Site monitoring

8.Nov.2016
R.Sawada

1. Monitoring report
2. SAM development

[twiki about re-computation request]

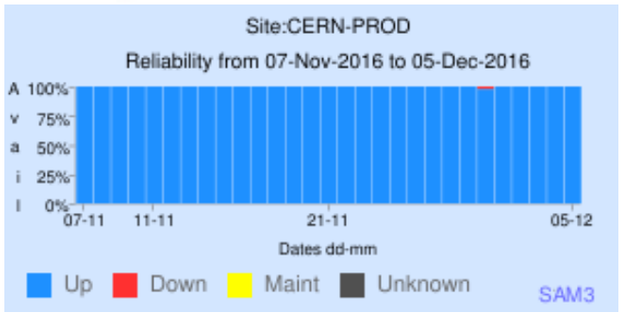
Reliability of WLCG Tier-0 + Tier-1 Sites

ATLAS

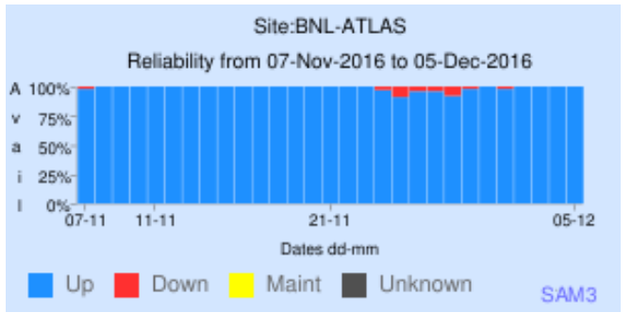
December 2016

Target Reliability for each site is 97.0%.Target for 8 best sites is 98.0%

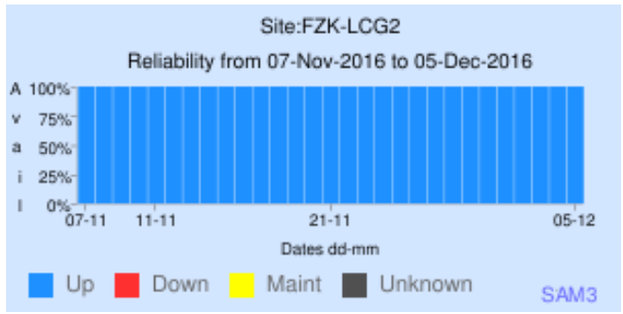
Availability Algorithm: (OSG-CE + CREAM-CE + ARC-CE + HTCONDOR-CE) * (all SRMv2 + all OSG-SRMv2)



