

XRootD and FTS Workshop @ JSI

Report of Contributions

Contribution ID: 1

Type: **not specified**

Data-Aware Scheduling for Opportunistic Resources (with XRootD and HTCondor)

Thursday, 30 March 2023 14:00 (30 minutes)

In the talk, I want to present our ideas for a data-aware scheduling mechanism for our opportunistic resources attached to GridKa, the T1 center in Germany.

Opportunistic resources are non permanent computing sites (partly with cache storages) distributed in Germany that provide resources for the HEP community from time to time.

We are planning to implement a hash-based distribution of datasets to different resources, inspired by Ceph/CRUSH, in combination with HTCondor scheduling and XRootD caching.

This will enable us to to schedule jobs to the according site without the need of a separate data management.

Primary author: HOFSAESS, Robin (KIT - Karlsruhe Institute of Technology (DE))

Co-authors: QUAST, Gunter (KIT - Karlsruhe Institute of Technology (DE)); GIFFELS, Manuel (KIT - Karlsruhe Institute of Technology (DE)); SCHNEPF, Matthias Jochen; FISCHER, Max

Presenter: HOFSAESS, Robin (KIT - Karlsruhe Institute of Technology (DE))

Session Classification: XRootd presentations

Contribution ID: 2

Type: **not specified**

Kubernetes and XrootD

Friday, 31 March 2023 10:20 (10 minutes)

Bioscience, material sciences, physics, and other research fields require several tools to achieve new results, discoveries, and innovations. All these research fields require computation power. The Open Science Grid (OSG) provides ways to access the computation power from different sites for several research fields. Besides the processing power, it is essential to access the data for all simulations, calculations, and other kinds of processing. To provide data access to all jobs on the OSG, the Open Science Data Federation (OSDF) have ways to create the required data access. The primary way to provide data on OSDF is the XrootD on a Kubernetes infrastructure on the National Research Platform. This work aims to show if there is any overhead using XrootD in a Kubernetes environment. To test this, we set an XrootD origin on bare metal and an XrootD origin using Kubernetes on the same host and request files using files size 500MB, 1GB, and 10GB. The results show a 2% larger performance on the transfer rate using bare metal than Kubernetes XrootD origin. In conclusion, there is no statistical difference between XrootD running on Kubernetes or bare metal.

10 minutes presentation

Primary author: ANDRIJAUSKAS, Fabio (Univ. of California San Diego (US))**Presenter:** ANDRIJAUSKAS, Fabio (Univ. of California San Diego (US))**Session Classification:** XRootd presentations

Contribution ID: 3

Type: **not specified**

Experience deploying xCache for CMS in Spain

Thursday, 30 March 2023 12:00 (20 minutes)

Over the last few years, the PIC Tier-1 and CIEMAT Tier-2 sites in Spain have been exploring XCache as a content delivery network service for CMS data in the region. This service aligns with the WLCG data management strategy towards HL-LHC. The caching mechanism allows data to be located closer to compute nodes, which has the potential to improve CPU efficiency for jobs, especially for frequently accessed data. Additionally, since many CMS jobs read data from remote sites using XRootD redirectors, there is significant room for improvement using this technology. We have successfully deployed XCache services at both the PIC and CIEMAT sites, and have configured them to cache popular CMS data based on ad-hoc data access popularity studies. Additional previous verification process revealed that there is no significant degradation in CPU efficiency for non I/O intensive tasks reading data from either site in the region, despite the distance between the two sites being 600km with 9ms latency. Hence, a single cache scenario for the region has been studied, with the cache placed at the PIC Tier-1 and serving data to both sites. This presentation aims to highlight our deployment experience and the benefits we have seen from using XCache in the region, as well as potential future use cases in the context of our data management strategy.

