

USER INFORMATION CMS-10R

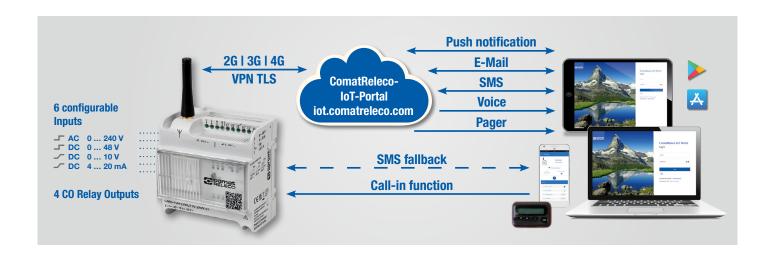


Index	Page
1. System overview	3
2. Communication channels	5
3. IoT Portal https://iot.comatreleco.com	6
4. Setup a device	17
5. Use the device	27
6. Application examples	32



More than a simple SMS relay

ComatReleco Messaging System CMS-10R



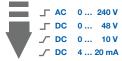


1. System overview



Digital and analog inputs:

Three device types are available, with different inputs



6 Inputs

CMS-10R-D/AC110-240V-Z2 µ-\sigma: AC-1 10 A / 250 V ~



App and E-Mail, additionally SMS:

Push, e-mail, pager notification, voice call or SMS as standard communication options. They use the bidirectional communication channels according to their needs

Plug and Play:

Wireless programming via the internet with PC, smart phone or tablet.









Easy device swap:

Upload the existing configuration file to the new CMS-10R.



All in one:

The CMS-10R has full out-ofthe-box functionality. Mobile communication is included.



The CMS-10R is a remote monitoring and control system for industrial and building technology. It reports status changes to the digital or analogue inputs via the mobile phone network by push notification, email, pager notification, voice call or SMS. The outputs are controlled via the Smart App web browser. If necessary, the configured outputs can also be switched with SMS control messages and a call-in function (call to the device). The CMS-10R automatically selects the network generation with the highest field strength at the installation site.









2G communication.

CMS-10F

- Separate SIM card from a mobile service provider of your choice.
- Communication costs incurred by service provider.
- Configuration via RS232 cable link.
- Size 88 x 90 x 55 cm.
- Different hardware versions with 6 inputs / 4 outputs.
- Notification and control via SMS.

- 2G, 3G and 4G communication.
- Integrated eSIM, works worldwide.
- Communication costs covered with the chosen service profile from ComatReleco IoT portal.
- Configuration via IoT portal.
 Configurations from old devices can be overtaken.



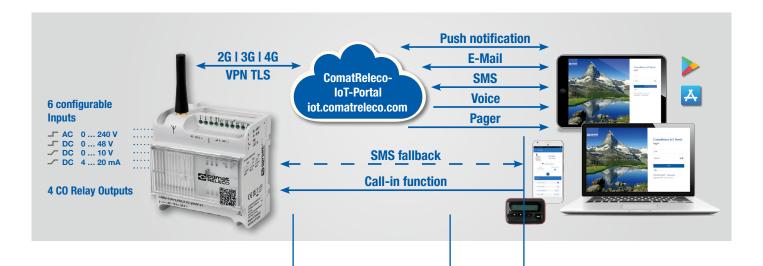
- Same size.
- Matching hardware versions available
- Wiring schematics remains the same as with CMS-10F, one-to-one replacement.
- Notification and control via push, e-mail, pager notification, voice call or SMS. Call-in and fallback functions included.

Previous version	Current device version
CMS-10F/AC110-240V	CMS-10R-D/AC110-240V
CMS-10F/DC12-48V oder CMS-10ADF/DC12-48V	CMS-10R-DA/DC12-48V
CMS-10ACDF/DC12-48V	CMS-10R-DAC/DC12-48V

2. Communication channels



ComatReleco Messaging System CMS-10R



- The CMS-10R unit receives SMS messages with the unique unit phone number from the integrated eSIM. Same number is valid for call-in and SMS fallback.
- SMS fallback is used in the rare occasion when the IoT portal is not available, i.e. during this time, SMS will be sent instead of email and push notifications.
- The ComatReleco-loT-Portal transmits SMS messages by default * with the number +41 79 807 55 54

SMS and Pager messages to machines are sent by default * with the number +41 79 807 20 06

We recommend to store this numbers on the mobile phone under the name *«CoReM»*



The number of the CMS-10R unit can be found on the overview of the unit in the IoT Portal.

Example:

+41 77 129 24 10

We recommend to store this number on the mobile phone under the device name.

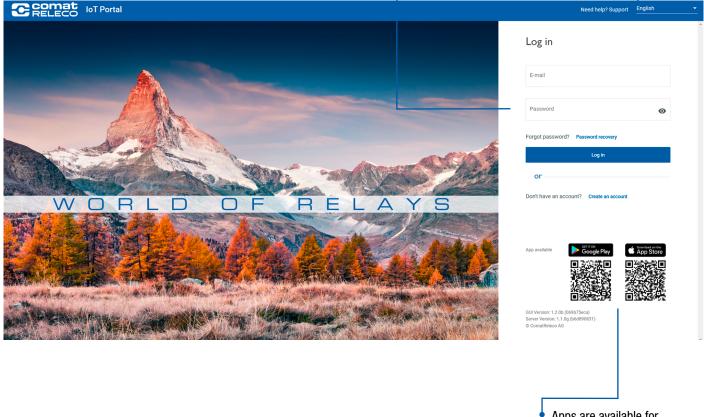
^{*} For large projects, it is possible to create customer, local numbers at additional cost.



All users need to have an account. Installers/owners also have the possibility to create user accounts, see page 15.

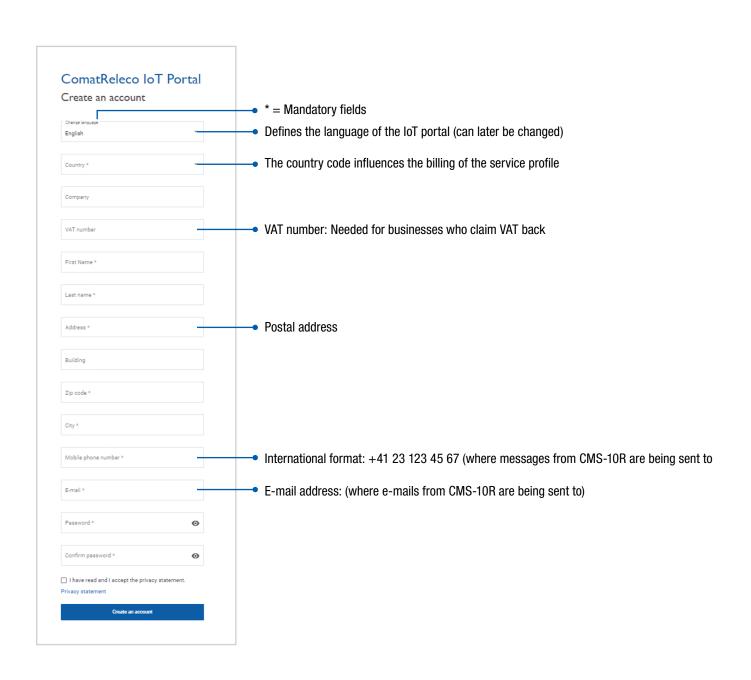
Exceptions are *«machines»* as defined on page 16.