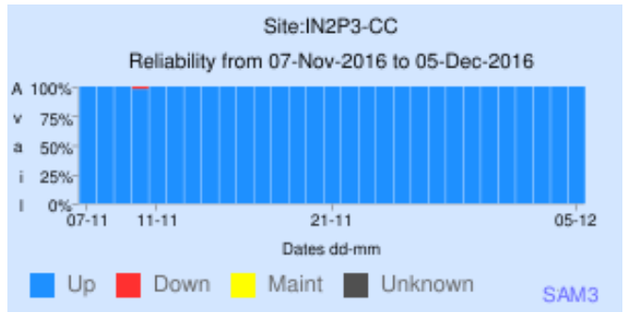
CERN-PROD **Rel: 100%** **Unkn: 0%**



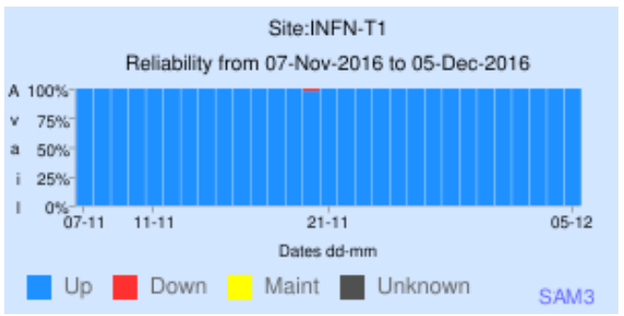
BNL-ATLAS **Rel: 99%** **Unkn: 0%**



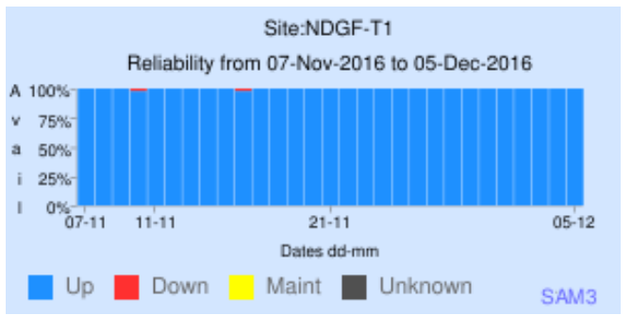
FZK-LCG2 **Rel: 100%** **Unkn: 1%**



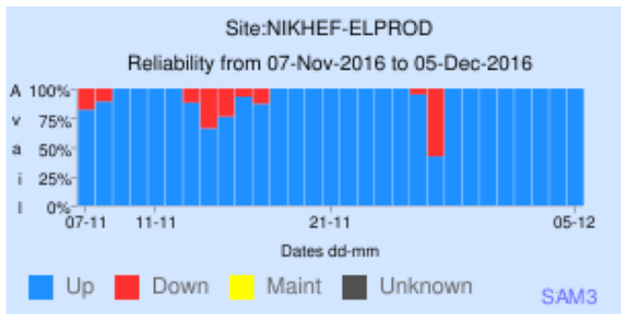
IN2P3-CC **Rel: 100%** **Unkn: 0%**



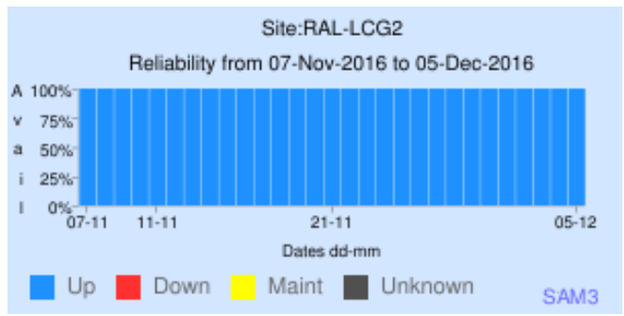
INFN-T1 **Rel: 100%** **Unkn: 0%**



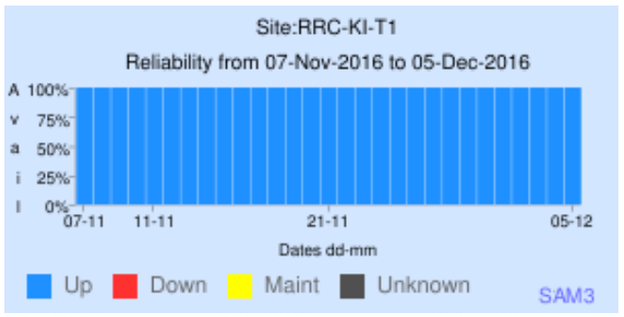
NDGF-T1 **Rel: 100%** **Unkn: 0%**



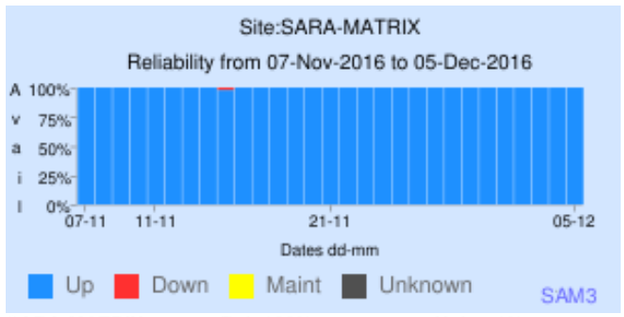
NIKHEF-ELPROD **Rel: 94%** **Unkn: 0%**



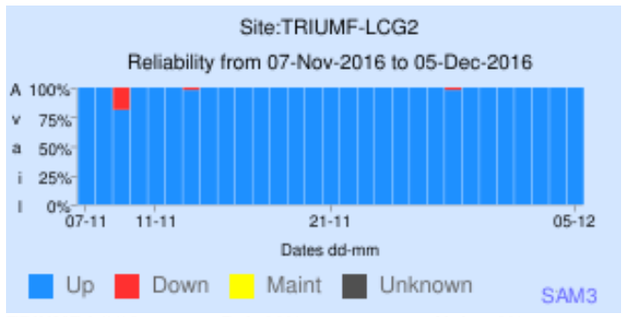
RAL-LCG2 **Rel: 100%** **Unkn: 0%**



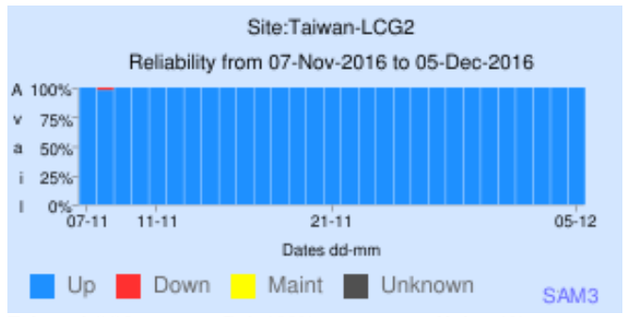
RRC-KI-T1 **Rel: 100%** **Unkn: 2%**



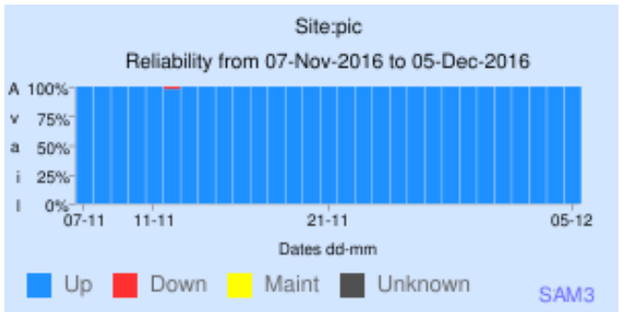
SARA-MATRIX **Rel: 100%** **Unkn: 1%**



TRIUMF-LCG2 **Rel: 99%** **Unkn: 0%**



Taiwan-LCG2 **Rel: 100%** **Unkn: 1%**



pic **Rel: 100%** **Unkn: 0%**

Link

Tier-2 Availability and Reliablity Report

ATLAS

December 2016

Federation Summary - Sorted by Availability

