CSC Shifter Training
EMU Page 1

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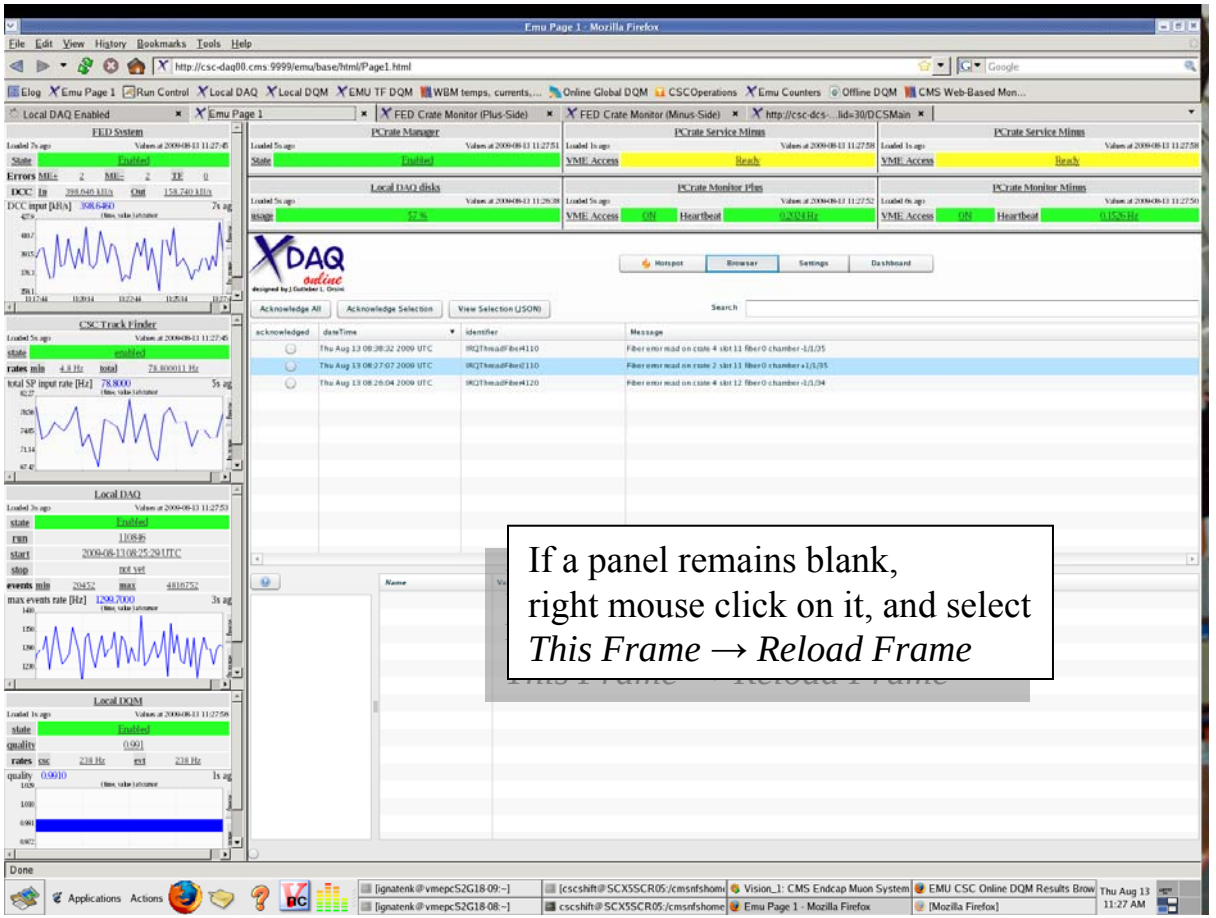
Reach from CSCOperations Twiki page or directly:
https://cms-emu-slicetest.web.cern.ch/cms-emu-slicetest/904/Procedures/ShifterTraining-EmuPage1.pdf

