IQRF Meetup Praha 15.9.2021

SANELA spol. s r.o.
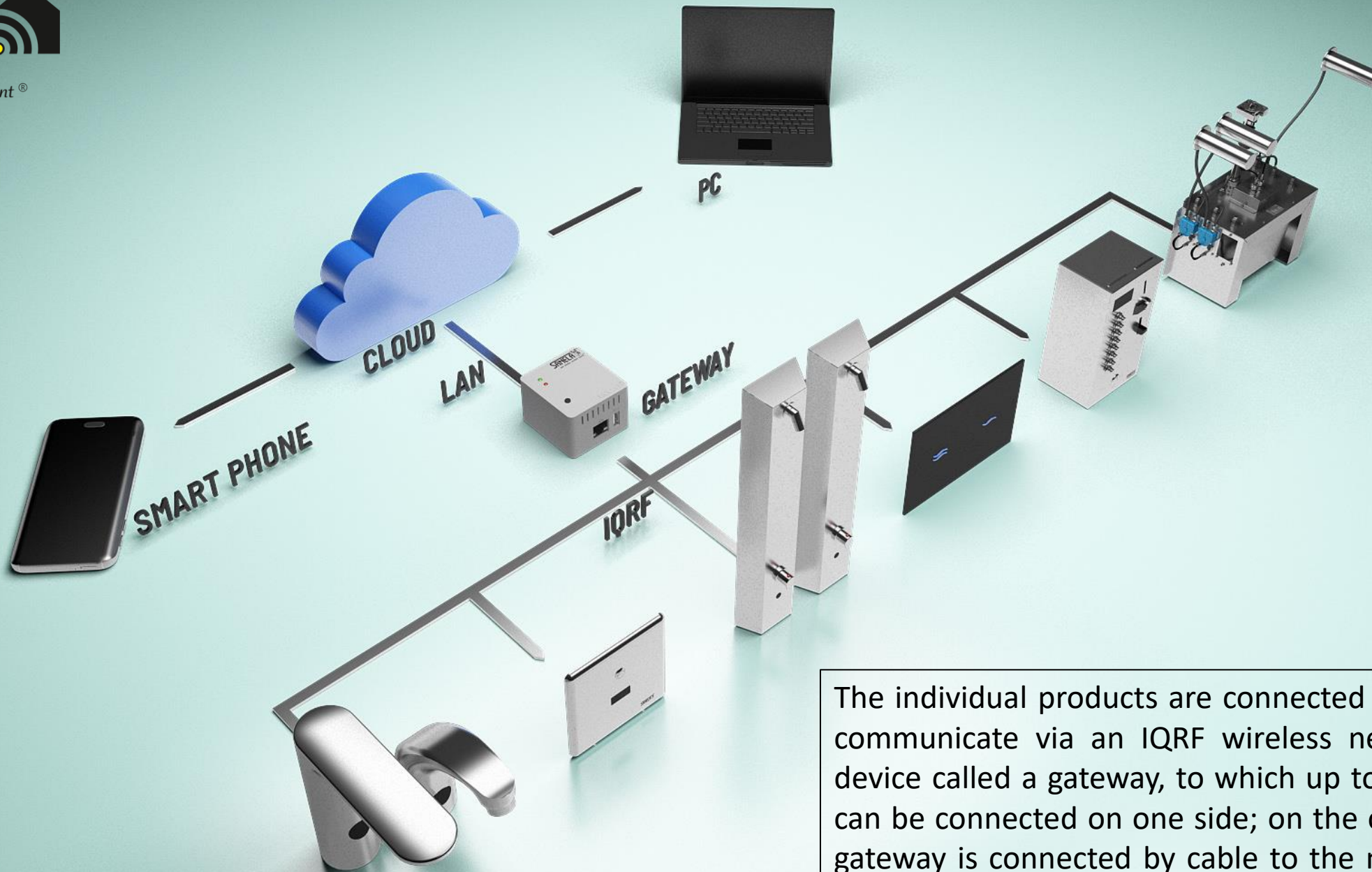-   founded 1997, based in Lanškroun, Czech Republic
-    65 employees
-    turnover 2020: EUR 7 million
-    IQRF Alliance member since 2016

SANELA spol. s r.o.

