

CHNET, the INFN initiative for Cultural Heritage

In the framework of the INFN initiative for Cultural Heritage (CHNet), a first implementation of a central repository of digital images has been deployed and is hosted at the INFN-CNAF data center.

Access to the objects stored in the repository is granted based on attributes, e.g. belonging to a certain group of people, obtained from the Identity and Access Management service developed in the INDIGO-DataCloud project and integrated, among others, with the IDEM authentication federation.

Currently the repository stores several objects, including photos and data files obtained with X-Ray Fluorescence (XRF) scans.

On top of the repository, an application is being developed in order to allow the analysis of the stored XRF objects.

The application, now available as a prototype, is mostly based on modern web technologies and doesn't require any local installation of software, lowering the access barrier; it allows also the upload of remote data sets present on the client.

In the near future the data sets will be extended to other imaging techniques such as digital radiography, tomography, etc.; also news functionalities will be added to the application in order to take into account these new data formats.

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