

ASM



FACTORYCHAT

An IIOT Application by ASM

Advanced Tools for Shopfloor Collaboration
in the Smart Factory

Together
#1

ASM



FACTORYCHAT

An IIOT Application by ASM

Summary

Together

#1

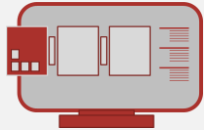
FactoryChat - Enabling Industry 4.0 Manufacturing Collaboration

Key Questions:

- Do you struggle to effectively communicate across manufacturing lines, shifts, factories, globally?
- Do you suffer with the same issues and mistakes over and over again?
- Do you have information spread out over multiple locations?
- Can you easily find answers to complex issues?
- Does the manufacturing expertise reside in a few individuals heads?
- Do you have high turn-over and untrained staff issues?
- Do you wish you could speed the response to manufacturing issues and reduce downtime?
- Do you wish the machines could “talk” to your technicians and engineers?

If you say “Yes” to any of these questions, FactoryChat may be your solution.

FactoryChat – What You Get When You Get it



An Asset Management tool:
The bottom line for any efficient IIOT Application: Define your line equipment assets according to ISA 95 in an easy to view format.



A “Downtime Minimizer” - tool: The FactoryChat database becomes the repository for your manufacturing expertise, easily searchable for solutions and fixes.



A Data-Protection tool:
Many companies use WhatsApp or WeChat for team communication, leave all confidential issues open to facebook & Co. With factory chat, all information remains company property and is protected from the outside world.



An Information Management tool: Centrally collect and store all important information on your manufacturing assets.



An “Accelerated Learning” tool: Making sure, that experience is evenly shared by a tool that is convenient to use, operators learn faster, better, and more sustainable.



A Knowledge-Management Tool:
Combining all of the above, FactoryChat can even work as a plant wide knowledge management system.

**FactoryChat by ASM: So many things but not “just another tool”.
Global. Intuitive. Secure.**

ASM



FACTORYCHAT

An IIOT Application by ASM

Get it all !

Together

#1

FactoryChat – Features and Use Cases

Machine log book

- All machine log books in the factory are in one tool
- Suitable for all equipment due to customization
- Easy creation of shift reports

Service log book

- Technician logs his activities as services posts
- Later it can easily be queried which action where taken where and when

Distribute Tipps & Trick

- Broadcast posts to all machines of a specific type
- Send out new work instructions

Defect logging / analyses

- Defect categories reduce reporting errors
- Query for defects without solution
- By analyzing defect / solution a best practice to overcome problems can be derived

Posts can be used in other applications

- Posts could be a part of automatically generated shift report

FactoryChat: A Global Tool

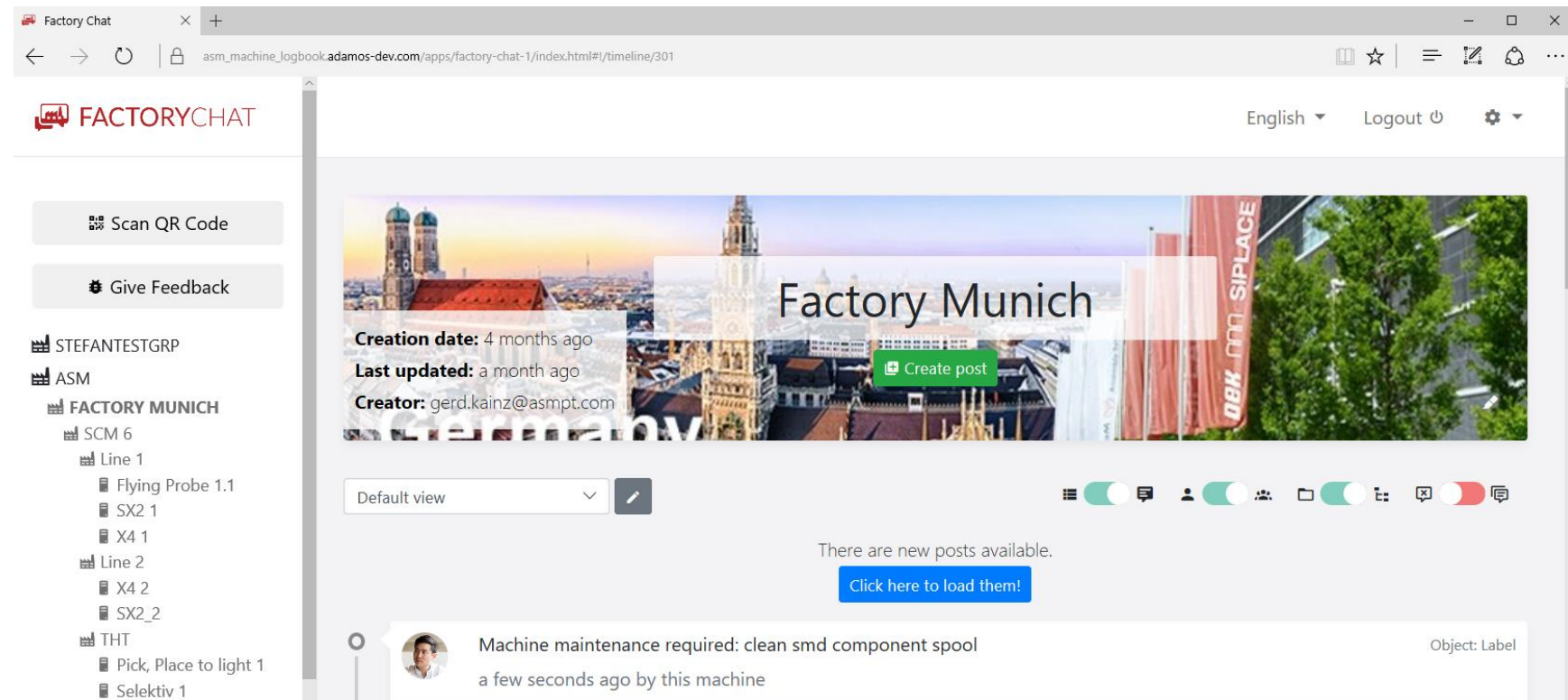
Data can be securely collected and searched:

- on each machine,
- on every line,
- in any factory.