View of the Emu Page 1 Window

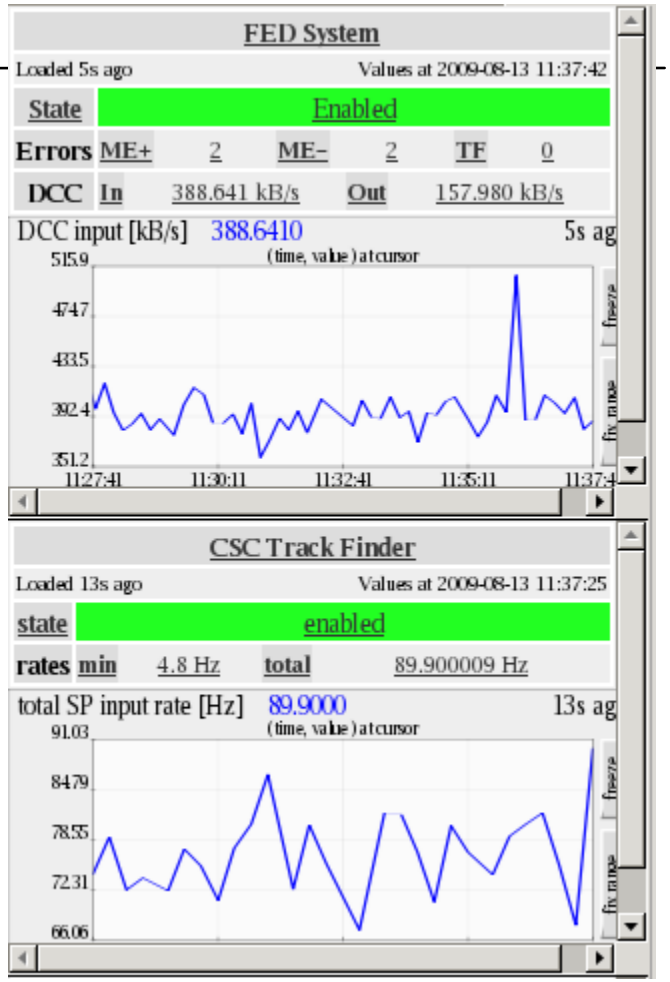
- Emu Page 1 _ is the main monitoring page that helps you keep an eye on the whole system.
- Keep it in clear view all the time.

- There are 3 basic areas
- Left Side
  - FED System Panel
  - Track Finder
  - Local DAQ Panel
  - Local DQM Panel
- Top
  - PCrate Manager
  - Local DAQ Disks
  - PCrate Service (Plus/Minus)
  - PCrate Monitor (Plus/Minus)
- Body
  - Hotspot alarm/error browser



Rate Plots

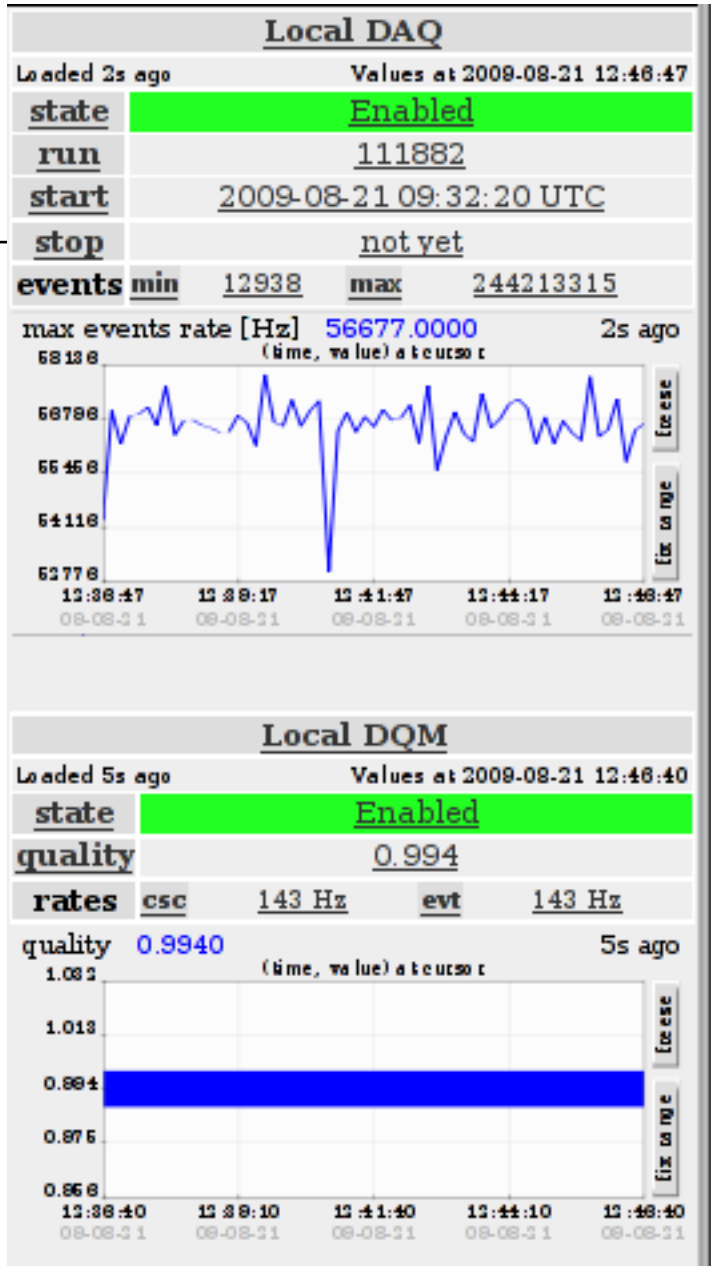
- FED System
  - Plot shows the raw data rate INTO the DCCs
  - Also shown is the data rate OUT OF, and a count of errors since last reset
  - Click on the number of errors to see specific errors in FED Crate Monitors State should be "Enabled" during running
- CSC Track Finder
  - Plot shows the SP input rate in Hz
- v