Primary author: PEREZ DENGRA, Carlos (PIC-CIEMAT)

Co-author: FLIX MOLINA, Jose (CIEMAT - Centro de Investigaciones Energéticas Medioambientales y Tec. (ES))

Presenter: PEREZ DENGRA, Carlos (PIC-CIEMAT)

Session Classification: XRootd presentations

Contribution ID: 4

Type: **not specified**

Update on FTS at RAL

Monday, 27 March 2023 17:00 (15 minutes)

The File Transfer Service (FTS3) is a data movement service developed at CERN, designed to move the majority of the LHC's data across the WLCG infrastructure. Currently, the Rutherford Appleton Laboratory (RAL) Tier 1 runs two production instances of FTS, serving WLCG users (lcgfts3), and the EGI community (fts3egi). During this talk, we are going to present the status of these production instances at the RAL Tier 1 site, as well as changes and developments planned for FTS at RAL over the next year.

The first of the planned changes is in relation to RAL's involvement with the Square Kilometre Array (SKA) experiment, and the UK SKA Regional Centre (UKSRC). Here we are engaged with helping and designing their networking and data transfer requirements, which will begin with the deployment of a SKA FTS instance, so we can begin the testing on their requirements. The second change is the planned integration of token authentication/authorization methods, which aims to improve accessibility to the service to both our existing and new users' communities. Testing is currently underway on integrating our EGI instance with EGI Check-in, and we intend for the SKA instance to integrate with INDIGO IAM once it is deployed.

Primary author: COOPER, Rose

Presenter: COOPER, Rose

Session Classification: FTS - Site Reports

Contribution ID: 5

Type: **not specified**

Porting of XRootD to Windows as a part of EOS-wnc

Thursday, 30 March 2023 16:30 (30 minutes)

XRootD provides fast, low latency, and scalable data access. It also provides a hierarchical organization of a filesystem-like namespace organized as a directory. As part of CERN EOS, XRootD assures another possibility for a fast connection for data transfer between the client and the EOS FST.

This is the presentation of Comtrade's work at the CERN's project of productization of EOS, and it is the presentation of XRootD porting to Windows as a part of the EOS client porting from Linux to Windows. All functionalities of the EOS client ported on Windows should ultimately be the same as those on Linux. XRootD is a part of the EOS client implementation on Linux and the first approach is to port the XRootD to provide EOS implementation on Windows. To make the best use of all the advantages and possibilities of Windows, the transfer of XRootD to Windows is designed to support the functionalities of XRootD and not to transfer the original code from Linux to Windows.

XRootD implementation on Linux is technically investigated as a group of components to port EOS client functionalities from Linux to Windows adequately. The list of external libraries is presented for each of these components. Presented is the list of the majority of Linux libraries used in XRootD, where there are Windows alternatives. If the porting of the XRootD to Windows is limited to essential functionalities, the most important is the port of the xrscp binary to Windows. Except for networking and security, appropriate libraries for Windows are available for all other functionalities.

According to the determined missing Windows libraries for network and security, network and security should be either implemented on Windows as part of xrscp or we should provide a Windows version of these libraries. Within a collaboration between CERN openlab and Comtrade, Comtrade invested and provided a port of XRootD and xrscp binary with no encoded connection (security). Based on Comtrade's estimation, the investment needed for porting missing XRootD libraries to Windows is out of the scope of Comtrade internal investments for XRootD. To complete this implementation, an appropriate outside investment is needed. The final result will be the complete port of the XRootD to Windows. Finally, porting XRootD to the Windows platform would bring additional possibilities for using Windows for particle physics experiments.

Primary author: MOLAN, Gregor (Comtrade 360's AI Lab)

Presenter: MOLAN, Gregor (Comtrade 360's AI Lab)

Session Classification: XRootd presentations

Contribution ID: 6

Type: **not specified**

XRootD in the UK: ECHO at RAL-LCG2 and developments at Tier-2 sites

Wednesday, 29 March 2023 17:30 (15 minutes)

ECHO is the Ceph-backed erasure-coded object store, deployed at the Tier-1 facility RAL-LCG2. It's frontend access to data is provided via XRootD - using the XrdCeph plugin via the libradosstriper library of Ceph, with a current usable capacity in excess of 40PB.

This talk will cover the work and experiences of optimising for, and operating in, Run-3 of the LHC, and the developments towards future Data Challenges and needs of HL-LHC running.

In addition, a summary of the XRootD activities in the UK is presented, including the ongoing migrations of a number of Tier-2 sites from DPM to a CephFS+XRootD storage solution.

