

Få indsigt og værdi med Industrial Edge

Nye muligheder med
Notifier og Flow Creator apps

SIEMENS



Dagens værter



Rasmus Loft, Technology Specialist

Kasper Germann Olsen, Technology Specialist

SIEMENS



Agenda

Oversight Industrial Edge

Industrial Edge App - Notifier

Industrial Edge App - Flow Creator

Third-Party App's

Industrial Edge App Development

Industrial Edge



Low-Code platform

Build apps faster for cloud, on-premise or hybrid infrastructure

IIoT as a service

Centralized computing & storage, with solutions, apps & services

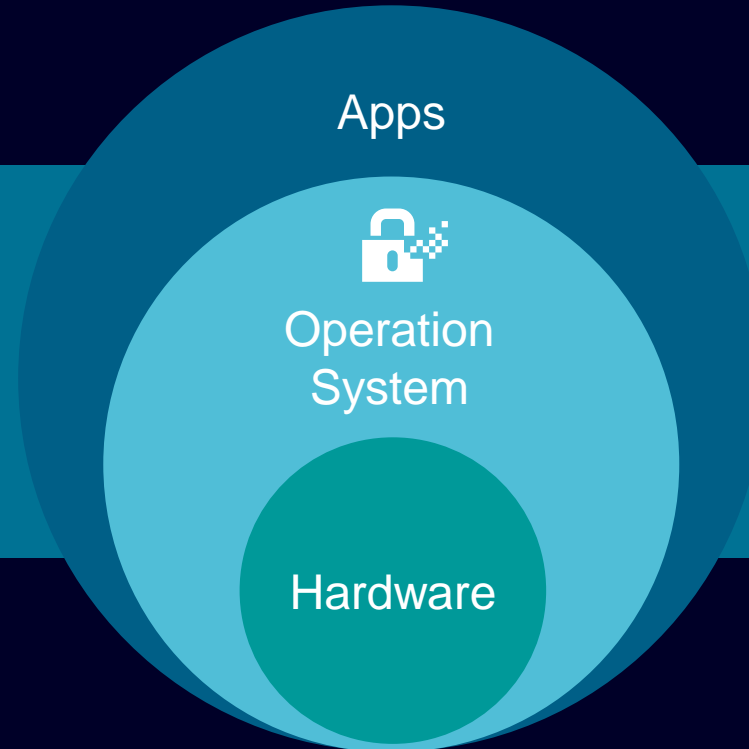
Edge Computing

Decentral computing & storage with device runtime, apps & management

Field/Control

Automation runtime & engineering connectivity

| Industrial Edge



Focus on your domain
know how



No maintenance required
with Security by default



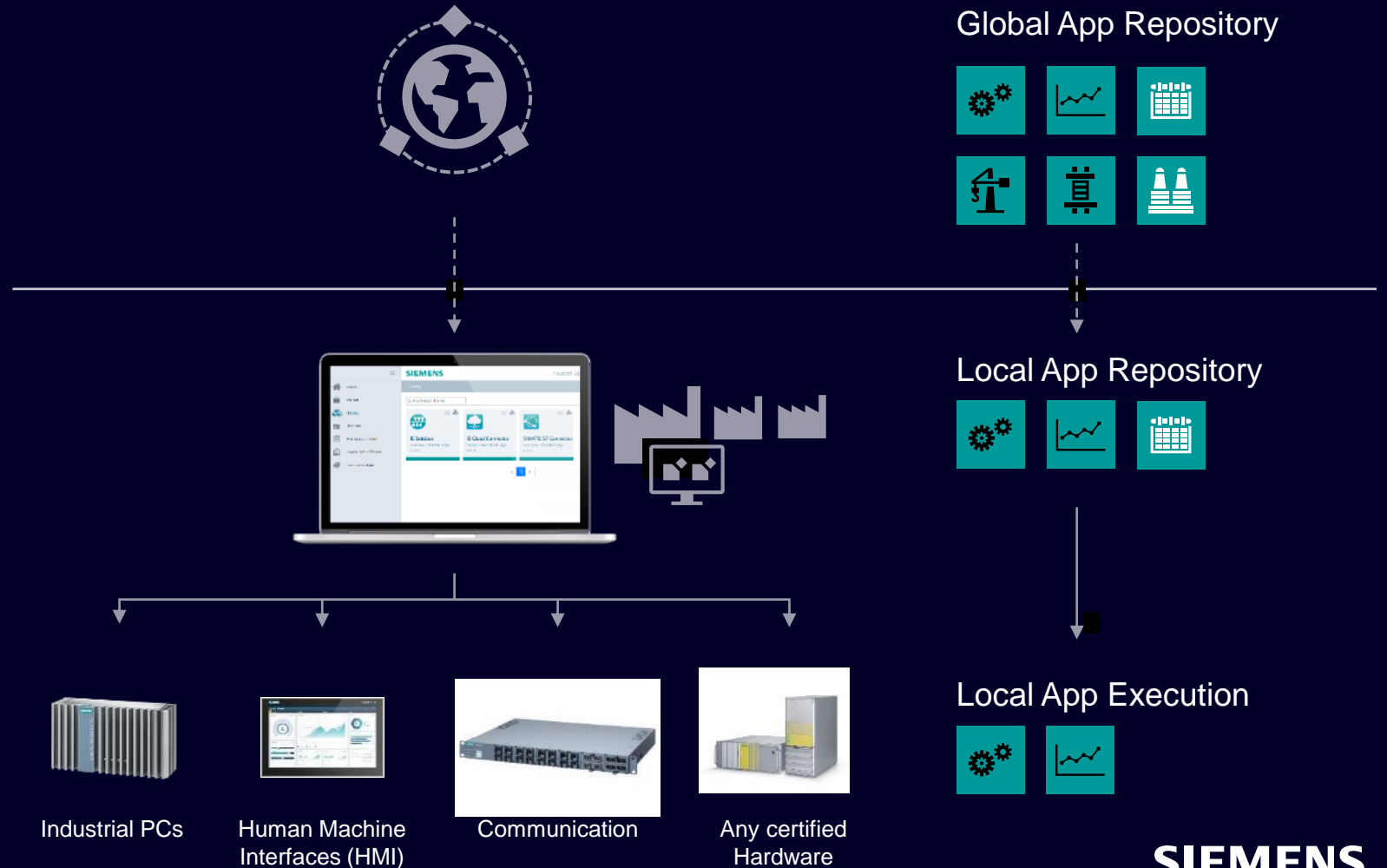
Scalable infrastructure
tailored to your requirements

