

## Control System Interface

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DESY

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- Requirements
- Development of the Architecture
- ToDo

# Requirements

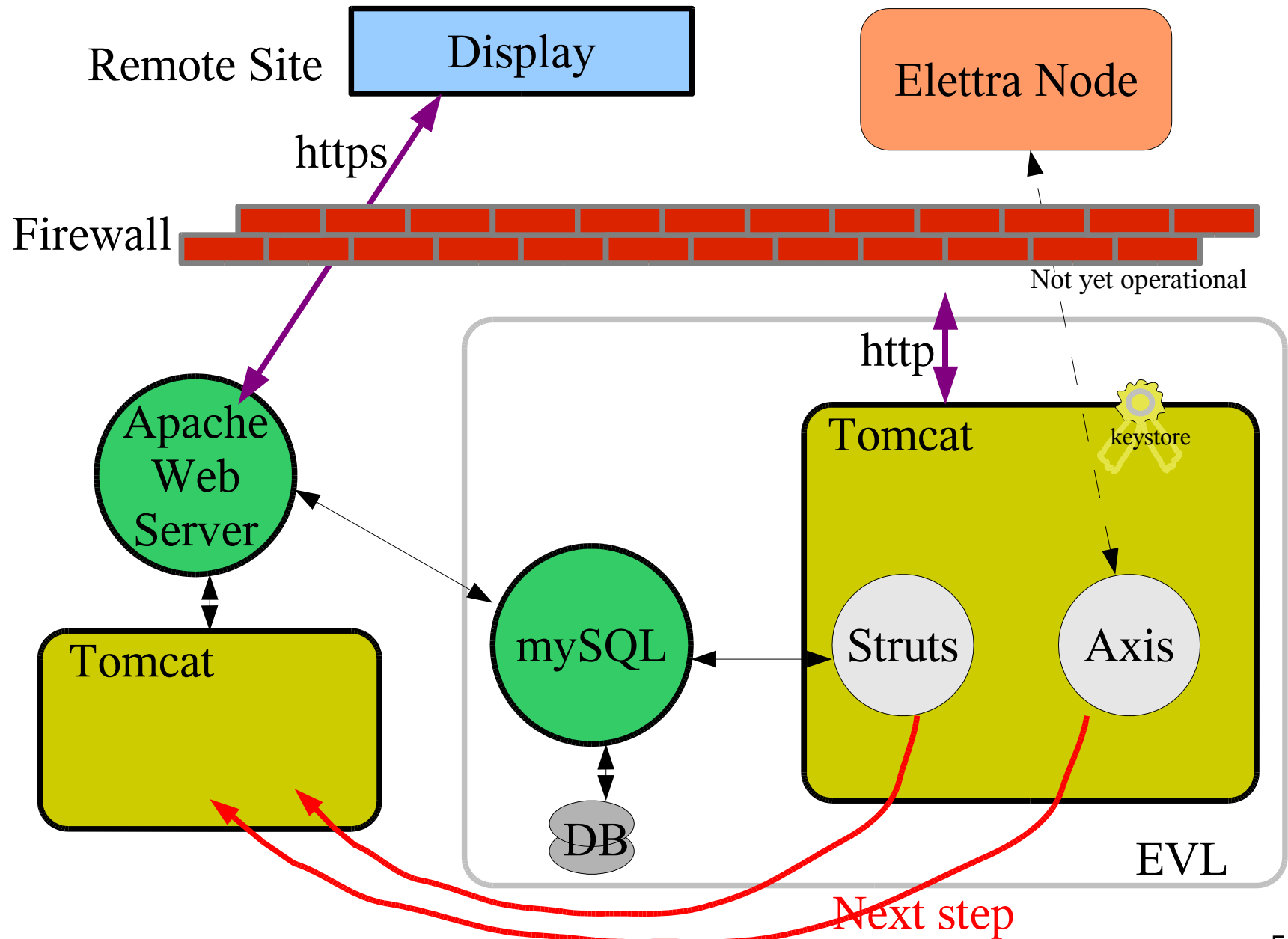
- Has to be integrated with other GANMVL parts
  - video/audio system
  - virtual instruments
- Access to all parameters of the control system (r/w)
- Has to use existing control system applications
- Access control for different users
  - Remote maintenance
  - Remote operation
  - Remote observation
  - Local users
- 'Some' independence of the underlying control system

