

LOFAR@EGEE

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The data volume produced by LOFAR will reach 4 PB per year. Data processing of Lofar requires an online access to the most of this data volume. We will need to implement a distributed data storage in a multicomponent environment, and the multicomponent environment (from the point of view of hardware, software and grid concepts) will become a key feature of the project. We will need to integrate EGEE storage elements as a part of storage space for LOFAR information system.

3. Impact

EGEE storage elements will become a part of the LOFAR storage space. The main issue in the realisation of this project is a data exchange between EGEE and non-EGEE storage elements, consistency of the data stored in non-uniform storage environment (based on different grid technologies) and an access to the data from non-homogeneous computing elements.

URL for further information:

<http://www.lofar.org>
<http://www.lofar.nl>
<http://www.astro-wise.org>

4. Conclusions / Future plans

Dutch national astronomical data center OmegaCEN is in charge of the development of LOFAR information system in cooperation with LOFAR Consortium. OmegaCEN has already successfully developed an information system for astronomy Astro-Wise (<http://www.astro-wise.org>) which will serve as a prototype for Lofar information system. The developing and implementation of information system will start at the beginning of the next year and will be completed to the end of 2008.

Provide a set of generic keywords that define your contribution (e.g. Data Management, Workflows, High Energy Physics)

interoperability, applications, information system, radioastronomy

1. Short overview

The LOw Frequency ARray (LOFAR) is a key international project in radioastronomy. The challenging data storage and data processing of LOFAR will require an intensive use of both computing and data storage grids. The LOFAR information system will be created to store data and to provide an access to the data of the LOFAR project to wide astronomical community as well as to manage the data reprocessing during the project. The EGEE nodes will become a part of this data storage.

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