Primary author: WALDER, James William (Science and Technology Facilities Council STFC (GB))

Presenter: WALDER, James William (Science and Technology Facilities Council STFC (GB))

Session Classification: XRootd presentations

Contribution ID: 7

Type: **not specified**

FTS Community Talk: CMS

Tuesday, 28 March 2023 09:55 (30 minutes)

This presentation will describe the usage of FTS by the CMS experiment at the Large Hadron Collider during the start of Run-3. I will describe the particular features recently developed for, and employed by CMS for our unique user case as well as current challenges and efforts to optimise performance on the boundary between FTS and Rucio. I will also discuss the future transfer requirements of CMS.

Primary author: ELLIS, Katy (Science and Technology Facilities Council STFC (GB))

Presenter: ELLIS, Katy (Science and Technology Facilities Council STFC (GB))

Session Classification: FTS - Communities and Collaborations

Contribution ID: 8

Type: **not specified**

Open Science Data Federation - OSDF

Thursday, 30 March 2023 09:30 (40 minutes)

All research fields require tools to be successful. A crucial tool today is the computer. The Open Science Grid (OSG) provides ways to access computational power from different sites. Open science data federation (OSDF) provides data access to the OSG pool using several software stacks. OSDF has received upgrades related to storage space, monitoring checks, monitoring stream collection, and new caches. New monitoring systems provide a way to detect a problem before the user; a new cache can provide more data to the users, new origins create more storage available, and new monitoring streams enable a sophisticated debug model. All these improvements create a new way to provide data to OSG and others. The OSDF is receiving many investments and will create more ways to provide scientific data.

40 minutes presentation

Primary author: ANDRIJAUSKAS, Fabio (Univ. of California San Diego (US))**Presenter:** ANDRIJAUSKAS, Fabio (Univ. of California San Diego (US))**Session Classification:** XRootd presentations

Contribution ID: 9

Type: **not specified**

XCache

XCache overview
developments in 5.x
plans
30 minutes

Primary author: TADEL, Matevz (Univ. of California San Diego (US))

Presenter: TADEL, Matevz (Univ. of California San Diego (US))

Session Classification: XRootd presentations

Contribution ID: **10**

Type: **not specified**

XRootD monitoring discussion

Friday, 31 March 2023 11:40 (20 minutes)

30 minutes

10 minutes introduction

20 minutes discussion

Primary author: TADEL, Matevz (Univ. of California San Diego (US))

Presenter: TADEL, Matevz (Univ. of California San Diego (US))

Session Classification: XRootd presentations

Contribution ID: 11

Type: **not specified**

LHCOPN/LHCONE Status and Updates

Friday, 31 March 2023 10:00 (20 minutes)

In this talk we'll give an update on the LHCOPN/LHCONE networks, current activities, challenges and recent updates. We will also focus on the various R&D projects that are currently on-going and could impact XRootD and FTS. Finally, we will also cover our plans for mini-challenges and major milestones in anticipation of the DC24.

Primary authors: MARTELLI, Edoardo (CERN); BABIK, Marian (CERN)

Presenters: MARTELLI, Edoardo (CERN); BABIK, Marian (CERN)

Session Classification: XRootd presentations

Contribution ID: **12**

Type: **not specified**

Welcome

Wednesday, 29 March 2023 14:00 (10 minutes)

Welcome and logistics

Presenter: JAVORSEK, Jan Jona (Jozef Stefan Institute, Slovenia)

Session Classification: XRootd presentations

Contribution ID: **13**

Type: **not specified**

Welcome

Monday, 27 March 2023 14:00 (15 minutes)

Welcome talk: workshop logistics, Ljubljana survival guide and an introductory word from the head of the institute

Presenter: JAVORSEK, Jan Jona (Jozef Stefan Institute, Slovenia)

Session Classification: FTS - State of Affairs

Contribution ID: 14

Type: **not specified**

XRootD Features

Wednesday, 29 March 2023 14:10 (50 minutes)

We will review the new XRootD features added since the last workshop.

