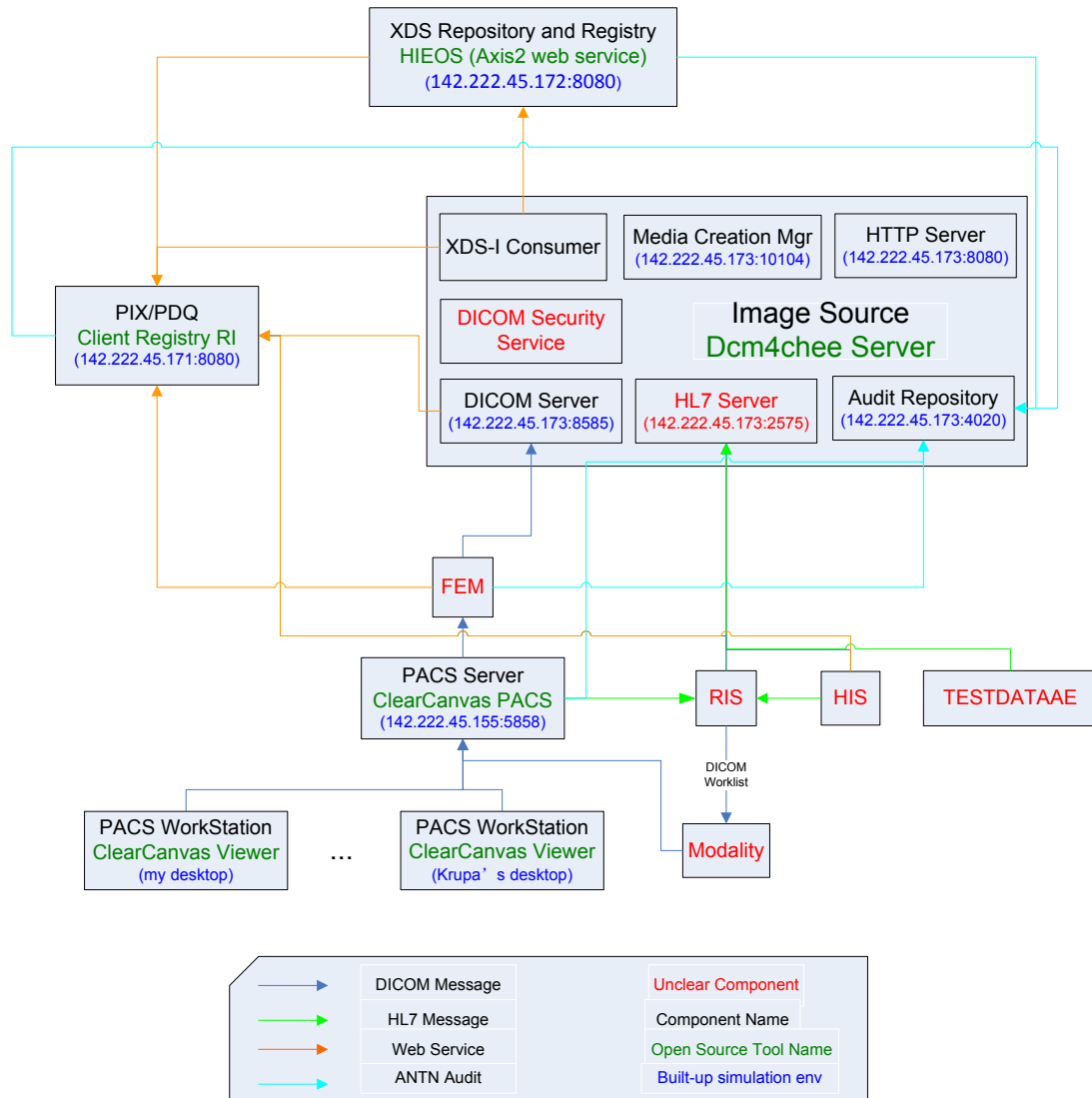


The figure below describes the physical environment built up in Mohawk. The color of arrow represents the communication protocol, and the colors of word have different presentation (black: component name, green: open source tool name, blue: deployed services, red: unclear component need more discussion).



- **RIS:** Mohawk is simulating RIS but not done, TESTDATAAE is used to make sure the patient information is consistent. We need Arun's help about: 1) which open source of RIS/HIS is selected? 2) how TESTDATAAE works?
- **HL7 Server:** unclear since RIS is not ready now.
- **FEM adapter:** I am not sure where it deployed and how it is designed which need Arun's help. Current placement of FEM is just my guess.
- **DICOM Security Service:** Performs JAAS login with user information provided in the Association Request (part of DICOM protocol) or AE configuration (static configuration file) for the calling AE and make returned information about user roles available for invoked DICOM services by association property "user". We can discuss about it with Arun to see if we would use this feature.

- **PIX/PDQ services** are integrated with the XDS Registry, supplying it with the Patient Feed, and the FEM adapter, XDS-I consumer and DICOM server inside Dcm4chee for PIX query. In an ideal scenario if we had a RIS system it would integrate with the PIX/PDQ for harmonizing the patient identity and demographics but as we are just simulating the RIS, our Test Data prep tool makes sure that the patient information is consistent.
- **HIEOS XDS Repository and Registry:** We can send images from HTPPACS (PACS server) to DCM4CHEE (image source). When DCM4CHEE receives the images, it triggers a workflow to send a DICOM Manifest (KOS file) to the HIEOS XDS Registry+ Repository (Provide and Register Transaction).
- **Audit Repository inside Dcm4chee:** This is the DCM4CHEE implementation of audit repository all the other systems (FEM adapter, HIEOS XDS, ClearCanvas PACS server) are sending their ATNA log to this repository.

Reference

<http://www.dcm4che.org/confluence/display/ee2/System+Overview>

<http://www.dcm4che.org/confluence/display/ee2/Services+%28MBeans%29#Services%28MBeans%29-HL7>

http://sourceforge.net/apps/mediawiki/hieos/index.php?title=HIEOS_2.0_-_Architecture

<http://te.marc-hi.ca/view.aspx?project=67fa3091-3b01-414a-aa20-399f65e6b406>