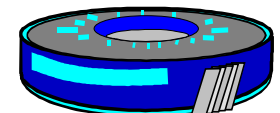
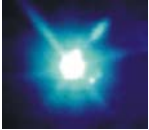


# CA Proxy Gateway Status and Plans

*Ralph Lange, BESSY*

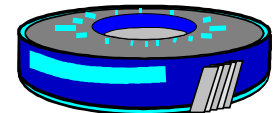
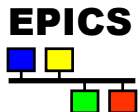


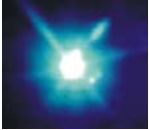


# Outline



- Overview
- Caveats
- Status
- Possible Improvements
- Roadmap

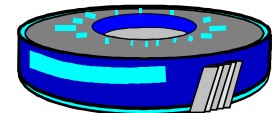


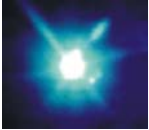


# Overview



- As well CA server (CAS based) as CA client
- Usually runs on workstation with multiple network interfaces
- Connects and separates networks in terms of CA connections
- May use channel aliases (e.g. prefixes)
- Caches data
- Keeps connections alive
- Watchdog mode restarts on crash

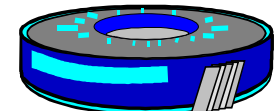
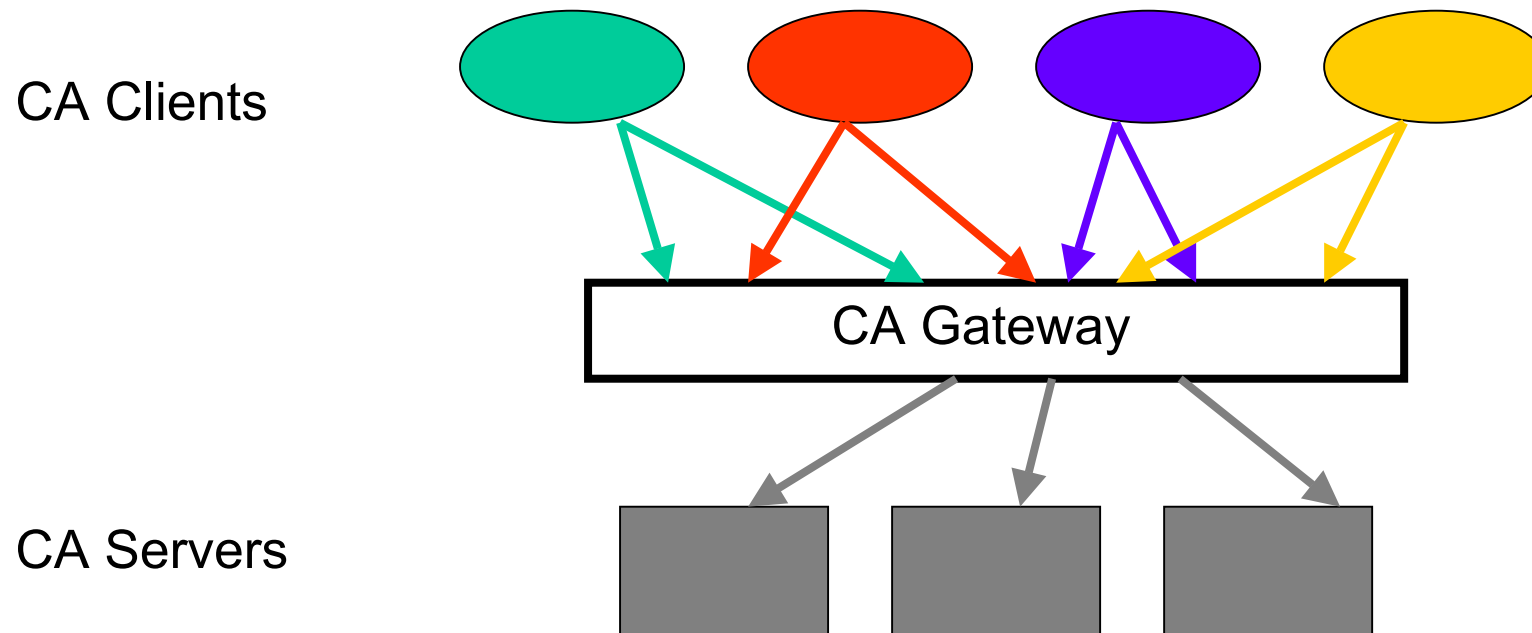


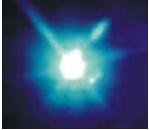


# CA Proxy Gateway



Allows CA between separated networks – configurable through regular expression filters and CA access security.