Want to know what happened on 2nd shift at the factory in China?
Just pull up the shift report!

Want to see what caused the down time on a specific line?
Search on that line!

And do this from anywhere in the world at any time for any period of time.



Overview of what is happening at all of your factories / lines / machines and shifts in real-time from anywhere !

FactoryChat: An Asset Management Tool

Your ticket to the Industrial IoT:

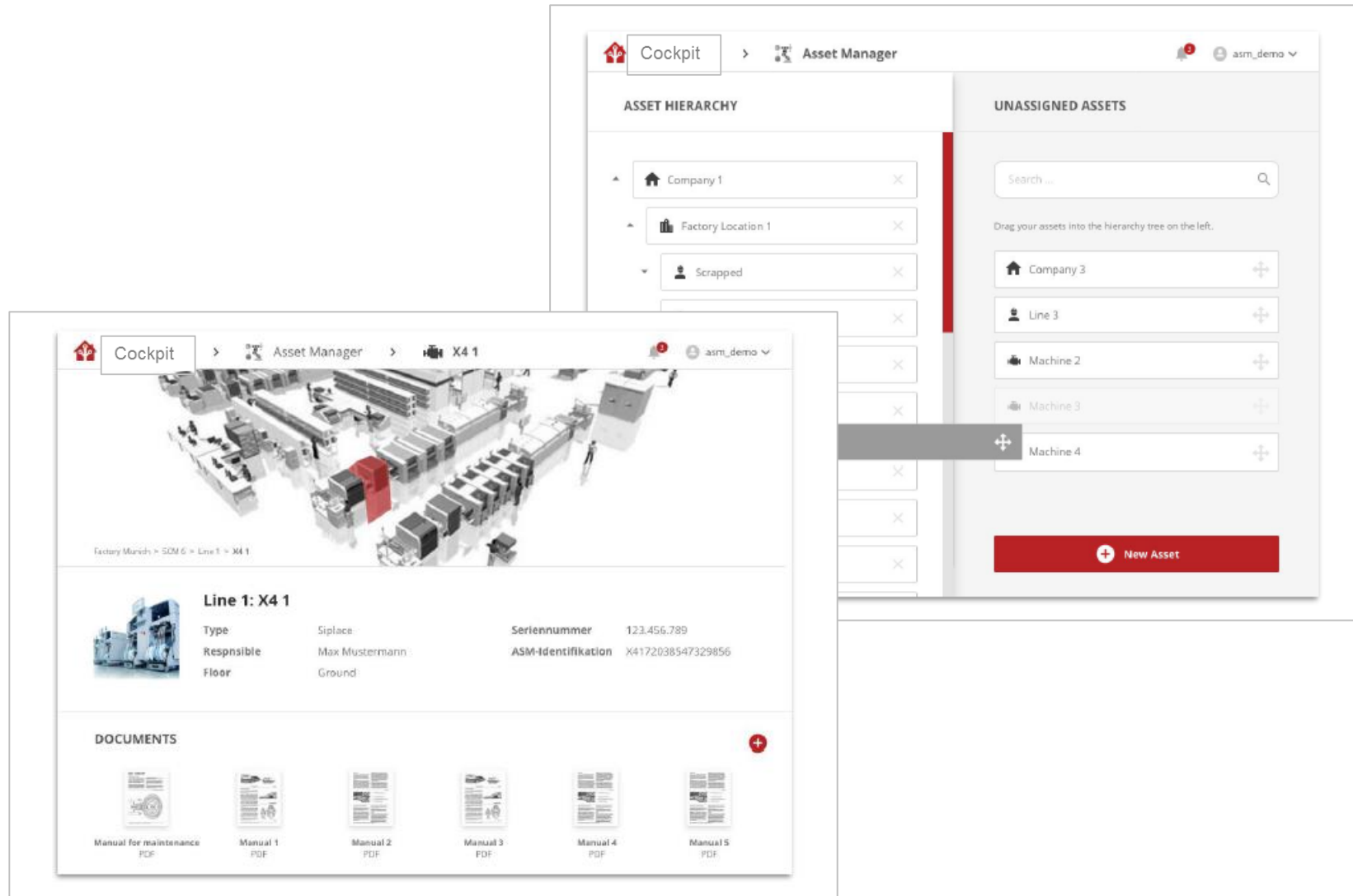
- Cloud Based „Self Service“ Asset Management.

Define assets of your entire factory

- enjoy an easy to view format
- Take advantage of the “drag-and-drop” style.

Supports ASM as well as any 3rd party equipment!

