

# GERDA Network Infrastructure and Slow Control Computing

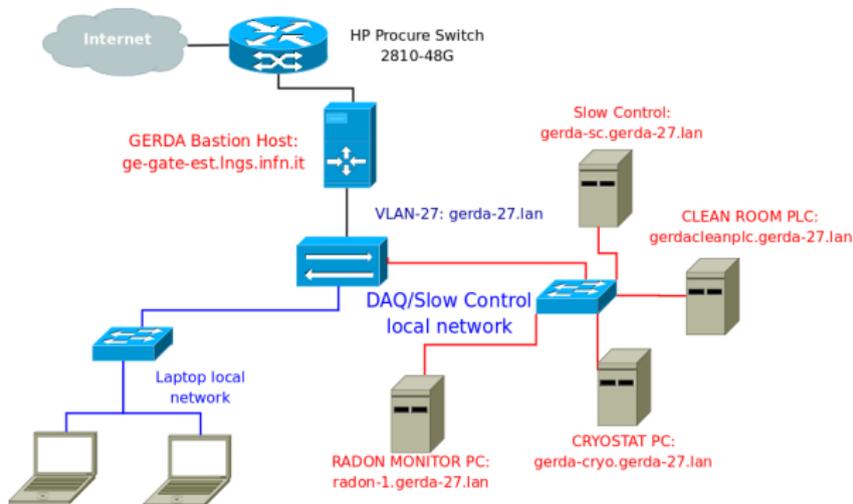
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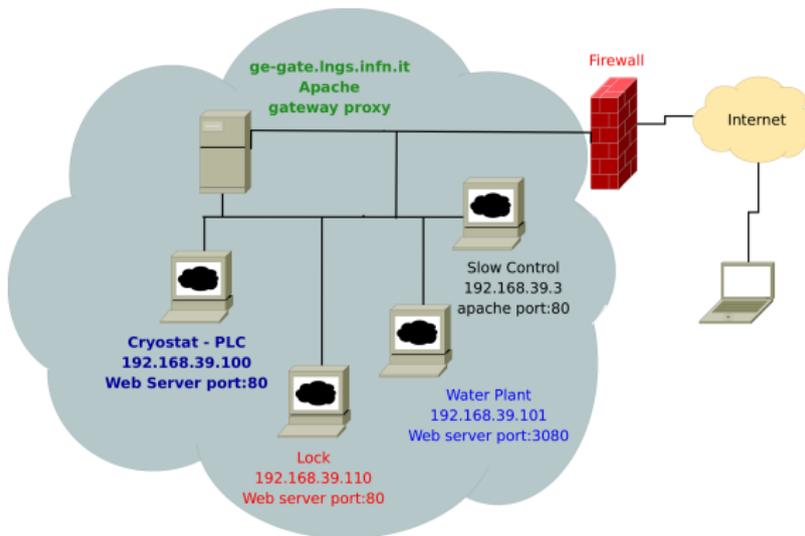
# GERDA Network Structure



- **GERDA Internal network is fully operational :**
  1. 11 GERDA users have been requested for an account;
  2. 4 computers/PLC connected to the network;
- The GERDA Bastion Host: `ge-gate-est.lngs.infn.it` is the **only way** to get a direct access to the resources on the internal LAN `gerda-27.lan`;