Industrial Edge system

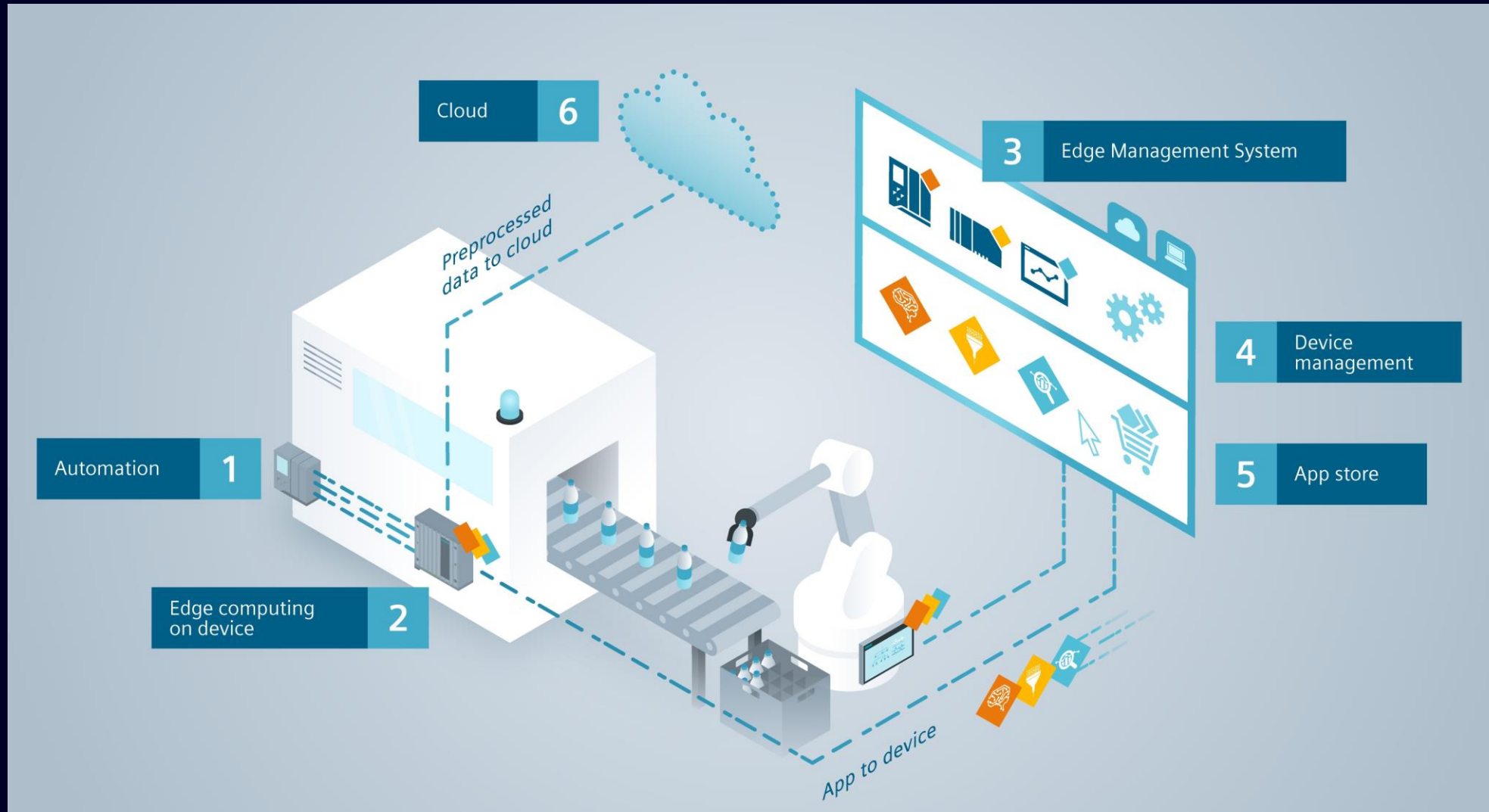
Industrial Edge Hub (Cloud)
(Siemens operated)

