

Data Challenge 2023: LHCb Input

Concezio Bozzi, Christophe Haen, Alexander Rogovskiy, Federico Stagni

LHCb plans

- **Repeat the same as last year...**
- **... a bit more ambitious with the rates**
- **... and hopefully with tokens**
- **Write, DT mode (starting 13th of February)**
 - ~ 2 days worth of data taking
 - EOS → CTA
 - EOS → T1-disk → T1-tape
 - Remove from T1-disk
- **Read, AD mode (starting 20th of February)**
 - T1-tape → T1-disk

New targets: more ambitious

Site	shares	Data written (TB)	Export speed	Staging Speed (GB/s)	Staging duration (hours)
CERN		2117.00	14.00	2.57	48.39
CNAF	14.61%	309.36	2.05	1.60	53.77
GRIDKA	19.56%	414.01	2.74	1.66	69.13
IN2P3	10.93%	231.38	1.53	1.20	53.77
NCBJ	7.30%	154.64	1.02	0.89	48.39
PIC	3.64%	77.13	0.51	0.40	53.77
RAL	28.26%	598.29	3.96	2.40	69.13
RRCKI	0.00%	0.00	0.00	0.00	0.00
SARA	8.24%	174.40	1.15	0.80	60.49
Beijing	7.45%	157.79	1.04	0.63	69.13
Total Tier1s	100.00%	2117.00	14.00	9.58	

About monitoring

- **Will reuse the same FTS activity as last time**
 - "Data Challenge"
 - Common dashboard should still work

About tokens

- **Still need to figure out how it is supposed to work**
- **Disk to disk only, or also tape involved ?**
- **Do all SE support capabilities, or do we need identity in the tokens ?**
- **We may need this**
- **In any case, it is going to be a patched version of DIRAC, not a production ready way of using tokens**