Primary author: HANUSHEVSKY, Andrew Bohdan (SLAC National Accelerator Laboratory (US))

Presenter: HANUSHEVSKY, Andrew Bohdan (SLAC National Accelerator Laboratory (US))

Session Classification: XRootd presentations

Contribution ID: 15

Type: **not specified**

Kingfisher: Storage Management for Data Federations

A cornerstone of translating the raw capacity of a distributed system into an effective source of shared computing power is the methodical management of all the resources. While one commonly thinks of managing processing resources - CPUs, GPUs, memory - there's surprisingly little attention paid to the management of storage resources. Questions abound: How much storage should be set aside? When can it be reclaimed? How should it be reclaimed? How can it be subdivided?

The Kingfisher project, just beginning, is planning to explore different storage management techniques through the use of its LotMan library which tracks the space usage and local policies for storage. The first intended application for LotMan is the XCache configuration of XRootD and its interaction with HTCondor.

This presentation will cover the basic concepts being developed for LotMan, the use cases we hope to tackle through the year, and be an opportunity for the XRootD developers to discuss on how to best integrate a policy engine into XCache.

Primary author: BOCKELMAN, Brian (Morgridge Institute for Research)

Presenter: BOCKELMAN, Brian (Morgridge Institute for Research)

Contribution ID: 16

Type: **not specified**

To the OSPool and Beyond: The guts of the OSDF client

Thursday, 30 March 2023 10:10 (20 minutes)

The Open Science Data Federation (OSDF) delivers petabytes of data each month to workflows running on the OSPool. To do so, one requires a reliable set of client tools. This presentation will take a look “under the hood” of the current OSDF client tooling, covering:

- Discovery of nearby cache instances.
- Acquisition of credentials for transfer, automated or otherwise.
- Experiences maintaining the client in Go.
- Integration with the HTCondor Software Suite.
- Monitoring and telemetry of performance.

Finally, we’ll cover the how we plan to make the client more usable, especially in applications beyond the OSPool, over the coming year.

Primary author: BOCKELMAN, Brian (Morgridge Institute for Research)

Presenter: BOCKELMAN, Brian (Morgridge Institute for Research)

Session Classification: XRootd presentations

Contribution ID: 17

Type: **not specified**

The journey of a file in Rucio

Tuesday, 28 March 2023 11:40 (25 minutes)

This talk focuses on the Rucio data management framework and its interaction with FTS.

Primary author: CARPA, Radu (CERN)

Presenter: CARPA, Radu (CERN)

Session Classification: FTS - Communities and Collaborations

Contribution ID: **18**Type: **not specified**

RNTuple: ROOT's Event Data I/O for HL-LHC

Friday, 31 March 2023 09:30 (30 minutes)

This talk provides an introduction to RNTuple, ROOT's designated TTree successor. RNTuple is active R&D, available in the ROOT::Experimental namespace. Benchmarks using common analysis tasks and experiment AODs suggest a 3x - 5x better single-core performance and 10%-20 smaller files compared to TTree. The talk will specifically focus on RNTuple's I/O scheduling and optimization opportunities for remote reading with XRootD.

Primary author: BLOMER, Jakob (CERN)**Presenter:** BLOMER, Jakob (CERN)**Session Classification:** XRootd presentations

Contribution ID: **19**Type: **not specified**

Experience with XCache in Virtual Placement

Thursday, 30 March 2023 11:30 (30 minutes)

Virtual Placement is a way to approximate a CDN-like network for the ATLAS experiment. XCache is an important component in a Virtual Placement mechanism and is expected to substantially improve performance and reliability, while simultaneously decreasing bandwidth needed. I will explain how we configure it, deploy and use it, share experience in more than one year of running it.

Primary author: VUKOTIC, Ilija (University of Chicago (US))

Presenter: VUKOTIC, Ilija (University of Chicago (US))

Session Classification: XRootd presentations

Contribution ID: 20

Type: **not specified**

Getting the most out of XCache

XCache grew to be a quite stable, performant and function rich caching server for the HEP community.

I will propose a few developments that could help its adoption, simplify and optimize its operation in large distributed systems.

