Channel Access Gateway

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Jan. 2019
Certain miracles are possible right there…

Principle

CSS, caget, …

CA Client

CA Gateway

CA Server

CA Client

IOC

CA Server
Why? Bridge Networks!

Gateway on computer w/ multiple network connections. Maybe in DMZ.
Why? Access Control!

Gateway often ‘read only’

Big Bad Wild World Network

Control System Network

Inside network, clients have full access
Why? Reduce network load!

Gateway buffers connections and values.

Clients disconnect from GW

→ GW keeps its connection for a little while. Reduced search requests, IOC connects/disconnects
Configuration

- Read from where?
  - Like EPICS_CA_ADDR_LIST

- Serve to whom?
  - Network interfaces on which to run server
  - CA security

- Other
  - Write log?
  - Publish GW status via extra PVs?
  - Transform PV names?
Details

- Everything you ever wanted to know