Configuration Guide

INSYS icom

Industrial Data Communication

# INSYS Smart Device Monitoring App

## Sending a Daily Alive E-Mail

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# 1 Introduction

## General

The present publication refers to a combination of selected hardware and software components of INSYS icom GmbH as well as other manufacturers. All components have been combined with the target to realize certain results and effects for certain applications in the field of professional data transfer.

The exact descriptions of all used components, to which this publication refers, are described in the tables *Hardware, Accessories* and *Software* at the end of this publication.

The symbols and formattings used in this publication are explained in the correspondent section of the device manual.

Some configurations or preparations, which are precondition in this publication, are described in other publications. Therefore, always refer to the related device manuals. INSYS Smart Devices with web interface provide you with helpful information about the configuration possibilities, if you click on "display help text" in the header.

## Target of this Publication

An exemplary configuration for a typical Monitoring App application is presented here. If your application has similar requirements, you may modify the configuration on the basis of this Configuration Guide.

An INSYS Smart Device whose readiness for operation is to be monitored, sends an “alive” e-mail daily at a particular time to verify its readiness for operation to the recipient.

An action will be triggered at a particular time using a timer that dispatches an e-mail message to a particular recipient.

The following describes how to configure the Monitoring App of an INSYS Smart Device fault monitor such that it fulfils above described task. It is prerequisite here that the Smart Device is ready for operation, i.e. It has Internet connection and the real-time clock is updated regularly.

Figure 1: Dispatching a daily alive e-mail – overview

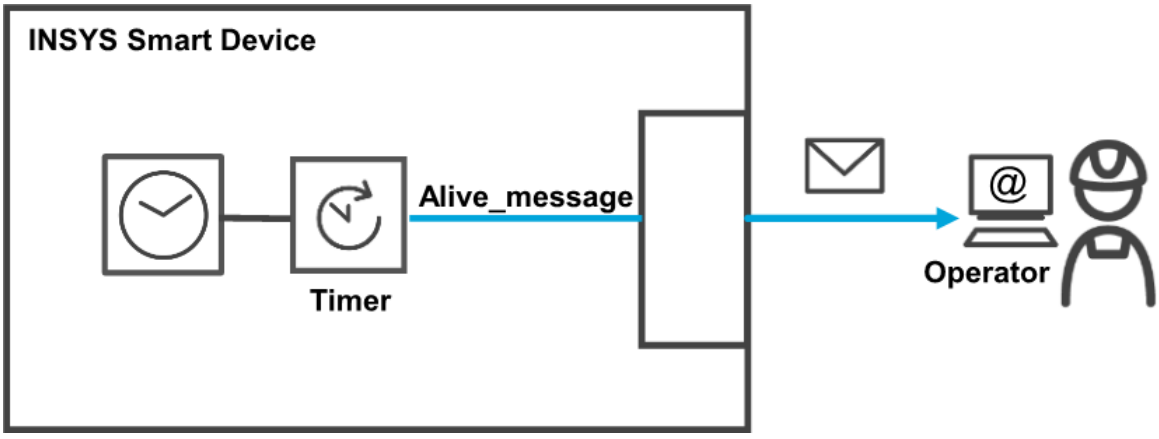



Figure 2: Dispatching a daily alive e-mail – simplified diagram

# 2 Summary

## Smart Device Configuration for Dispatching an Alive E-mail

How to configure an INSYS Smart Device for the regular dispatch of an alive message via e-mail. You will find detailed step by step instructions in the following section.

- **Configuration of the router**
  - Configure e-mail account
- **Monitoring App Configuration**
  - Add element "Timer" as timer of the type time of day
  - Add recipient "Operator" with e-mail address
  - Add monitoring "Timer_expired"
  - Add action "Alive_message" as e-mail message to the "Operator"
  - Add assignment “Timer_expired” to "Alive_message"

# 3 Configuration

## Provisions

It is recommended to commission the router as suggested in the Quick Installation Guide. Different settings of the router may result in necessary adjustments of the settings described in the following. Please prepare the following items before starting the configuration of the application:

- **Connection to the router**

→ You have access to the Monitoring App of the router via your web browser.

## Configuration of the Router

It is prerequsite for this Monitoring App application that the router has a functional WAN connection (cellular radio or LAN) to be able to dispatch an e-mail and synchronise the real-time clock. Moreover, an e-mail account for dispatching the e-mails must be configured in the router.

