DEVICE TYPE MANAGER
USER MANUAL

SEARCHZONE SONIK

Honeywell

CONTENTS

1   Introduction

The purpose of this document is to support the plant operators with commissioning, operation, configuration and diagnosis of the Searchzone Sonik detector. The Searchzone Sonik is an ultrasound gas leak detector certified for use in potentially explosive atmospheres. The unit's ultrasound detection principle offers the fastest speed of response and fail-to-safe operation, ensuring that your plant is compliant, your personnel are protected and your production process can deliver maximum uptime.

The Searchzone Sonik device can be configured and operated by a DTM (Device Type Manager) that provides an easy to use user interface for accessing device variables, configuration parameters and diagnosis information.

The Searchzone Sonik Device Type Manager offers the combination of FDT and EDDL technologies and a uniform user interface according to the FDT style guide. It is a full-featured device DTM that carries the standard EDD-Interpreter components to execute the EDD during runtime. Because it is using existing device descriptions, plant operators will experience a familiar operating concept in the DTM.

WARNING
For safety reasons this equipment must be operated by qualified personnel only. Read and understand the instruction manual completely before operating or servicing the equipment. For information regarding the Searchzone Sonik device, check the Searchzone Sonik Technical Manual.

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2   Software Installation

2.1   Required software / software components

In order to be able to use the Searchzone Sonik HART DTM and to go online with the device you need the following components:

- FDT Frame application (PACTware or some other FDT application supporting FDT 1.2.x)
- HART Communication DTM (it represents the communication means needed for connecting the field devices to the automation software). There are multiple options available for download on the Internet.
- Honeywell Analytics HART DTM Library
- Microsoft .NET Framework (.NET 2.0)
- HART modem (RS232 or USB interfaces of the companies Endress+Hauser, Microflex or MACTek) or HART multiplexer

This user manual describes the case of using PACTware as FDT frame application and HART Commnucation DTM. Screen images captured from FDT frame application are of PACTware 4.1.

2.2   Downloads

2.2.1   PACTware

- Go to http://www.pactware.com, select English language
- Select Download
- Select PACTware
- There can be found a free-of-charge PACTware download link.
- Follow the link and download PACTware 5.X

2.2.2   HART Communication DTM

- Search on the Internet for an appropriate version of the software.

2.2.3   Honeywell Analytics HART DTM Library

- Go to the Honeywell Analytics link : https://www.honeywellanalytics.com/en-gb/products/Searchzone-Sonik
- Go to Software and download DTM Toolkit for Searchzone Sonik

2.2.4   HART modem or multiplexer driver

- Need HART modem driver to use HART modem
- Need HART multiplexer DTM library to use HART multiplexer
- Contact the manufacturer to get the driver or DTM library

2.3   System requirements

2.3.1 System resources

Proper execution of the DTMs requires a standard PC with at least following system resources:
- x86 32-bit or x64 64-bit processor with at least 1 GHz
- Main memory (RAM) at least 512 MBytes
- Screen Resolution at least 1024x768 pixels

2.3.2 Operating systems

The DTM will run under the following operating systems:
- Windows XP SP3
- Windows 7 - 32 and 64 bit

2.3.3 Hard disk space

The Honeywell Analytics DTM Library HART requires approx. 50 MB hard disk space.

2.4   Installing DTM setup

Install first the Frame Application PACTware (see §2.2.1) and HART Communication DTM (see §2.2.2).

Install Honeywell Analytics HART DTM Library (see §2.2.3) as follows:
1. Execute the setup by double-clicking "Setup.exe" on the right-hand side: Extract the installation package to your local disk. Structure and files similar to the following example shall appear:

