



Issues for Computing/MOG

Henry Nebrensky

Brunel University



Visitor network access...

...is as per the last MICE News.

Guest and Facility-User wireless both in MLCR.

One Facility-User wired socket on each side of MLCR.

Guest and Facility-User wireless both in R76.

One Guest and one Facility-User minihub on each side of R76.

Holders of a federal ID should be able to use PC in corner of R76 - may be similar in MLCR eventually.

Printing: see draft instructions in last MICE News.

Needs testing and feedback regarding Guest network

Neither new nor old print server appears reachable from Facility-User at all \perp

Still, at least Windows 7 appears to have sprouted drivers for the OKI...



New Online KVM system:



The Online PC's are now dual-screen; a KVM system switches both together



New DAQ KVM system:

Two separate workstations for DAQ PCs. Each can access any PC.

Will swap for wide-screen monitors.

NO SPACE FOR WinVis - it will be moved into rack room and accessed via KVM





Issues...

Various DAQ kit has had 415 V put through it
- how to test repairs? Who? When?

The replacement DAQ KVM system is up and running. How many servers need a KVM connection? - filled 15/16 already

Am in the process of organising a 1500 VA UPS to support the network switches.

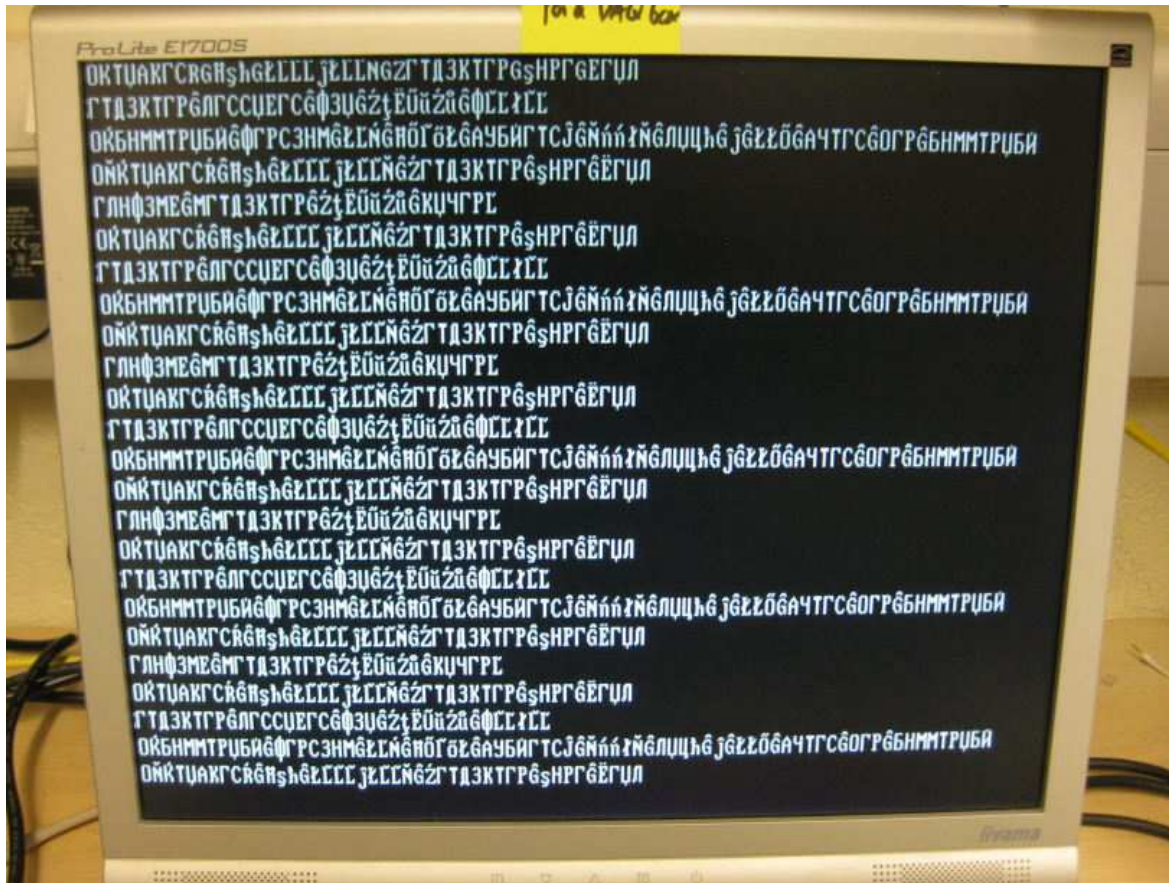


More issues...

Target team didn't know where the software for their IOC lives - were looking for a PC that was scrapped a couple of years ago! Need some sort of dependency diagram to show which machines depend on which others

They also didn't know the root password for their own machine - all **MUST** be on the list in the folder

< - Sometimes life's difficult enough already





Rack room issues...

New ConfigDB server + micestore due in MLCR
means server rack installation (MICO 7th Feb)

- When? Power needs?
- Rack space & servers - see later
- What to do with old rack (put in empty space?)
- Rec rack MCBs
- After Lumi rack, what other horrors lurk?