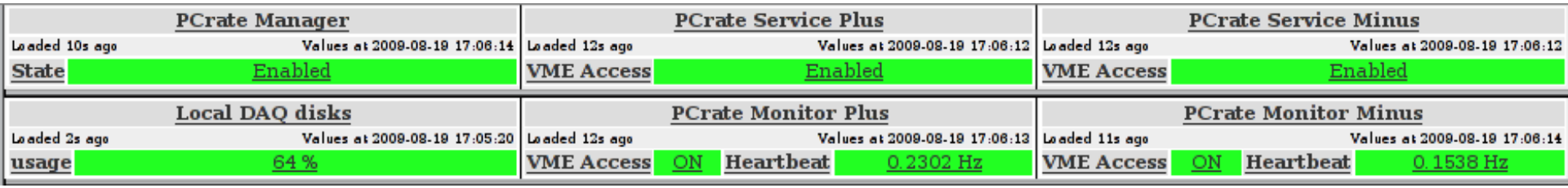
Rate Plots

- Local DAQ
  - State should be "Enabled during running
  - Displays important run information about runs, which should be entered into the ELOG:
    - Run number
    - Run start/stop time
    - Number of events
    - CSC L1A rate (Hz)
- Local DQM
  - State should be "Enabled" if Online DQM has been started
  - Ratio of # reported CSCs to # all CSCs

All plots can be manipulated with the mouse.

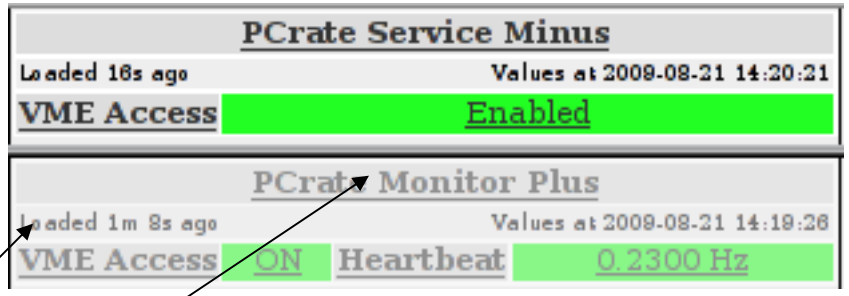


Top Panels



- **PCrate Manager**
  - State should be "Enabled" during running
- **Local DAQ Disks**
  - Shows how much disk space is available in Local DAQ
  - Background should be green.
- **PCrate Service (Plus/Minus)**
  - State should be "Enabled" during running
- **PCrate Monitor (Plus/Minus)**
  - VME Access should be "ON"
  - Heartbeat rate should be nonzero