- Structure your whole site based on ISA-95



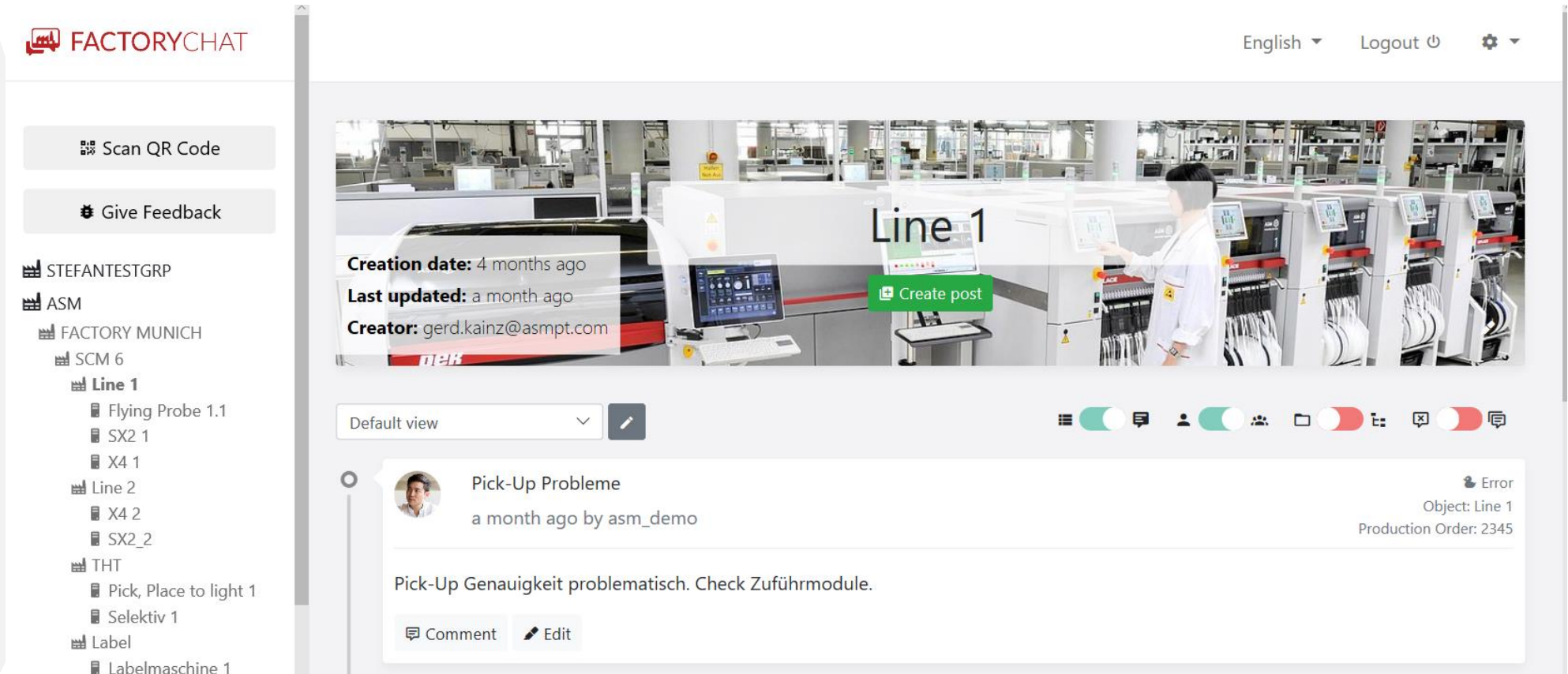
FactoryChat - The intuitive collaboration tool in the cloud

What is FactoryChat?

- It is an **Asset Management tool** – Layout your entire factory in an easy to view format. Supports ASM as well as any 3rd party equipment!
- It is an **Information Management tool** – Centrally collect and store all important information on your manufacturing assets. Posts are collected in a timeline by your operators and by connected equipment.
- It is an **Accelerated Learning tool** – Issues and fixes are posted by operators and equipment over time creating a database of solutions. This database becomes the repository for your manufacturing expertise. Easily search this database for answers and resolve your issues faster reducing your downtime, improving quality, and lowering costs of ownership.
- It is a **Global tool** – Data can be securely collected and searched on every machine, on every line, in every factory. Want to know what happened on 2nd shift at the factory in China? Just pull up the shift report. Want to see what caused the down time on a specific line? Search on that line. And do this from anywhere in the world at any time for any period of time.

FactoryChat: An Asset Management Tool that optimizes collaboration

- Collaborate on Your Factory Tree Structure via Posts per Factory / Line / Machine



FACTORYCHAT

English ▾ Logout ⚡ ⚙ ▾

Scan QR Code

Give Feedback

- STEFANTESTGRP
- ASM
- FACTORY MUNICH
 - SCM 6
 - Line 1**
 - Flying Probe 1.1
 - SX2 1
 - X4 1
 - Line 2
 - X4 2
 - SX2_2
 - THT
 - Pick, Place to light 1
 - Selektiv 1
 - Label
 - Labelmaschine 1

Line 1

Creation date: 4 months ago
 Last updated: a month ago
 Creator: gerd.kainz@asmpt.com

Create post


Default view ▾ ✎


Pick-Up Probleme Error
 a month ago by asm_demo
 Object: Line 1
 Production Order: 2345


Pick-Up Genauigkeit problematisch. Check Zuführmodule.













Comment Edit

All Posts Arranged in a Table – Ready to be Analyzed


 **FACTORYCHAT**

 Scan QR Code

 Give Feedback

-  STEFANTESTGRP
-  ASM
-  FACTORY MUNICH
 -  SCM 6
 -  **Line 1**
 -  Flying Probe 1.1
 -  SX2 1
 -  X4 1
 -  Line 2
 -  X4 2
 -  SX2_2
 -  THT