# Requirements (2)

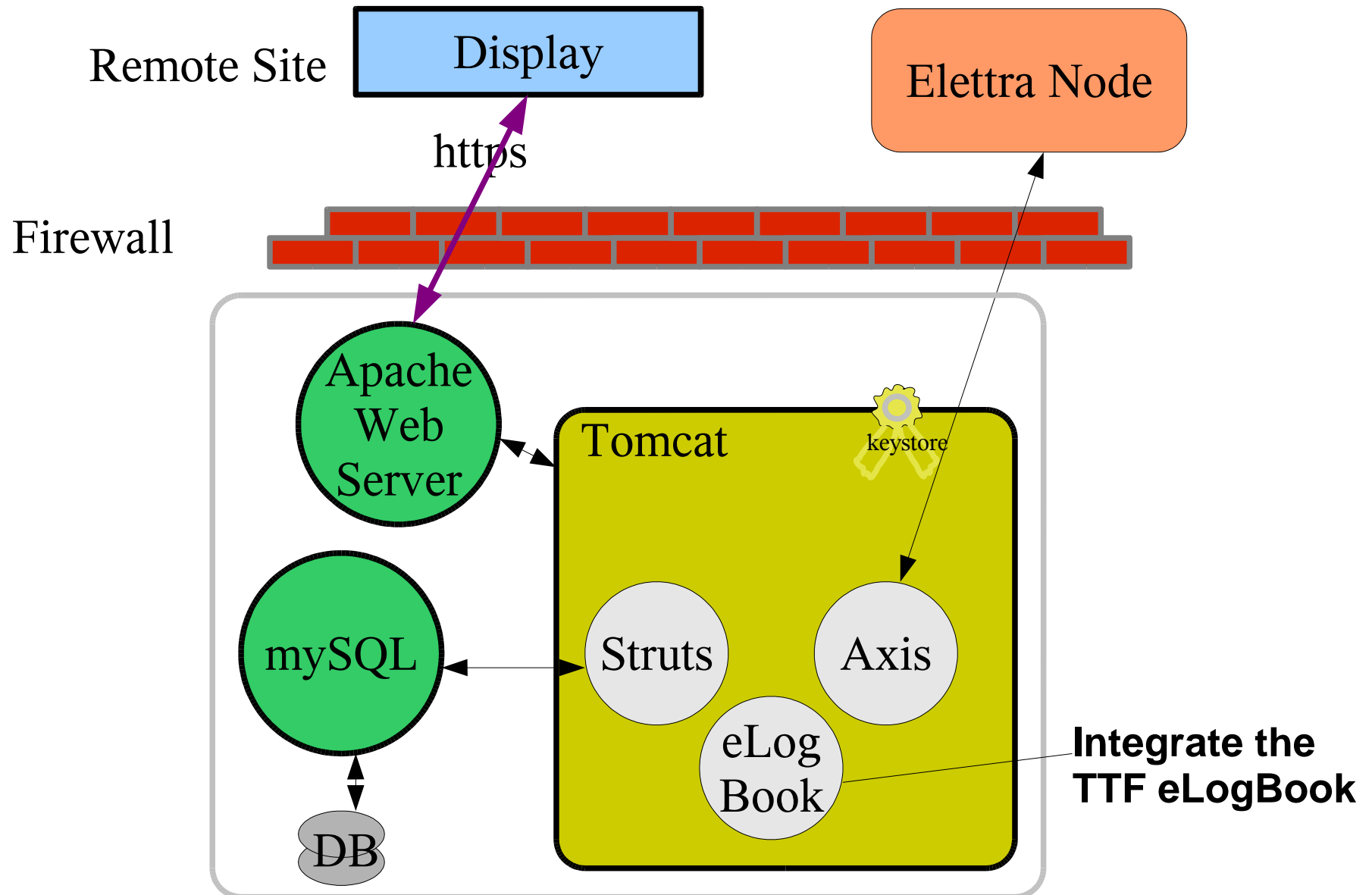
- Should be designed within a Web frame work
  - Access to all services from a Web page
  - User needs a Web browser only
  - Integrated help
  - Integrated 'trouble shooting'
- Goal: Single Sign-On
- Awareness of 'who operates the accelerator'

