support following standards:

- HTML 5
- CSS 3
- JavaScript support

The application is designed especially for the following web browsers:

- Edge version 99 and compatible
- Firefox version 98 and compatible
- Google Chrome version 99 and compatible
- Opera version 83 and compatible
- Safari version 15 and compatible

1.3 Login

Before using SMART EMS you will be asked to authorize yourself. It can be done by providing Username and Password and clicking Log in button.



1.4 Interface overview

Interface might slightly differ in appearance on the different web browsers, due to different ways of rendering structure of the page.

1.4.1 Branding

System might be additionally personalized based on your branding needs, therefore screens presented in this document might differ in color, appearance and branding from the system you are currently using. Structure and general interface of a personalized system remains intact.

1.4.2 General

Sidebar

Sidebar is located on the left and holds an expandable menu designed to navigate through Welotec SMART EMS.



Navbar

Navbar is located at the top and holds information about currently logged in user and session expire time. Expandable menu with additional options is available after clicking on the username.



Content

General content is located in the middle and presents selected information.



1.5 Using SMART EMS

1.5.1 Edge gateways

This section allows you to view a list of available Edge gateways.



Edge gateway specific information

Please contact Welotec directly for detailed information about the Edge gateway communication process.

Actions

You can perform following extra actions on a single Edge gateway:

- Details - View details about Edge gateway. Detailed information are provided in Details section
- Logs
 - Edge gateway logs - View logs for selected Edge gateway
 - Edge gateway commands - View commands for selected Edge gateway
 - Edge gateway config logs - View config logs for selected Edge gateway
- Show config - View contents of startup config in popup

1.5.2 Edge gateway templates

This section allows you to view a list of available Edge gateway templates, create new or export all visible Edge gateway templates as .xls or .csv file.



1.6 Settings

In order to modify Settings please open your profile menu (top right corner) and choose “Settings”. Settings screen is divided into tabs.



1.7 REST API Documentation

In order to view REST API Documentation please open your profile menu (top right corner) and choose “REST API Documentation”. This option might be disabled by the Administrator.

LEGACY REST API

SMART EMS system contains REST API with following function and endpoints:

- ConfigureRouter: /api/configure-router
- ActivateRouter: /api/activate-router
- RouterStatus: /api/router-status
- RouterStatusAll: /api/router-status-all
- GetRouterTemplate: /api/router-template
- DeleteRoute: /api/delete-router
- RoutersNotConnected: /api/routers-not-connected
- Templates: /api/templates

Only POST Method is allowed while using REST API. Requested data must be in JSON format and data in response returned by API is in JSON format as well. All dates (i.e. lastSeen) are formatted according to ISO 8601 (https://pl.wikipedia.org/wiki/ISO_8601). Example dates using this format:

2004-02-12T15:19:21+00:00 2005-01-02T03:01:45+01:00

Basic authentication is required to get access to the API. API users created in the administration panel will get an API key generated for them which must be sent with every request.

Endpoints with example domain is used in this documentation: <https://example.com/> Please remember to change the example domain to your existing one or valid IP.

Example:

```
curl --header "Content-Type: application/json" --user username:key --data '{"Routers": [{"Serial": "RF123456"}]}' https://example.com/api/router-status
```

Option '-include' may be added in need of requiring additional info from header like returned status code, returned content type, server name, cookies, date of the document, HTTP version etc.:

```
curl --include --header "Content-Type: application/json" --user username:key --data '{"Routers": [{"Serial": "RF123456"}]}' https://example.com/api/router-status
```

All requests and responses will be logged, alongside unsuccessful requests (wrong data format, permission denials, etc.).

Error response will be returned in case request with invalid data.

```
{"Status": "OK", "RouterStatus": {"RF123456": "Router does not exist"}}
```

2.1 ConfigureRouter

Endpoint: /api/configure-router Test1: curl -header "Content-Type: application/json" -user username:key -data '{"Serial": "RF123456", "Activate": 1, "IMSI": "cx", "Templateid": 6}' https://example.com/api/configure-router

Test2: curl -header "Content-Type: application/json" -user username:key -data '{"Serial": "RF9151632340198", "Activate": 1, "IMSI": "262011406930205", "Templateid": 1, "RouterVariables": {"ExampleVariableName": "Example Router"}}' https://example.com/api/configure-router

Parameter	Type	Obligatory	Comment
Serial	string	YES/NO	Parameter is obligatory when application is configured to use Serial as identifier
IMSI	string	YES/NO	Parameter is obligatory when application is configured to use IMSI as identifier
Activate	boolean	YES	Values are 1 (Enabled), anything else is interpreted as 0 (Disabled)
RouterType	integer	NO	One of constants value in src\SmartEms\ProjectBundle\Model\RouterTypeInterface If missing, will be used 1 as default (ROUTERTYPE_TK800)
Template-name	string	NO	
Templateid	integer	NO	
RouterVariables	string	NO	Variables has to be in valid JSON format, if not will result in error
Reinstall-StartupConfig	boolean	NO	The default value is TRUE; Possible values are: 1 (True), 0 (False). Anything else will result in error