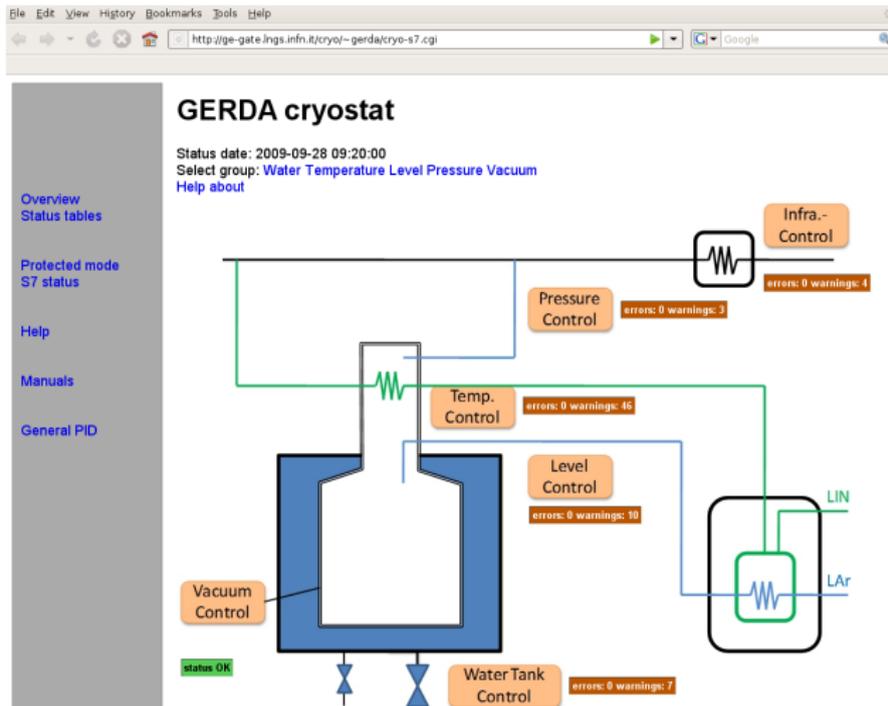
## Access to Internal Web Resources

- Direct access to GERDA Web servers located on the internal LAN is provided through the **Apache gateway proxy** running on our **ge-gate** host.



- At the moment the Web proxy has been **configured** and is being **tested** for the **cryostat**.
- The same procedure will be used for the GERDA general slow control Web server.

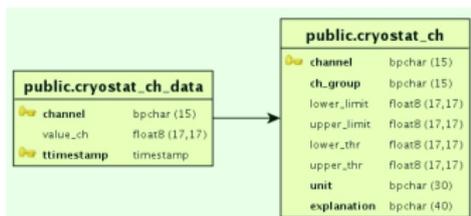
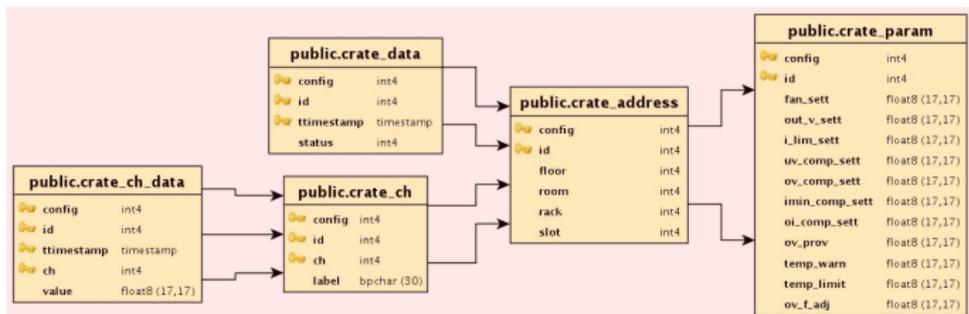
# Access to the Cryostat Web Server



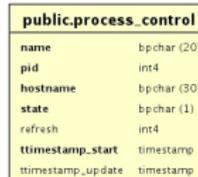
- <http://ge-gate-est.lngs.infn.it/cryo/%7Egerda/cryo-s7.cgi>

# Slow Control Data Base

- The **global structure** of the Data Base has been **designed**;
- detector **subcomponents** are being integrated once available (shortly after their installation)



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# Slow Control clients

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## Cryostat

- It's the current item under development;
- The cryostat data will be periodically read (every 3 s) by the cryo-client and all variations will be stored in the Data Base;
- Historical plots will be available on the slow control pages;
- The cryostat Web server provides also:
  - lower and upper limit for allowed values;
  - lower and upper thresholds for alarm generation.
- A note will be soon prepared on HOWTO retrieve data from the Data Base for offline analysis.

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## Rn monitor

- it's the next item on the list and development will start soon.

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- A mechanism to access internal Web pages has been setup and will be used for all subcomponents willing to use it.
- The **client** design is proceeding and **new components** are being **integrated into the system**:
  - data read by dedicated clients and stored in the Data Base
  - data will be accessible from the Web server or directly from the Data Base for offline analysis.
- We are **currently working** on the **Cryostat**, but the integration of the **Radon monitor will follow soon**.