Will more instrument rack space be needed for other systems? (RF/magnets/LH2 etc.?)

Noise survey not optional! So what do we do if there is a problem?





Rack space...

Very little rack space free and we've not even finished Step 1 - currently nowhere to put an extra crate:





Network Rack

The present “Network Rack” is unsuitable for server computers - it's too small, has poor ventilation and limited power. Also, it “belongs” to RAL Networks rather than MICE.

However it has become home to a number of rack-mount servers, simply because it is the only suitably configured rack available - and more servers are already needed.

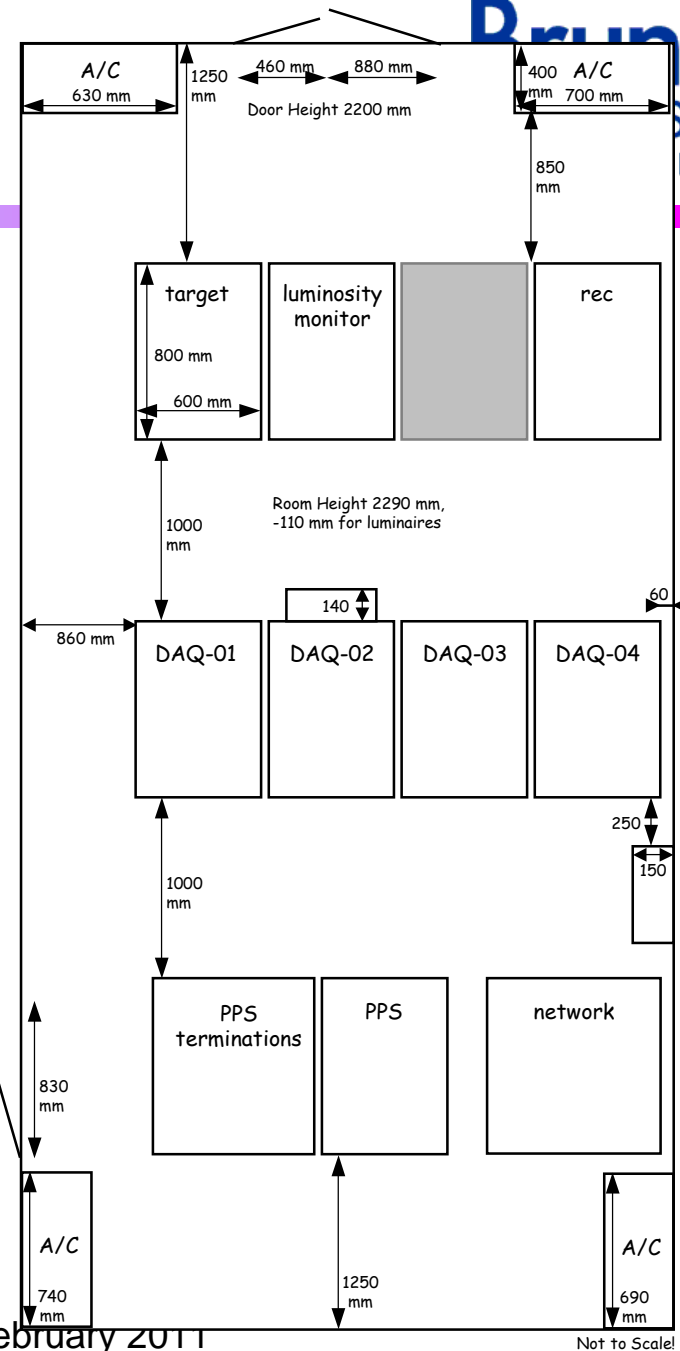
The proposal is to install at least one server-style rack in the empty space; as hardware is replaced computers can then be moved into this to free up further space.



MICE Rack Room

The new servers are nominally 730 mm - which means the whole thing is more than 800 mm deep. L

There is an empty space in the first row, but this corresponds to the main DAQ scope in DAQ-03 before which a lot of people gather. *Can't put anything deeper than 800 mm in there.*



ex-PPD rack

A 900 mm deep 43U server rack is available surplus from PPD.

(950 x 610 x 2170)

Even has pull-out stabilising feet...





Servers and Rack Space (1)

Server rack was looking good - until I discovered that existing DAQ PCs are 4U, not 3 U

New rack has 43U:

3000 VA UPS	3U
KVM+slave	6U
Network patch panel	1U
ConfigDB + micestore	4U
WinVis	3U

Leaves 26U... for miceacq04,5,6,7,8,11,12, power strips, etc.

Timing the rack installation is tricky - possible DAQ system tests following the electrical damage, then tracker cosmics test, and then the substation power outage.



Servers and Rack Space (2)

- Can we swap old 4U boxes for 1U servers? Limited by TIME not money
- How many machines are needed?
- How many need PCI interface cards?
- Do we have a plan in case one of the 4U boxes fails? Can we even buy rackmount servers with PCI slots? Will existing cards work in PCI-X slots? Can we replace them with PCI-express?
- 32-bit CentOS 5 as the platform - how long will this be supported for? Will other 32-bit Linuces be around until 2018?



Conclusions

(This space unintentionally left blank)