

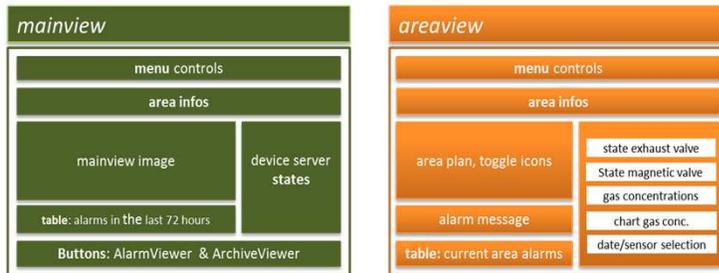
# Redesign of alarm monitoring system application `BeamlineAlarminfoClient`.

Aytac, Sakire (DESY, Hamburg, Germany)



## INTRODUCTION

### GUI functionality of BeamlineAlarminfoClient



- additional diagnostic for the technical-service personnel at DESY
- visualization of emergency alarms in different areas
- Currently 17 areas are monitored
- the near future will give us ~30 areas to be monitored

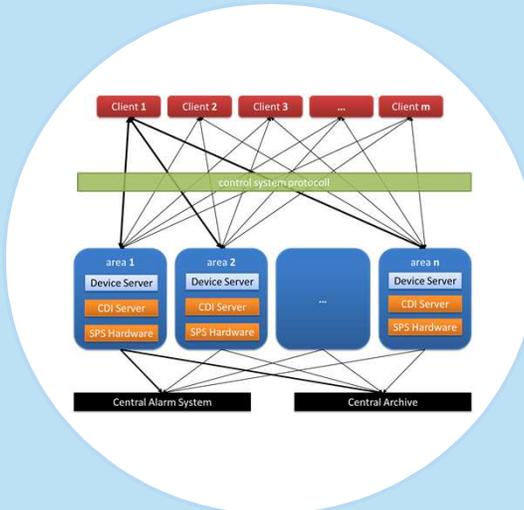
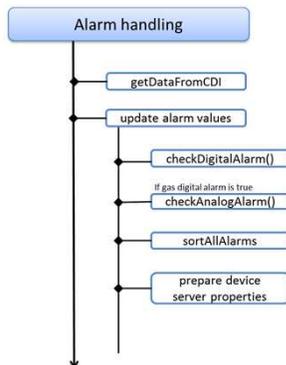
### redesign of the project to reduce

- changes to a min. of entries resulting from a new area
- the communication links between server and client

## SYSTEM ARCHITECTURE

### Server

- has priority because without data the client has nothing to display
- basic source code is generated with the device wizard server
- main programming part is alarm handling
- alarms are divided into alarm sensor states (digital alarm) and values of gas concentration (analog alarm).

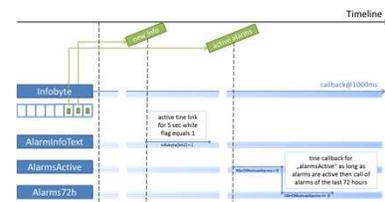


### Client

- one controller controls all views and models
- for every area an instance of a model and view is created
- an array list of area server is used in the controller class to initialize area views and models

### Communication

- only one call back data link is defined to receive a property labelled *infobyte*
- property contains information about; CDI server state, existing active alarms and a new area alarm info text
- only when a flag is set, the corresponding property is called from the server



## PROJECT STATUS

- At the end of this year the goal is to start with the alpha test of this project
- First tests with some parts of server and client, primarily the correct extraction and representing of the alarm states, have already passed successful
- As long as no new application functionalities are demanded on customer side the project maintenance has been dramatically simplified