0009_I.mst	07.12.2015 13:16	MST File	672 KB
Disk1.cab	07.12.2015 13:16	Cabinet File	28 KB
Disk2.cab	07.12.2015 13:16	Cabinet File	5.545 KB
Disk3.cab	07.12.2015 13:16	Cabinet File	405 KB
Disk4.cab	07.12.2015 13:16	Cabinet File	439 KB
Disk5.cab	07.12.2015 13:16	Cabinet File	4.419 KB
Disk6.cab	07.12.2015 13:16	Cabinet File	1.827 KB
Disk7.cab	07.12.2015 13:16	Cabinet File	72 KB
Disk8.cab	07.12.2015 13:16	Cabinet File	382 KB
Disk9.cab	07.12.2015 13:16	Cabinet File	1.633 KB
Disk10.cab	07.12.2015 13:16	Cabinet File	2.498 KB
Setup.exe	07.12.2015 13:16	Application	212 KB
Setup.msi	07.12.2015 13:16	Windows Installer ...	888 KB

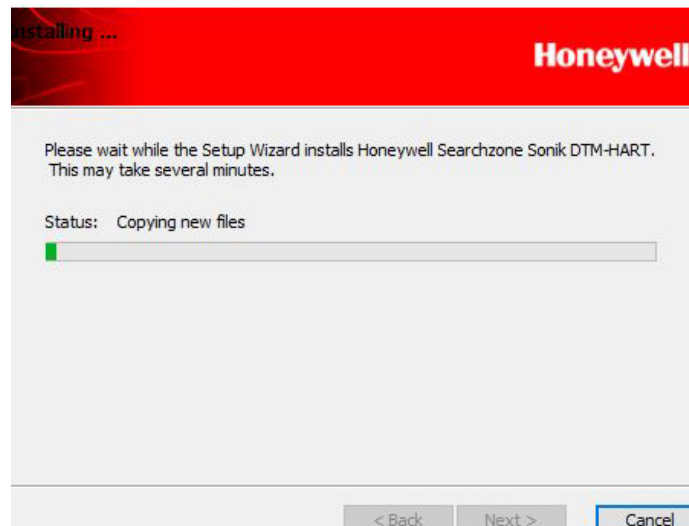2. On the Welcome Screen, click "Next":

3. On the next screen, accept the License Agreement and click "Next":
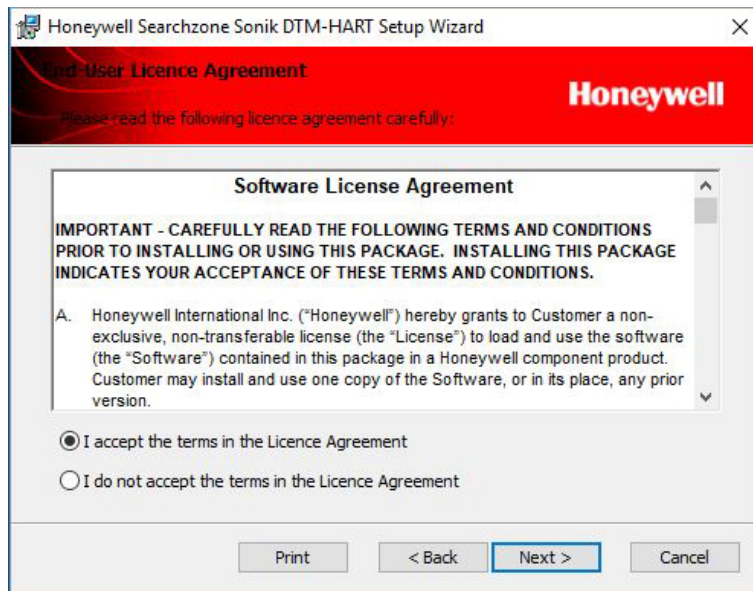
4. Adjust the installation path to your needs (choose the components to install and the destination directory) by pressing "Browse" or just confirm the default installation path with "Install":
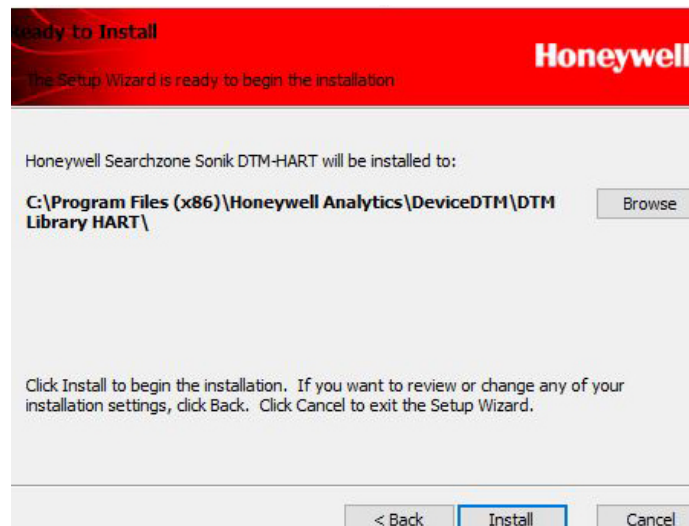
5. A window indicating the installation progress is displayed:

6. Confirm with "Finish" to close the setup wizard:
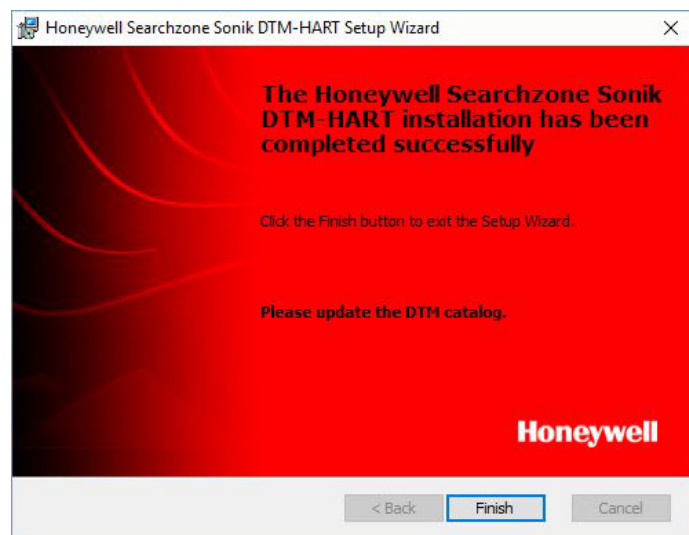
3   Operation

3.1   Establish connection with the device

For the electrical cabling and connections, refer to the Searchzone Sonik Technical Manual.

After completion of §2, follow the steps described below for establishing the connection with your device using a serial HART modem and HART Communication DTM:

In order to use other HART interfaces such as HART Multiplexer, refer to the relevant manufacturer's manual.

