start-up manual

iQ process observer

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> ⚠️ **WARNING!**
>
> **Improper use of the machine can lead to severe injury to persons and damage to equipment!**
>
> **You must read this instruction manual carefully and familiarize yourself with the safety precautions before operating the system or carrying out any maintenance.**
>
> **You must ensure that the persons carrying out the activities on the machine have read and understood the relevant sections and chapters of the instruction manual.**

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Instruction Manual | Version G/11/101/6/1

General

You have decided on an ENGEL product which is produced and supplied under strictest quality controls.

The instruction manual is to be regarded as part of the product and is intended for those persons who are entrusted with work on the product. Keep the instruction manual throughout the service life of the machine, and pass it on to any subsequent owners or users. It is important to integrate any amendments you receive with the instruction manual.

We recommend that you take part in training at one of ENGEL's training centers (www.engel-global.com/training).

(i) Information

All images are symbolic images and may deviate from the actually delivered plant.

Text formatting

The following text formatting, signal words and symbols are used to emphasize particularly important information:

(i) Information

Application tips and useful information.

Numbered sequence

1.   Fixes procedure way after the numbers.

2.   The operator must adhere absolute to the fixed operational sequence.

   ☐ Information on the result of a step.

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iQ process observer commissioning

The iQ process observer is a system for automatic diagnosis and processing of a multitude of process data. An on-going analysis of hundreds of parameters per machine enables rapid fault diagnosis. For the iQ process observer you need one EDGE Device per Engel machine and a valid license.

Before commissioning the iQ process observer

Before performing the following steps, make sure that the machine is connected to the network. In addition, the EDGE Device must be set up correctly, follow the steps in the Quickstart Guide. This guide is enclosed in paper form with the EDGE Device or available under Technical Documentation on our website:
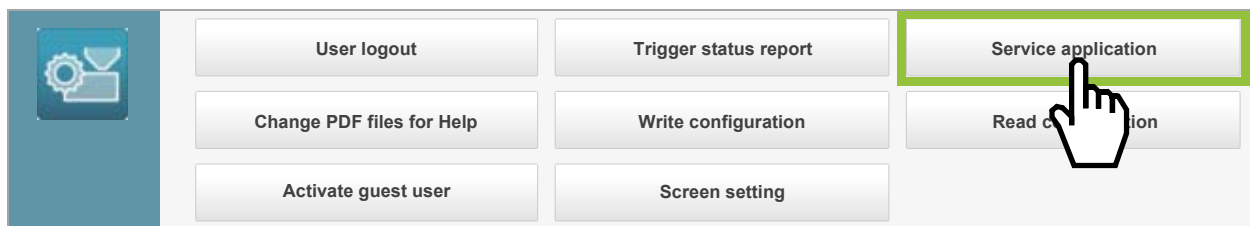https://www.engelglobal.com/de/at/page/tech-docs-digitale-loesungen
Once the EDGE Device is ready for operation and has been connected to the machine on the network, proceed with the following steps.

1 Checking the connection and certificates

1. Log on to the machine control with a user with user level 11.
2. Open the service application

   System > System management

3. On page '14 Time zone, date and time', check the set data. If the machine time is incorrect, the connection to the iQ process observer is denied for data security reasons. It is recommended to synchronize the time with an NTP server:

14 Time zone, date and time
Set time zone, date and time

⚠️ **NOTICE!**
The control unit needs to be restarted when quitting the Serviceapplication after changing the time zone.
Changing the date or time causes an immediate shut down of the control unit.

Set time zone: Europe/Vienna

Time zone selection
▶ Africa
▶ America
▶ Antarctica
▶ Arctic
▶ Asia
▶ Atlantic
▶ Australia
▶ Brazil

Date and time

Automatic ▼

Last known time reference:

Time: 13:15:58
Date: 2018-05-25

Time server
ntp.ubuntu.com

Check connection

Connection checked

Timeserver not adopted!