Color coding: N/A <30% <60% <90% >=90%

Availability Algorithm: (OSG-CE + CREAM-CE + ARC-CE + HTCONDOR-CE) * (all SRMv2 + all OSG-SRMv2)

Federation	Availability	Reliability
AU-ATLAS	100%	100%
DE-DESY-RWTH-CMS-T2	100%	100%
ES-ATLAS-T2	100%	100%
FR-IN2P3-CPPM	100%	100%
FR-IN2P3-LPC	100%	100%
IL-HEPTier-2	100%	100%
JP-Tokyo-ATLAS-T2	100%	100%
T2-LATINAMERICA	100%	100%
TW-FTT-T2	100%	100%
US-AGLT2	100%	100%
US-MWT2	100%	100%
FR-IN2P3-LAPP	99%	99%
FR-IN2P3-LPSC	99%	100%
CN-IHEP	98%	98%
IT-INFN-T2	98%	98%
PT-LIP-LCG-Tier2	98%	98%
UK-NorthGrid	98%	98%
UK-SouthGrid	98%	98%
CH-CHIPP-CSCS	97%	97%
CZ-Prague-T2	97%	97%

Federation	Availability	Reliability
SI-SiGNET	97%	98%
TR-Tier2-federation	97%	97%
UK-London-Tier2	96%	97%
DE-FREIBURGWUPPERTAL	95%	95%
FR-GRIF	95%	96%
UK-ScotGrid	94%	94%
RO-LCG	93%	93%
SK-Tier2-Federation	93%	93%
CA-WEST-T2	92%	93%
PL-TIER2-WLCG	92%	96%
SE-SNIC-T2	90%	90%
AT-HEPHY-VIENNA-UIBK	86%	86%
CA-EAST-T2	85%	86%
DE-DESY-GOE-ATLAS-T2	85%	85%
US-SWT2	85%	85%
US-WT2	81%	81%
RU-RDIG	80%	80%
US-NET2	50%	50%
DE-MCAT	49%	50%