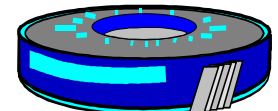
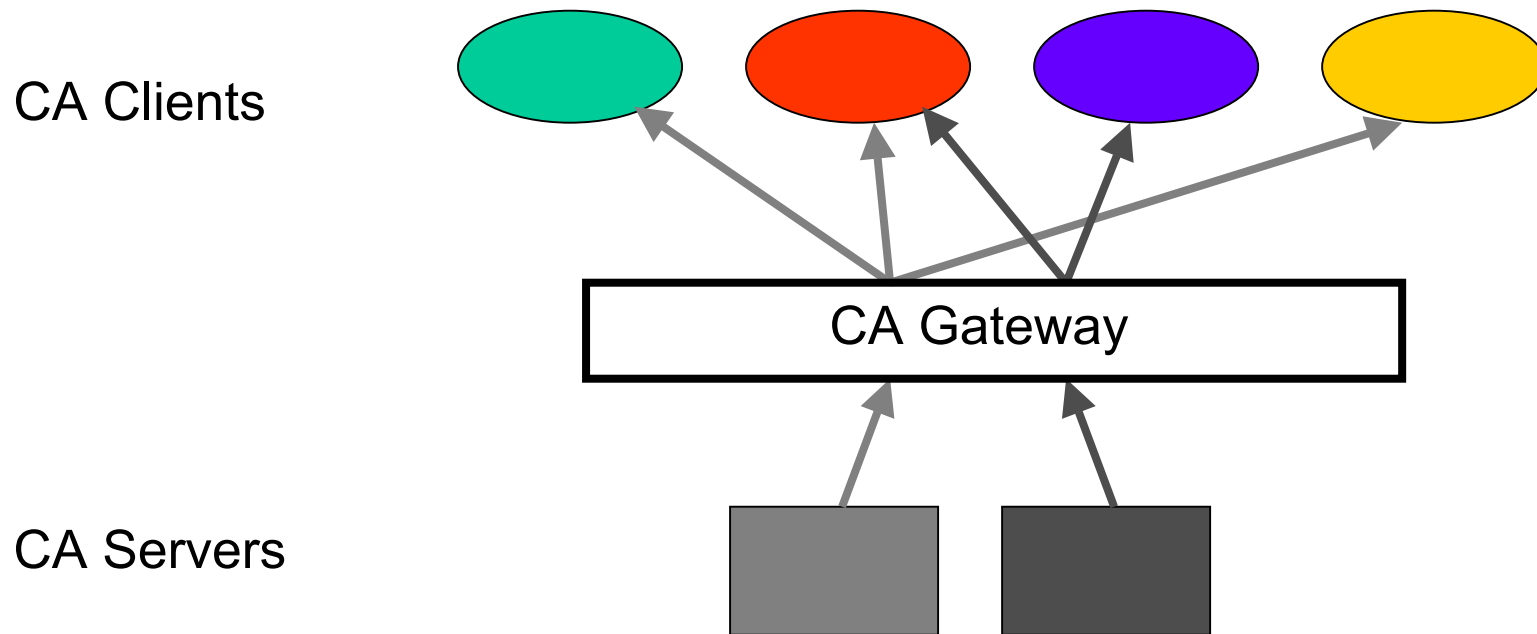


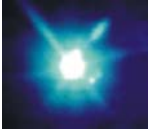


# CA Proxy Gateway



Clients point to one proxy that distributes the data with minimal impact on the private parts.

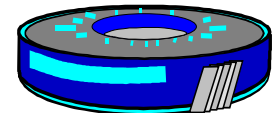


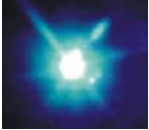


# Caveats



- The CA Gateway always introduces a single-point bottleneck in a scalable distributed system.
- A heavily loaded Gateway is a CPU and memory consuming application that usually will add overhead to the system: Expect some increase in latency and connect time.
- In some cases too loose configuration may put even more load on the precious side instead of protecting the IOCs.



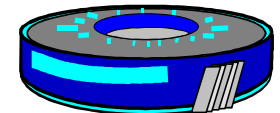


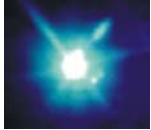
# Status



Stable (i.e. basically unchanged for two years):

- Compiles against R 3.13.2 with patches (CAS statistics)
- Runs on Solaris, HP-UX, Linux, VMS
- Integral part of production system at a growing number of laboratories (APS, SLAC, JLab, BESSY)
- Seems to run stable for read access
- Occasional crashes seen with write access callbacks - investigation continues...
- Documentation is still nonexistent

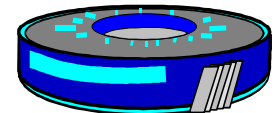




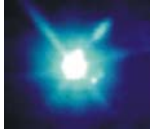
# Possible Improvements



- New configuration file format (hierarchical regexp patterns)
- New configurable watchdog to introduce GUI at process level (borrow archive manager code)
- Some additional statistics
- Code documentation (Doxygen?)
- User manual
- CMLOG interface







# Roadmap (workshop result)



## *High priority*

- Get 3.14 running on HP-UX 11
- Add server statistics to CAS and have Jeff approve
- Get existing code running with 3.14

## *Later on*

- Fix remaining bugs
- Add new features