Choose the language

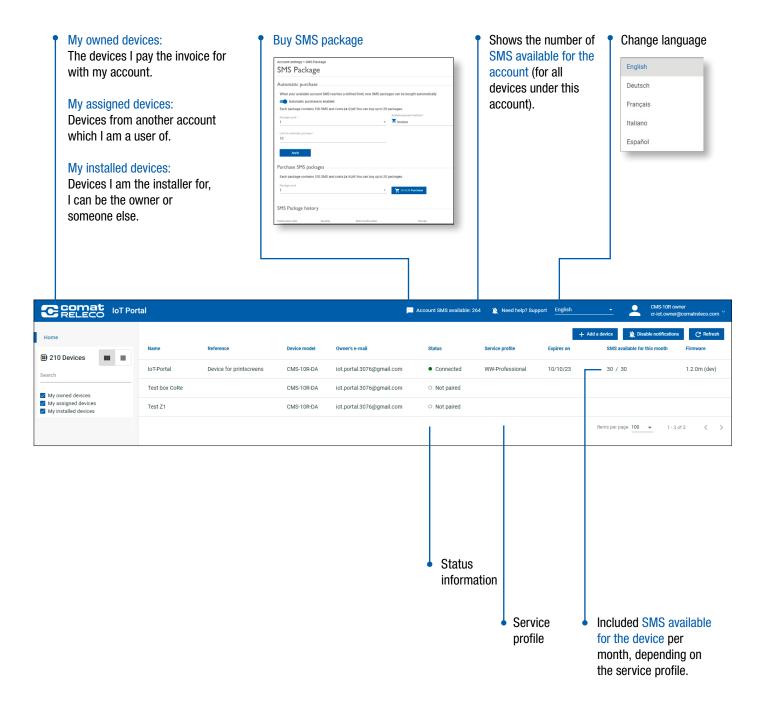


Apps are available for android and apple.

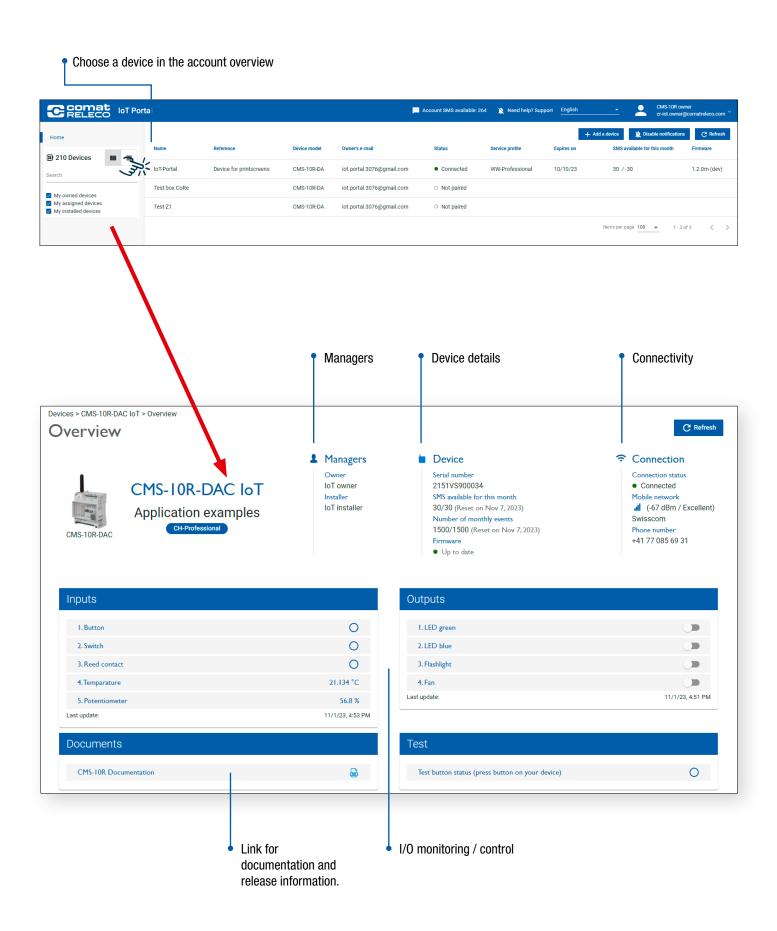








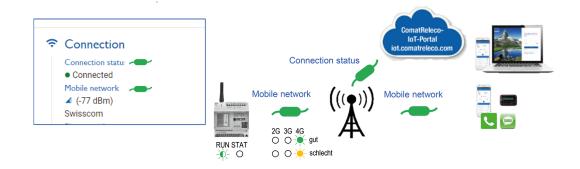




Device connection (fallback mode)



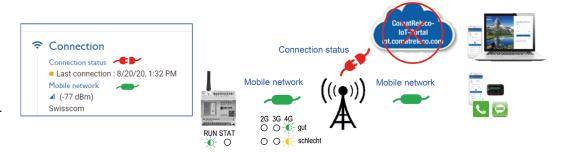
Normal operation



loT portal is not available

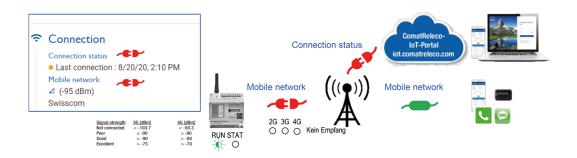
Device switches to fallback mode, i.e, during this time, SMS will be sent instead of email and/or push notifications.





No or very poor connection with mobile network.

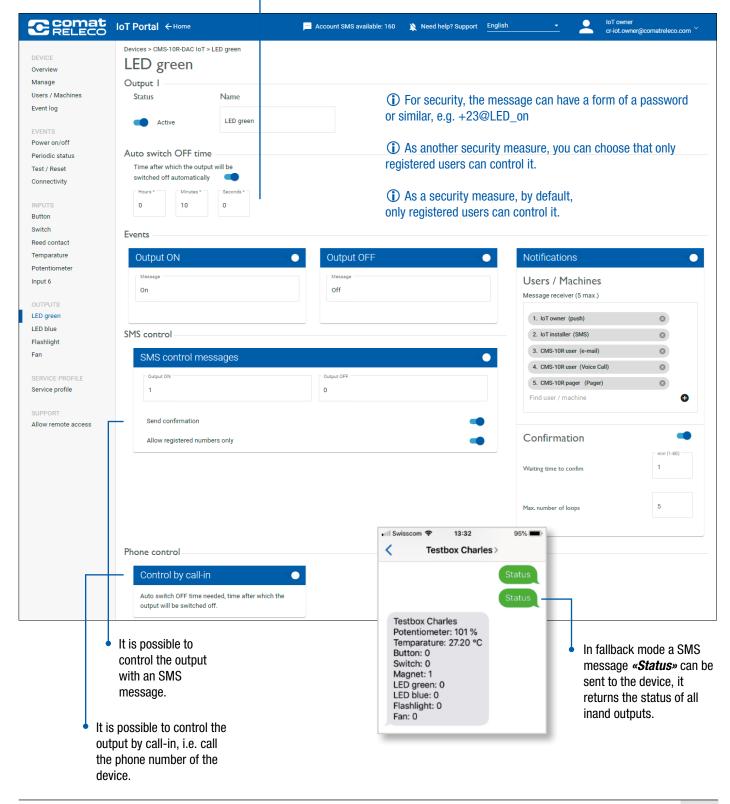
Events are stored in the device and sent once connection is re-established.