1. Open the PACTware frame application
2. Connect the device and the serial HART modem as described in the Searchzone Sonik device manual (https://www.honeywellanalytics.com/en-gb/products/Searchzone-Sonik)
3. Connect the modem connector to the PC COM port (serial modem) or USB port (USB Modem)
4. In the project view, right-click on "HOST PC" and select "Add device" to add the HART Communication DTM
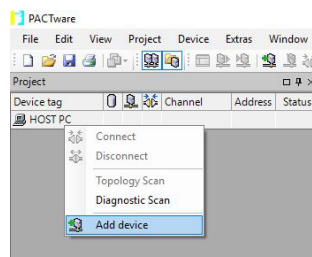
5. On the next screen, select the DTM and click "OK"
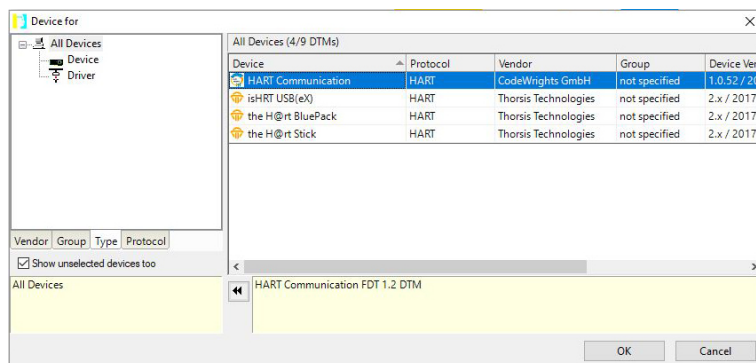
6. Go online by right-clicking on the device DTM and select "Connect":
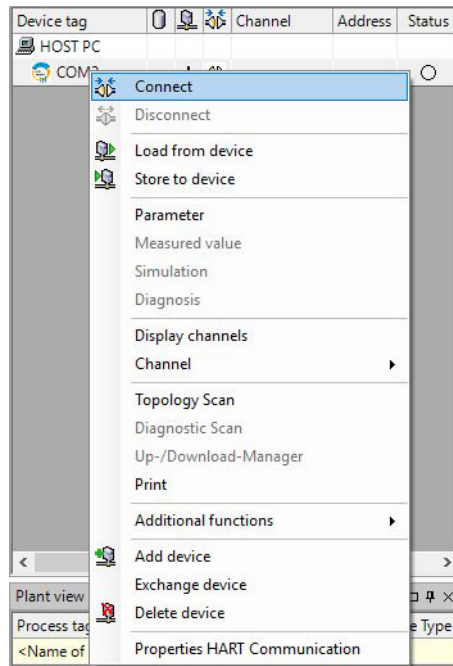
