

Minos Control Room Quick Start Guide

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This Quick Start Guide tells how to get the computers and displays in the Control Room started after a power-off. This guide should be printed out and placed in the back of the Control Room manual.

There are six computers in the control room, each running specific operations processes.

minos-evd	NFS master and Event Display
minos-acnet	Run Control
minos-om	Online Monitoring, CRL, DCS monitoring
minos-rc	Run Control
minos-dcs	DCS monitoring (Windows)
minos-beamdata2	secondary Beam Data logging

Many of the computers are equipped with multihead graphics cards and spread their display over more than one monitor. Don't let the abundance of monitors intimidate you!

We run CR processes under account 'minos'. Logins with password are allowed only from the console in the Control Room (ie no remote logins). The shifter should know the password. The password can be tested from a terminal window by doing

```
su minos -c whoami
```

POWER UP

Power up the computers in the order listed above (evd/acnet/om/rc/dcs/beamdata2).

Eject and reload the empty CD tray on minos-dcs to avoid getting stuck in the Windows boot.

Log into the minos account on each system before powering up the next system.

This is particularly important for minos evd, which serves files to the other systems.

Check that /afs is mounted on minos-evd before proceeding with the other startups. (ls /afs/fnal.gov)

You cannot log into minos-dcs, which runs Windows, or to beamdata2, which has no console.

AUTHENTICATE

On each of evd/acnet/om/rc, open a terminal (single-click the Terminal - command line icon in the control panel) and type minos-kinit .

You will see a message like

```
OK - got kerberos ticket
```

```
Default principal: minos-wh-cr/minos/minos-om.fnal.gov@FNAL.GOV
```

```
Valid starting Expires Service principal
```

```
05/27/10 08:54:28 05/28/10 10:54:27 krbtgt/FNAL.GOV@FNAL.GOV
```

START PROCESSES

minos-acnet

ACNET console

The ACNET console X windows are pushed to minos-acnet from the Accelerator systems.

There are no ACNET console programs for you to run on minos-acnet

Open a terminal and type

```
xhost + clx65.fnal.gov
```

JAS Beam Monitoring

Do not start JAS when there is no NUMI beam. The lack of clock signals will confuse the program.

Wait until the beam is up.

Double-click on the desktop Minos Log icon named "Start JAS".

The button will open on the center display.

On the Brookhaven National Lab NUMI Acnet Monitor" window, click the "Start Job" button.

minos-rc

Near Run Control GUI

Double-click on the desktop icon in the shape of the Minos logo, named "rcNear".

A small gui window will pop up.

Start an ssh tunnel to ND by clicking the "Start" button in the top half of the user gui.

Wait several seconds until the connection is established, then start the Run control by clicking

"Start" button in the bottom part of the user gui

Far Run Control GUI

Double-click on the desktop icon in the shape of the Minos logo, named "rcFar".

A small gui window will pop up.

Start an ssh tunnel to FD by clicking the "Start" button in the top half of the user gui.

Wait several seconds until the connection is established, then start the Run control by clicking the

"Start" button in the bottom part of the user gui

minos-om

CRL/DCS Desktop - left screen

Click the yellow post-it Panel icon to get a post-it for shift notes.
Change the background color to blue.

Click the screen Panel icon to get a terminal window for running fluffy.

CRL/DCS Desktop - right screen

We use the firefox browser. Start firefox by clicking the globe icon in the panel.
There are bookmarks in the toolbar for all the standard web pages.
Open tabs for CRL, Memopad, and Training.
Right click the control bar -> To Desktop -> All Desktops

CRL/DCS Desktop - center screen

Open two browsers windows, DCS/Near on the left, DCS/Far on the right.

CRL/DCS Desktop - left screen

Open each elog in its own tab of a browser.

Run Coordinator

MCR

NUMI

Underground Coordinator

Click the 'Turn Image Load Off' button on each web page if it is present, to reduce the load on minos-om.

NEAR desktop

Double-click the omNear icon to get the connection gui. Click on the Connect then Start buttons in the gui.

FAR desktop

Click the omFar icon to get the connection gui. Click on the Connect then Start buttons in the gui.

minos-evd

Big Green Button (Beam data logging)

Double-click on the desktop icon in the shape of the Minos logo, named "Start BGB".
The button will open on the center display.

evdNearSgate icon on the Desktop

Click the evdNearSgate icon on the Desktop. Use the GUI to start the Tunnel and process.
When the display opens, click Free Running, then Next.

evdFar icon on the Desktop

Click the evdFar icon on the Desktop. Use the GUI to start the Tunnel and process.
When the display opens, click Free Running, then Next.