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# WLCG Archival Storage Group

## Description

The group has been formed to tackle two main themes

- establish a knowledge-sharing community for those operating archival storage for WLCG
- understand how to monitor usage of archival systems and optimise their exploitation by experiments

Main point of contact for all involved parties is [wlcg-data-archival-storage@cern.ch](mailto:wlcg-data-archival-storage@cern.ch) mailing list.

For low level tape technology related discussion there is also [hep-tape-experts@cern.ch](mailto:hep-tape-experts@cern.ch) mailing list.

## Documents

- Tape Metrics
- Archival Site Survey

## Meetings

When	Where	Description	Participants	Agenda
18th Jan 2019	CERN	6th Meeting		<a href="https://indico.cern.ch/event/790246/">https://indico.cern.ch/event/790246/</a>
27th Sep 2018	CERN	5th Meeting		<a href="https://indico.cern.ch/event/756338/">https://indico.cern.ch/event/756338/</a>
5th July 2018	CERN	4th Meeting		<a href="https://indico.cern.ch/event/739586/">https://indico.cern.ch/event/739586/</a>
7th May 2018	CERN	3rd Meeting		<a href="https://indico.cern.ch/event/724729/">https://indico.cern.ch/event/724729/</a>
16th April 2018	CERN	2nd Meeting		<a href="https://indico.cern.ch/event/722405/">https://indico.cern.ch/event/722405/</a>
21st Nov 2017	CERN	WLCG Archival Storage Group 1st Meeting		<a href="https://indico.cern.ch/event/681096/">https://indico.cern.ch/event/681096/</a>
28-29 June 2010	SARA, Amsterdam	T1T2Tape First Workshop	ASGC, CC IN2P3, CERN, DESY, FNAL (evo), KIT, NDGF, RAL, SARA	Indico <a href="#">key</a> : t012

## Sites configuration overview

Please include only equipment used for HEP data.

Site	Libraries	Total HEP Slots	Drives	Total HEP media capacity	Software	Contact
CH - CERN		68000		210+ PB	CASTOR <a href="#">☑</a>	<a href="mailto:tape-operations@cern.ch">tape-operations@cern.ch</a>

	4xSL8500, 1xTS4500, 1xTS3500		40xT10000D, 46xTS1150, 2xTS1155			
CA - Triumf	1xTS3500, 1xTS4500	7000	6xLTO5, 18xLTO6, 8xLTO7	18 PB	Tapeguy <a href="#">↗</a>	simonliuxl@triumfNOSPAMPLEASE.c
DE - KIT-GridKa	1xSL8500	10000	17xT10000C, 12xT10000D	78 PB	IBM Spectrum Protect <a href="#">↗</a>	dataprotection@listsNOSPAMPLEASE.ki
ES - PIC	1xSL8500	4080	4xLTO5, 8xT10000C, 5xT10000D	13 PB	Enstore <a href="#">↗</a>	storage@picNOSPAMPLEASE.es
FR - CCIN2P3	4xSL8500	40000	50xT10000D	54 PB	HPSS <a href="#">↗</a>	hpssmaster@ccNOSPAMPLEASE.in2p3
GB - STFC-RAL	2xSL8500	10000	21xT10000D	44 PB	CASTOR <a href="#">↗</a>	tim.folkes@stfcNOSPAMPLEASE.ac.u
IT - INFN-CNAF	1xSL8500	?	17xT10000D	65 PB	IBM Spectrum Protect <a href="#">↗</a>	storage@listsNOSPAMPLEASE.cnaf.inf
KR - GSDC-KISTI	1xTS3500	800	8xTS1140	3.5 PB	IBM Spectrum Protect <a href="#">↗</a> + IBM Spectrum Scale <a href="#">↗</a>	sahn@kistiNOSPAMPLEASE.re.kr
NL - NIKHEF-SARA	2xSL8500	20000	12xT10000C, 10xT10000D	12PB	DMF <a href="#">↗</a>	fes-tg@surfsaraNOSPAMPLEASE.nl
RU - NRC-KI	1xTS3500	2642	9xTS1140	7 PB	Enstore <a href="#">↗</a>	gridops@gridNOSPAMPLEASE.kiae.r
RU - JINR	1xTS3500	3240	11xLTO6	8 PB	Enstore <a href="#">↗</a>	Владимир Трофимов (tvv@jinrNOSPAMPLEASE.ru)
Scandinavia - NDGF	?xTS3500	?	LTO, TS11XX	9 PB	IBM Spectrum Protect <a href="#">↗</a> + ENDIT <a href="#">↗</a>	support@ndgfNOSPAMPLEASE.org
TW - ASGC (no tape)	TS3500	?	LTO4	?	CASTOR <a href="#">↗</a>	?
US - BNL	4xSL8500	36000	LTO3, LTO4, LTO6, LTO7	44 PB	HPSS <a href="#">↗</a>	David.Yu@bnlNOSPAMPLEASE.gov
US - FNAL	5xSL8500, 2xTS4500	67000	92xLTO8, 61xT10000C, 23xT10000D, 18xLTO4	150+ PB	Enstore <a href="#">↗</a>	oleynik@fnalNOSPAMPLEASE.gov

## Useful information

- Tape Metrics - obsolete (as defined in 2011)
- GPFS and TSM experience
- T10000 drive tests

## Join the group

Anyone with an interest in the topic is encouraged to join the group:

<https://e-groups.cern.ch/e-groups/EgroupsSubscription.do?egroupName=wlcg-data-archival-storage>

## To Do

- Definition of a HEP Tape Archive
- Define data loss policy
- Define common error handling policy
- Environmental conditions for rooms with tape equipment
- Define Tape Metrics
- Small file handling

## HEPTape Web Utilities

- - advanced search
- WebTopicList - all topics in alphabetical order
- WebChanges - recent topic changes in this web
- WebNotify - subscribe to an e-mail alert sent when topics change
- WebRss, WebAtom - RSS and ATOM news feeds of topic changes
- WebStatistics - listing popular topics and top contributors
- WebPreferences - preferences of this web

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This topic: HEPTape > WebHome

Topic revision: r32 - 2019-09-03 - OliverKeeble



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