Troubleshooting

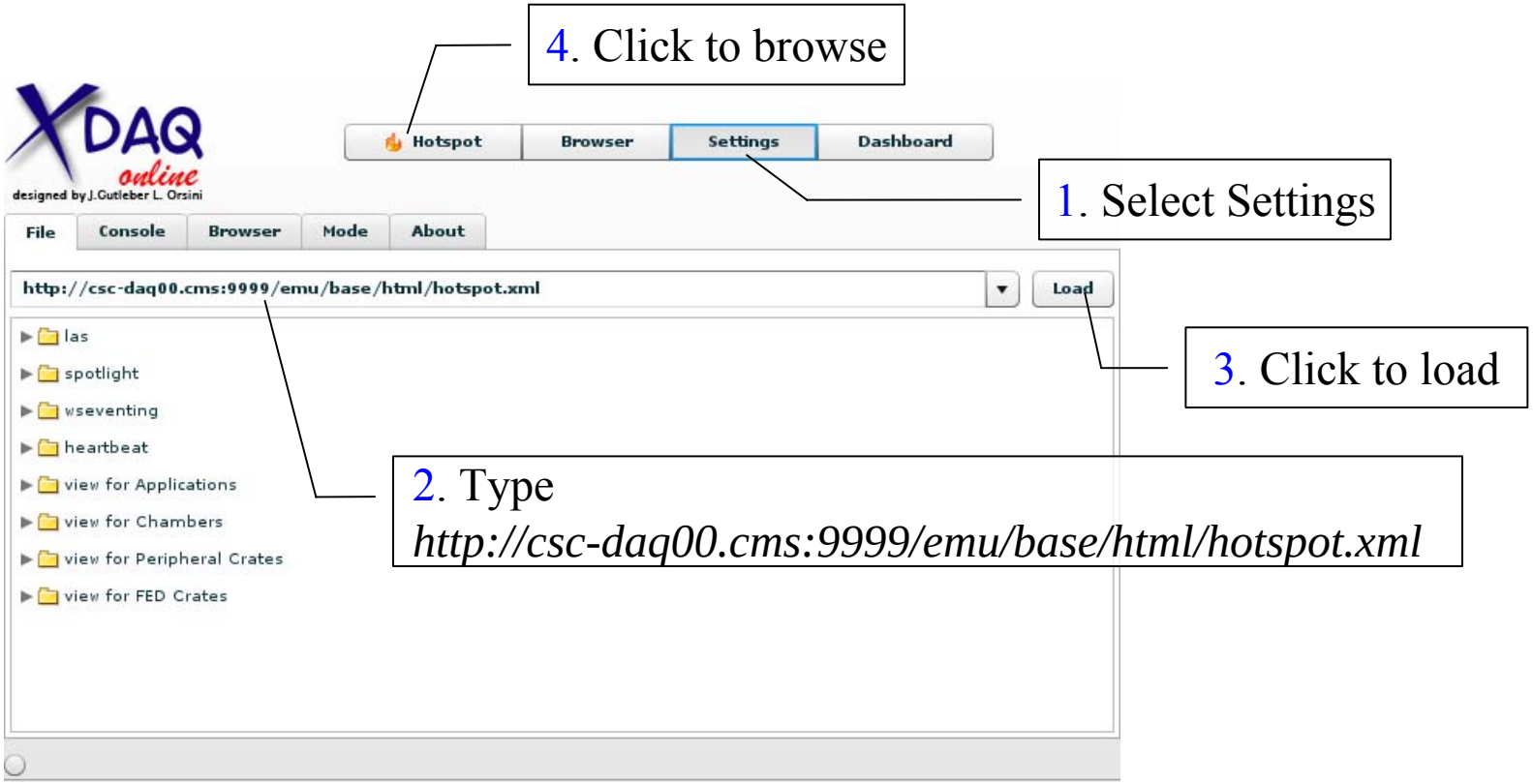


- Panel is grayed out
  - Wait to see if it recovers
- Panel is grayed out and time stamp blinking
  - Click on the panel title to see if that application is up and running
  - If the application is down, see the *CSCOperations* twiki page for the appropriate action to take