Adopt and shut down

4. Navigate to page '15.3 EDGE Device connection overview'

Basic functions	System administration	Service	Software management

2 System administration
Functions for the system administration

Date and time	Network	Network drive

15 Adjusting network configuration

Change	Displays	EDGE Device

5. Make sure that the EDGE Device is connected and the following data is displayed:

Network	✅	Connected
EDGE Device Serial No.:	✅	12345600078
EDGE Device IP address:	✅	192.168.500.100

☐ Automatic comparison of the data with the connected EDGE Device takes place every 15 minutes, after the connection from the EDGE Device wait until the cyclic comparison has been carried out. If, after this time, there is still no connection established, check the connection of the EDGE Device to the machine and the EDGE Device to the internet.

☐ The status 'Disconnected' from 'Connection to EDGE Device' and 'Connection to ENGEL' indicates that the control unit cannot connect due to missing certificates regardless of the network connection.

Connection to EDGE Device	❗	Separated
Connection to ENGEL	❗	Separated

6.   Press **[Request]**
      If **[Request]** is grayed out, make sure that there is a connection to the network, that the
      EDGE Device is connected and that the machine is in 'Manual' mode.

15.3 EDGE Device connection overview
Overview of the connection of the machine to an EDGE Device and certificates overview

Network	✓	Connected
EDGE Device Serial No.:	✓	12345600078
EDGE Device IP address:	✓	192.168.1.100
Connection to EDGE Device	!	Separated
Connection to ENGEL	!	Separated

Last known connection :
Feb 17, 2023 3:12:01 PM

Overview of certificates for local control panel

Name	Description	Valid from	Valid until	Authority

Update current connection status   Request renewal of the certificates

Update   **Request**

☐   A dialog appears with the certificate renewal summary. If the certificate could not be
     loaded, contact ENGEL Service.

7.   Check if the certificate appears in the overview and all statuses are green.

15.3 EDGE Device connection overview
Overview of the connection of the machine to an EDGE Device and certificates overview

Network	✓	Connected
EDGE Device Serial No.:	✓	12345600078
EDGE Device IP address:	✓	192.168.1.100
Connection to EDGE Device	✓	Connected
Connection to ENGEL	✓	Connected

Last known connection :
Feb 17, 2023 3:12:01 PM

Overview of certificates for local control panel

Name	Description	Valid from	Valid until	Authority
cert.pem	CN=ENGEL EDGE De-	Feb. 17, 2023 3:35:18	Feb. 17, 2024 3:35:18	1.2.840.113549.1.1.1

Certificateinfo: [Name:cert.pem][Valid from:Feb 17, 2023 3:35 PM][ValidUntil:Feb 17, 2024 3:35 PM][Authority:1.2.840.113549.1.1.1][Description:ENGEL EDGE

Update current connection status   Request renewal of the certificates

Update   **Request**

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2   Activate iQ process observer and check functionality
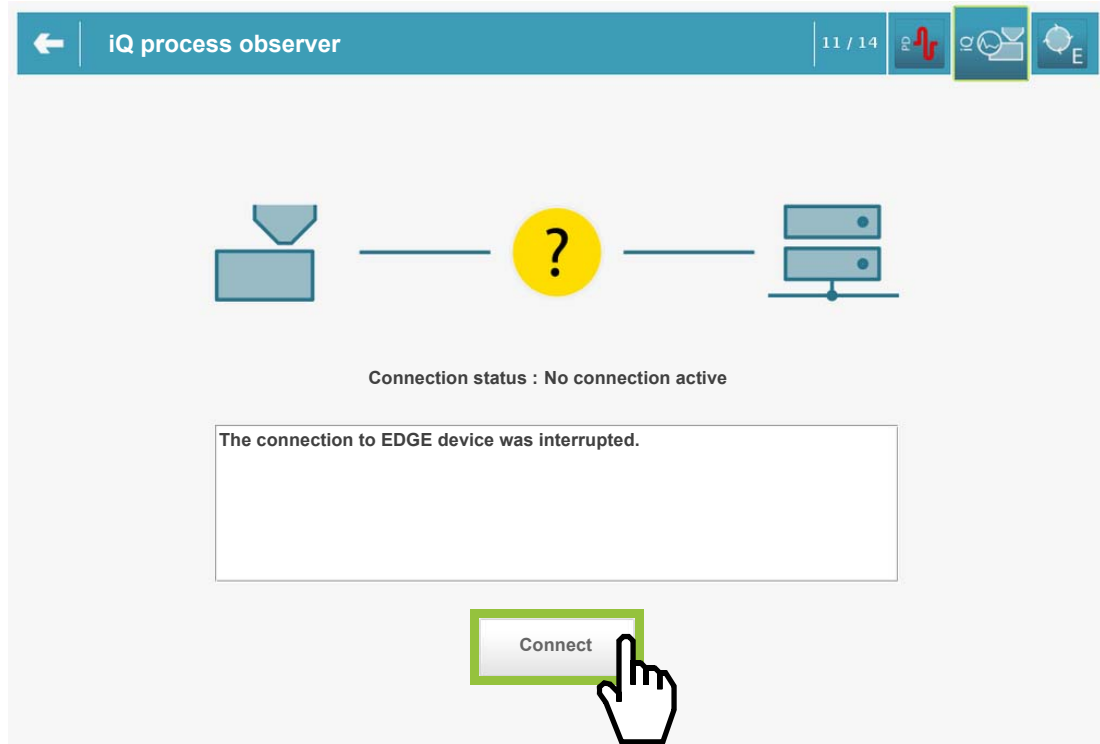
(Software version 4.xx)