- manufacturer and supplier of sanitary equipment
- own development department
- product portfolio:
  - automatic urinal and toilet flushers
  - automatic shower controls
  - automatic washbasin taps
  - payment terminals
  - wellness program
  - sanitary stainless steel equipment

SANELA
SMART SANITARY
ultimate water management ®

PC

CLOUD

LAN

GATEWAY

SMART PHONE
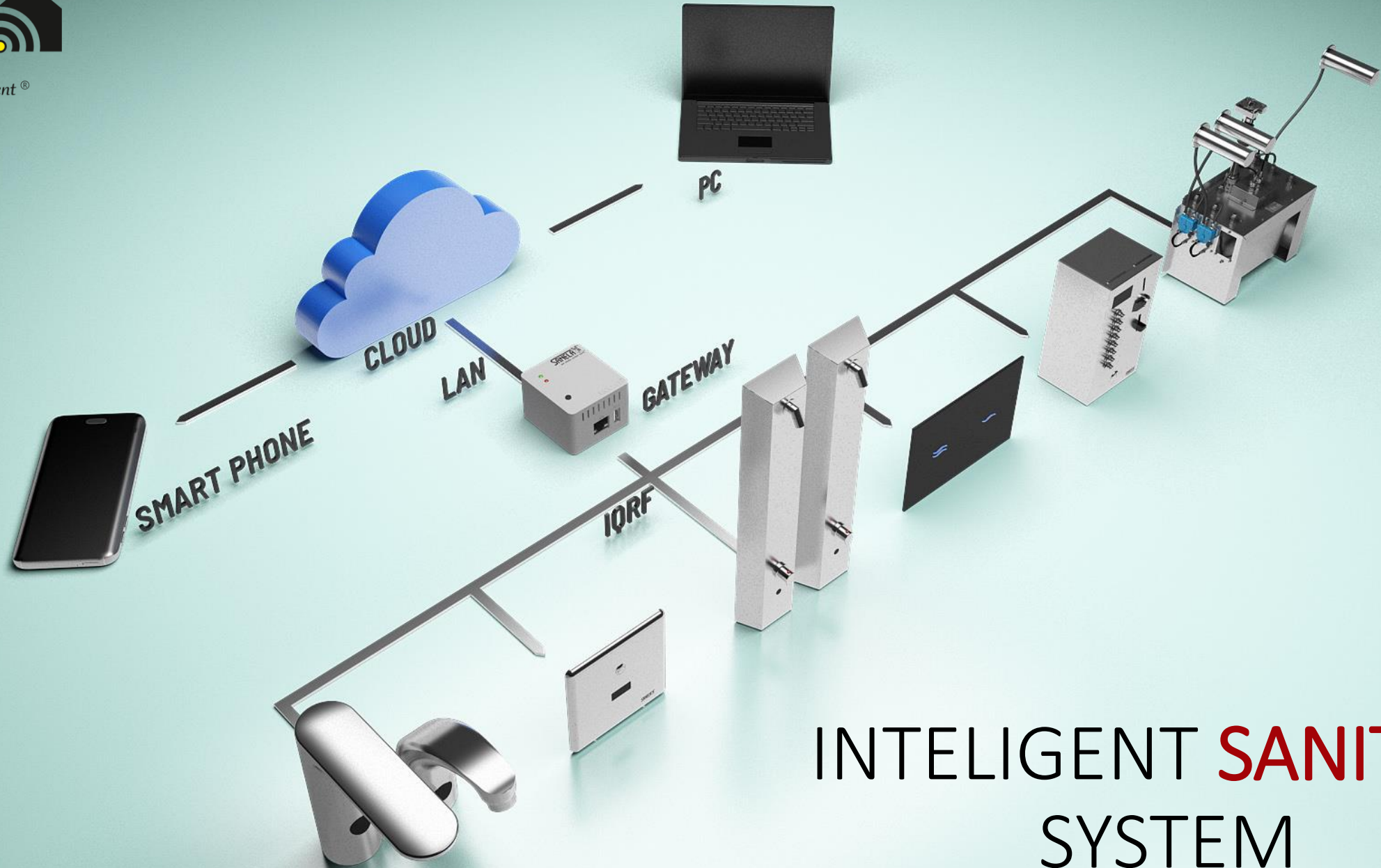
IQRF

INTELIGENT SANITARY
SYSTEM

The individual products are connected in groups that communicate via an IQRF wireless network with a device called a gateway, to which up to 239 products can be connected on one side; on the other side, the gateway is connected by cable to the network inside the building.

WHAT IS THE IQRF:

- IQRF is a wireless **LPWAN** (Low Power Wide Area Network) at **868 MHz**
- can transmit data over long distances depending on the type of building
- certified standard
- the possibility of combining end devices from multiple companies
- up to **239 products** can be connected to a single gateway

THE BENEFITS OF A MOBILE APP:

- **REMOTE ACCESS**

- **EASY AND EFFICIENT MANAGEMENT OF WATER AND ENERGY CONSUMPTION**

- **SAVING TIME AND COSTS IN MANAGING AND MAINTENANCE OF FACILITIES IN LARGER BUILDINGS -** checking the amount of filling at dispensers,...

- **PERFORMING HYGIENIC FLUSHING (LEGIONELLA TREATMENT) -** setting the time and interval of flushing, possibility of printing statistical data to pdf for documenting timely hygienic flushing,...

- **INFORMATION ON THE STATUS OF INDIVIDUAL EQUIPMENT** - water consumption, soap, number of uses,...

- **PARAMETER CHANGE SETTINGS FROM ONE PLACE -** sensitivity, auto flush, off/on, sanitary flush,...

SUPPLEMENTARY INFORMATION:

- The product division of our products will be the same as on www.sanela.eu, the suffix "Q" will indicate a product with the possibility of connecting to our application.