Link

Tier-2 A/R

MPPMU is N/A

UNKNOWN: No compatible resource found in BDII

December 2016

Fed			iability	
AU-			98%	
DE-			97%	
ES-			97%	
FR-			95%	
FR-			96%	
IL-H			94%	
JP-			93%	
T2-			93%	
TW			93%	
US-			96%	
US-			90%	
FR-			86%	
FR-			86%	
CN-IHEP	98%	98%	DE-DESY-GOE-ATLAS-T2	85%	85%
IT-INFN-T2	98%	98%	US-SWT2	85%	85%
PT-LIP-LCG-Tier2	98%	98%	US-WT2	81%	81%
UK-NorthGrid	98%	98%	RU-RDIG	80%	80%
UK-SouthGrid	98%	98%	US-NET2	50%	50%
CH-CHIPP-CSCS	97%	97%	DE-MCAT	49%	50%
CZ-Prague-T2	97%	97%			

Link

Tier-2 A/R

HU_ATLAS_Tier2 is N/A

CE Name:	HU_ATLAS_Tier2-CE-net2.rc.fas.harvard.edu
CE endpoint:	net2.rc.fas.harvard.edu:2119
Site:	HU_ATLAS_Tier2
Job Manager:	SLURM
Flavour:	HTCONDOR-CE
Version:	
Status:	production
State:	ACTIVE
State updated:	2014-02-04 18:40
State comment:	automatically collected from GOCDB/OIM source
is_monitored:	False

December 2016

Fed			iability	
AU-			98%	
DE-			97%	
ES-			97%	
FR-			95%	
FR-			96%	
IL-H			94%	
JP-			93%	
T2-			93%	
TW			93%	
US-			96%	
US-			90%	
FR-			86%	
FR-			86%	
CN-IHEP	98%	98%	85%	85%
IT-INFN-T2	98%	98%	85%	85%
PT-LIP-LCG-Tier2	98%	98%	81%	81%
UK-NorthGrid	98%	98%	80%	80%
UK-SouthGrid	98%	98%	50%	50%
CH-CHIPP-CSCS	97%	97%	49%	50%
CZ-Prague-T2	97%	97%		
DE-DESY-GOE-ATLAS-T2				
US-SWT2				
US-WT2				
RU-RDIG				
US-NET2				
DE-MCAT				

Link

Reminder : Queue selection for SAM

- Currently a queue for the SAM test is selected by BDII “randomly”
  - Un-wanted queues can be selected
    - Example : SAM uses a small queue which causes a problem in a site.

- We proposed to define our algorithms for selecting queues for SAM tests.
  - A conclusion in an ADC weekly meeting was to select queues with pq_is_default=1& pq_capability=score.

A test in pre-production

- We implemented the selection (pq_is_default=1& pq_capability=score) and the new probe works as designed in the pre-production.
- However we found many CEs (~10%) are not tested because they don't have any selected queues by the algorithm.
  - Those services are used selectively for ancillary and test jobs.
- Alternative way to fix the problem
  - Add a new flag "etf_default" for queues (instead of making complicated algorithms with existing flags)
    - Pick a queue with etf_default=true
    - If such a queue is not found,
      - pick a random one
      - submit without specifying a queue (then selected by BDII for now)

A possible produce to introduce the new flag

- Add a new flag in AGIS
  - Set etf_default=1 for queues with pq_is_default=1& pq_capability=score
  - If such a queue is not found, we ask site admins to specify a queue to be used for SAM
    - We select a queue with the algorithm written in the previous page until a site admin specify a queue.

- A question : Set the new flag centrally or by each site admins ?

VOfeed

- A new VOfeed API (atp2) was prepared with different URL from the existing one (atp)
  .
  - Support queue selection
  - Contains also SEs with HTTP and XROOTD protocols
  - Some flavor names were changed (on purpose ?): backward incompatible
- Questions
  - Are we going to keep two versions ?

VOfeed : If we will keep only one vofeed

- We need to migrate. And there are two options.
  - Everyone change the url in the client software
  - Assign the existing URL to the new API. (When it happens ,clients will use the new API automatically.)

- My opinion about the migration procedure
  - Modify the API to solve the naming compatibility issue in the server side
  - Keep the two APIs until we confirm all the entries in the old API are contained in new API.
  - Assign the existing URL to the new API.