7. Select a device by clicking on "Add device":
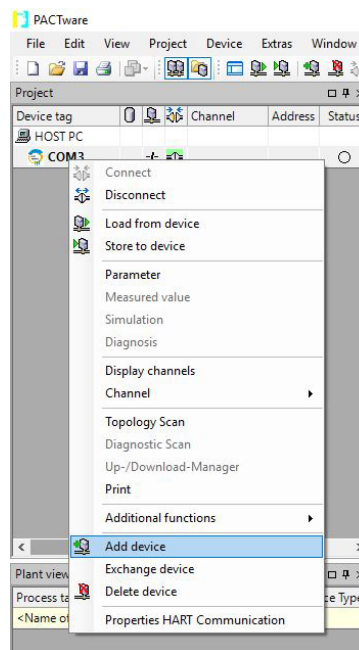
8. Select the Searchzone Sonik device type and click "OK":
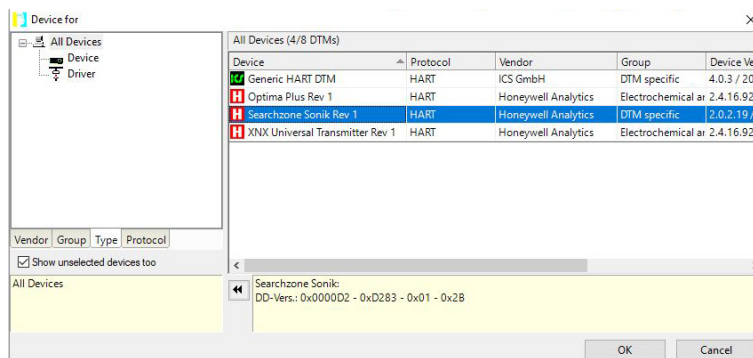
9. The 'Online Parametrization' view will open for the selected device:
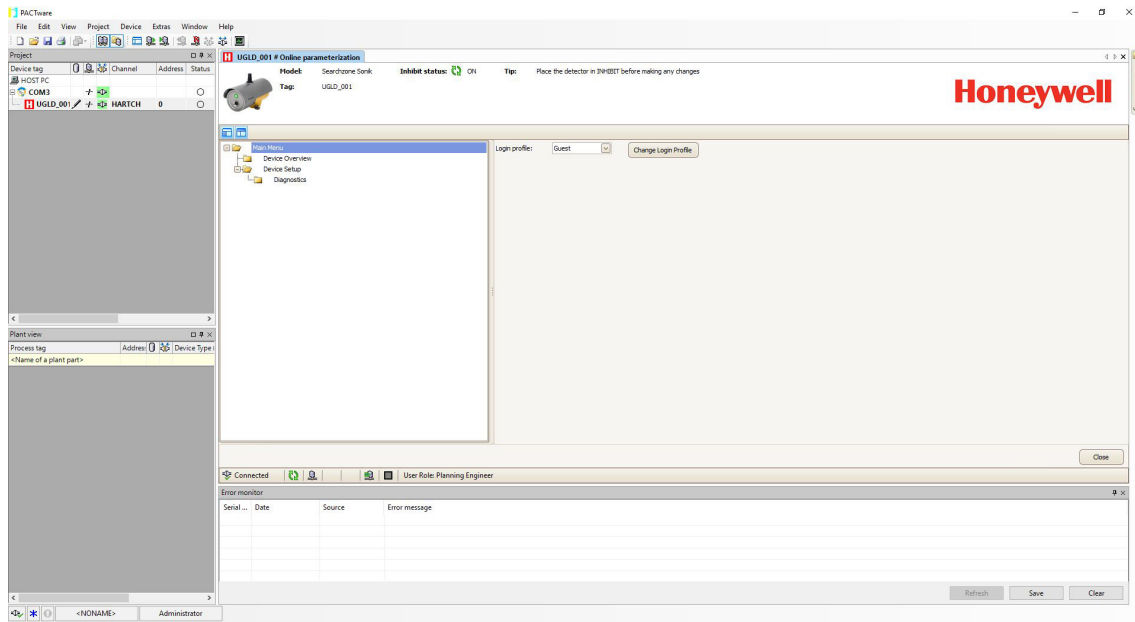