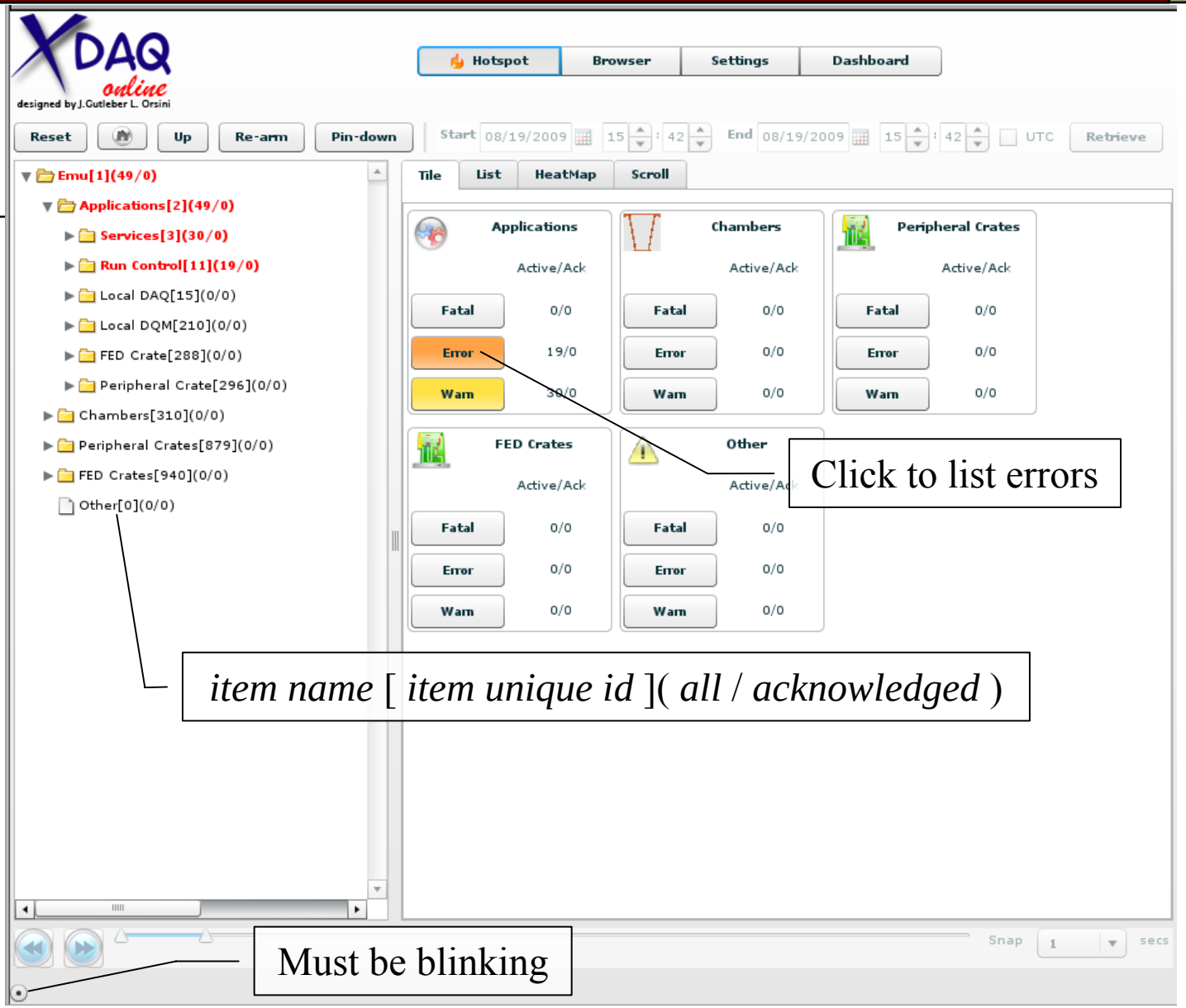
Needed

- Need to add pics of first page on 4 left side and top
- Need to add EMU Counters
- Need to add ‘other’ global type pages