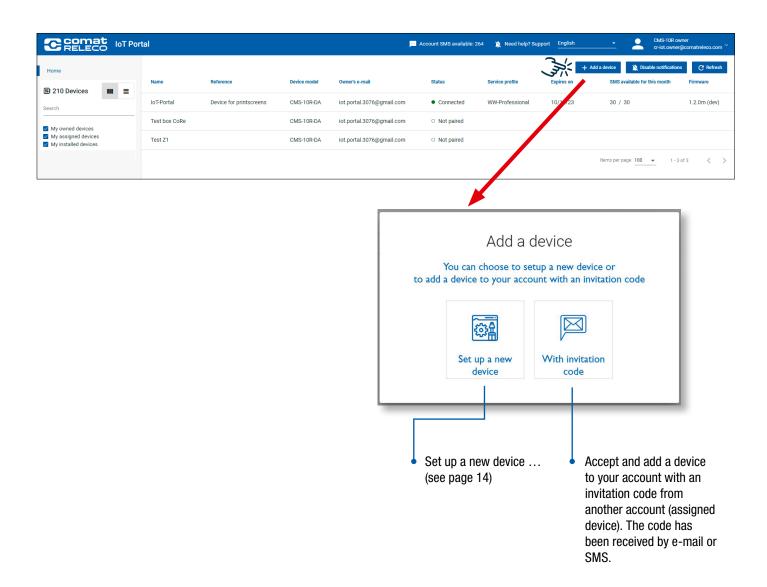


In the unlikely case the device is in fallback mode and you might need to switch one or more outputs during this time, configure the device in advance accordingly.

Time after the activated output will be switched off again (00:00:01 to 23:59:59 hours possible). Must be defined by call-in activation.











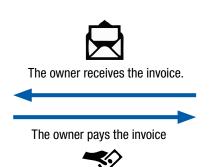
Installer

By default, the installer is also the owner. If you are not the owner (the bill recipient), you can transfer the device to the owner's account under **«Change owner»**.



Owner

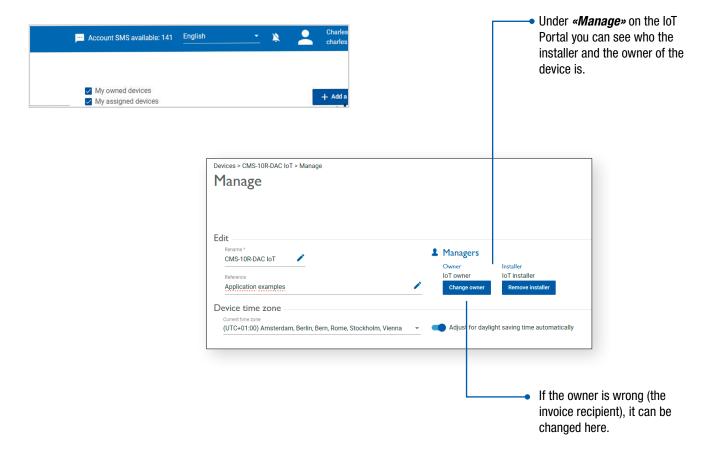
This means that the invoice is paid by the holder of this account.







Bought SMS packages on the account cannot be transferred to another account.