Perform the following steps for this:

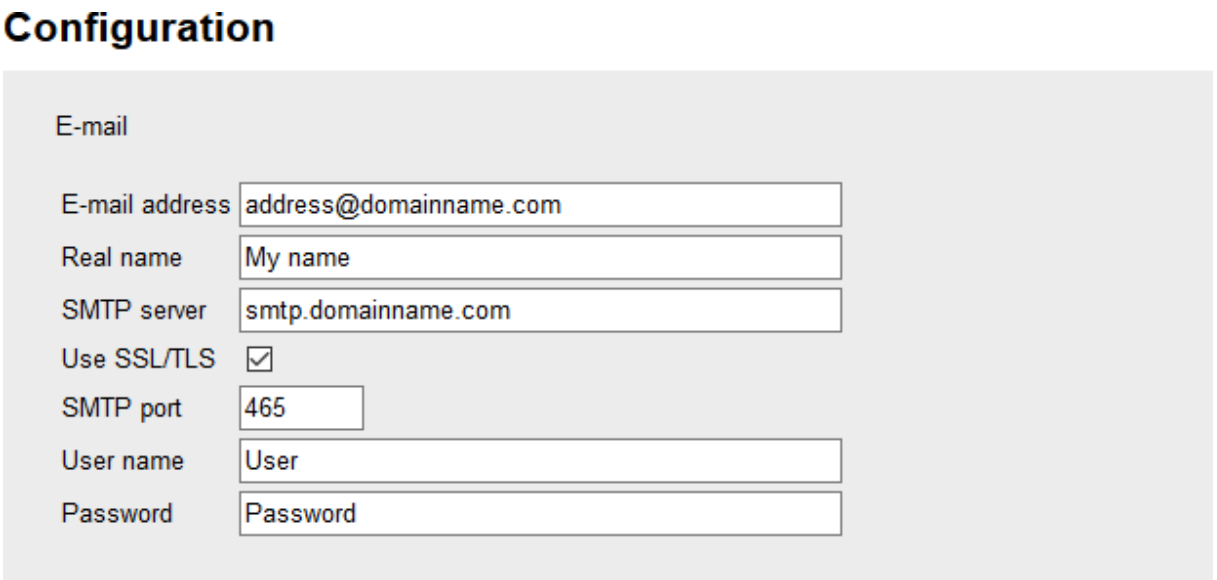
### ■ Configuring the E-mail Account

How to configure an e-mail account in the router that can be used by the Monitoring App for dispatching the alive message. You need to know the access data of your e-mail provider for this.

1. Select in the router menu the page → Messages → Configuration
2. Enter the e-mail address and the real name (is displayed as sender) into the respective fields
3. Enter the domain name or the IP address of the SMTP server as well as the port, at which the SMTP server receives e-mails
4. Check the checkbox "Use SSL/TLS" to send the e-mails encrypted

   ⓘ *The SMTP port, which is used for accepting e-mails by the SMTP server, is usually port 25 or 587. Port 465 is often used when using TLS/SSL.*

5. Enter the user name for the e-mail account as well as the associated password




6. Click on OK

   ✓ You have configured the e-mail account in the router with this.

## Monitoring App Configuration

A functional Monitoring App requires to add the individual elements, recipients, monitorings and actions as well as the assignment of actions to monitorings.

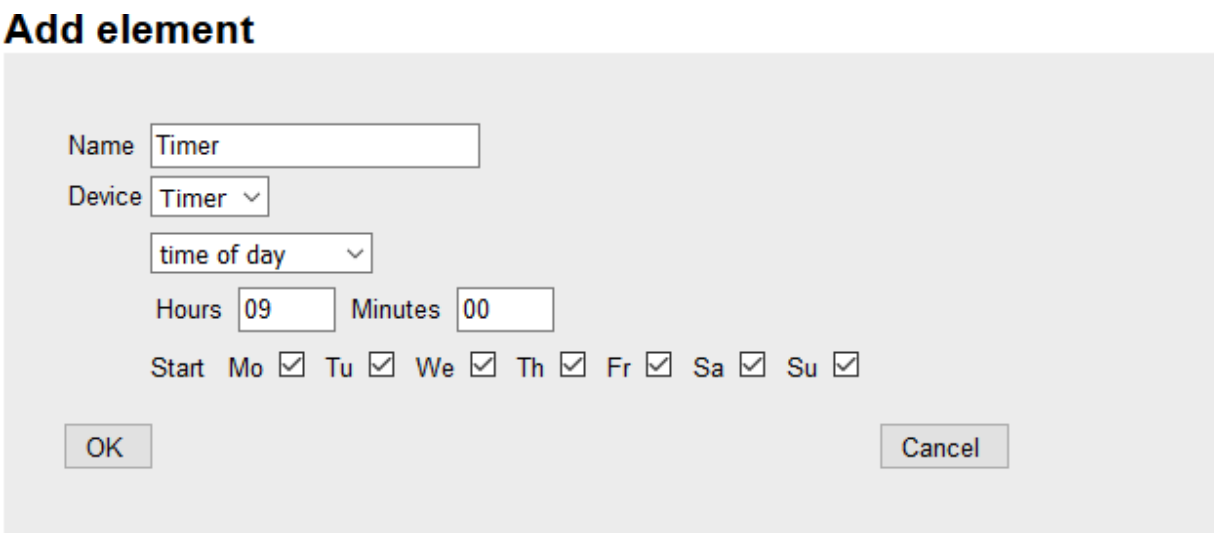
Perform the following steps for this:

- Adding elements
- Adding recipients
- Adding monitoring operations
- Adding actions
- Adding assignments

### Adding elements

How to add the necessary elements for the Monitoring App. It is necessary to add a timer that expires daily at a particular time as element for this application.

1. Select in the menu the page → Setup application → Elements
2. Select the Add Element button
   ✓ The "Add element" page appears.
3. Enter "Timer" as name and select "Timer" and "time of day" under Device
4. Enter the desired time and check the days on which the timer is supposed to trigger

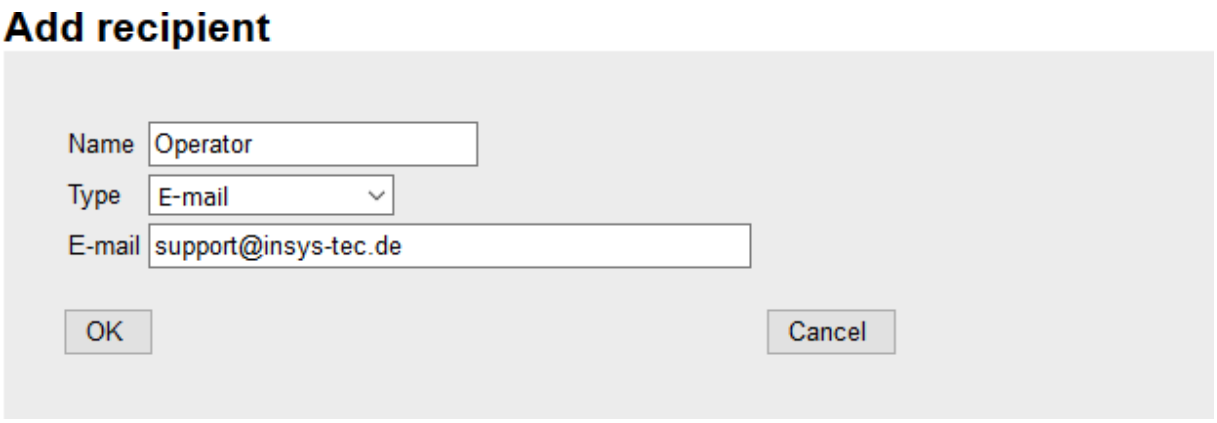



5. Click on OK
   ✓ You have added the elements that are necessary for the application with this.

## Adding recipients

How to add the necessary recipients for the Monitoring App. It is necessary to add the e-mail address of the recipient of the alive message for this application.

1. Select in the menu the page → Setup application → Recipients
2. Select the Add recipient button
   ✓ The "Add recipient" page appears.
3. Enter "Operator" as name
4. Select the recipient type "E-mail"
5. Enter the e-mail address