Industrial Edge Management (local)
(Flexible location)

Industrial Edge Core on Industrial Devices
(In-Factory)

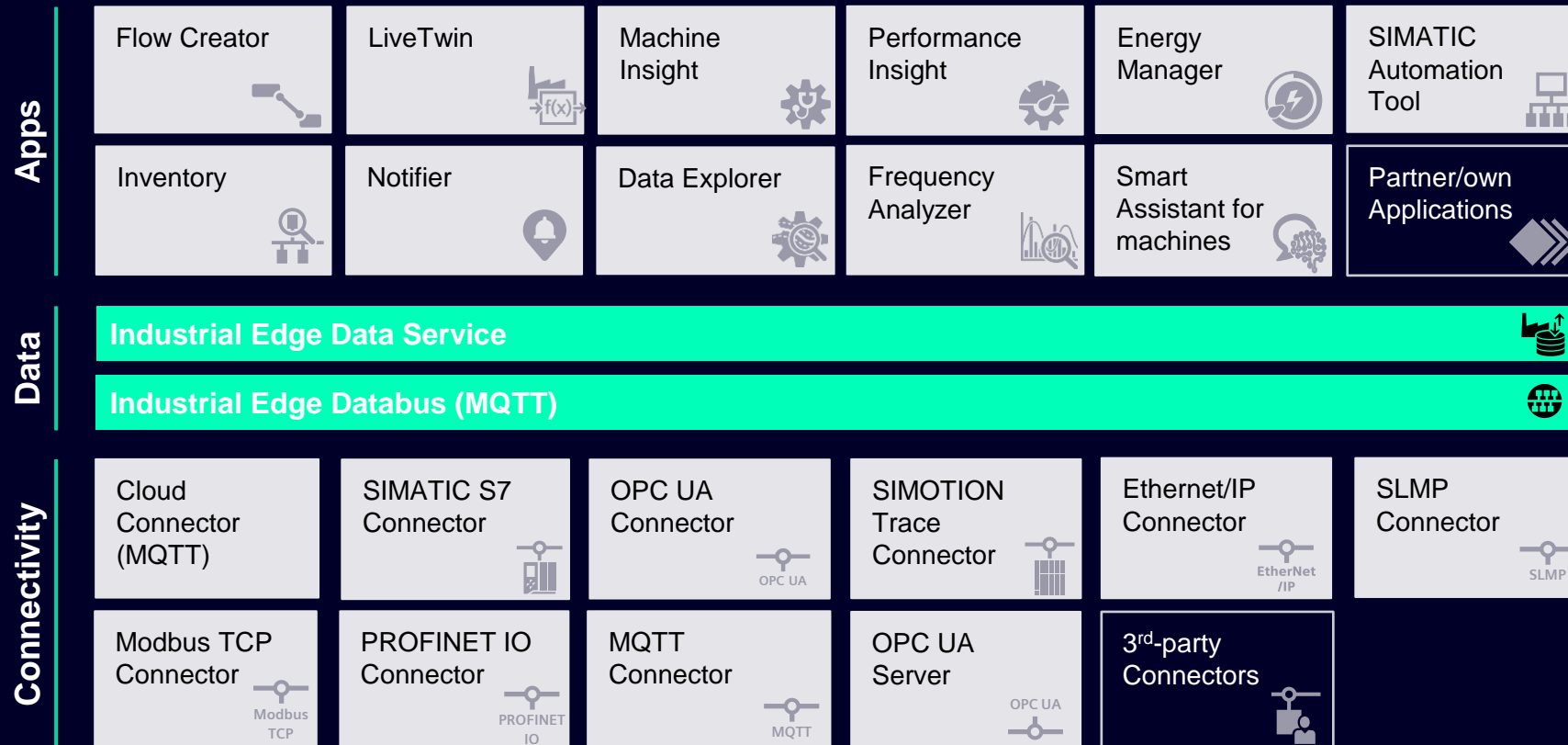


Industrial Edge system



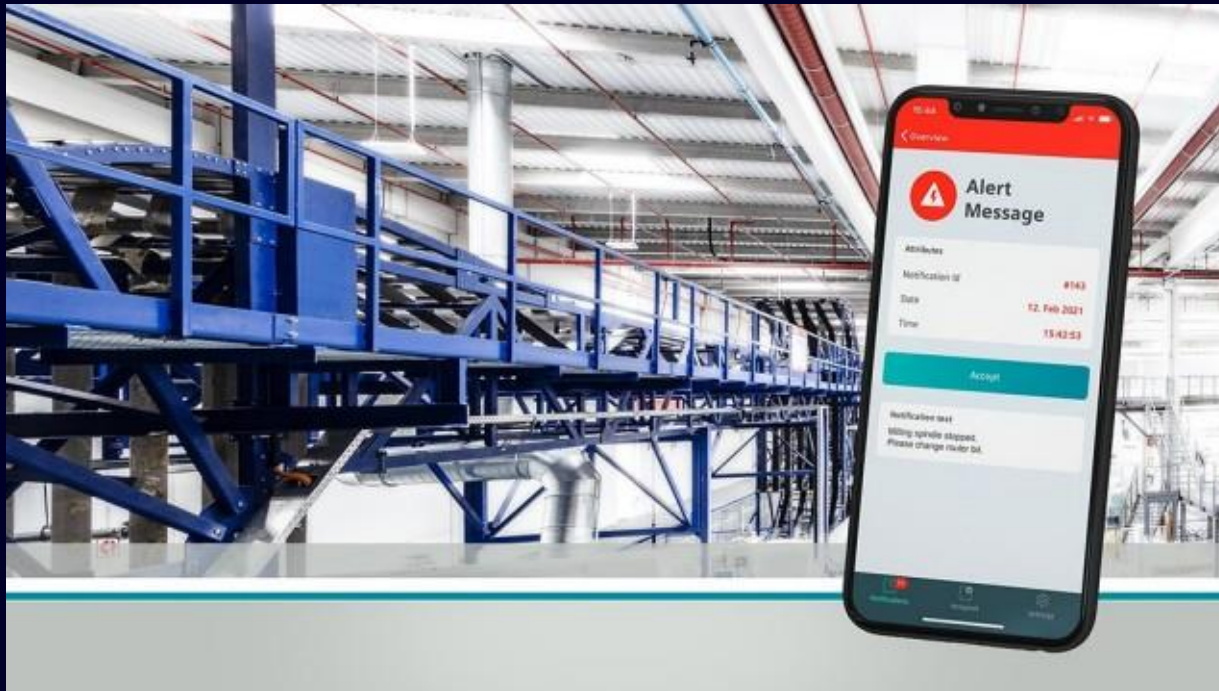
Connectivity and apps

Industrial Edge Platform



Feature App Notifier