Primary author: VUKOTIC, Ilija (University of Chicago (US))

Presenter: VUKOTIC, Ilija (University of Chicago (US))

Session Classification: XRootd presentations

Contribution ID: **21**

Type: **not specified**

What's up with the XRootD client

Wednesday, 29 March 2023 15:00 (30 minutes)

Presenter: SIMON, Michal Kamil (CERN)

Session Classification: XRootd presentations

Contribution ID: 22

Type: **not specified**

XRootD Release Schedule and Future Plans

Wednesday, 29 March 2023 16:00 (20 minutes)

- Current release procedure/automation
- Discussion on development workflow
- Plans for 5.6 and 6.0 releases later this year
- Python bindings (drop Python2 for good, packaging work)

Presenter: AMADIO, Guilherme (CERN)

Session Classification: XRootd presentations

Contribution ID: 23

Type: **not specified**

Evolution of XRootD Testing and CI Infrastructure

Wednesday, 29 March 2023 16:20 (20 minutes)

- Recent CI developments (+Alpine, +Alma, -Ubuntu 18)
- Supported platforms and compilers
- Full (or almost full) migration from GitLab CI to GitHub Actions
- Test coverage and static analysis
- Plans for improving the docker-based tests, running them in CI

Presenter: AMADIO, Guilherme (CERN)

Session Classification: XRootd presentations

Contribution ID: 24

Type: **not specified**

OU XRootD Site Report

Wednesday, 29 March 2023 16:40 (15 minutes)

Presenter: SEVERINI, Horst (University of Oklahoma (US))

Session Classification: XRootd presentations

Contribution ID: 25

Type: **not specified**

XRootD usage at GSI

Wednesday, 29 March 2023 16:55 (20 minutes)

Presenter: FLEISCHER, Soren Lars Gerald (GSI - Helmholtzzentrum für Schwerionenforschung GmbH (DE))

Session Classification: XRootd presentations

Contribution ID: 26

Type: **not specified**

Analysis of data usage at BNL

Wednesday, 29 March 2023 17:15 (15 minutes)

Presenter: ITO, Hironori (Brookhaven National Laboratory (US))

Session Classification: XRootd presentations

Contribution ID: 27

Type: **not specified**

XCache Developments & Plans

Presenter: TADEL, Matevz (Univ. of California San Diego (US))

Session Classification: XRootd presentations

Contribution ID: 28

Type: **not specified**

Getting the most out of XCache

Thursday, 30 March 2023 12:20 (10 minutes)

Presenter: VUKOTIC, Ilija (University of Chicago (US))

Session Classification: XRootd presentations

Contribution ID: 29

Type: **not specified**

Experience with XCache in Virtual Placement

Presenter: VUKOTIC, Ilija (University of Chicago (US))

Session Classification: XRootd presentations

Contribution ID: **30**

Type: **not specified**

Kingfisher: Storage Management for Data Federations

Thursday, 30 March 2023 14:30 (20 minutes)

Presenter: BOCKELMAN, Brian Paul (University of Wisconsin Madison (US))

Session Classification: XRootd presentations

Contribution ID: **31**

Type: **not specified**

XRootD pgRead & pgWrite

Thursday, 30 March 2023 14:50 (20 minutes)

Presenter: HANUSHEVSKY, Andrew Bohdan (SLAC National Accelerator Laboratory (US))

Session Classification: XRootd presentations

Contribution ID: **32**

Type: **not specified**

XrdEc: the whole story

Thursday, 30 March 2023 15:10 (20 minutes)

Presenter: SIMON, Michal Kamil (CERN)

Session Classification: XRootd presentations

Contribution ID: **33**

Type: **not specified**

XRootD Plugins

Presenter: HANUSHEVSKY, Andrew Bohdan (SLAC National Accelerator Laboratory (US))

Session Classification: XRootd presentations

Contribution ID: 34

Type: **not specified**

XCache Developments & Plans

Thursday, 30 March 2023 11:00 (30 minutes)

Presenter: TADEL, Matevz (Univ. of California San Diego (US))

Session Classification: XRootd presentations

Contribution ID: 35

Type: **not specified**

XRootD Plugins

Thursday, 30 March 2023 16:00 (30 minutes)

Presenter: HANUSHEVSKY, Andrew Bohdan (SLAC National Accelerator Laboratory (US))

Session Classification: XRootd presentations

Contribution ID: 36

Type: **not specified**

A Brief History of the dCache Xroot Implementation (virtual)