ComatReleco CMS-10R | User Information | 45013-099-54-002 |

3. IoT Portal

Setup a new device

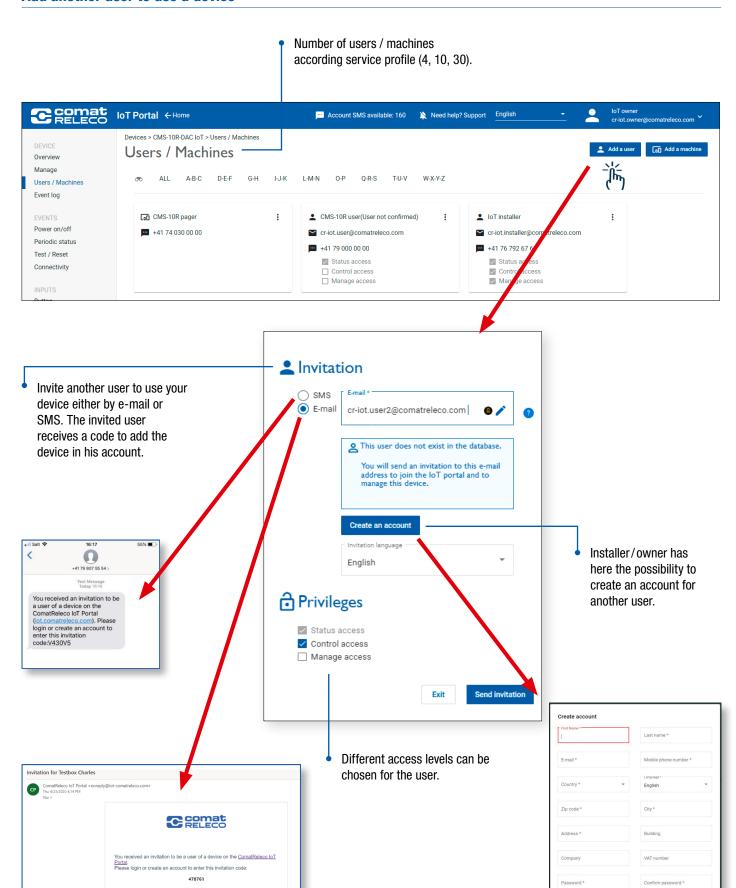




3. IoT Portal

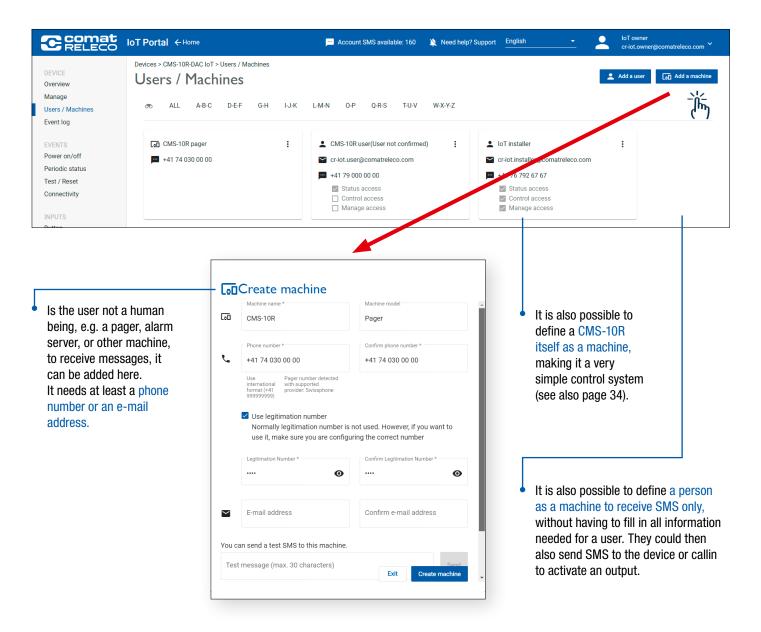




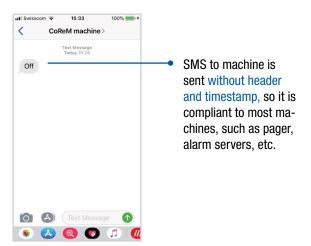


Cancel Create account





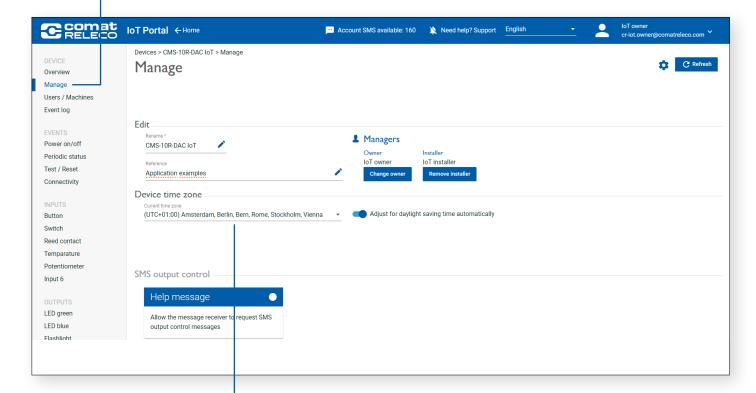
SMS to machine







Go to **«Manage»** on your device.

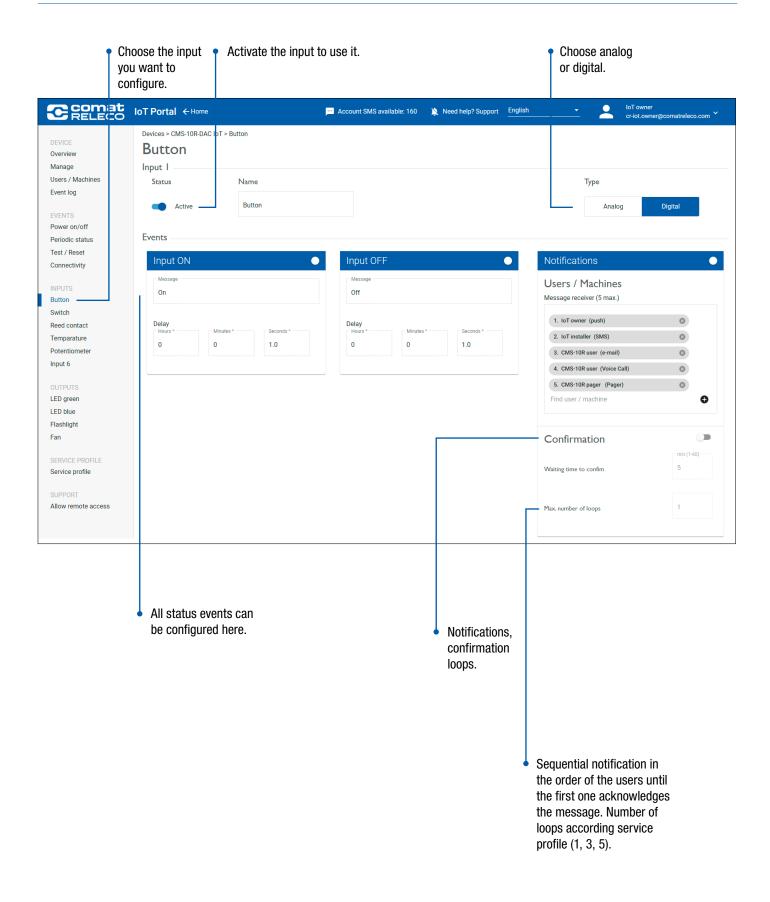




The device itself is set to UTC (GMT), https://www.timeanddate.com/worldclock/, therefore, set the time zone where you are, UTC+/-x, to have the correct time of the event.