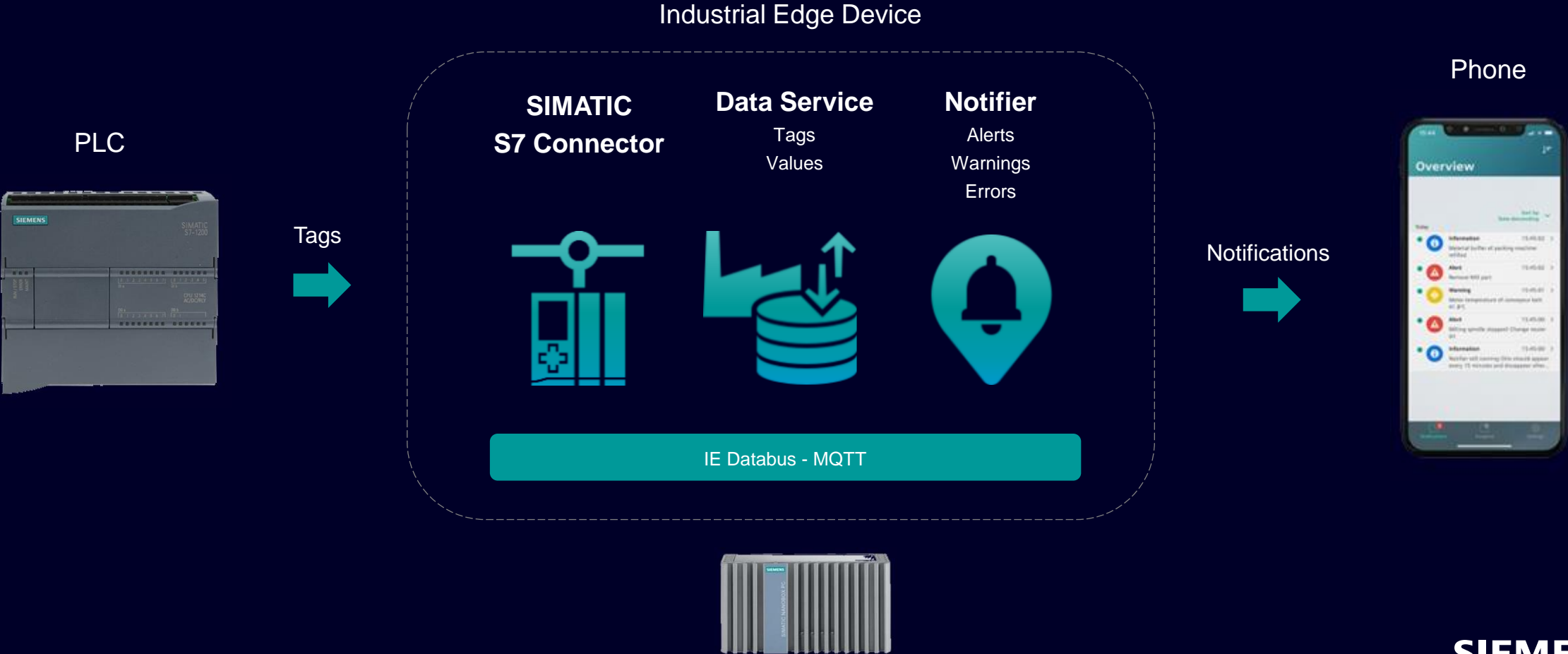
Notifier



**Know what is
happening in the
plant at all times**

With Notifier, you significantly reduce your response and downtime times. You receive notifications about the plant's status and can exchange push messages with your staff.