English ▾ Logout ⌵ ⚙️ ▾




Creation date: vor 4 Monaten



Last updated: vor einem Monat

Creator:
gerd.kainz@asmpt.com

Create post

Default view ▾ 

☰ 🔴 💬 👤 🟢 👥 📁 🔴 🗒️ 📧 🔴 💬

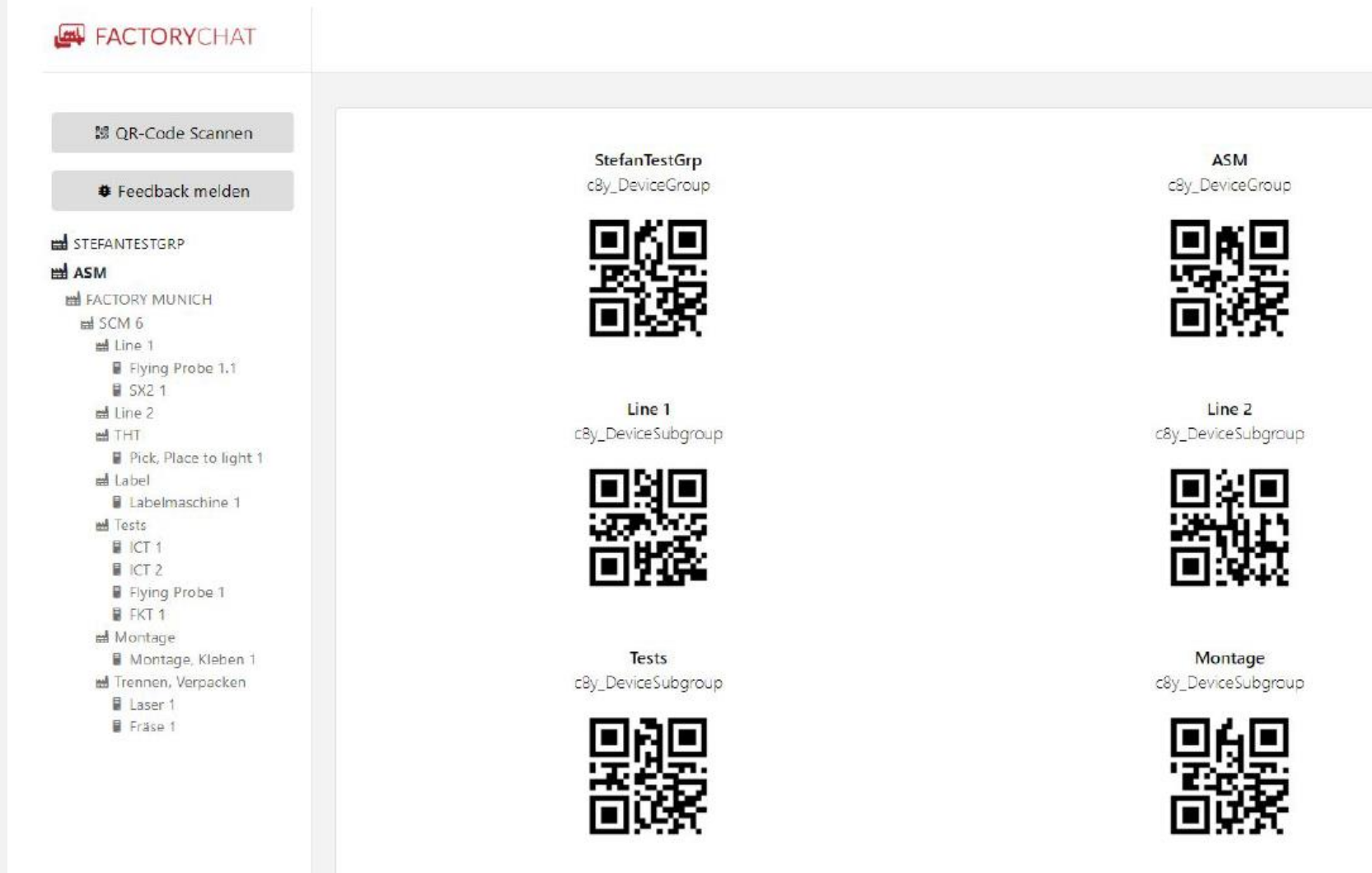
Post Icon	Text	Defect Type	Has Attachme...	Has Comment...	Creation Date...	Has Solution...
	Pick-Up Genaui...		No	No	2018-08-07T11:...	No
	Zuführmodule f...		No	No	2018-08-02T14:...	No

ASM Assembly Systems

IIoT Factory Applications

Page 11

Easy to Use: QR Code Generation and Scan for Direct Posting per Machine



The screenshot displays the FACTORYCHAT interface. On the left is a navigation tree with the following structure:

- FACTORYCHAT
 - QR-Code Scannen
 - Feedback melden
 - STEFANTESTGRP
 - ASM
 - FACTORY MUNICH
 - SCM 6
 - Line 1
 - Flying Probe 1.1
 - SX2 1
 - Line 2
 - THT
 - Pick, Place to light 1
 - Label
 - Labelmaschine 1
 - Tests
 - ICT 1
 - ICT 2
 - Flying Probe 1
 - FKT 1
 - Montage
 - Montage, Kleben 1
 - Trennen, Verpacken
 - Laser 1
 - Fräse 1

The main content area shows a grid of QR codes for direct posting per machine:

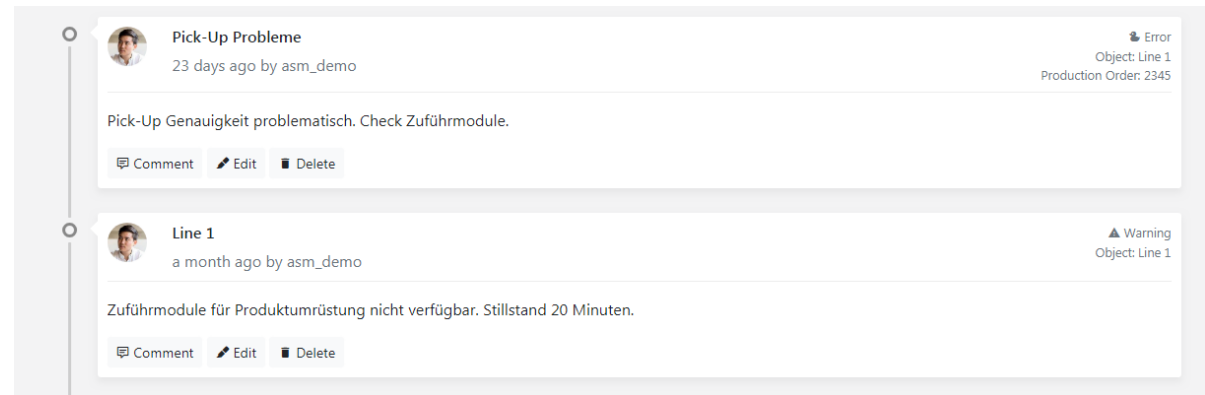
- StefanTestGrp** (c8y_DeviceGroup)
- ASM** (c8y_DeviceGroup)
- Line 1** (c8y_DeviceSubgroup)
- Line 2** (c8y_DeviceSubgroup)
- Tests** (c8y_DeviceSubgroup)
- Montage** (c8y_DeviceSubgroup)

