

Introduction to countroll®

Overview

- What is countroll®
- Why
- Terminology
- Identification of rollers
- Roller data
- How does everything interact

What is countroll®

countroll[®] is a user-friendly all-in-one industrial IOT platform allowing you to CONSULT, MANAGE, ANALYZE and MONITOR your roller data through the countroll[®] web portal and the countroll[®] mobile application.

Why

countroll® has several advantages for Hannecard and its customers.

Hannecard

- paperless
- internal automation
 - gain time (& money) at reception
 - manage stock of raw materials
 - less overhead for internal sales
- keep track of historical roller data to improve its products
- better planning

Customer

- paperless
- all roller data centralized
- accessible from anywhere, anytime
- improve process by analyzing sensor data
- create its own timeline

Terminology explained

user-friendly consulting and managing the roller data is easy to use and intuitive

all-in-one
all roller data, timeline and documents are centralized in 1 system

industrial IOT industrial internet of things = a system of interrelated software and hardware that are provided

with unique identifiers and the ability to transfer data without requiring human interactions

the cloud-based system for processing and storing roller data and handling user requests

(e.g.: give me info about roller AR15, process rotational data of sensor 7, ...)

the website to return roller data requested by the user in an interactive and uniform way

the software application designed to run on an android device to return roller data requested by

the user

platform

web portal

mobile application

countroll® terminology

countroll[®]

the text countroll is always written in lowercase followed by the registered trademark symbol

software

countroll® (mobile) app



countroll® web portal



hardware

countroll® QR label



countroll® sensor



countroll® TAG (=NFC tag, not used anymore)



countroll® NIP



Identification of rollers (1)

- To be able to consult, manage, analyze and monitor roller data, you need to know which roller exactly you are talking about
- To identify a roller, a unique number is given to it: the countroll® ID
- Once each roller has been identified, roller data and documents can be linked to this countroll® ID
- All this information is stored in a database structure: the countroll[®] platform
- All roller data can be retrieved from the platform by providing the countroll[®] ID

Identification of rollers (2)

- The countroll® ID has this format: Cxxxxx
 - prefix "C" referring to countroll®
 - followed by a unique number (incremental)
- To identify the roller, a QR label to stick on the roller
- The QR-label is also unique but different from the countroll[®] ID
- The QR-label has this format: CLxxxxxxxxxx
 - prefix "CL" referring to countroll® label
 - followed by a unique number (incremental, 9 digits)
- The QR-label is linked to the countroll[®] ID (see image)
 - when scanning the QR label CL000010645, the data of roller C1234 will be returned



Roller data (1)

The roller data is coming from different resources:

Hannecard:

- data is uploaded from the ERP (=Data-M) to the countroll® platform: roller properties, documents, ...
- the internal sales can manually add extra info/documents into the countroll® platform

Customer:

- can add his own events/pictures/documents to the timeline
- can modify incomplete/incorrect roller info
- can manage his rollers by assigning them to a company level, physical location, ...
- can keep track of the quality
- sensor data gets uploaded automatically, NIP data manually