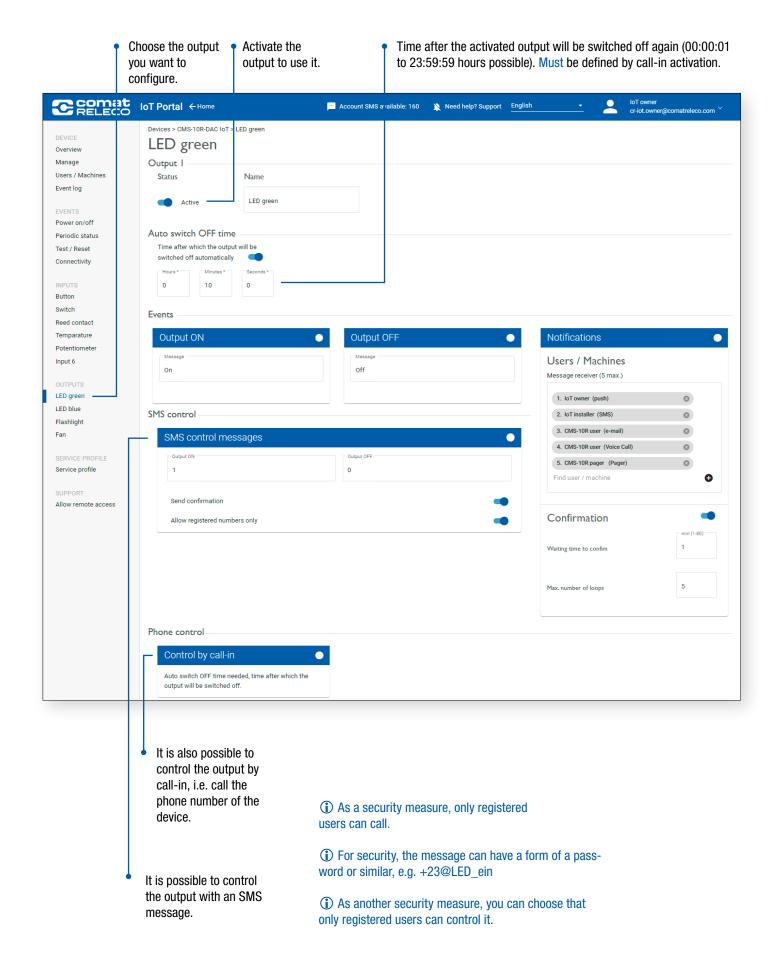
Configure a device







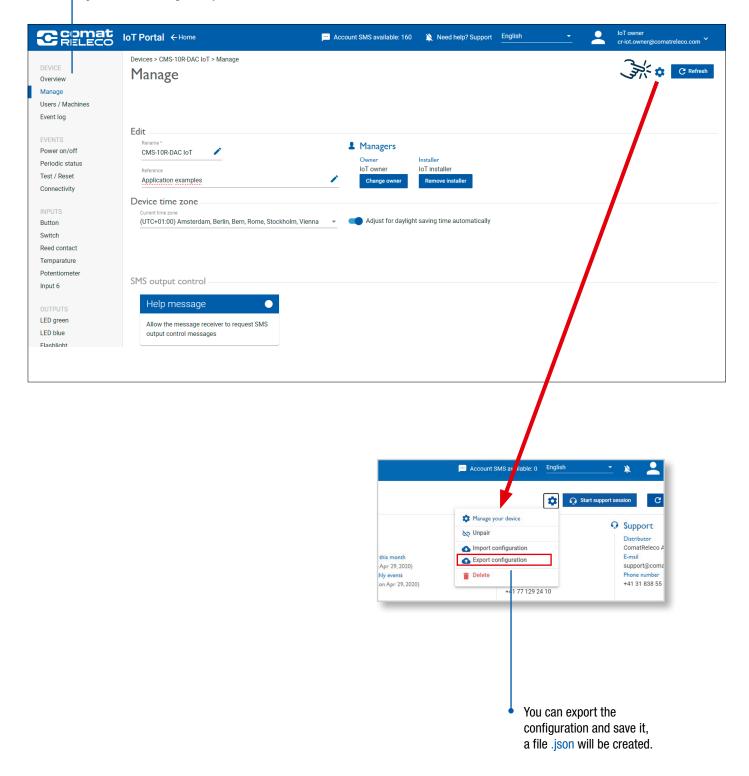




Configure a device



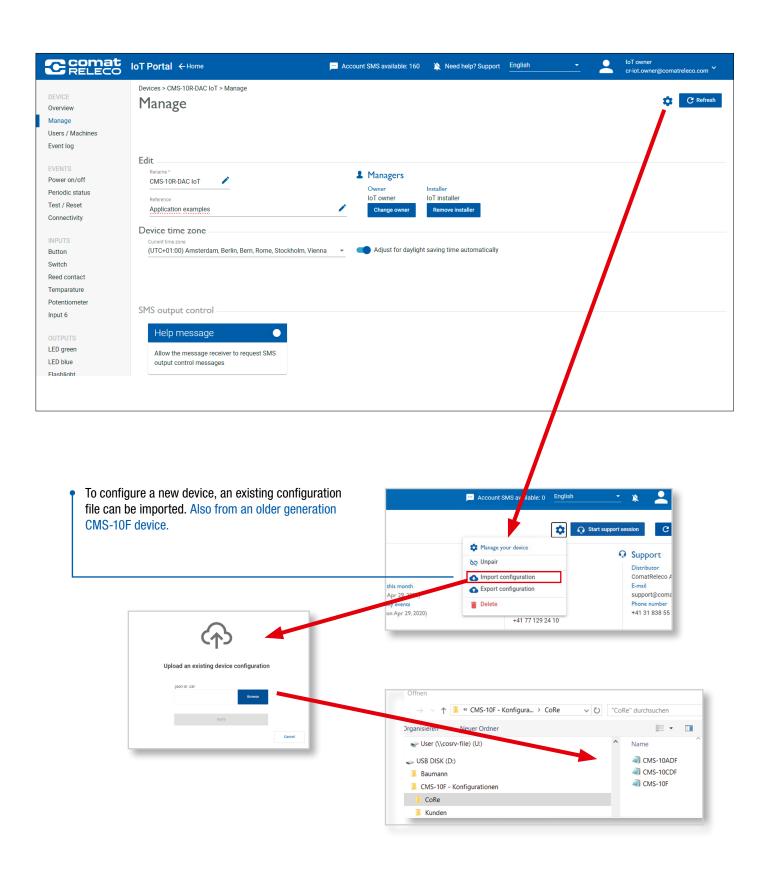
After you finished configuring the device, go back to **«Manage»** on your device.