- There is much more data available about each device, it depends on each customer what he wants to monitor, to be in control, we will adapt the application according to the requirement of the specific installation and the needs of the customer.
- Each project is individual, based on the customer's demand, our technicians will design the optimal network according to the specific building, the number of monitored products, the location of individual sanitary facilities. According to this proposal, the sales department will present a quotation designed to meet the requirements.
- An application that allows the preview of the individual products is available free of charge, always for each project. The full use of the system is already charged by credit card or PayPal (monthly, half-yearly, yearly fee).
- After the installation of the individual devices in the building and their start-up, a service technician arrives to connect the products to the application, demonstrate the use and hand over the entire functional system to the customer or an authorized person (currently only available in Czech Republic).

APPLICATION PREVIEWS:

- **LOCATION DETAILS**

General	Data	Attachments	Floor plan

Name:	SanelaLab
Number of devices:	21
Identifier (lPath):	Sanela/Sanela/SanelaLab
Online/On-off:	🟢 🟢
Power On/Off:	**On** ⏻ Off ⏻
Sanit:	**Sanit now !!!** ↻
Program:	⚠ unassigned Status: false
Change program:	None program ⌄

- **PARAMETERS**

Status	Data	Params	Notifications

Parameter	Current	Requested
timeSanitOn	5	5 ⌄
timeOn	0.25	0.25 ⌄
intervalSanitOn	0	0 ⌄
timeImmediateSanitOn	5	5 ⌄
sensitivity	20	20 ⌄
sensorOn	true	TRUE ⌄
sanitOn		FALSE ⌄

- **PRODUCT LOCATION**

Status	Data	Params	Notifications

Name:	B3-Muži-Šatna
Location:	SanelaLab
GPS:	49.1647619; 16.7624103
lPath:	Sanela/Sanela/SanelaLab/sanelaWashBasin-13
fPath:	Sanela/Sanela/GW2/sanelaWashBasin-13

Edit

SUPPLEMENTARY INFORMATION:

Switch in days

Number of switches

- 3-10 sec
- 10-30 sec
- 30-900 sec
- Others

• **NUMBER OF SWITCHES**

33
Switched
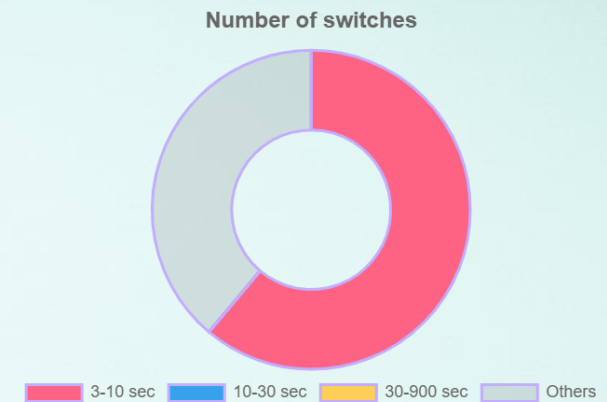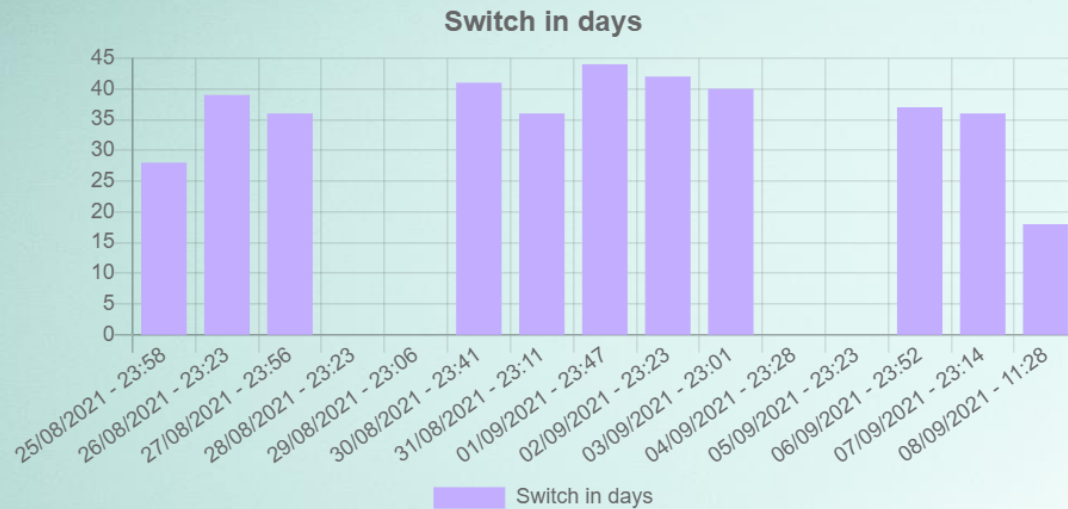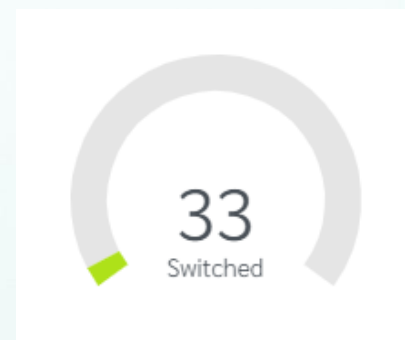
SW and FW programmer

Job Description:

- Programming of Microchip PIC microcontrollers.
- Close cooperation with HW developers.
- Creating of testing and tuning programs for PC.

Required:

- Knowledge of programming language C (C++).
- Electrical engineering or IT background.
- Responsibility, independence and ability to work in a team.
- Knowledge and experience of programming PC applications in a higher programming language is an advantage.
- Willingness to extend knowledge of programming ARM microcontrollers and other SOCs.
- Knowledge of English

We offer:

- Interesting remuneration.
- Job on HPP in a stable and expanding Czech company with tradition.
- Interesting and diverse job content
- Company benefits system (meal allowance, monthly benefit program, bonuses).
- Flexible working hours.