Notifier Demo



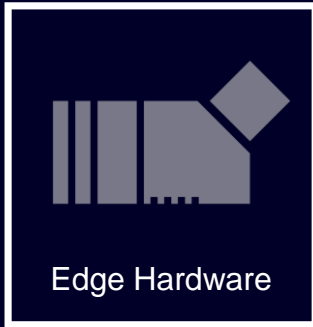
Notifier Live Demo

I'll make it myself

Ill make it myself



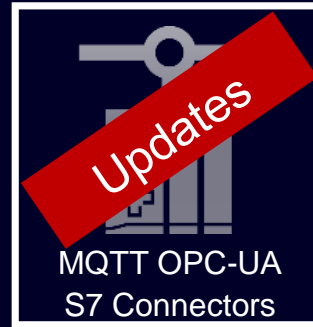
PLC



Edge Hardware



Platform



MQTT OPC-UA
S7 Connectors



Bus and Data
Service



Notifier app



Smart Phone/watch



Mobile Notifier app



Management



Commissioning



Certificates and
Security



User administration



App deployment

I'll make it myself



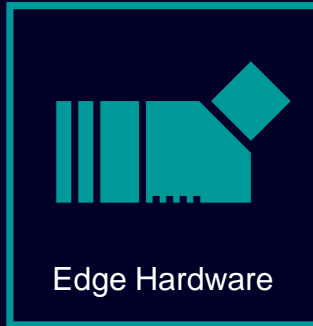
PLC



Smart Phone/watch



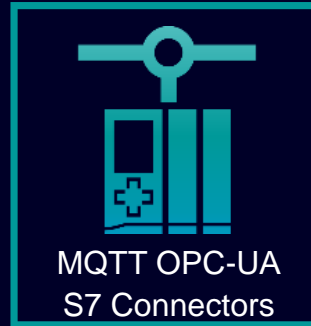
Management



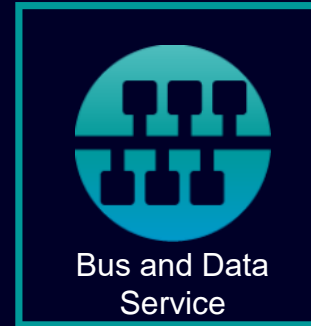
Edge Hardware



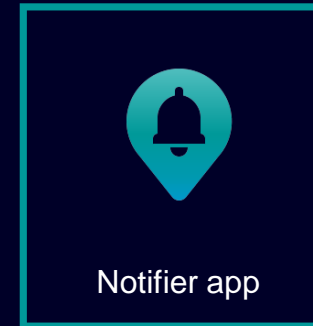
Platform



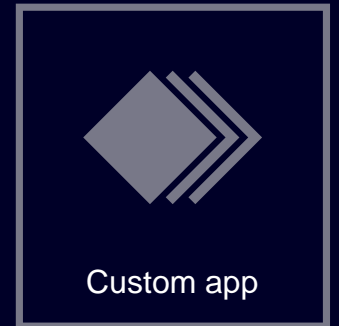
MQTT OPC-UA
S7 Connectors



Bus and Data
Service

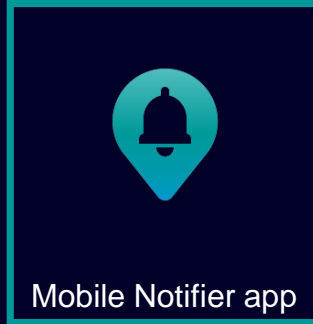


Notifier app



Custom app

Updates



Mobile Notifier app



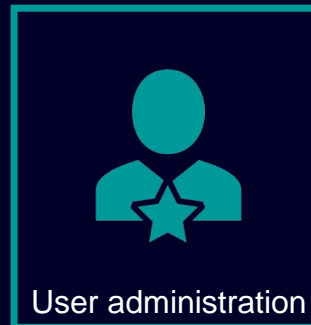
Central Updates



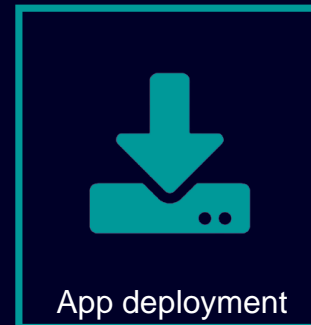
Commissioning



Certificates and
Security



User administration



App deployment

I'll make it myself



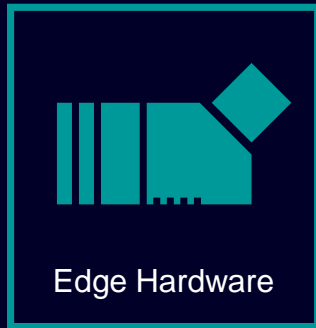
PLC



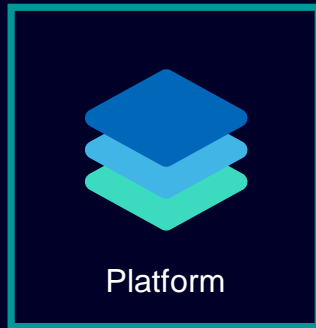
Smart Phone/watch