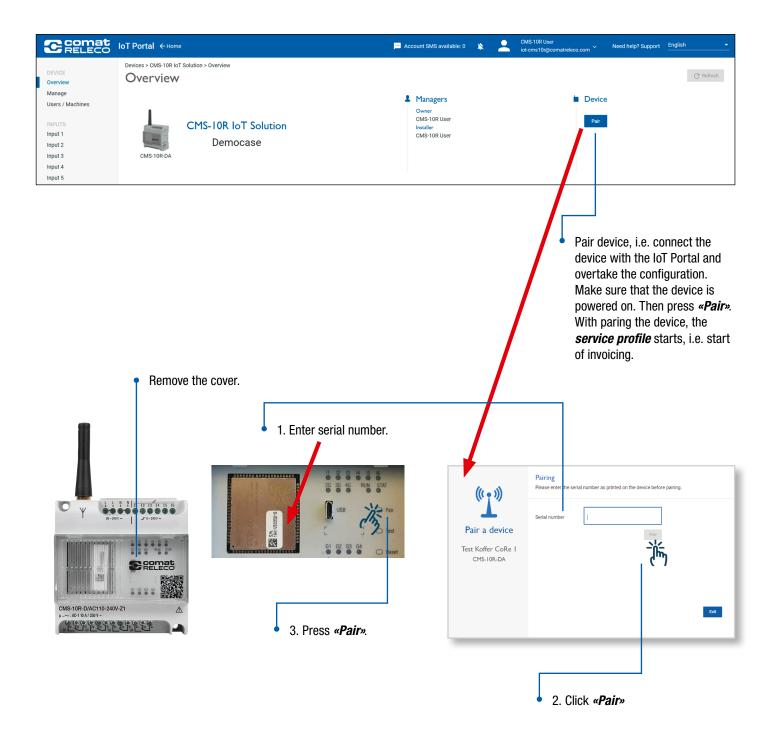
OF

Configure a device



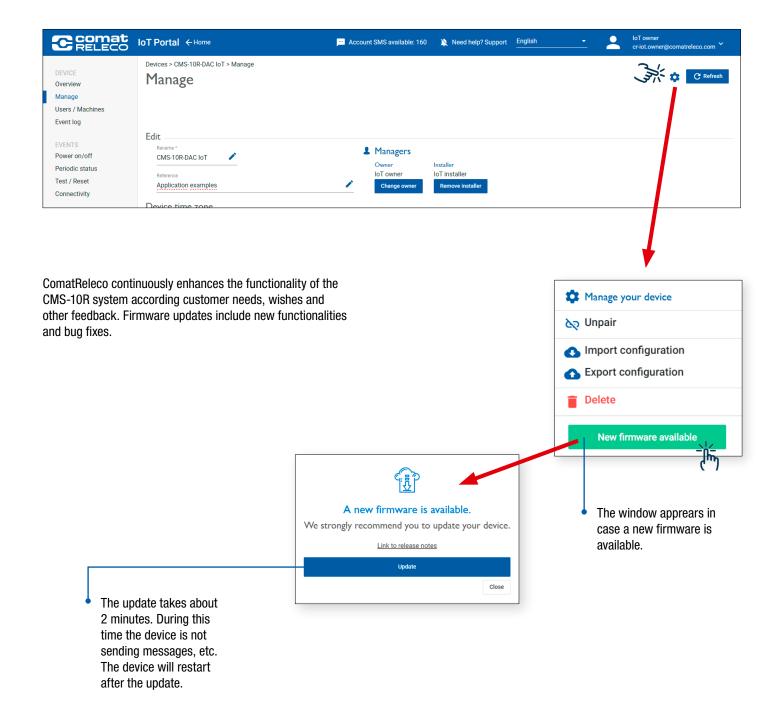




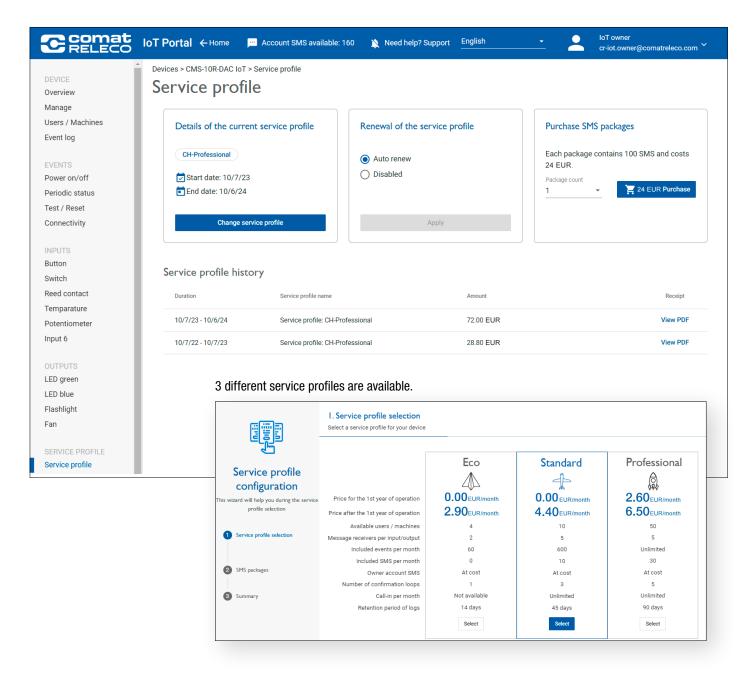


Firmware update









«Eco» and **«Standard»** are free of charge for the first year (starts when device is paired for first time).

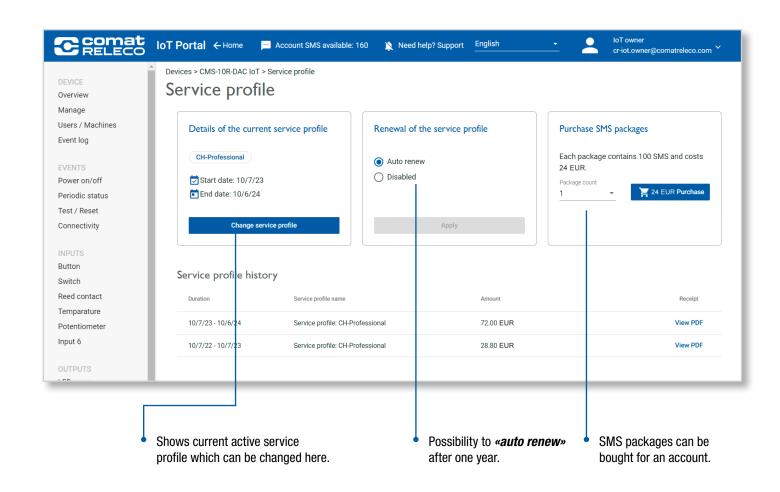
During the one-year term of the service profile, you can switch to the next higher service profile at any time. You can only switch to a lower service profile after the term has expired.

Service profiles

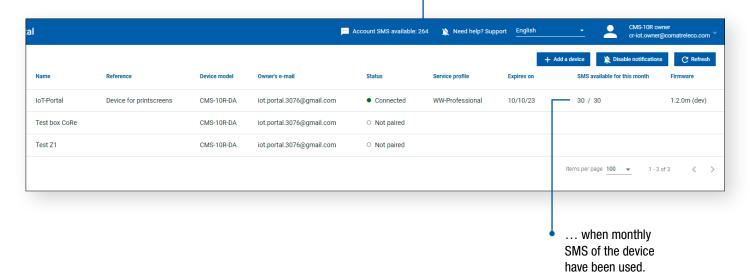
WORLD

OF

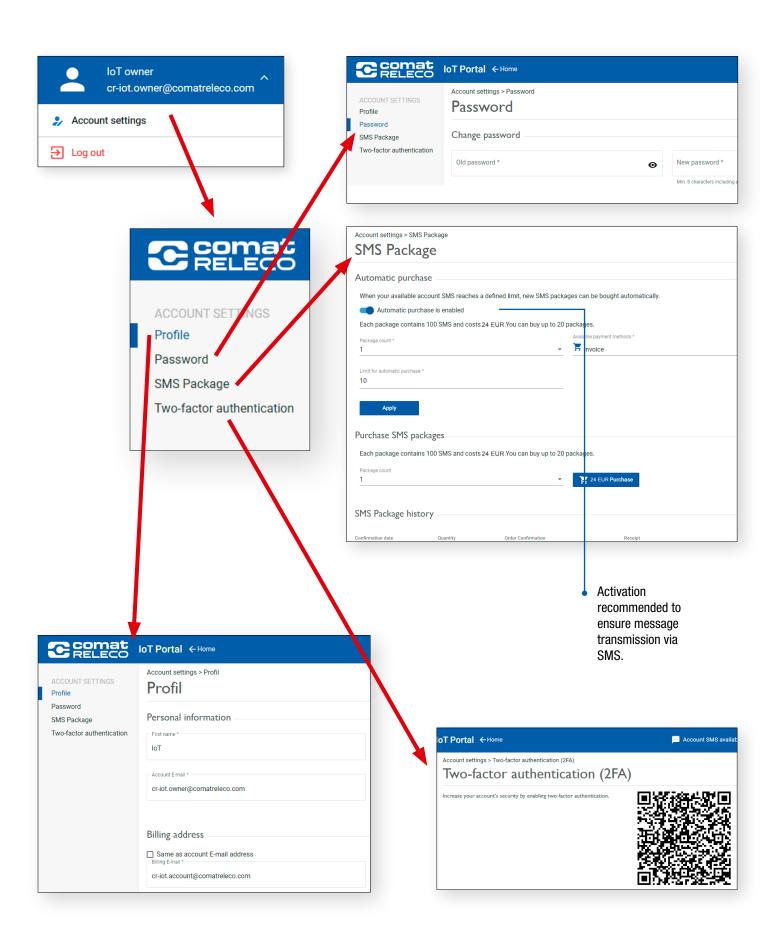




Overview shows the number of SMS available for the account. All devices owned by this account can use SMS ...