Posts by Operators

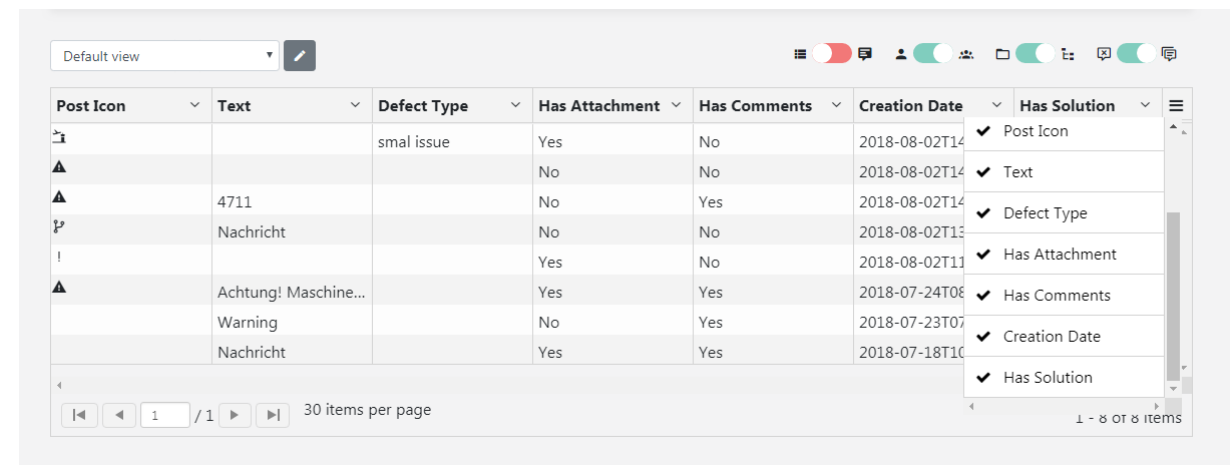
FactoryChat in depth:

- an **Information Management tool** – Centrally collect and store all important information on your manufacturing assets. Posts are collected in a timeline by your operators and by connected equipment.
- an **Accelerated Learning tool** – Issues and fixes are posted by operators and equipment over time creating a database of solutions. This database becomes the repository for your manufacturing expertise. Easily search this database for answers and resolve your issues faster reducing your downtime, improving quality, and lowering costs of ownership.

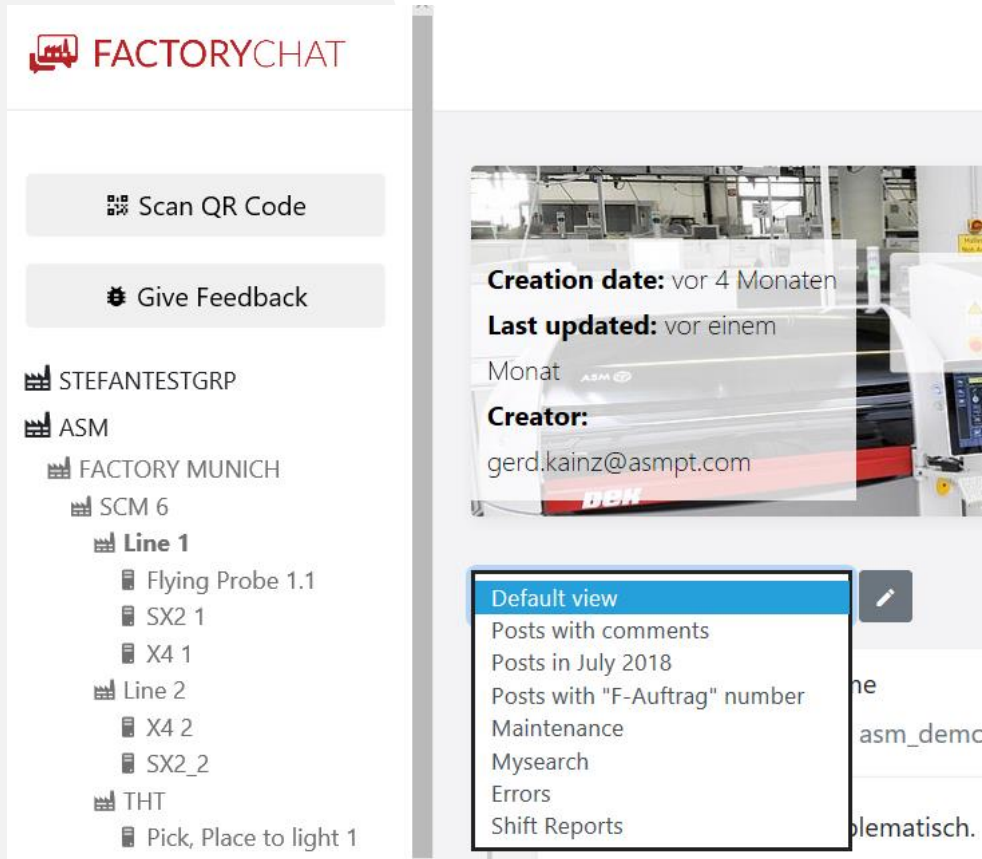
Posts by Operators



Search and Filter Function



Customized Reporting for any Information Needs and Analysis Challenges



FACTORYCHAT

Scan QR Code

Give Feedback

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 - SX2_2
 - THT
 - Pick, Place to light 1

