

Reatha

[*gaelic*: current, up-to date]

Idea,
Features,
Use-Cases,
Specification Draft,

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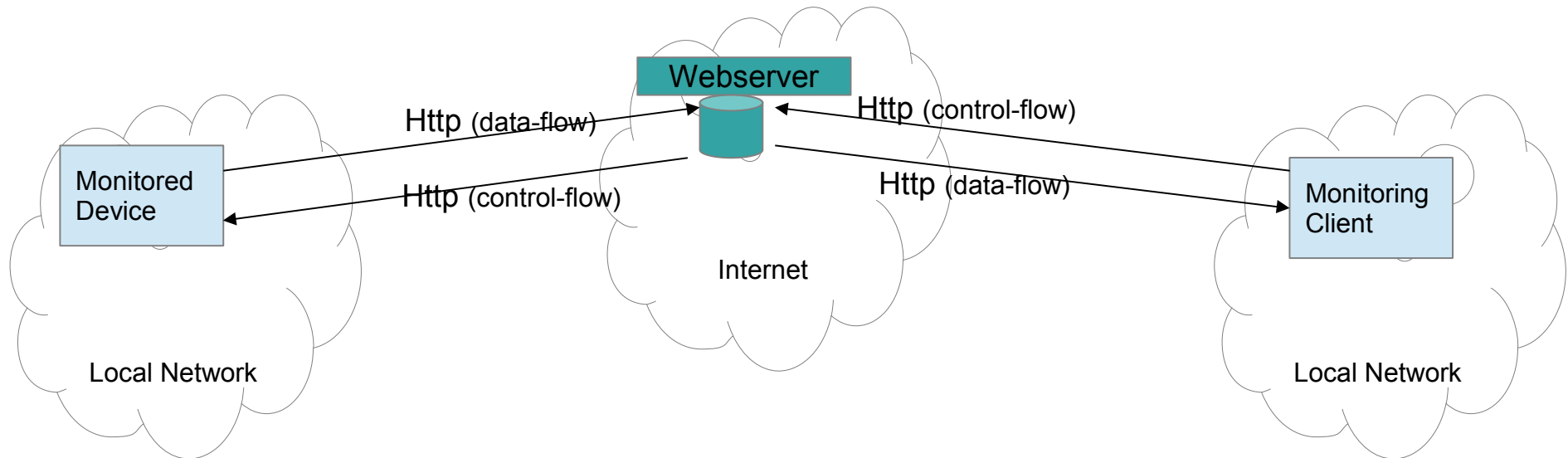
Contact: <http://heinitz-it.de>

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Idea

Basic idea: Remote monitoring of any device, e.g. refrigerators, production lines, alarm systems, home automation systems, labor equipment, servers, etc.

Webserver is used as a proxy between the monitored device and monitoring client.



Architecture

Basic abstractions:

Domain – Similar to subdomain of a website. Logical separation of one company/project/device having it's own users, devices, look&feel

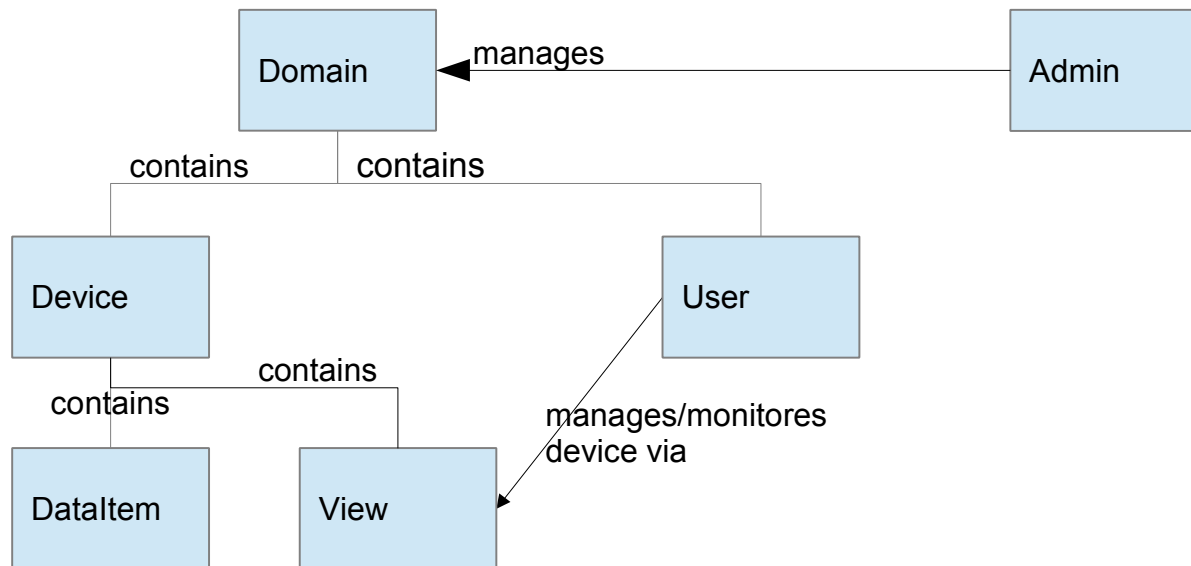
Admin – user with privileges for managing domains,

User – User able monitor devices, configure notifications, etc. within one domain

