



DCMS computing team meeting

T2 pledges: status in different systems in the first year of NHR transition

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Pledge accounting up to last year

- WLCG CRIC[🔗]: one federation containing DESY & RWTH; CPU & Disk

	filter by Federation	2	CMS	Germany	2024	filter by T	filter by Pled	filter by Comment
Edit	Federation	Tier	VO	Country	Year	Type	Pledge	Comment
	DE-DESY-RWTH-CMS-T2	2	CMS	Germany	2024	CPU	124000 HEPscore23	DESY 84000, RWTH 40000
	DE-DESY-RWTH-CMS-T2	2	CMS	Germany	2024	Disk	11060 TBytes	DESY 7380, RWTH 3690
Edit	Federation	Tier	VO	Country	Year	Type	Pledge	Comment

- CMS SiteCapacity page[🔗]: specify single fraction of federation for CPU&Disk

T2_DE_RWTH	DE-DESY-RWTH-CMS-T2	Name of the WLCG federation containing the site pledge
	0.333	Fraction of WLCG federation pledge fulfilled by site
	XXX	CPU pledge in HS23 (auto-calculated from Rebus and core performance)
	YYY	Disk space pledge in TBytes (auto-filled from Rebus if federation is set)

Now in transition: Uni → NHR + Helmholtz

- NHR CPU still accounted for RWTH
→ no change
- disk:
 - DESY providing more than the usual 2/3
 - new entry for KIT, **not** in DE-T2 federation



single fraction in
SiteCapacity is not sufficient



federation does not contain 100%
what about T2 EPR? (later)




	filter by Federation	2	CMS	Germany	2025	filter by T	filter by Pled	filter by Comment
Edit	Federation	Tier	VO	Country	Year	Type	Pledge	Comment
	DE-DESY-RWTH-CMS-T2	2	CMS	Germany	2025	CPU	142500 HEPscore23	RWTH 47500 HS23, DESY 95000 HS23, DESY-Uni 0 HS23
	DE-DESY-RWTH-CMS-T2	2	CMS	Germany	2025	Disk	12475 TBytes	RWTH 3075 TB, DESY 8750 TB, DESY-Uni 650 TB
	DE-KIT-T2	2	CMS	Germany	2025	Disk	650 TBytes	

(Possible) solution in SiteCapacity

- set federation empty (inspired by what KIT does)
- used for DESY for now:

T2_DE_DESY

▼ Name of the WLCG federation containing the site pledge

- CPU pledge and Disk space pledge become free text fields 
- need to calculate these manually every year 
- unclear what this means for T2 EPR 
(would be a problem for the KIT-part anyway)

T2 EPR

- EPR are given to the T2 sites/federations considering
 - 1) site readiness (at least 80% over the year)
 - 2) disk pledge (no CPU!)

Concerning:

- 1) do we need to fold in KIT? what would happen right now?
- 2) which system is used? CRIC or SiteCapacity?
 - if it is CRIC, we still need to get KIT in (will become a more severe fraction in the longer run)
 - if it is SiteCapacity: does the federation need to be set?

Discussion

- Anything wrong with setting federation in Site Capacity empty? (@RWTH)
- Does anybody know:
 - which system's numbers are used for T2 EPR?
 - how can we get the KIT part in?
- Am I missing any other problems?

BACKUP

Current status in SiteCapacity

T2_DE_DESY

▼	Name of the WLCG federation containing the site pledge
0.666	Fraction of WLCG federation pledge fulfilled by site
94905	CPU pledge in HS23 (auto-calculated from Rebus and core performance)
15.000	Average HS23 performance of a core at the site
5600	Number of cores usable by CMS
17112	Max number of cores used recently by CMS (auto-filled from gWMSmon)
2800	Number of cores for production (auto-set to 80% or 50% of usable cores)
15000	Max number of cores to be used for CPU intensive jobs
300	Max number of cores to be used for I/O intensive jobs
9400.0	Disk space pledge in TBytes (auto-filled from Rebus if federation is set)
7365.5	Disk space in TBytes usable by CMS
5800.0	Disk space in TBytes available for experiment central operations (used by Rucio)
78.74	Percent of disk space for experiment use (auto-calculated)
2000.0	Disk space in TBytes available for local use (used by Rucio)
390.00	Disk space in TBytes reserved for /store/unmerged (auto-filled from Rucio)
0.0	Tape space pledge in TBytes (auto-filled from Rebus)
3000.0	Tape space in TBytes usable by CMS
Update Information	(previous update: 2025-Apr-29 08:13:58 by cwissing)

Includes DESY-Uni (650TB)

Current status in SiteCapacity

T2_DE_RWTH

Too large now

DE-DESY-RWTH-CMS-T2 ▾	Name of the WLCG federation containing the site pledge
0.333 ▾	Fraction of WLCG federation pledge fulfilled by site
47453 ▾	CPU pledge in HS23 (auto-calculated from Rebus and core performance)
20.000 ▾	Average HS23 performance of a core at the site
8750 ▾	Number of cores usable by CMS
11130 ▾	Max number of cores used recently by CMS (auto-filled from gWMSmon)
7000 ▾	Number of cores for production (auto-set to 80% or 50% of usable cores)
5000 ▾	Max number of cores to be used for CPU intensive jobs
500 ▾	Max number of cores to be used for I/O intensive jobs
4154.0 ▾	Disk space pledge in TBytes (auto-filled from Rebus if federation is set)
3682.5 ▾	Disk space in TBytes usable by CMS
2750.0 ▾	Disk space in TBytes available for experiment central operations (used by Rucio)
74.67 ▾	Percent of disk space for experiment use (auto-calculated)
632.5 ▾	Disk space in TBytes available for local use (used by Rucio)
169.12 ▾	Disk space in TBytes reserved for /store/unmerged (auto-filled from Rucio)
0.0 ▾	Tape space pledge in TBytes (auto-filled from Rebus)
0.0 ▾	Tape space in TBytes usable by CMS
Update Information	(previous update: 2025-Apr-01 15:56:15 by nowack)

Current status in SiteCapacity

T1_DE_KIT Includes DE-KIT-T2 (650TB)	▼ Name of the WLCG federation containing the site pledge	
	1.000	↕ Fraction of WLCG federation pledge fulfilled by site
	110000	↕ CPU pledge in HS23 (auto-calculated from Rebus and core performance)
	14.010	↕ Average HS23 performance of a core at the site
	7852	↕ Number of cores usable by CMS
	18768	↕ Max number of cores used recently by CMS (auto-filled from gWMSmon)
	6282	↕ Number of cores for production (auto-set to 80% or 50% of usable cores)
	11000	↕ Max number of cores to be used for CPU intensive jobs
	1000	↕ Max number of cores to be used for I/O intensive jobs
	14850.0	↕ Disk space pledge in TBytes (auto-filled from Rebus if federation is set)
	14850.0	↕ Disk space in TBytes usable by CMS
	14080.0	↕ Disk space in TBytes available for experiment central operations (used by Rucio)
	94.81	↕ Percent of disk space for experiment use (auto-calculated)
	200.0	↕ Disk space in TBytes available for local use (used by Rucio)
	714.00	↕ Disk space in TBytes reserved for /store/unmerged (auto-filled from Rucio)
	44500.0	↕ Tape space pledge in TBytes (auto-filled from Rebus)
	44500.0	↕ Tape space in TBytes usable by CMS
	Update Information (previous update: 2025-Apr-17 15:02:46 by aakhmets)	