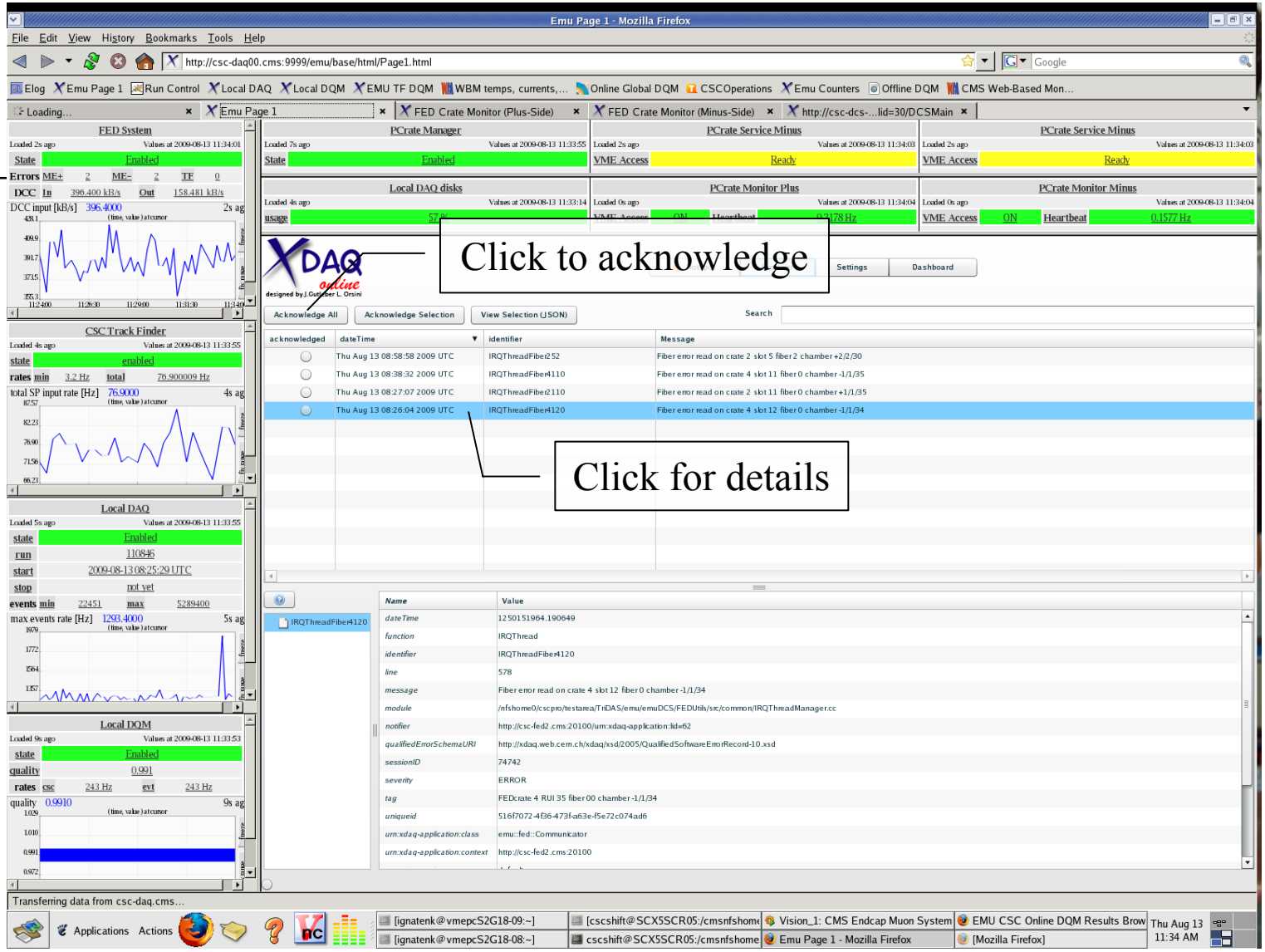
Hotspot setup



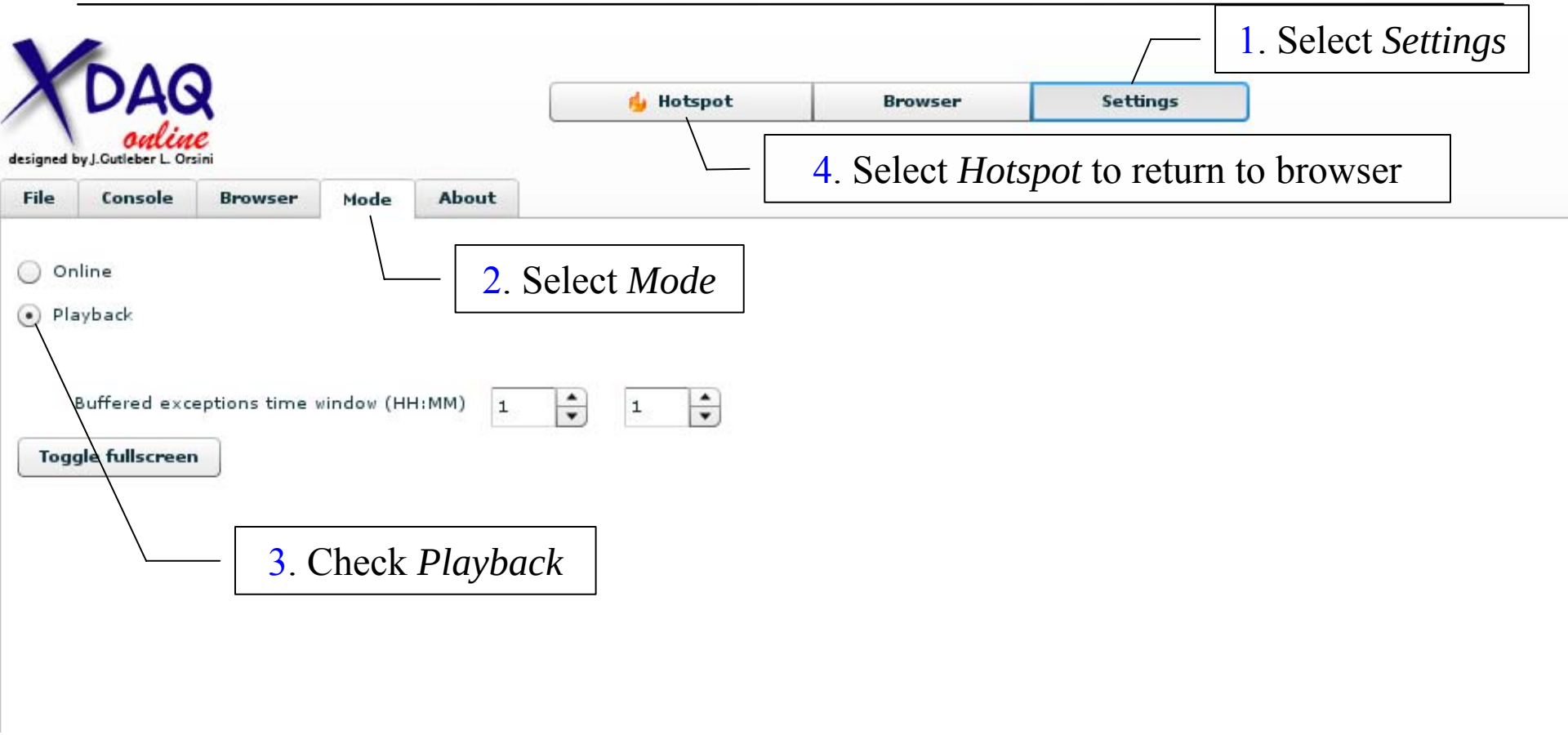
Hotspot


XDAQ online
designed by J.Gutleber L. Orsini
Hotspot
Browser
Settings
Dashboard
Reset
Up
Re-arm
Pin-down
Start 08/19/2009 15 42
End 08/19/2009 15 42
UTC
Retrieve
Emu[1](49/0)
Applications[2](49/0)
Services[3](30/0)
Run Control[11](19/0)
Local DAQ[15](0/0)
Local DQM[210](0/0)
FED Crate[288](0/0)
Peripheral Crate[296](0/0)
Chambers[310](0/0)
Peripheral Crates[879](0/0)
FED Crates[940](0/0)
Other[0](0/0)
Tile
List
HeatMap
Scroll
Applications
Active/Ack
Fatal 0/0
Error 19/0
Warn 30/0
Chambers
Active/Ack
Fatal 0/0
Error 0/0
Warn 0/0
Peripheral Crates
Active/Ack
Fatal 0/0
Error 0/0
Warn 0/0
FED Crates
Active/Ack
Fatal 0/0
Error 0/0
Warn 0/0
Other
Fatal 0/0
Error 0/0
Warn 0/0
Click to list errors
item name [item unique id](all / acknowledged)
Must be blinking
Snap 1 secs

Hotspot error list



Hotspot setup for playback



Hotspot playback