



Contribution ID: 28

Type: **not specified**

## **RAL Tier-1 Evolution as a Global CernVM-FS Service Provider**

*Wednesday, 26 April 2017 11:10 (25 minutes)*

The CernVM File System (CernVM-FS) was developed to assist WLCG High Energy Physics (HEP) collaborations to deploy software on the worldwide distributed computing infrastructure used to run data processing applications. The technology is now firmly established as the primary method for distributing WLCG experiment software, and its use by other HEP and non-HEP communities has increased significantly in recent years.

This presentation will give an overview of the CernVM-FS infrastructure deployed at RAL Tier-1 as part of the WLCG Stratum-1 network, but also as the facility provided to setup a complete service - the Release Manager Machine, the Replica Server and a customized uploading mechanism - for the non-LHC communities within EGI.

The latest developments to widen and consolidate the CernVM-FS infrastructure as a global facility (with main contributors in Europe, North America and Asia) are reviewed, such as the mechanism implemented to publish external repositories hosted by emerging regional infrastructures (eg. South Africa Grid). Also the presentation will describe the progress on implementing the novel protected CernVM-FS repositories, a requirement for academic communities willing to use CernVM-FS technology.

### **Length of talk (minutes)**

15

### **Scheduling constraints / preferences**

Please NOT on Monday 24 April AM or Friday 28 April

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**Session Classification:** Storage, file systems and data management

**Track Classification:** Storage & Filesystems