Creation date: vor 4 Monaten
 Last updated: vor einem Monat
 Creator: gerd.kainz@asmpt.com

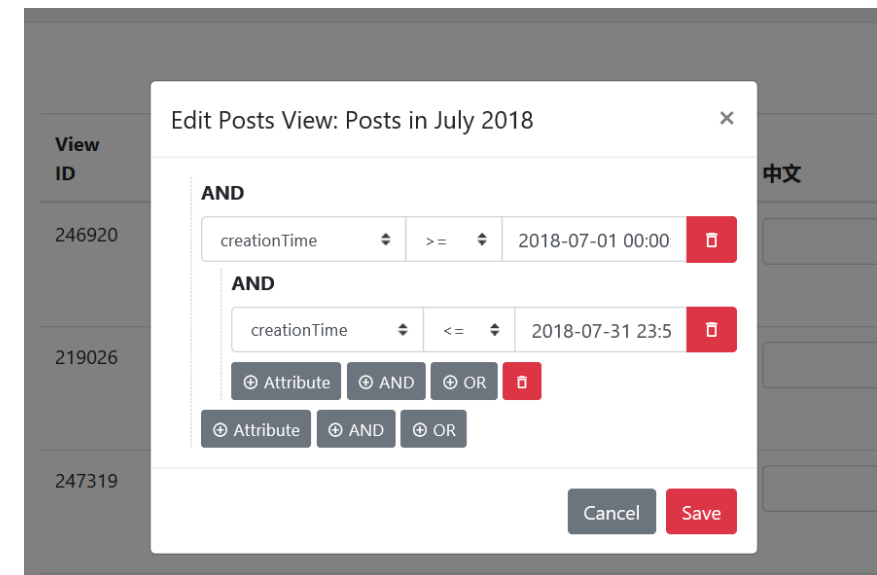
Default view
 Posts with comments
 Posts in July 2018
 Posts with "F-Auftrag" number
 Maintenance
 Mysearch
 Errors
 Shift Reports

Reporting:
 Shift reports / Error lists / Posts in time period /
 Posts with Solutions / ...

Save

View ID	Deutsch	English	中文
246920	Posts mit Kommentaren	Posts with comments	
219026	Posts von Juli 2018	Posts in July 2018	
247319	Posts mit F-Auftragsnumme	Posts with "F-Auftrag" numl	