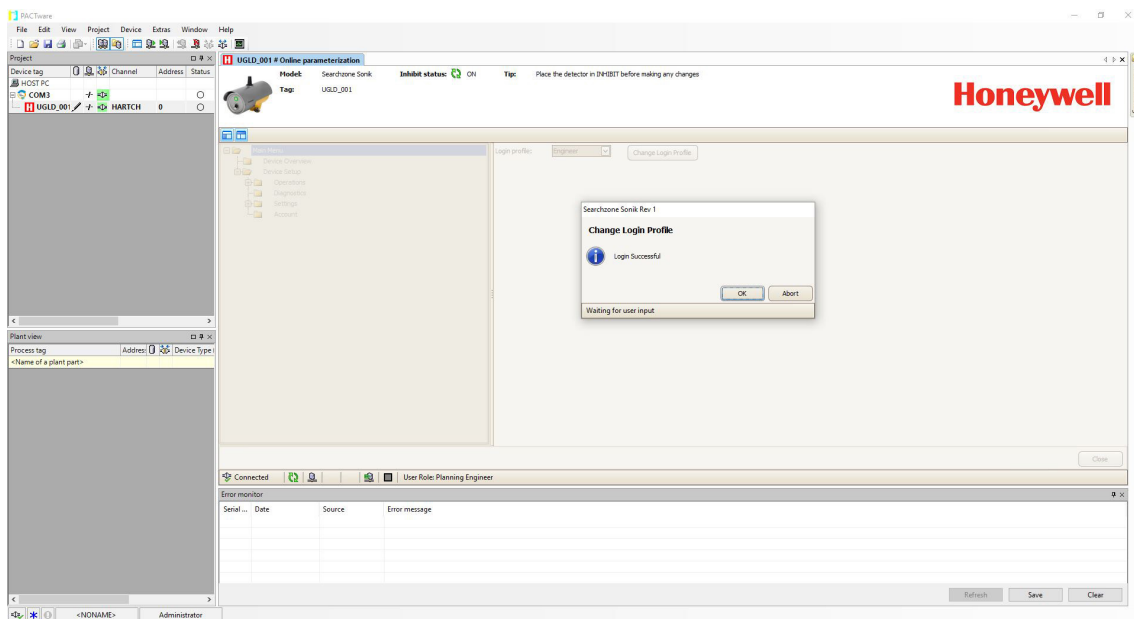10. Open the "login profile" menu and select "Engineer"
11. Press "Enter" to accept the new value:
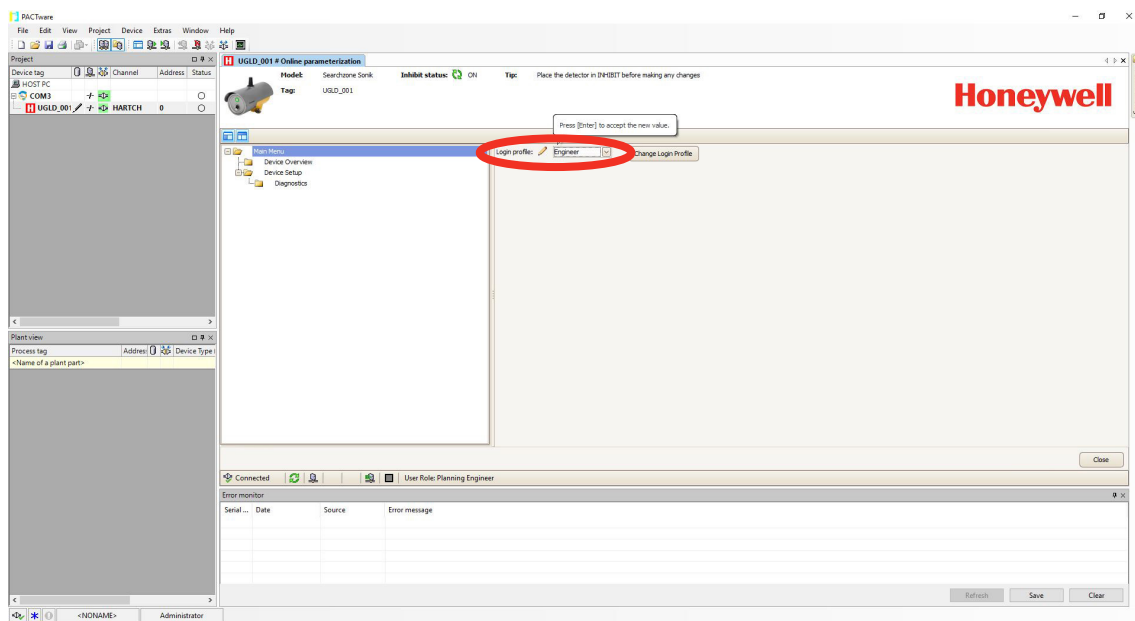
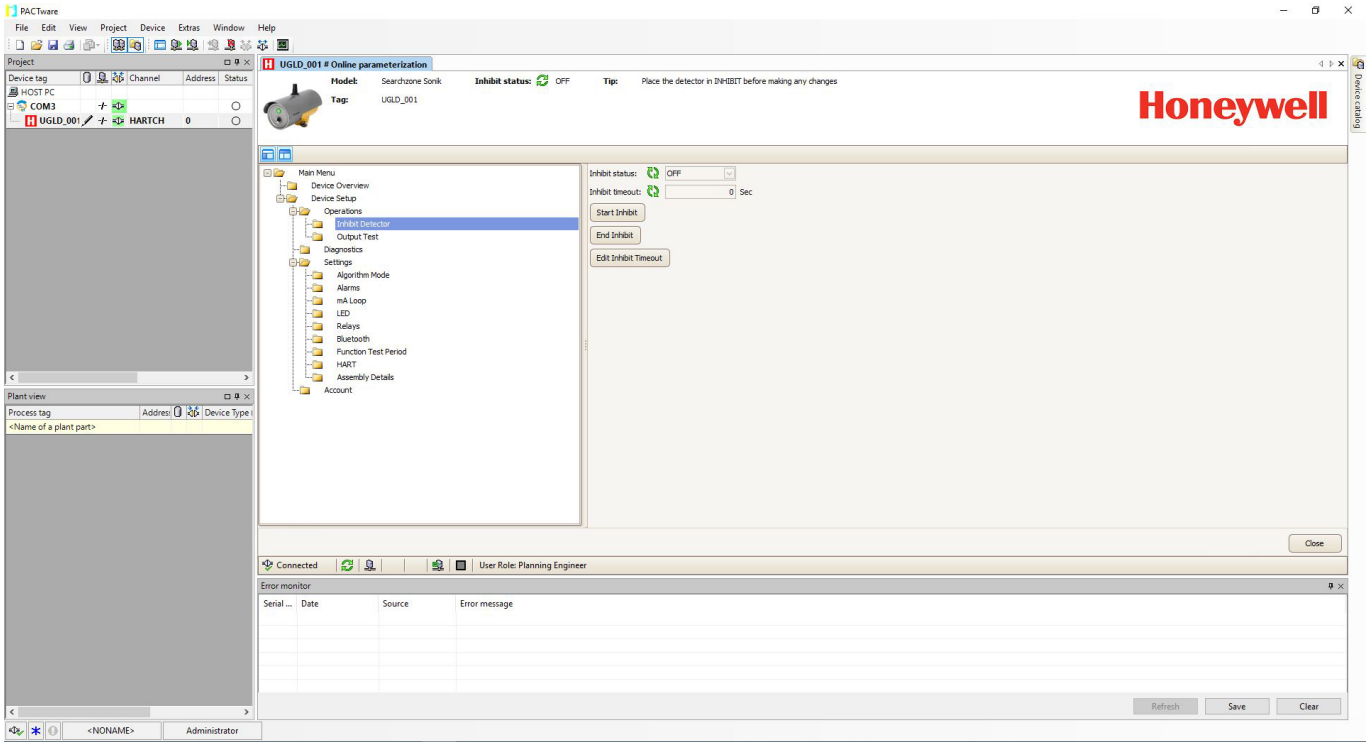12. You will be prompted to enter "Password" for the login profile:
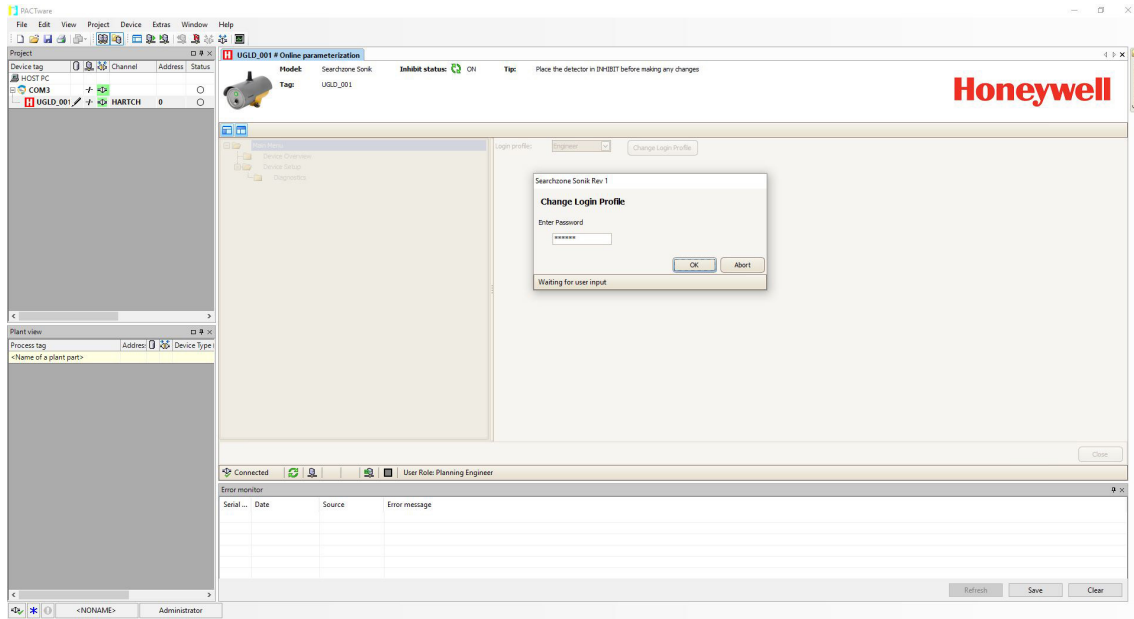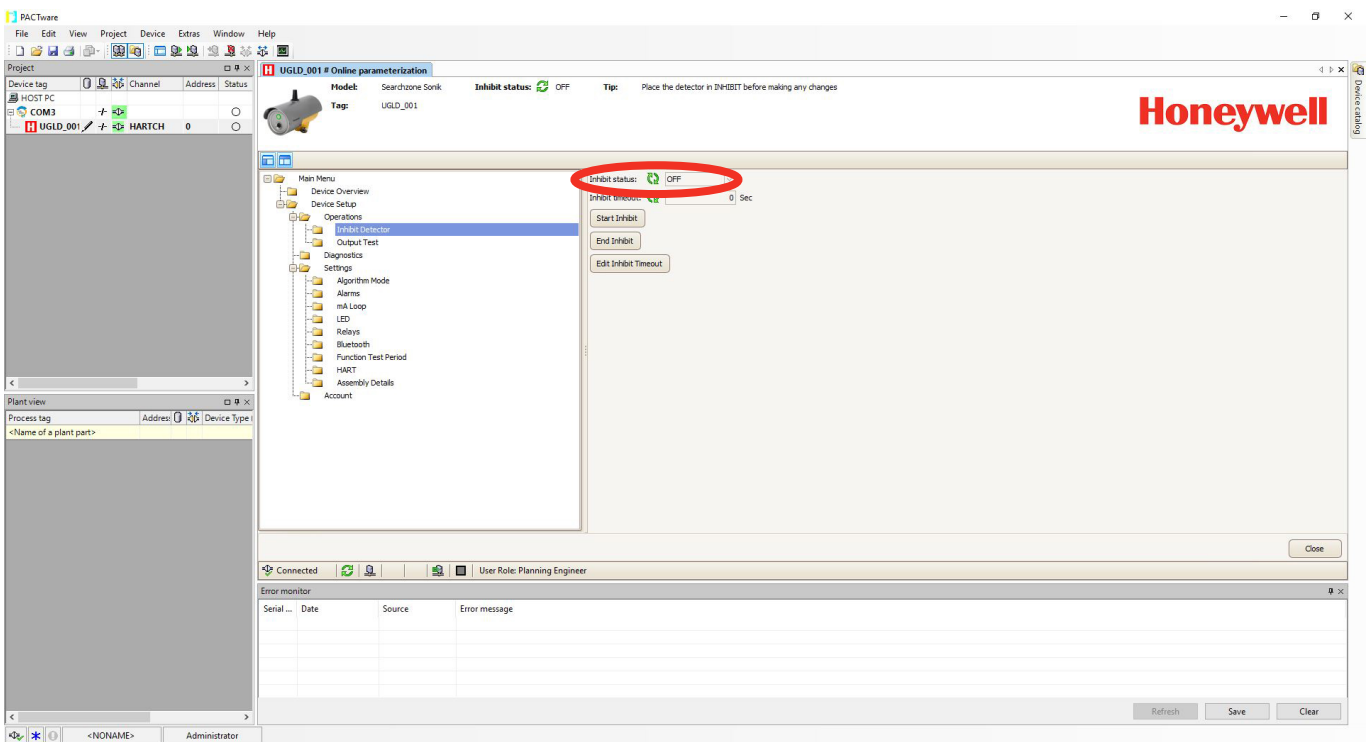