- Installation of a EVL prototype node at TTF:
  - Package installation by colleagues from Elettra
  - Goal is to copy modules of this installation to a Apache and Tomcat version with SSL
- Integrate the TTF eLogBook as a next step

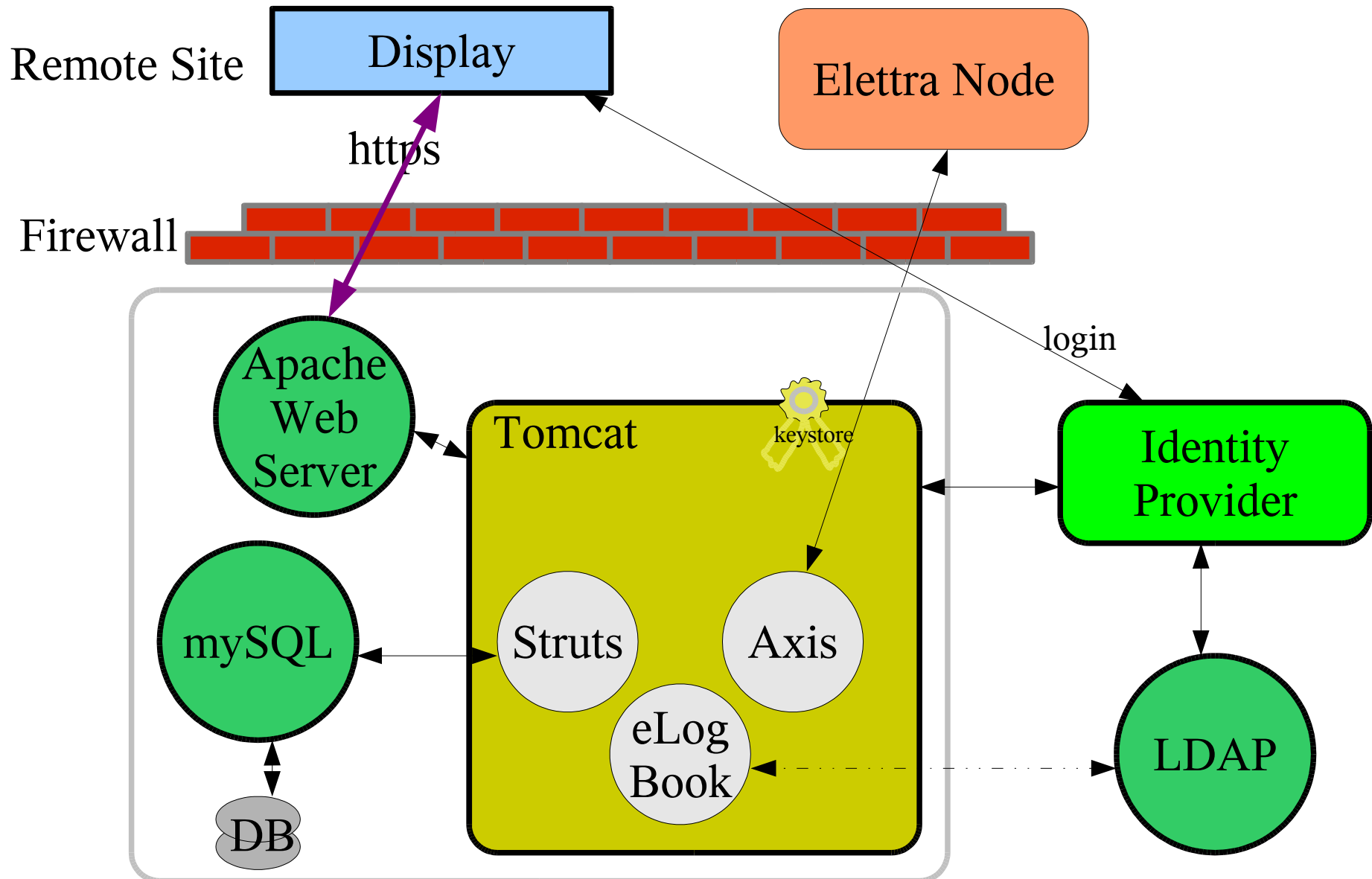
# Status of the EVL Prototype at DESY



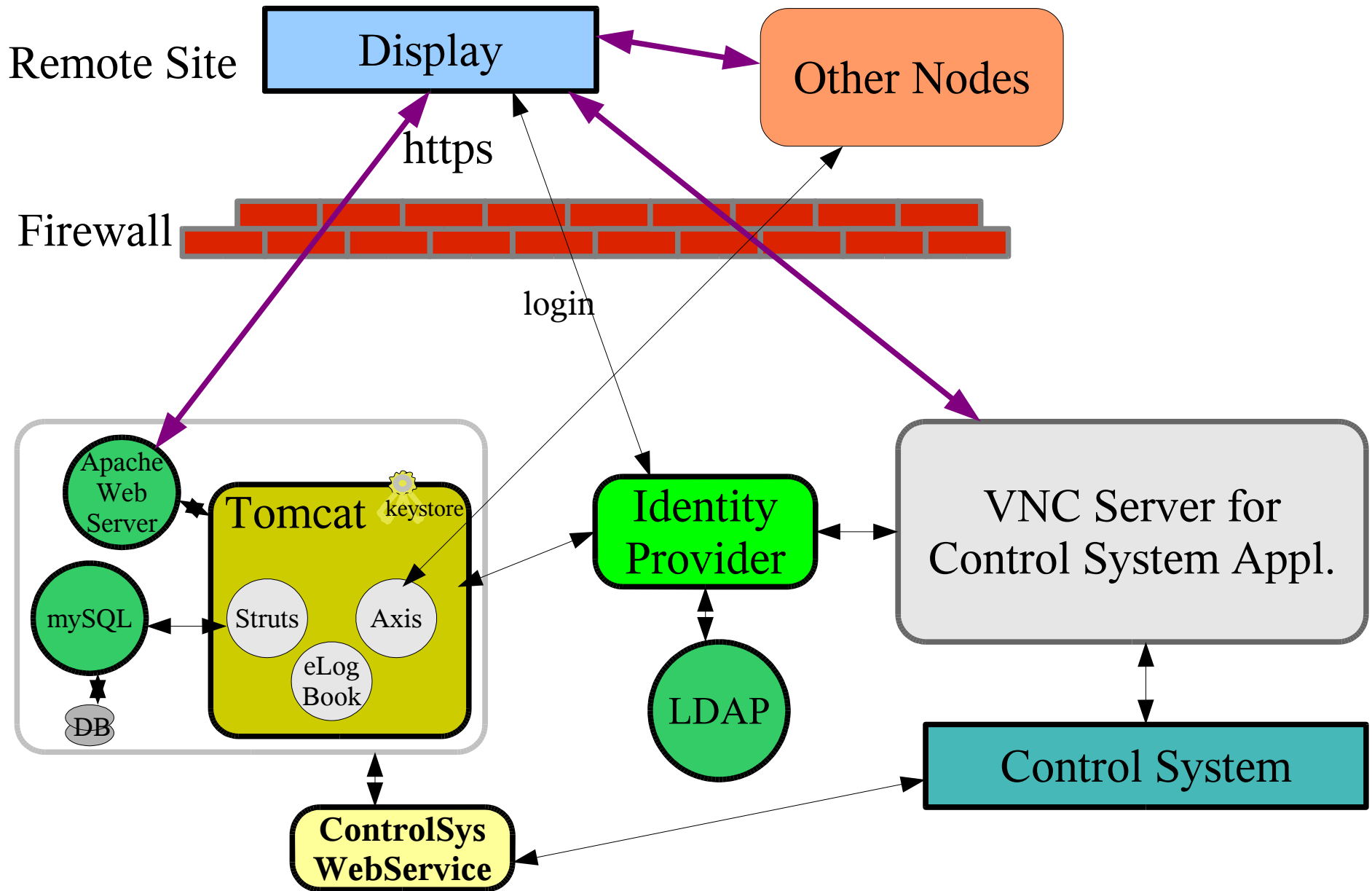
# Step 2 of the Prototype at DESY



# Step 3 with Single Sign-On

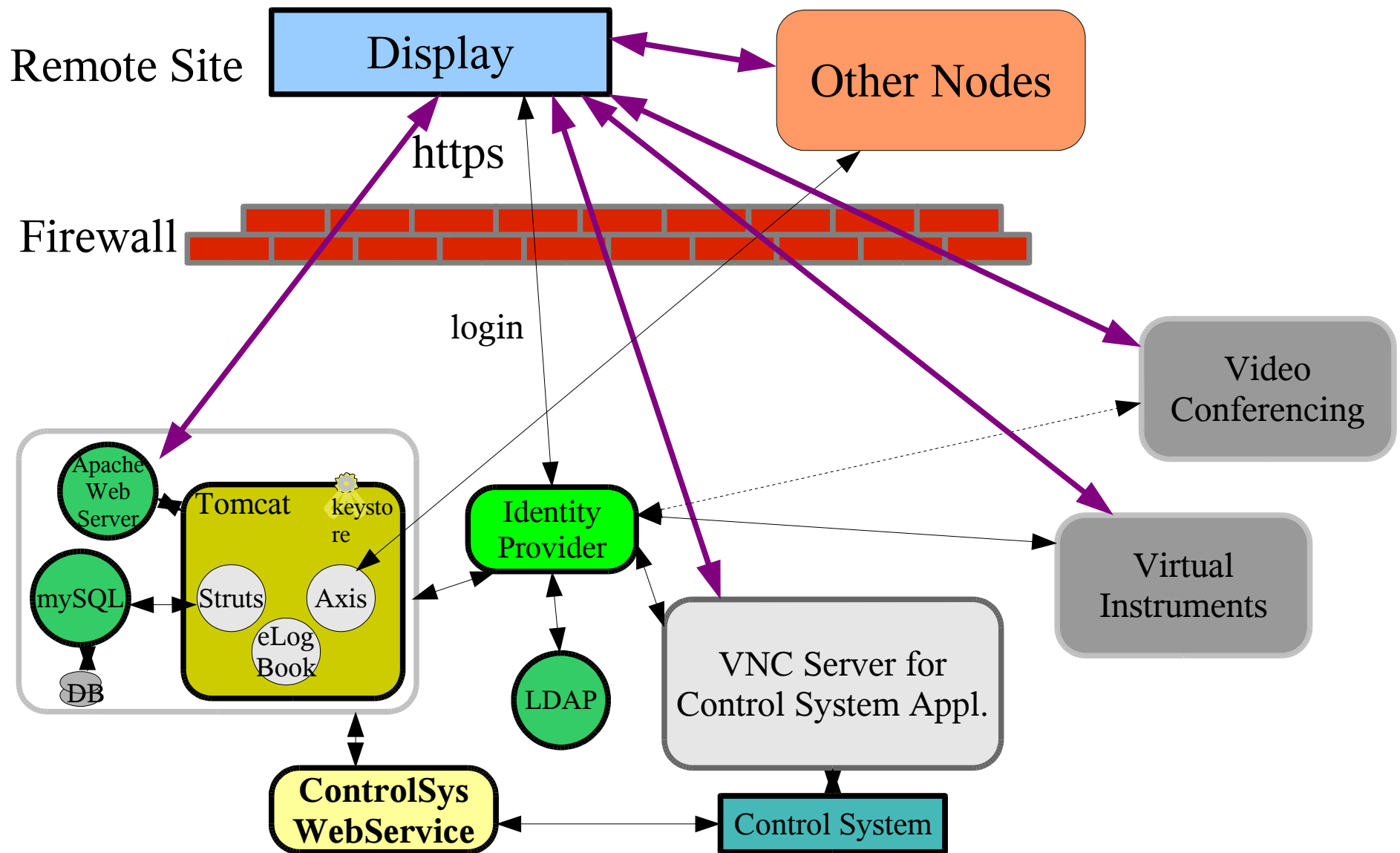


# Architecture with Control System





# Architecture



- Find the best way to integrate a control system
  - Which VNC version, parameters, ...
  - Create a Web-Service for the TTF control system
- eLogBook
  - Provide a simple installation
  - Provide it as a Web Service
- Set-up an Identity Provider
  - Understand the single sign-on
- Develop an awareness tool for the acc operator
- Create help and troubleshooting info
- Find the best way of a simple to install/configure tool-set

- We should all use the prototype
  - For the communication within the collaboration
  - Test the integration of the GANMVL services
    - ▶ Control system
    - ▶ Virtual instruments
    - ▶ Video conference
  - To find bugs
  - To simplify the user interface
  - To get more ideas
  - To improve the error handling
  - ....