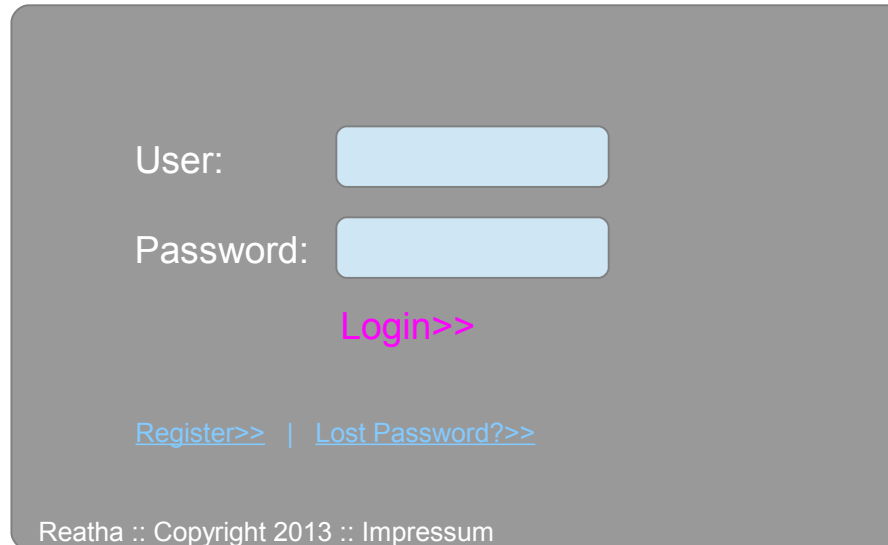
Device – Logical configuration- and data area for one real device located anywhere in the world.

Dataltem – Data structure for one process-variable (Current value, Timestamp, Min/Max, etc.)

View – UI for monitoring/managing Device by user



Login

A login form mockup on a dark gray background. It features two light blue input fields for 'User:' and 'Password:'. Below the password field is a magenta 'Login>>' button. At the bottom of the form are two blue links: 'Register>>' and 'Lost Password?>>'. The footer text 'Reatha :: Copyright 2013 :: Impressum' is located at the very bottom of the gray area.

User:

Password:

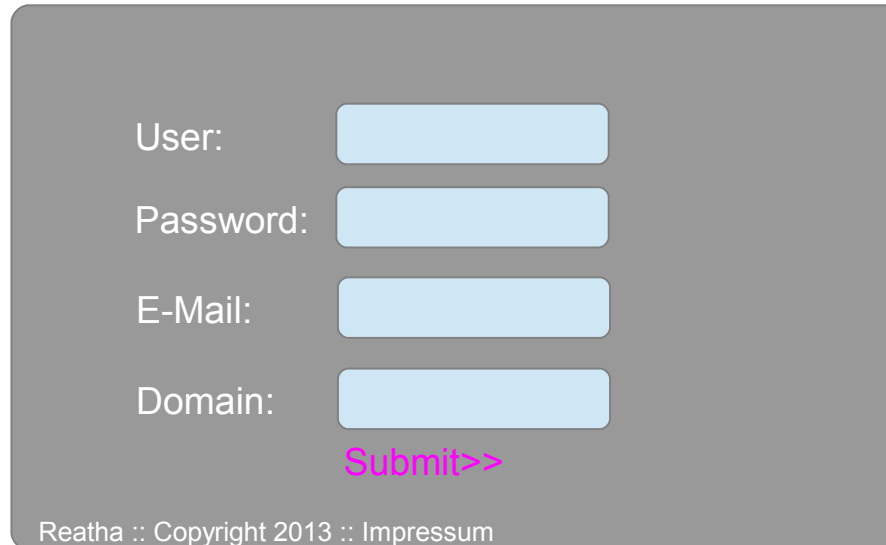
Login>>

[Register>>](#) | [Lost Password?>>](#)

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Login UI is the same for all domains. After logging in, the user should see only domain-views for which she has privileges.

Registering



User:

Password:

E-Mail:

Domain:

Submit>>

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Users applying for registration should know the domain, they are assigned to and provide it to the registration form.

Admin Login

Domains | <MenuItem> | <MenuItem>

☐ Domain1
Project/customer description

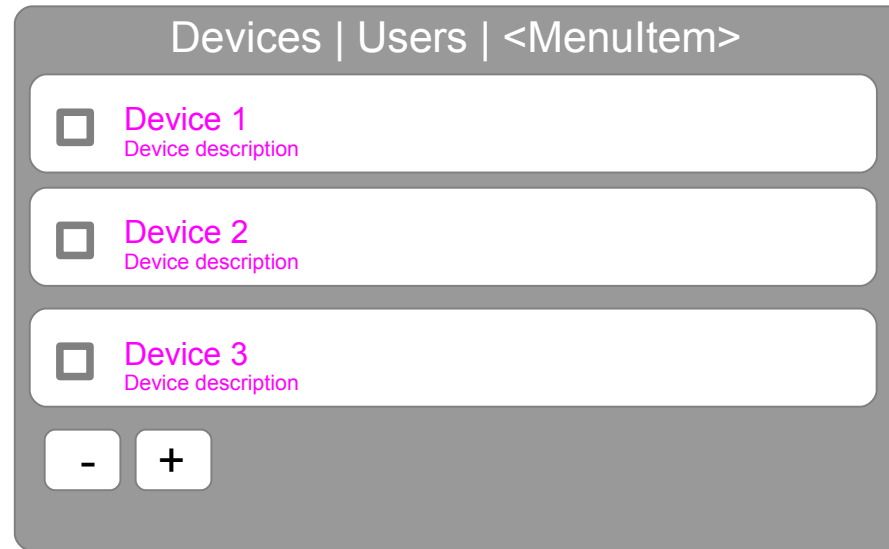
☐ Domain2
Project/customer description

☐ Domain3
Project/customer description

Admin manages domains and domain-admins. Admin has no privileges for managing devices or domain-users

Domain-Admin Login

Device list



Domain-Admin manages devices and assigns users to devices

Domain-Admin Login

Device Configuration

Devices | Users | <MenuItem>

Device 1:

Description:

Location:

Users:

Domain-Admin manages devices and assigns users to devices