Check activation in the variables monitor

1. Log on to the machine control with a user with user level 11.
2. Open the 'Var monitor' under 'System - Var monitor'
3. In the variables monitor, in the list of variables 'iQprocessObserver', check if the variable 'iQ process observer set up in the network' is set to 'Yes'.

Check the function of the iQ process observer

1. Open iQ process observer under 'Components - Office'
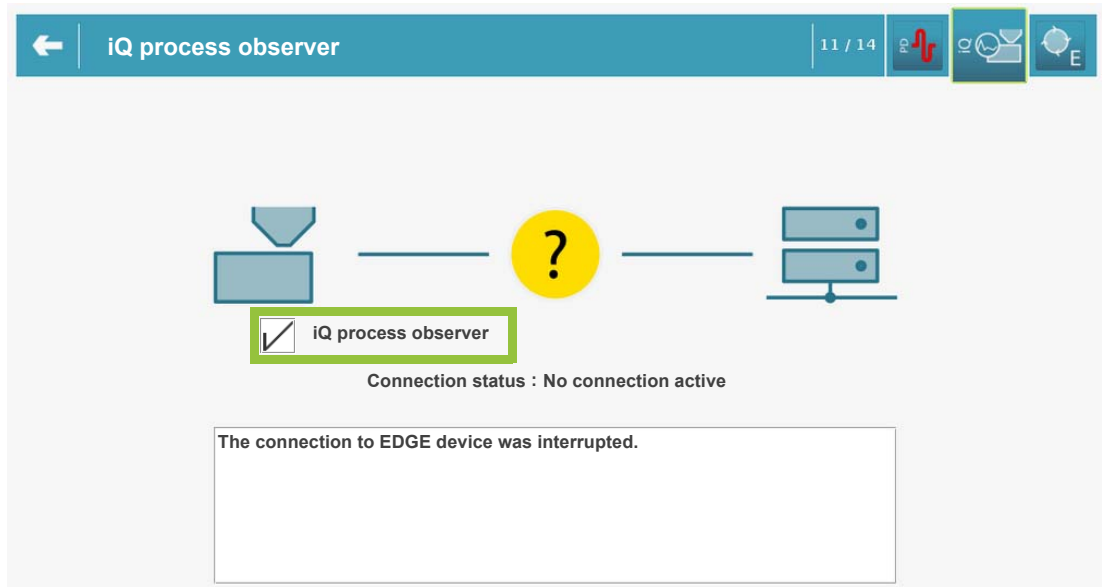2. Press **[Connect]**

☐ If everything is set correctly, the iQ process observer screen will open.

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3 Activate iQ process observer and check functionality

(Software version 5.xx)

Check the function of the iQ process observer

1. Open iQ process observer under 'Components - Office'
2. Switch on 'iQ process observer' screen switch

☐ If the iQ process observer has already been activated, the iQ process observer screen will open immediately.

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