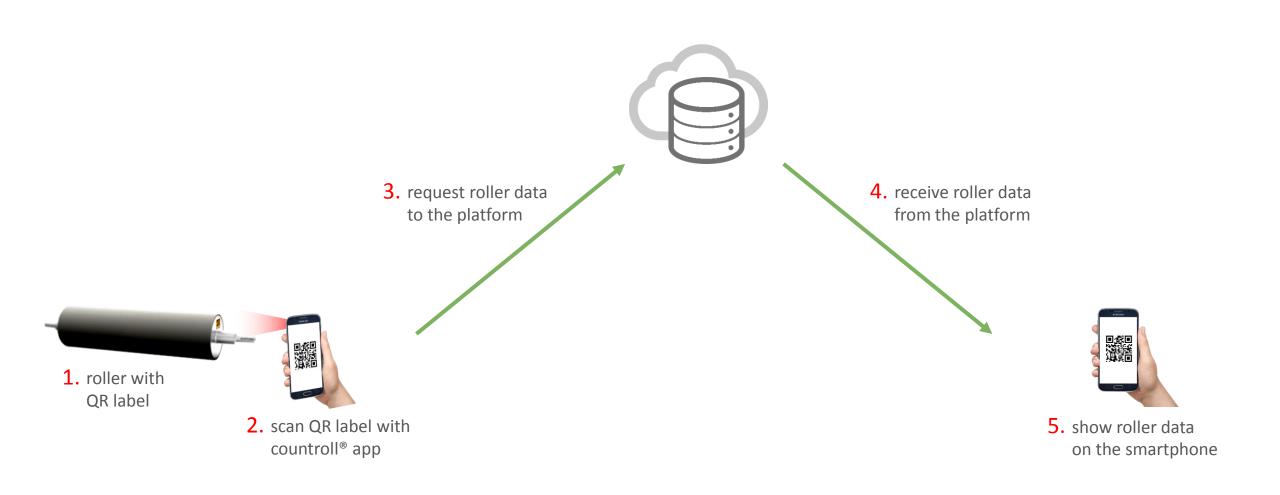
Roller data (2)

Roller data is split up into several parts:

- Info & documents: contains all static roller core data
 - roller properties/description & roller core documents
 - latest location/company level/recover event/quality event

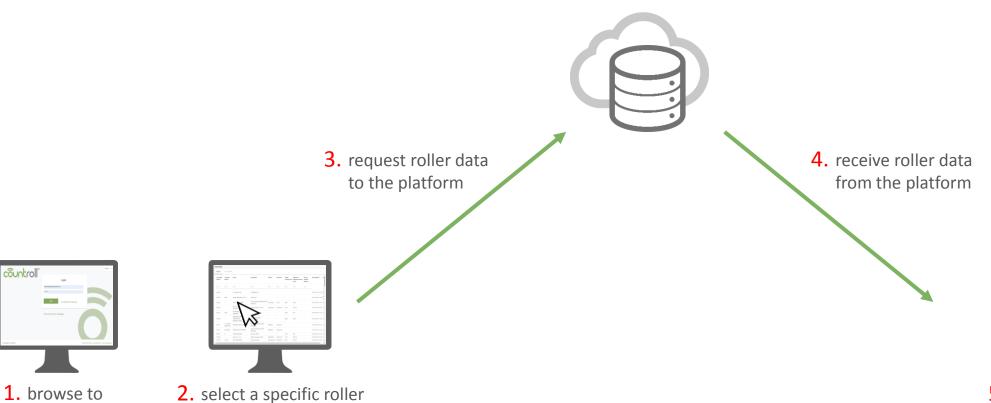
- **Timeline**: contains all dynamic roller & roller covering data stored in events
 - recover & regrinding info & documents
 - change of location/company level/quality
- (Raw) Sensor data: contains data and graphs of sensor(s) linked to this roller

How does everything interact (1)