13. Click on "OK" to confirm successful login:

CAUTION
Switch the device to **Inhibit** mode before modifying any configuration settings.

14. Go to "Main Menu" and open "Inhibit Detector" sub-menu:

15. Click on "Inhibit status" menu and select "ON" option to start the inhbit mode of the detector.

16. Confirm the selection by clicking on "OK":
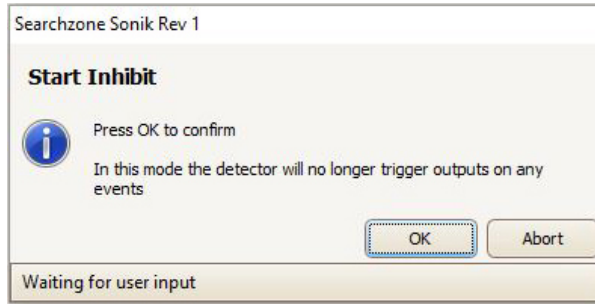
17. Acknowledge successful start of the Inhibit mode by clicking on "OK":
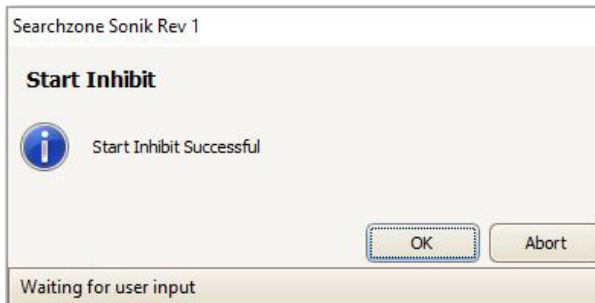
18. Click on the "Diagnostics" menu to gain access to information on Warnings, Faults and History events:

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