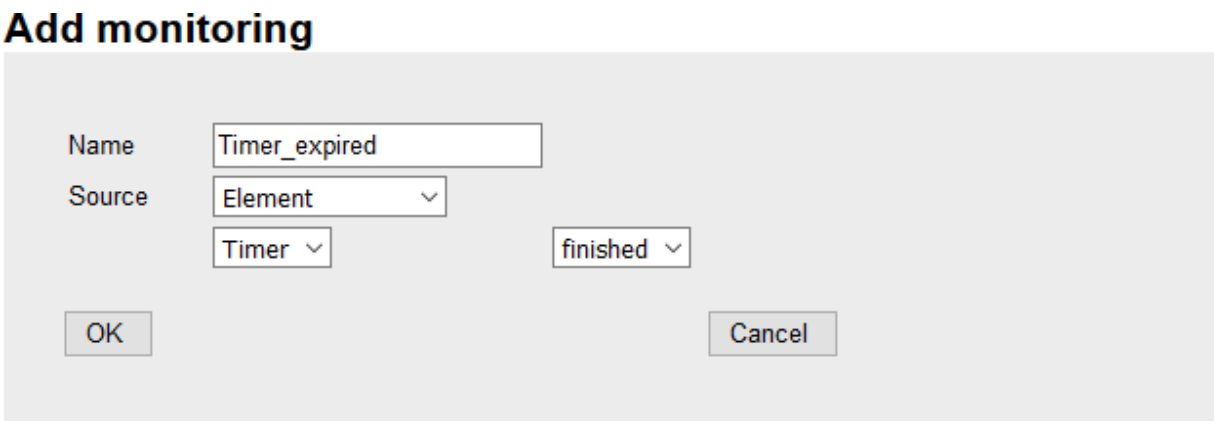



6. Click on OK
   ✓ You have added the recipients that are necessary for the application with this.

## Adding monitoring operations

How to add the monitoring operations for the Monitoring App. It is necessary to monitor the expiry of the timer for this application.

1. Select in the menu the page → Monitoring
2. Select the Add monitoring button
   ✓ The "Add monitoring" page appears.
3. Enter “redTimer_expi" as name and select "Element", "Timer" and "finished" under Source

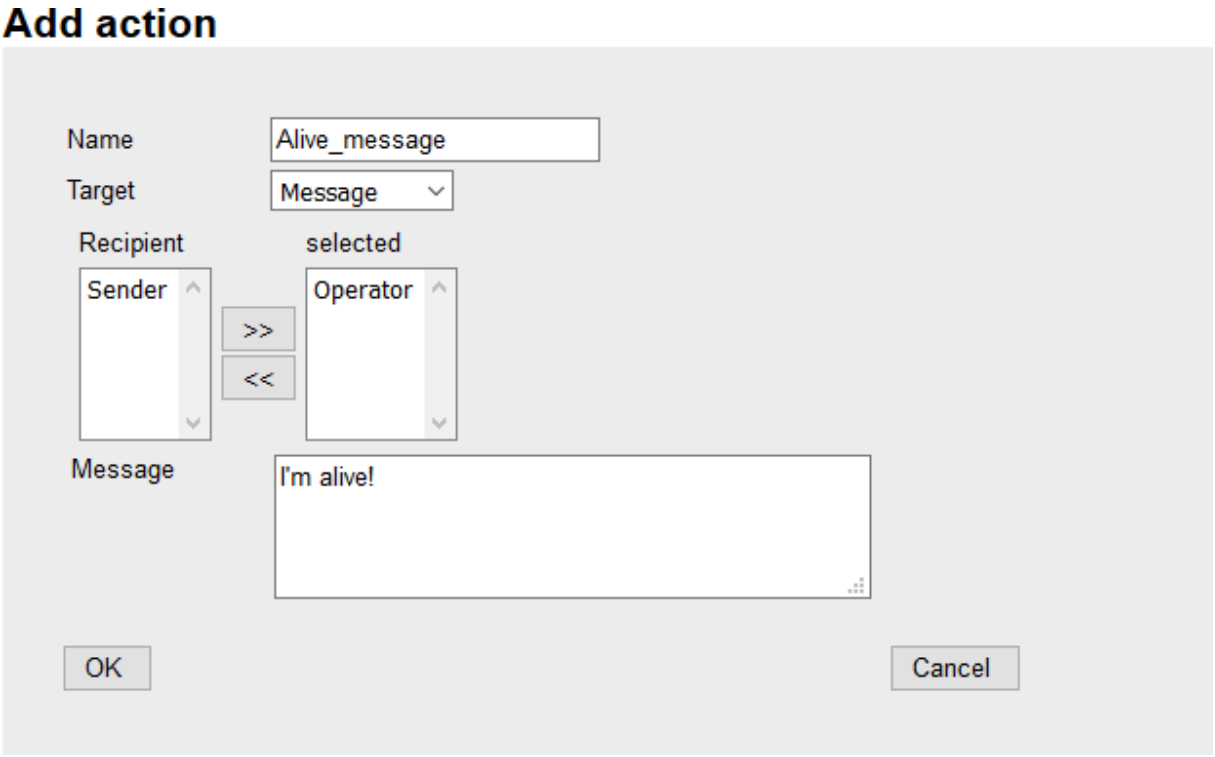



4. Click on OK
   ✓ You have added the monitoring operations that are necessary for the application with this.

## Adding actions

How to add the actions for the Monitoring App. It is necessary to send an alive message via e-mail for this application.