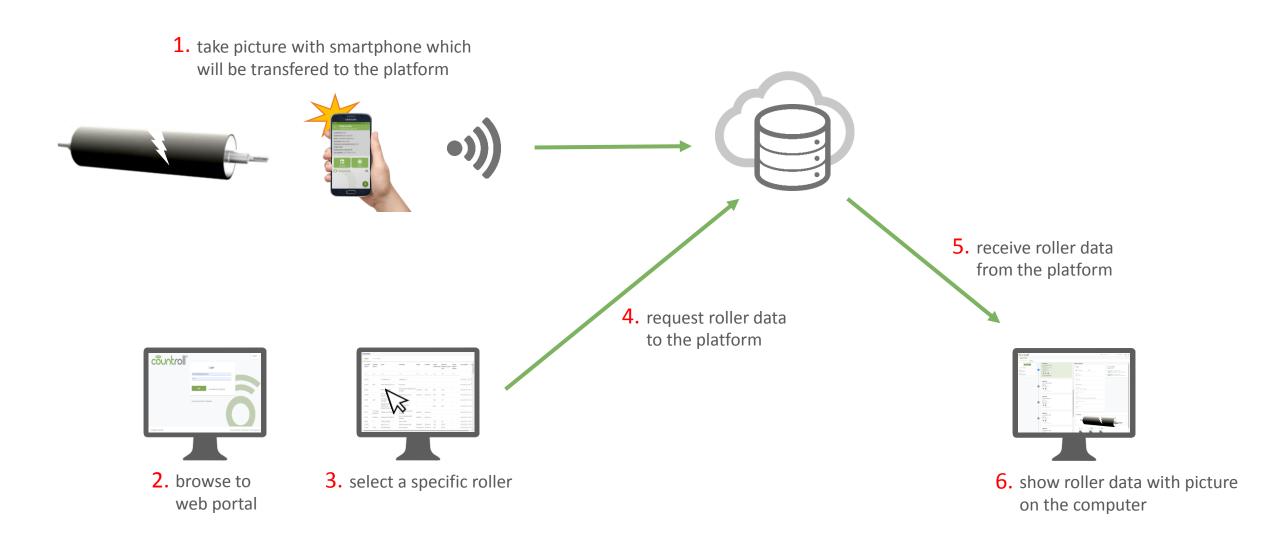
How does everything interact (2)

web portal

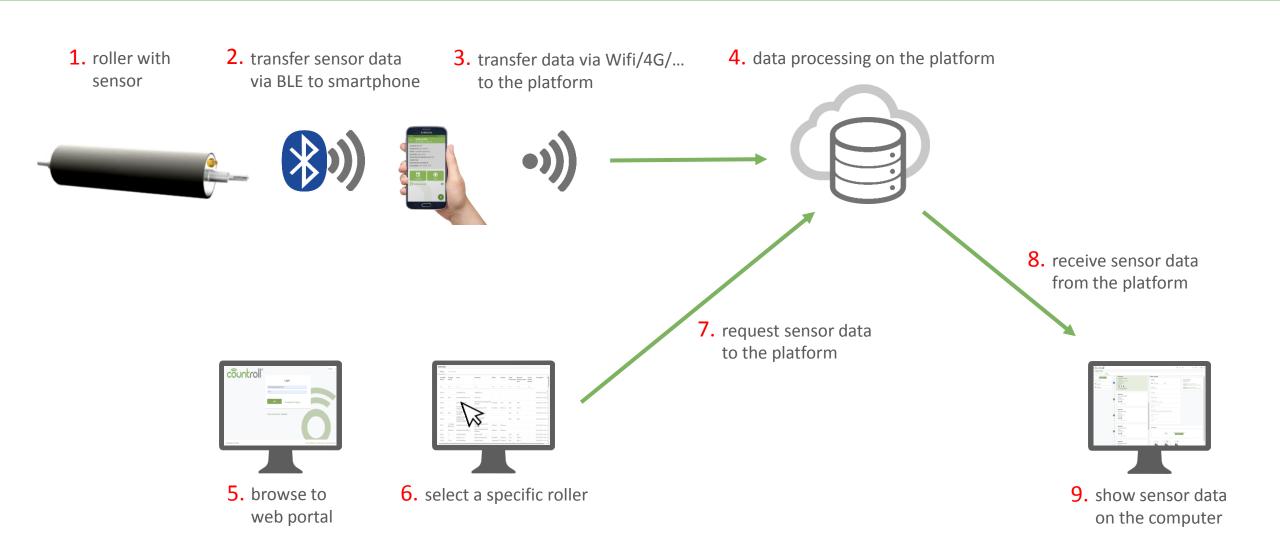


5. show roller data on the computer

How does everything interact (3)



How does everything interact (4)



How does everything interact (5)

1. Measure NIP between 2 rollers and 2. transfer NIP data via 3. create timeline events on the platform transfer data to smartphone Wifi/4G/... to the platform 7. receive NIP data from the platform 6. request NIP data to the platform 4. browse to 5. select a specific roller 8. show NIP data web portal on the computer

Thanks for your attention