Thursday, 30 March 2023 17:00 (30 minutes)

Presenter: ROSSI, ALBERT (Fermi National Accelerator Laboratory)

Session Classification: XRootd presentations

Contribution ID: 37

Type: **not specified**

Don't be a Stranger, Please! :-)

Friday, 31 March 2023 12:00 (15 minutes)

Presenter: SIMON, Michal Kamil (CERN)

Session Classification: Workshop wrap-up

Contribution ID: **38**

Type: **not specified**

Many Thanks & Future Outlook

Friday, 31 March 2023 12:15 (15 minutes)

Presenter: HANUSHEVSKY, Andrew Bohdan (SLAC National Accelerator Laboratory (US))

Session Classification: Workshop wrap-up

Contribution ID: 39

Type: **not specified**

Outlook on EOS, the CERN storage solution for LHC Run3 and beyond

Friday, 31 March 2023 11:00 (30 minutes)

Presenter: AMADIO, Guilherme (CERN)

Session Classification: XRootd presentations

Contribution ID: 40

Type: **not specified**

FTS3 at FNAL (virtual)

Monday, 27 March 2023 17:15 (15 minutes)

- Outline
- Introduction
- Configurations
 - CMS configuration –physical server
 - Public configuration –containers
- Differences
- Advantages & disadvantages of each configuration
- Summary

Primary authors: LOBATO PARDAVILA, Lorena (Fermi National Accelerator Lab. (US)); LOBATO PARDAVILA, Lorena

Presenters: LOBATO PARDAVILA, Lorena (Fermi National Accelerator Lab. (US)); LOBATO PARDAVILA, Lorena

Session Classification: FTS - Site Reports

Contribution ID: 42

Type: **not specified**

FTS3: State of affairs

Monday, 27 March 2023 14:15 (45 minutes)

Last year in review, showcasing the evolution of the FTS project, as well as touching on what's new in the FTS world, community engagement and the future direction.

Primary author: PATRASCOIU, Mihai (CERN)

Co-authors: LOPES, Joao Pedro; MURRAY, Steven (CERN)

Presenter: PATRASCOIU, Mihai (CERN)

Session Classification: FTS - State of Affairs

Contribution ID: 43

Type: **not specified**

Tape, REST API and more

Monday, 27 March 2023 15:00 (30 minutes)

This talk will present recent QoS improvements, go into the details of the Tape REST API and how it is implemented in FTS & Gfal2, showcase Gfal2 tape interaction over HTTP and finally, look at what's upcoming in the tape world, such as Archive Metadata and Tape REST API evolution.

Primary author: LOPES, Joao Pedro

Co-author: PATRASCOIU, Mihai (CERN)

Presenter: LOPES, Joao Pedro

Session Classification: FTS - State of Affairs

Contribution ID: 44

Type: **not specified**

FTS & Tokens

Monday, 27 March 2023 15:50 (30 minutes)

This talk will describe the future strategy of tokens in FTS, as well as implementation milestones to fully integrated tokens into the FTS landscape.

Primary author: MISRA, Shubhangi

Co-author: PATRASCOIU, Mihai (CERN)

Presenter: MISRA, Shubhangi

Session Classification: FTS - State of Affairs

Contribution ID: 45

Type: **not specified**

FTS3 @ CERN

Monday, 27 March 2023 16:20 (25 minutes)

The FTS3 @ CERN site report, presenting the number of instances, volume of data served each year, database setup and various operation tips and tricks discovered throughout the years.

Primary author: MURRAY, Steven (CERN)

Co-authors: LOPES, Joao Pedro; PATRASCOIU, Mihai (CERN)

Presenter: MURRAY, Steven (CERN)

Session Classification: FTS - Site Reports

Contribution ID: 46

Type: **not specified**

FTS3: Cloud Storage transfers

This presentation will show all that's needed to get your FTS instance configured to serve cloud storage transfers. The final part of the presentation will show our plan to simplify this process and make things easier to configure and more intuitive over all.

