

Code Dark PACS Workstation Configuration Notes

Version 1.2, April 30 2025

Introductory notes

Code Dark PACS Workstation is a linux workstation (Ubuntu 24.04 Desktop). Anyone who is an accomplished linux user can usually accomplish the tasks described in this document without recourse to the “helpful” configuration tool provided.

The basic user on the desktop that opens automatically at boot is the user ‘orthanc’. The password for the user ‘orthanc’ is, unsurprisingly, ‘orthanc’. When privileged permissions are required, you will have to supply that password.

The following sections may generally either be performed by the experienced user in a gnome terminal or using a supplied application- code_dark_configurator.

To invoke code_dark_configurator, there should be an icon with that name on the desktop when you log in as user orthanc.

System Time

System time must be set correctly. You can either set it via the “date” command in a gnome terminal as “sudo date <mmddHHMMYY>” where mmddHHMMYY> a two digit month, day, hour, minute and (lower two digit) year.

If you invoke the Code Dark configurator a label with an entry two the right of that is provided to enter the same values.

IP Network Address

The Code Dark configurator has a label entry for this. The entry value is the form of <IPv4 ADDR DOTTED QUAD>/<CIDR>. For example, 10.0.23.45/24 is an IP address of 10.0.23.45 within a class C network (e.g., netmask of 255.255.255.0). If the entry is ‘system’ then the configurator won’t touch the networking configuration and a knowledgeable person will have to use the available ubuntu tools (left click the wired network icon on the upper bar to the right) to set the network and mask appropriately.

The Z80 workstations are supposed to have only one active network port. If for some reason they do not have that (but have two or more), then the configurator will not be able to set networking and you'll have to do things manually.

The network address needs to be what the connecting modalities expect to find a Dicom server at. There is no easy automatic determination of this value.

Dicom Parameters

There are in addition to the network address that the connecting modalities expect - they expect a listening port number at the IP network address specified and they also expect an AET (Application Entity Title). Again, these are what the connecting modalities expect to see.

Authorized Radiologists

These are the list of doctors who are authorized to sign reports being written on this workstation. There are no restrictions to adding or deleting from the list once you've logged in- it is stored on the datadrive. It's just a reminder really that signing with a known name makes the report a legal document.

Adding a Printer

At present, the Linux/Ubuntu mechanism is the only mechanism for adding a printer. Left click on the gearwheel on the bottom left- this brings up apps to pick. In the search bar enter "Printer". "Printers" under Settings. This brings up a Printers freestanding page.

Select "Add Printer" at the top if you do not see any printers attached. If no printer shows up, you might have to enter a network address (if network printing). If it's a supported printer, it will show up as a printer to add. There will likely be the same printer listed several times depending upon which access method(s) the printer supports. Select the one you want to use- this might have to be fiddled with to pick a working one.

Once it has been added, select the 3 vertical dots in the panel describing the added printer to make this the default printer. Then select "Printing Options" and at the top of that page is a "TestPage" button- click that to confirm that the printer is working.