**Set your own
 adaptable
 reporting
 boundaries:**



Edit Posts View: Posts in July 2018

creationTime >= 2018-07-01 00:00

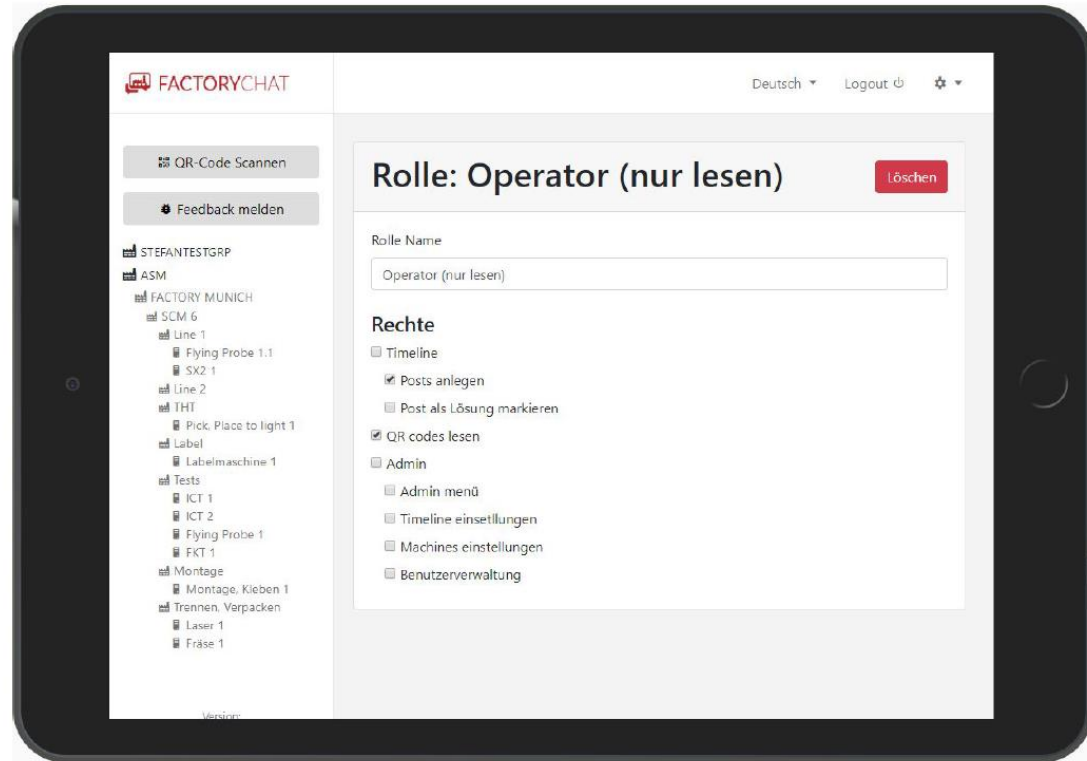
creationTime <= 2018-07-31 23:5

Attribute AND OR

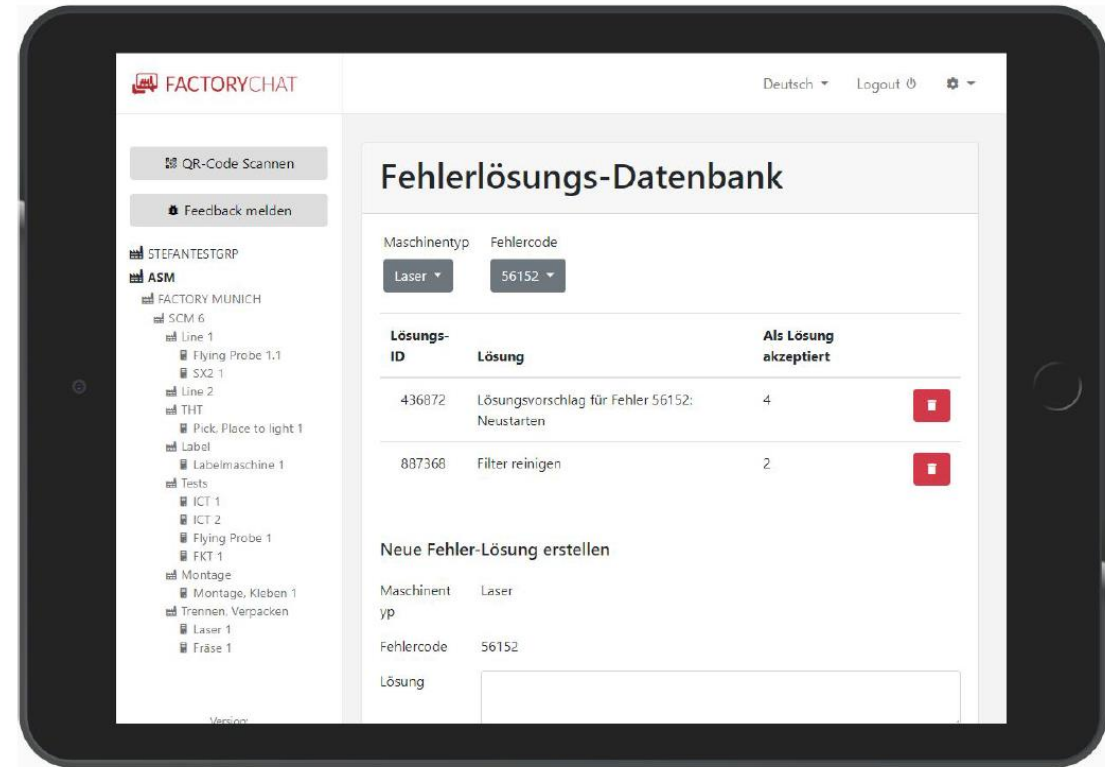
Cancel Save

Coming soon ...

Roles and Rights per Machine and User



Data Base and WIKI for Machine Errors



FactoryChat – Easy Start and Adding Features

1. Collaboration

WeChat/WhatsApp Features – manual posts, upload pictures and videos per incident (machine connectivity not necessary at first)

2. Reporting

Shift reports / error filter functionality

3. Solutions

Show solution of problems per error / attach pictures and videos

4. Machine Connection

Allow automatic machine posts to show timeline per machine / line for data analysis

