



PIXLA

Outline

- ✦ *IoT application with IQRF*
- ✦ *Problems in operation*
- ✦ *Where PIXLA helps*
- ✦ *PIXLA architecture*
- ✦ *PIXLA functions*
- ✦ *PIXLA live demo*
- ✦ *PIXLA planned features*

IoT application with IQRF



**IQRF mesh network
(different sensors)**

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**IQRF IoT gateway
(device for connection
IQRF to Internet, e.g.
cloud)**

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**Cloud
infrastructure
(data storage,
analysis,
visualization,
etc.)**

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**Cloud
infrastructure
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Basic questions

 *How do you monitor and get to know about your IoT gateway status or its issues?*

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- ❖ *How do you repair and/or update your IoT gateway software at the operation?*

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- ❖ *How do you monitor and get to know about your IoT gateway status or its issues?*
- ❖ *How do you repair and/or update your IoT gateway software at the operation?*
- ❖ *And how do you maintain tens or even hundreds of such IoT gateways?*

Answer is PIXLA

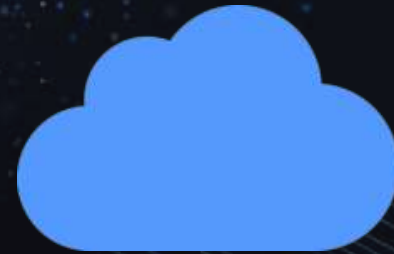
PIXLA is remote management system for all Linux-based devices



PIXLA architecture



**IoT gateway
(any Linux device)**



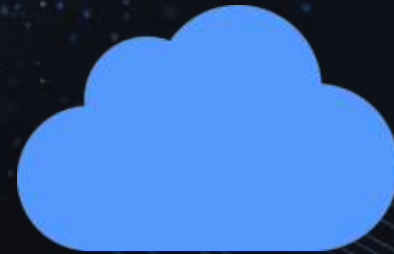
**Cloud infrastructure
(backend, data
storage, visualization)**

PIXLA architecture

**PIXLA client
service**



**IoT gateway
(any Linux device)**



**Cloud infrastructure
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**IoT gateway
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**PIXLA cloud
services**



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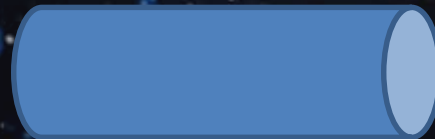
**IoT gateway
(any Linux device)**

**PIXLA cloud
services**



**Cloud infrastructure
(backend, data
storage, visualization)**

**secure tunnel
connection**



PIXLA functions overview



Remote control

Control, maintain and manage all your devices in different localities simply from one place.

PIXLA functions overview



Monitoring

Observe your devices one by one or in a group. Use notifications to watch any property.

PIXLA functions overview



Organize

Simply categorize your devices using named and colored tags. Choose different text for whatever you want.

PIXLA functions overview



Share devices

Share access to your devices with your teammates. Set separate permissions for group of individuals or one by one.

PIXLA functions overview



Security audit

Simply discover potential security issues of
your device

PIXLA functions overview



IoT support

Is your device working as an IoT gateway?
We have full support for IQRF wireless
network.

Company behind



Live demo

www.pixla.online



Planned features

- ✦ *Automatic detection of several cyber attacks (Q2/2019)*
- ✦ *IQRF group actions (move sensor from one network to another, etc) (Q3/2019)*
- ✦ *Runtime behavior profiling for anomaly detection (Q4/2019)*

**Thank you for
your attention!**



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