1. Select in the menu the page → Actions → Definitions
2. Select the Add action button
   ✓ The "Add action" page appears.
3. Enter "Alive_message" as name and select "Message" under Target
4. Highlight "Operator" under Recipient and select the >> button
5. Enter the e-mail text under Message

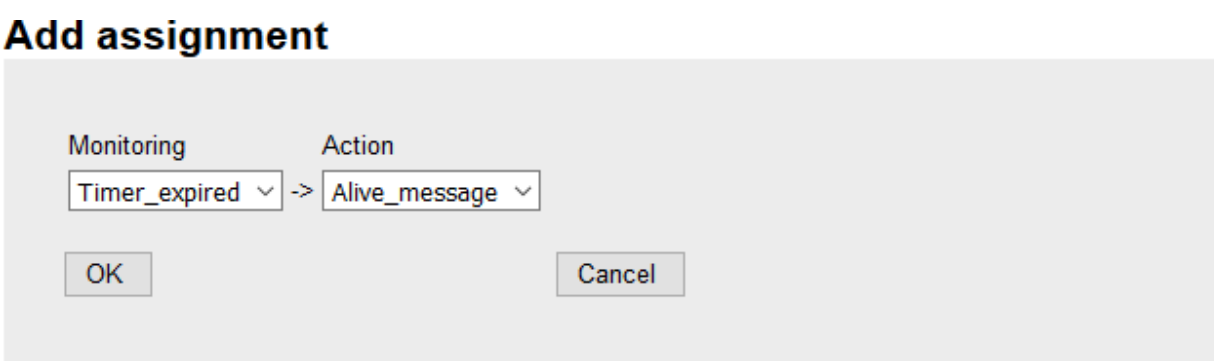



6. Click on OK
   ✓ You have added the actions that are necessary for the application with this.

## Adding assignments

How to add the assignments for the Monitoring App. It is necessary to assign the respective action to the monitoring for this application.

1. Select in the menu the page → Actions → Assignments
2. Select the Add assignment button
   ✓ The "Add assignment" page appears.
3. Select "Timer_expired" as Monitoring and "Alive_message" as Action



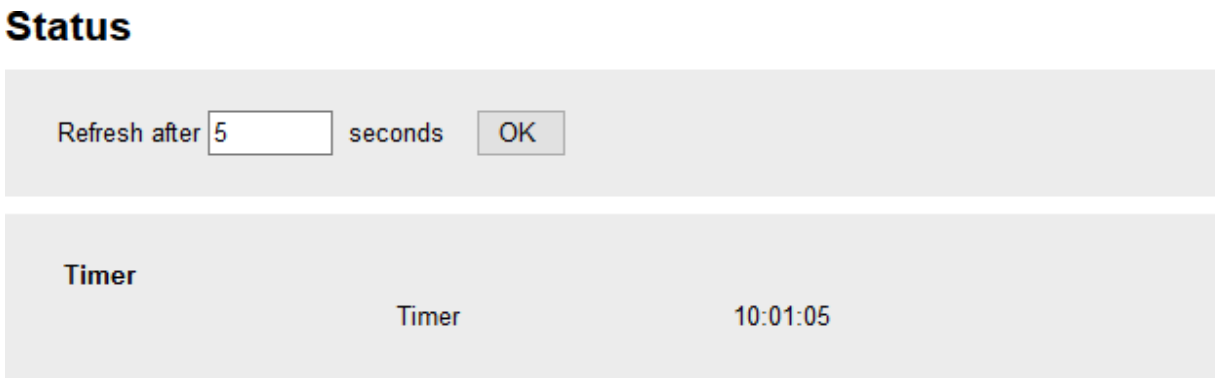

4. Click on OK
   ✓ You have added the assignments that are necessary for the application with this.

# 4 Test

## Testing the application

The Monitoring App is active directly after configuration. You can check the correct function directly by setting the time for dispatching the alive mail to a time shortly after the actual time.

The remaining time until next expiry of the timer will be indicated directly on the status page of the web interface of the Monitoring App (consider update interval). The router must have Internet connection and a configured e-mail account to dispatch the e-mail. A regular synchronisation of the internal clock provides for an accurate dispatch of the e-mail at the configured time.



# 5 Used Components

Please observe: The power supply units required to operate devices are not listed here in detail. Take care for a provision at the site, if they are not part of the scope of delivery.

## Hardware

| Designation | Manufacturer | Type | Version |
|---|---|---|---|
| Smart Device | INSYS | IMON series<br>MoRoS series<br>EBW series | Firmware 2.12.10<br>Monitoring 2.5.2 |

Table 1: Used hardware

## Software

| Designation | Manufacturer | Type | Version |
|---|---|---|---|
| Operating system | Microsoft | Windows 10 | Pro |
| Browser | Mozilla | Firefox | 49 |

Table 2: Used software

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