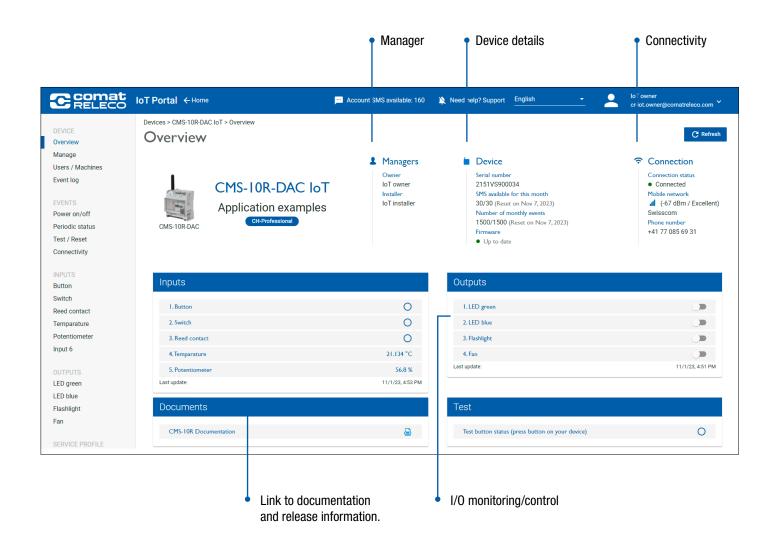


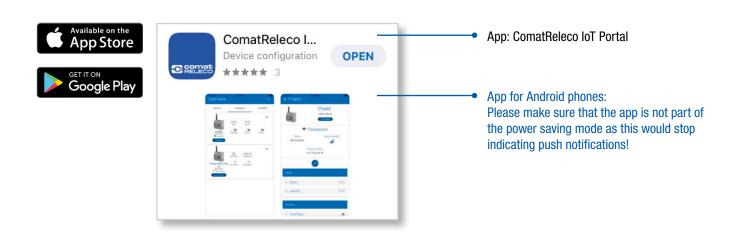




Device overview



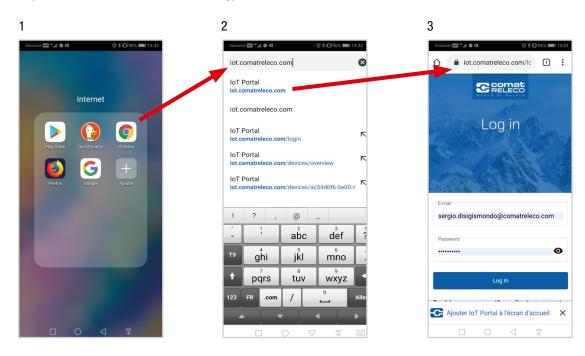


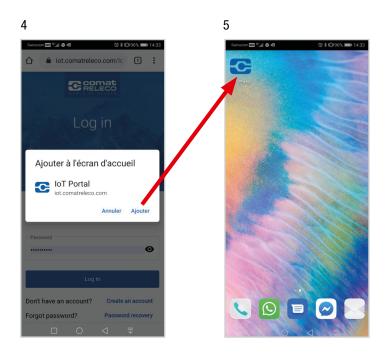




Create homescreen instead of using the app with android phones

Depended on android version and device type.

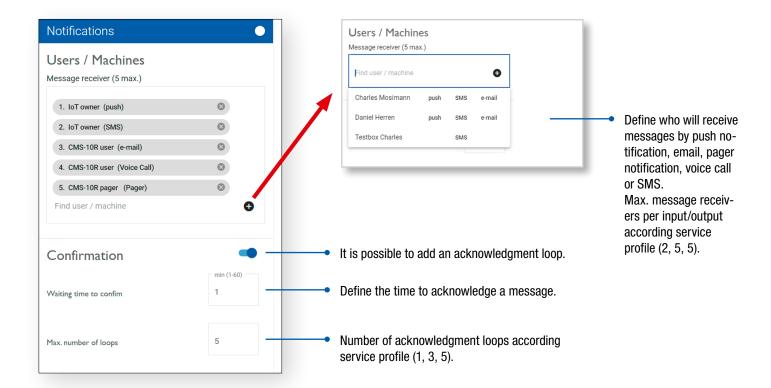




Create a «home-screen» until app is released (follow steps 1-4).

I/O, Status messages / notifications







If a confirmation loop is selected, please note that a machine (or a person defined as a machine) cannot acknowledge the message. The machine only receives the notification message, without any link to confirm.