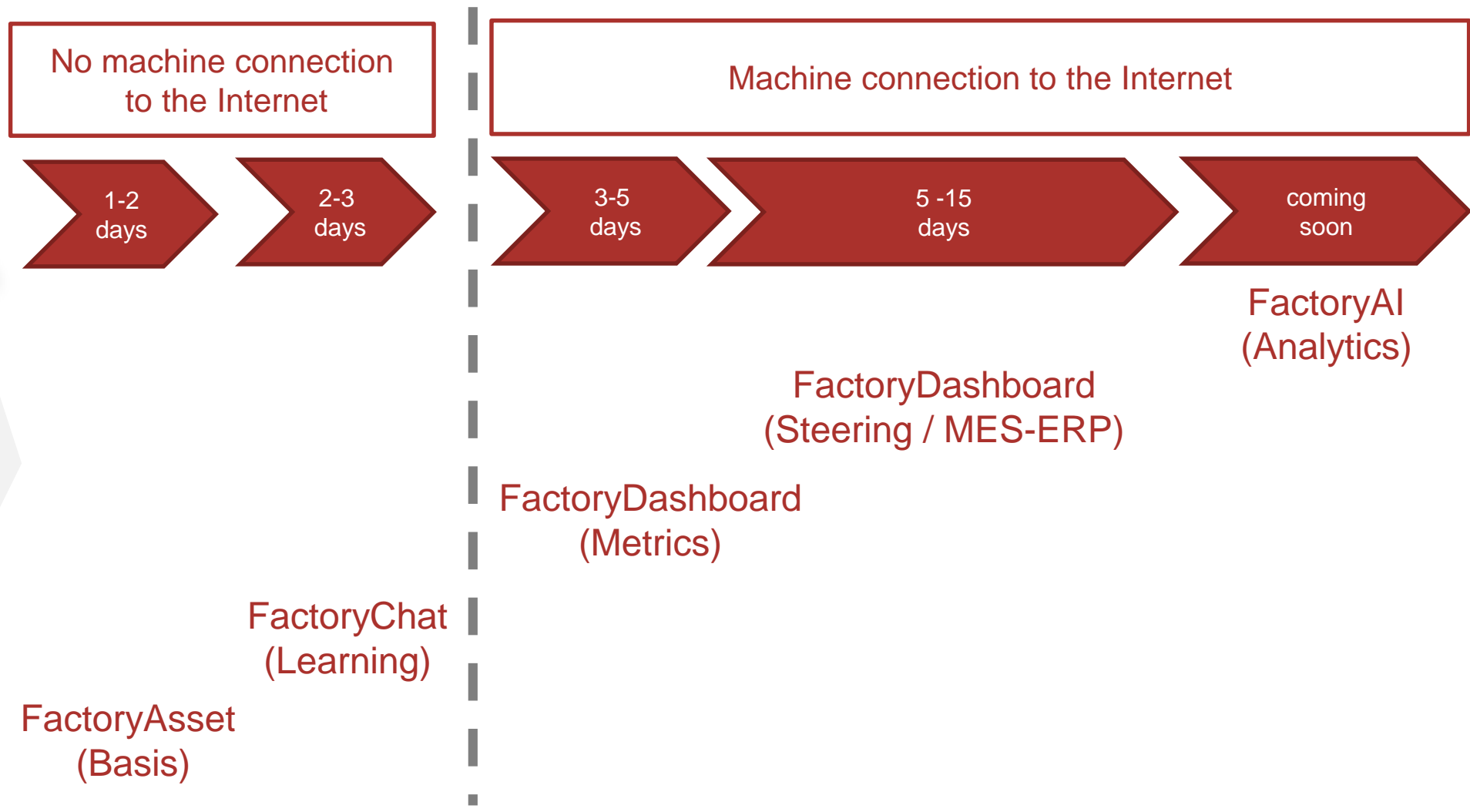
5. Information Channel per machine

Use application as Marketing Channel per machine or line for new ASM releases and tips for process optimizations

6. Platform

Allow foreign machine suppliers access to dedicated machines and bring them onto the ASEMO platform

Quick-Start with ASM into the Industrial Internet of Things within maximum 5 Days

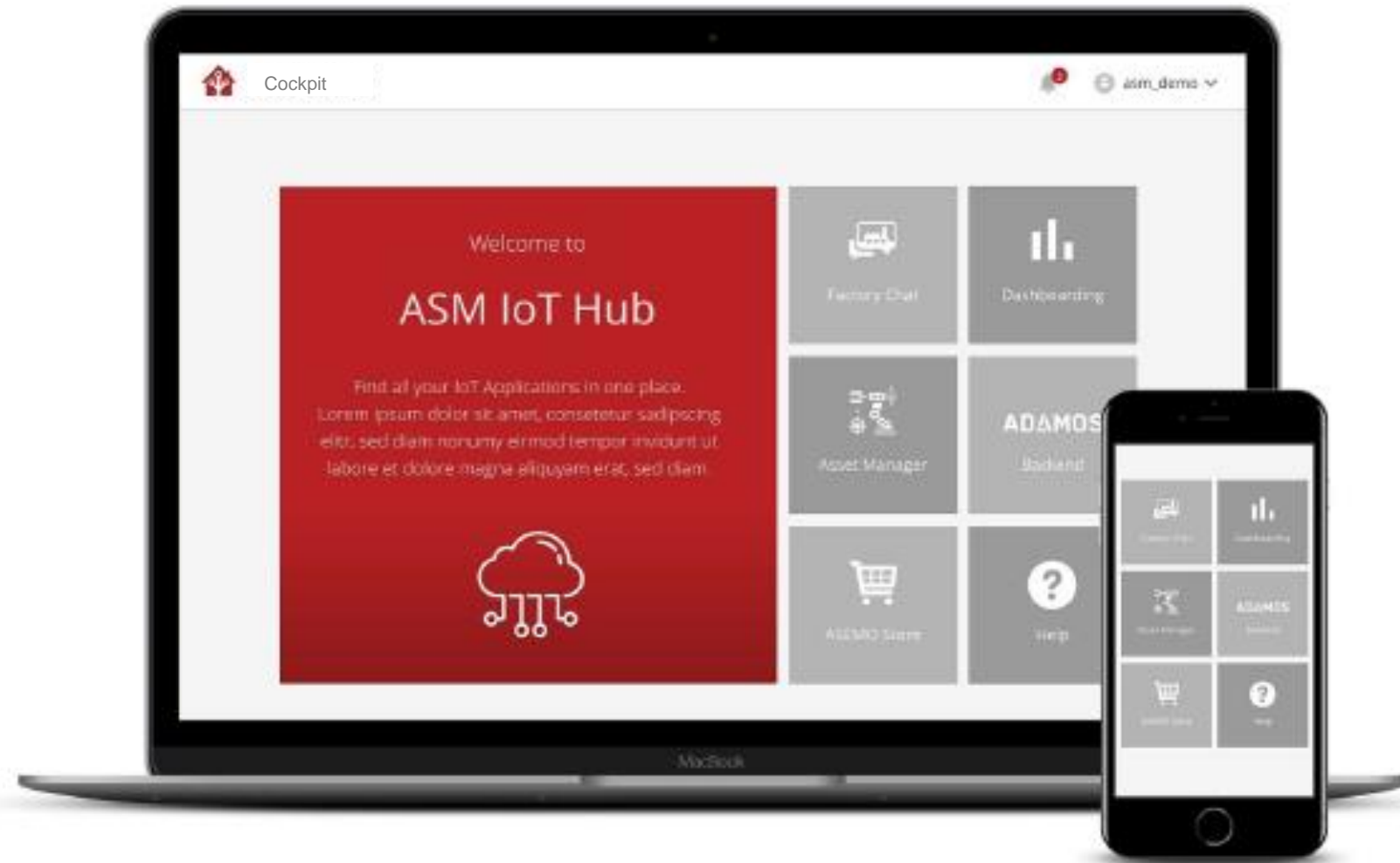


FactoryChat - The Roadmap to Industry 4.0

Where can this go?

- Post pictures and videos – Pictures are worth a 1000 words. Machine issues, production issues, facility issues....what ever you want to quickly and easily communicate! And it is saved for future reference!
- Connect the factory – when an issue occurs, pull up the manual, drawing, or on line learning video with automatic reference to the issue. Identify the replacement part needed and pull up the online parts ordering tool automatically. Connect to the equipment vendor help desk and stream live video with real time communication.
- Artificial Intelligence – Once a knowledge base is created, use that knowledge to automatically suggest solutions. The system will learn the best practices and make informed decisions for fastest issue resolution.

Cockpit for IIoT Factory Applications



ENABLING THE DIGITAL WORLD

Thank You

Name and E-Mail

**Together
#1**