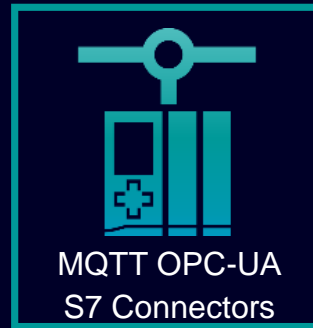
Management



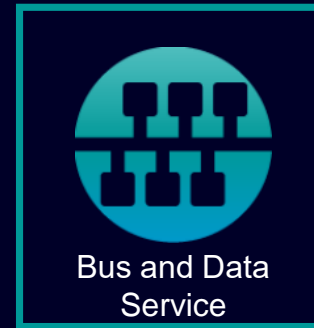
Edge Hardware



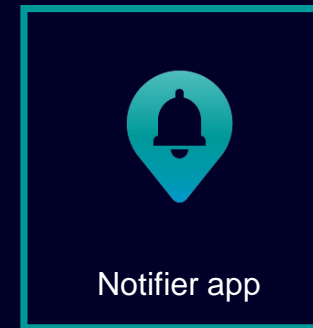
Platform



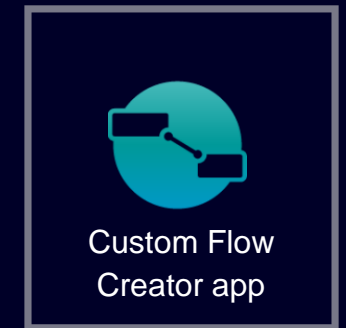
MQTT OPC-UA
S7 Connectors



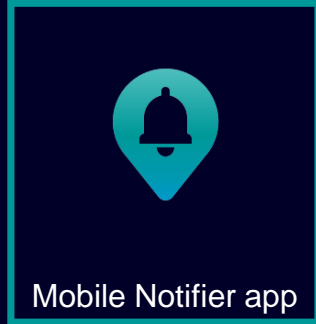
Bus and Data
Service



Notifier app



Custom Flow
Creator app



Mobile Notifier app



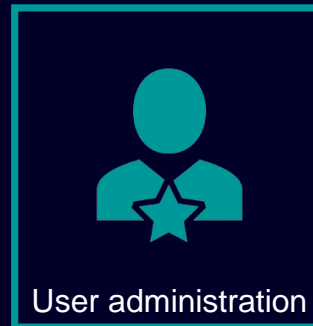
Central Updates



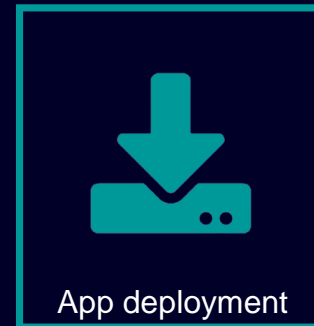
Commissioning



Certificates and
Security



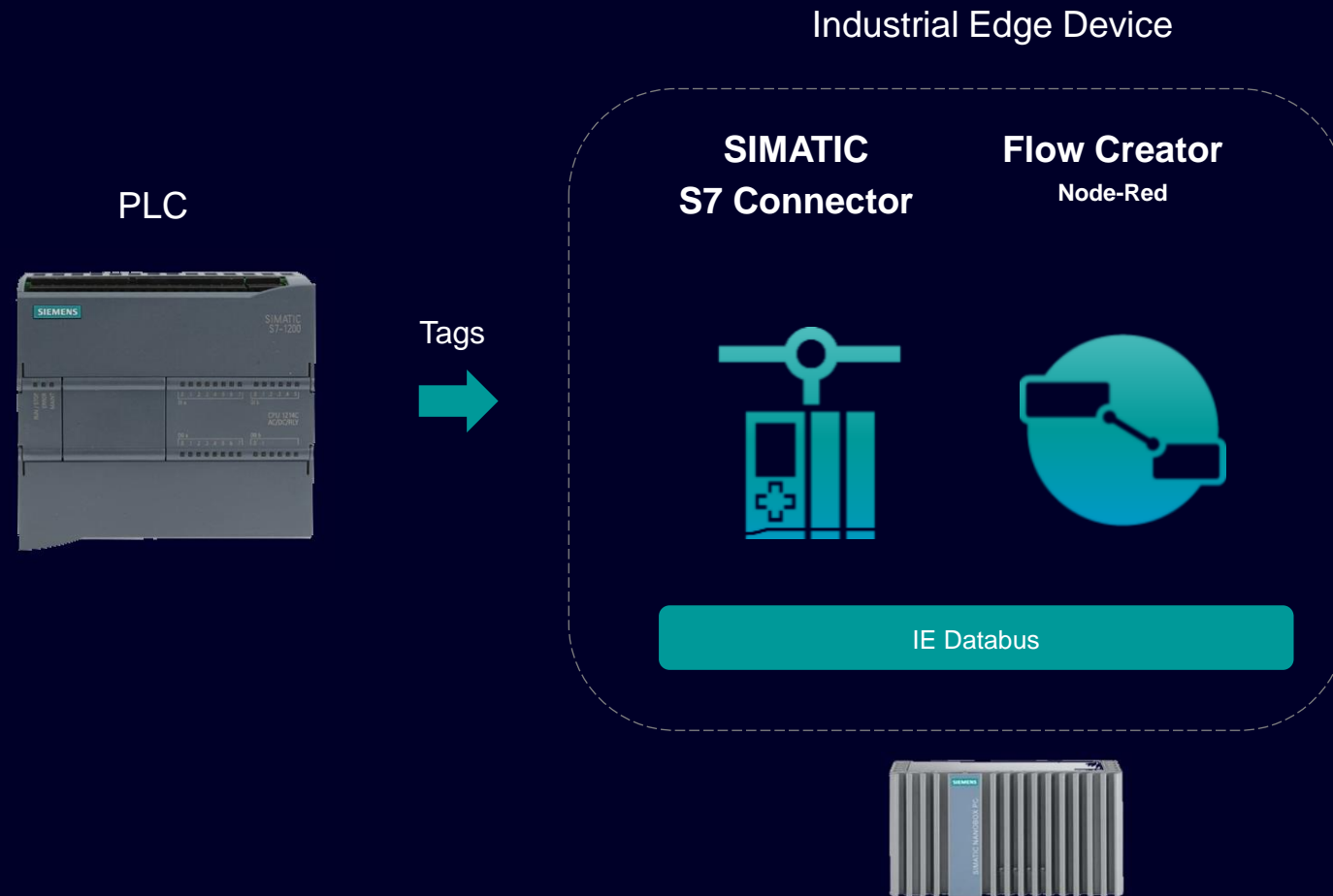
User administration



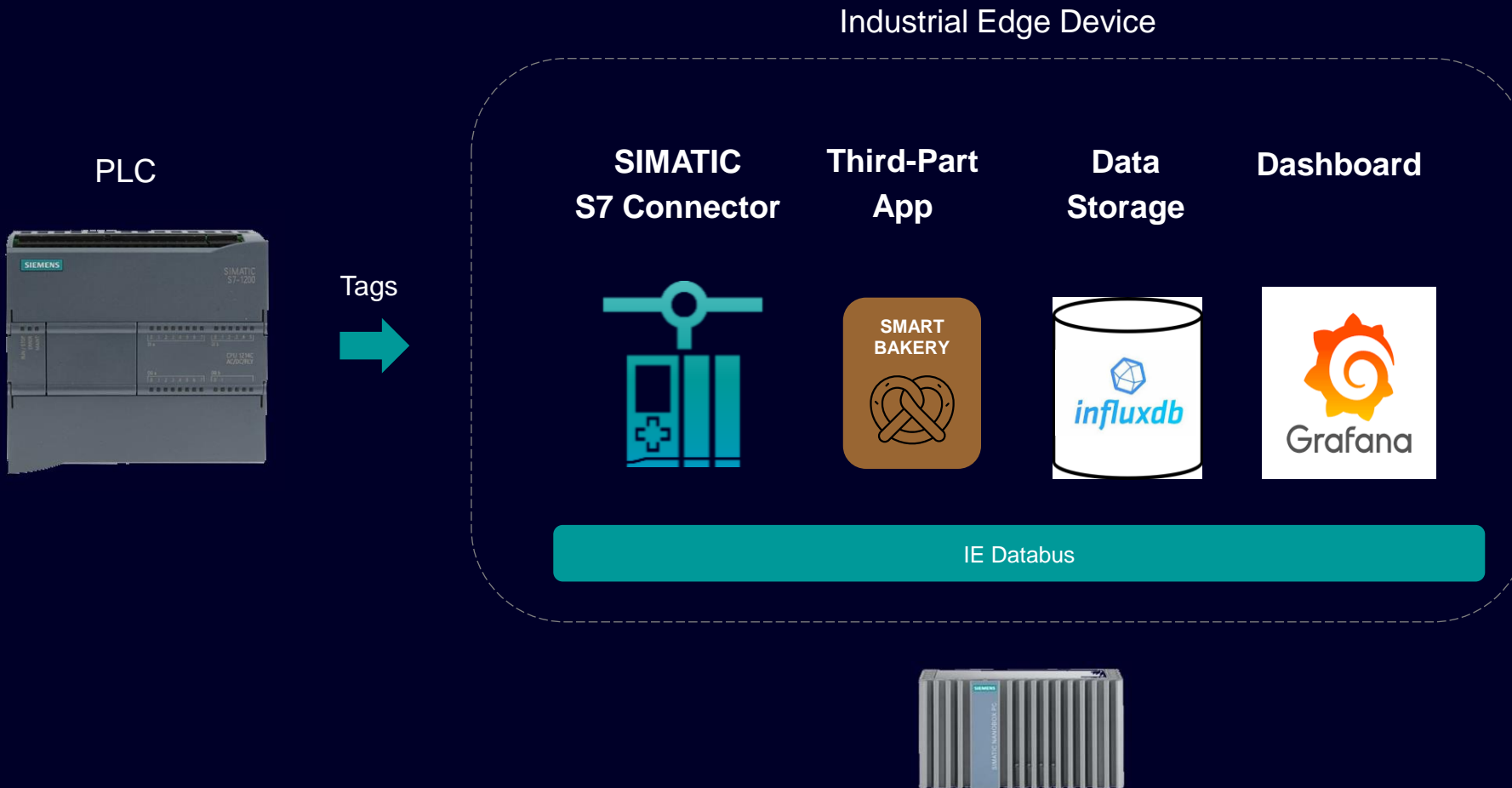
App deployment

Industrial Edge Flow Creator

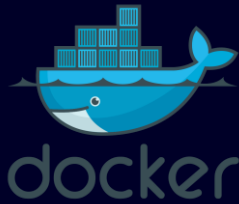
Flow Creator



Third-Party Apps



App Development



Consistent and Isolated Environment
Cost-effectiveness with Fast Deployment
Mobility – Ability to Run Anywhere
Repeatability and Automation
Test, Roll Back and Deploy
Flexibility
Collaboration, Modularity and Scaling

A screenshot of the Visual Studio Code editor. The Explorer pane on the left shows a project structure with folders like "GENIMPC" and "src", and files like "AppHandler.cs", "Dockerfile", "GeniCrcs.cs", "GeniHandler.cs", "GeniMessage.cs", "JsonParams.cs", "Main.cs", "MqttCommClient.cs", "UsrHandler.cs", "docker-compose.yml", "LICENSE.md", and "README.md". The main editor area shows the code for "MqttCommClient.cs". The code defines a "MqttCommClient" class with a "client" property, "clientId", "mqttBroker", "mqttUser", "mqttPw", and "configFile" properties. It also includes a "ManualResetEvent receiveDone" and a "ReadJsonParams" method that reads and deserializes JSON parameters from a file.

```
16 public class MqttCommClient
17 {
18     0 references
19     public MqttClient client;
20     2 references
21     private string clientId;
22     6 references
23     private string mqttBroker;
24     6 references
25     private string mqttUser;
26     6 references
27     private string mqttPw;
28     2 references
29     private string configFile = "///cfg-data/mqtt-config.json";
30     1 reference
31     public ManualResetEvent receiveDone = new ManualResetEvent(false);
32     1 reference
33     private JsonParams ReadJsonParams(string path)
34     {
35         JsonParams parameters = new JsonParams();
36
37         try
38         {
39             Console.WriteLine("Start reading config params from " + path + ".");
40             string text = File.ReadAllText(path);
41
42             parameters = JsonConvert.DeserializeObject<JsonParams>(text);
43
44             Console.WriteLine("user= " + parameters.User);
45             Console.WriteLine("password= " + parameters.Password);
46             Console.WriteLine("broker ip= " + parameters.BrokerIP);
47         }
48         catch (Exception ex)
49         {
50             Console.WriteLine("Error while reading config file: " + ex);
51         }
52
53         return parameters;
54     }
55 }
```


Industrial Edge

Connecting IT/OT



SIEMENS

| Kontakt

Rasmus Loft

rasmus.loft@siemens.com

Kasper Germann Olsen

germann.olsen@siemens.com

SIEMENS



SIEMENS

WEBINARER MED INSPIRATION, VIDEN OG VÆRDI

Industry Information Live

Tilmeld dig, se og gense på
www.siemens.dk/di-webinarer



Tilmeld dig på
www.siemens.dk/di-tilmeld-nyheder

Du finder også vores nyheder på
www.siemens.dk/di-nyheder

NYHEDSBREVE TIL INDUSTRIEN
UDKOMMER 8-10 GANGE OM ÅRET

Industry Information News

TIPS OG TRICKS PÅ YOUTUBE

Industry Information Demo

Find hurtigt playlisten og abonner via
www.siemens.dk/di-demo