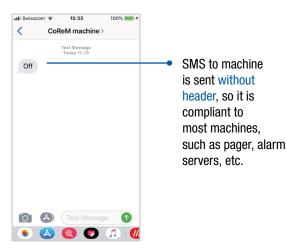
Push



SMS



SMS to machine

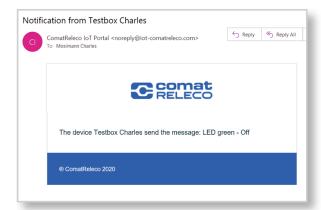


29

I/O, Status Messages / Notifications



E-mail



E-mail to machine

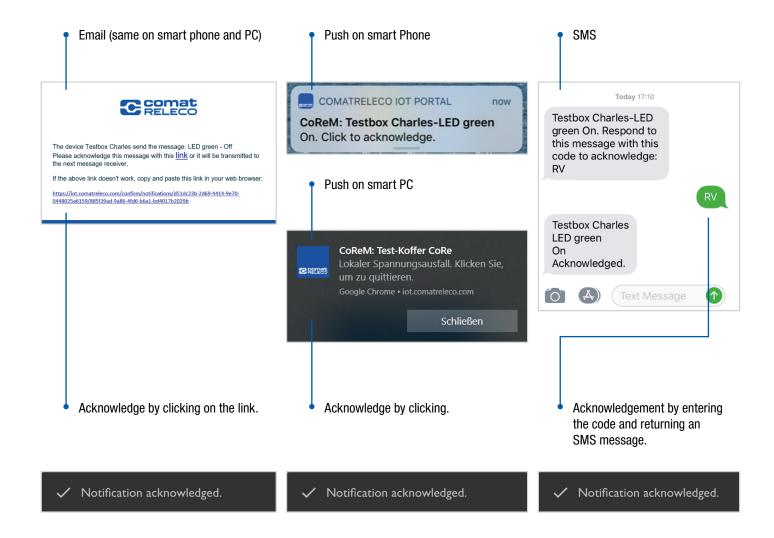






Acknowledgement



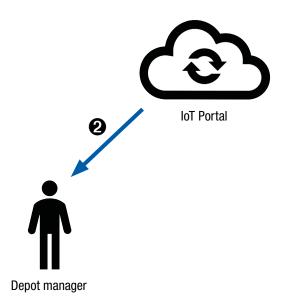


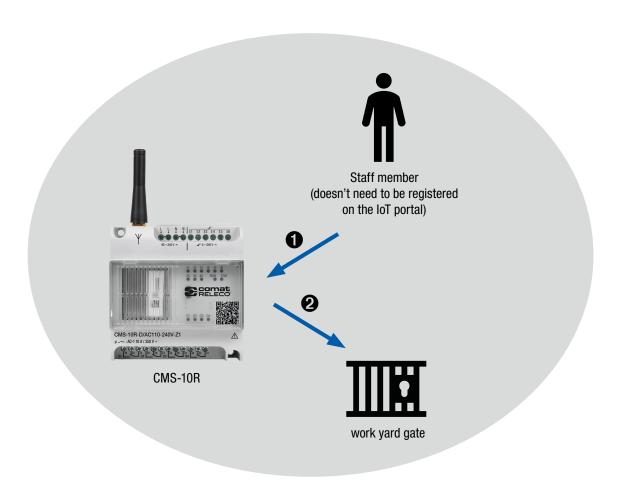


Access control of a work yard from a community with different employees.

Define an access code, i.e. SMS message, to switch an output. Distribute the access code to different people who can open the gate.

- An employee sends the SMS code to CMS-10R.
- 2 CMS-10R switches the output, an e-mail is being sent to the manager that someone entered the work yard.

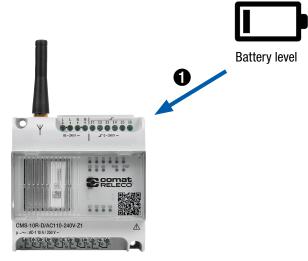




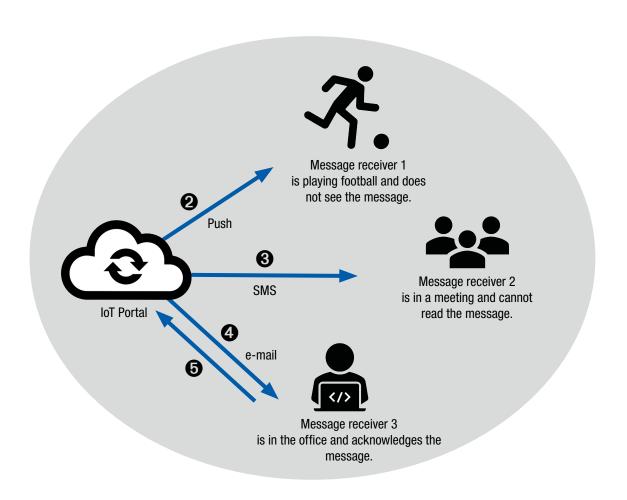


Acknowledgement of a message from monitoring a battery charge.

- 1 Level reaches threshold, input 1 of CMS-10R changes.
- 2 loT Portal sends a push notification with acknowledgment request to receiver 1.
- 3 Not acknowledged within defined time. IoT Portal sends an SMS notification with acknowledgment request to receiver 2.
- Not acknowledged within defined time. IoT Portal sends an e-mail notification with acknowledgment request to receiver 3.
- **5** Message receiver acknowledges.



CMS-10R



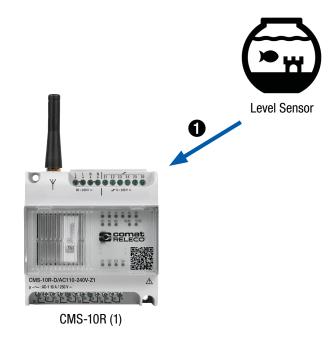
6. Application example

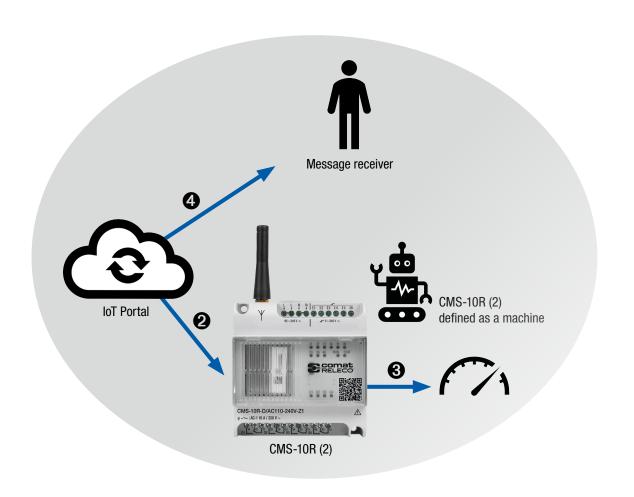
Remote control



Remote switching.

- 1 Level reaches the defined threshold, Input 1 of CMS-10R (1) changes.
- 2 3 IoT Portal sends an SMS to CMS-10R (2) (defined as a machine) to switch output 1.
- 4 IoT Portal sends a message to message to the message receiver that output 1 is switched on.





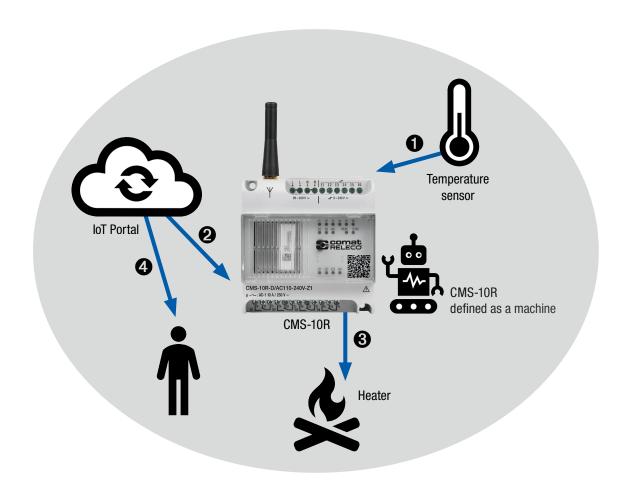
6. Application example





Measure the room temperature and switch the heater automatically on with information to the owner.

- 1 Temperature sensor indicates a temperature that reaches the threshold as defined in the configuration.
- 2 3 IoT Portal sends an SMS to the CMS-10R (defined as machine itself) to switch output 1.
- 4 IoT Portal sends a message to the owner that output 1 is switched on.



6. Application example

Pager, alarm server



CMS-10R sends messages from a control box to a alarm server.

- For example, the control box lost power, indicated on input 1.
- 2 IoT Portal sends an SMS to the pager, alarm server and an e-mail to the technical manager in charge.
- **3** The pager, alarm server sends an alarm to the service engineer on duty.