Primary author: PATRASCOIU, Mihai (CERN)

Co-author: SILVA JUNIOR, Eraldo (CBPF - Brazilian Center for Physics Research (BR))

Presenter: PATRASCOIU, Mihai (CERN)

Session Classification: FTS - Communities and Collaborations

Contribution ID: 47

Type: **not specified**

FTS3@CERN: Service Health Monitoring

Tuesday, 28 March 2023 16:35 (25 minutes)

This talk will show an overview of the health and alarm metrics used at the FTS3@CERN deployment. The full lifecycle will be presented, from the software changes and scripts needed, to logging extraction via FluentBit and ultimately to the Grafana display.

Primary author: PATRASCOIU, Mihai (CERN)

Co-authors: LOPES, Joao Pedro; MURRAY, Steven (CERN)

Presenter: PATRASCOIU, Mihai (CERN)

Session Classification: FTS - Monitoring

Contribution ID: 48

Type: **not specified**

FTS3: The Monitoring Zoo

Tuesday, 28 March 2023 16:00 (35 minutes)

The word “monitoring” is used everywhere in the FTS world. This talk wants to dive into the different types of monitoring present in the FTS world and explain what each of them means.

Primary author: LOPES, Joao Pedro

Co-author: PATRASCOIU, Mihai (CERN)

Presenter: LOPES, Joao Pedro

Session Classification: FTS - Monitoring

Contribution ID: 49

Type: **not specified**

FTS Community Talk: ATLAS (virtual)

Tuesday, 28 March 2023 09:30 (25 minutes)

The ATLAS view on data management and FTS involvement

Primary author: LASSNIG, Mario (CERN)

Presenter: LASSNIG, Mario (CERN)

Session Classification: FTS - Communities and Collaborations

Contribution ID: 50

Type: **not specified**

FTS Community Talk: LHCb (virtual)

Tuesday, 28 March 2023 10:25 (25 minutes)

Primary author: COUTURIER, Ben (CERN)

Presenter: COUTURIER, Ben (CERN)

Session Classification: FTS - Communities and Collaborations

Contribution ID: 51

Type: **not specified**

EGI Data Transfer Activities (virtual)

Tuesday, 28 March 2023 11:15 (25 minutes)

The talk will focus on the activities in EGI related to Data transfer and orchestration, in particular focusing on integration with EGI Check-in AAI in the context of the EGI-ACE project and the new EOSC Data transfer service in EOSC Future project. An overview of the new EGI lead project interTwin will be also given and the role FTS has there in the infrastructure supporting Scientific Digital Twins.

Primary author: MANZI, Andrea**Presenter:** MANZI, Andrea**Session Classification:** FTS - Communities and Collaborations

Contribution ID: 52

Type: **not specified**

FTS3: BNL Deployment

Monday, 27 March 2023 16:45 (15 minutes)

An overview of the FTS3 deployment at BNL

Primary author: ITO, Hironori (Brookhaven National Laboratory (US))

Presenter: ITO, Hironori (Brookhaven National Laboratory (US))

Session Classification: FTS - Site Reports

Contribution ID: 53

Type: **not specified**

A Prometheus XRootD exporter based on mpxstats (virtual)

Friday, 31 March 2023 11:30 (10 minutes)

Presenter: KNEDLIK, Jan (GSI - Helmholtzzentrum für Schwerionenforschung GmbH (DE))

Session Classification: XRootd presentations

Contribution ID: 54

Type: **not specified**

FTS-Noted Project (virtual)

Tuesday, 28 March 2023 17:00 (20 minutes)

An overview of the FTS-Noted project, aimed at shaping traffic through dynamic network switches.

Primary author: MARTELLI, Edoardo (CERN)

Co-author: MISA MOREIRA, Maria Del Carmen (CERN)

Presenters: MARTELLI, Edoardo (CERN); MISA MOREIRA, Maria Del Carmen (CERN)

Session Classification: FTS - Monitoring

Contribution ID: 55

Type: **not specified**

FTS-Alto project (virtual)

Tuesday, 28 March 2023 12:05 (25 minutes)

An overview of the FTS-Alto project in collaboration with Dr. Richard Yang and his research group (Yale University)

Primary author: YANG, Y. Richard

Presenter: YANG, Y. Richard

Session Classification: FTS - Communities and Collaborations