Summary

- Site monitoring
  - Two sites with low A/R are both due to monitoring problems; not actual problems of the production.
- New SAM probe with queue selection is being tested
  - A part of services don’t have a selected queue
  - Adding a new flag to specify the queue for SAM seems a simple and safe solution
- New vofeed
  - We need to decide how we treat vofeed
    - Keep both, or drop one
    - How to migrate if we will drop one.
    - Backward compatibility (flavor name issue)

Back up

(Previous report)

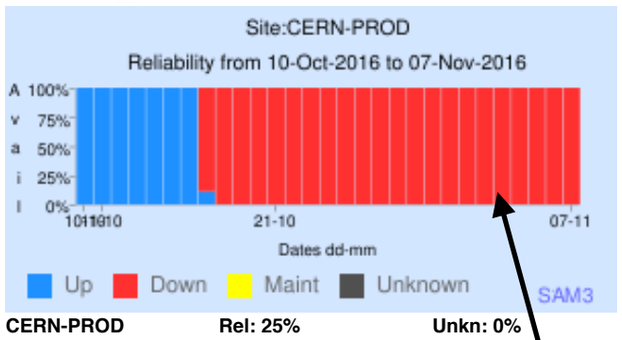
Reliability of WLCG Tier-0 + Tier-1 Sites

ATLAS

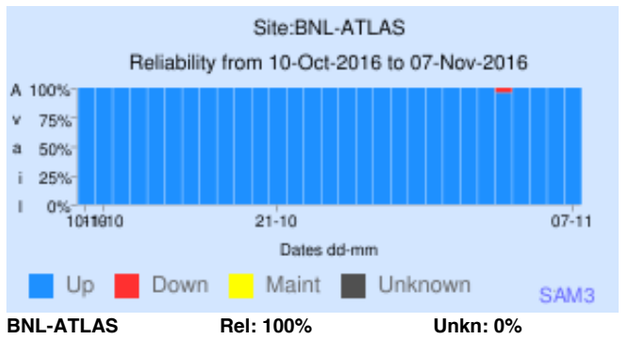
November 2016

Target Reliability for each site is 97.0%.Target for 8 best sites is 98.0%

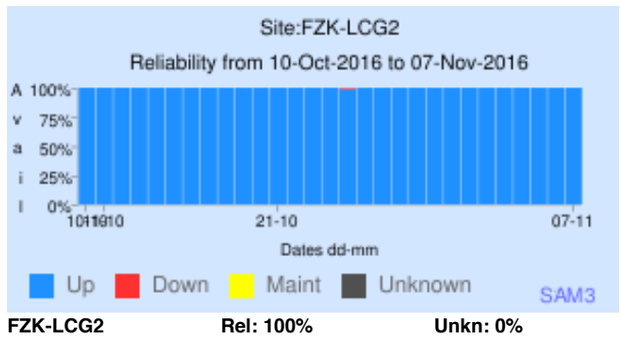
Availability Algorithm: (OSG-CE + CREAM-CE + ARC-CE + HTCONDOR-CE) * (all SRMv2 + all OSG-SRMv2)



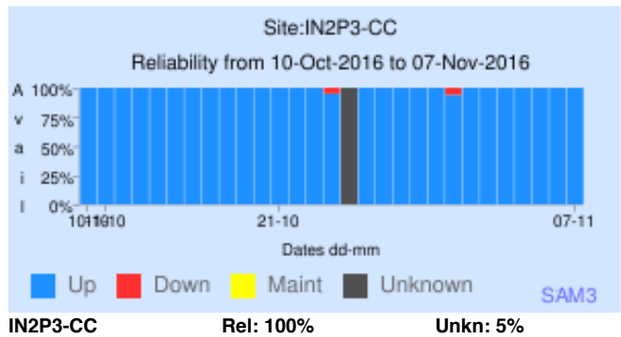
CERN-PROD **Rel: 25%** **Unkn: 0%**



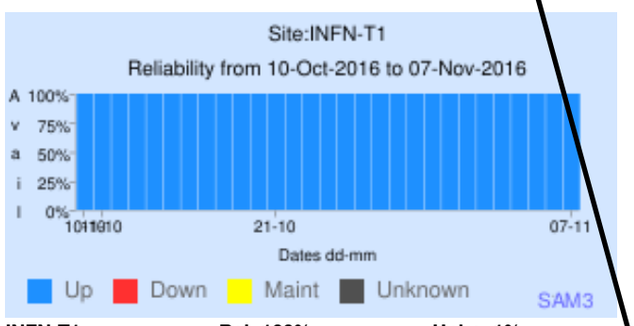
BNL-ATLAS **Rel: 100%** **Unkn: 0%**



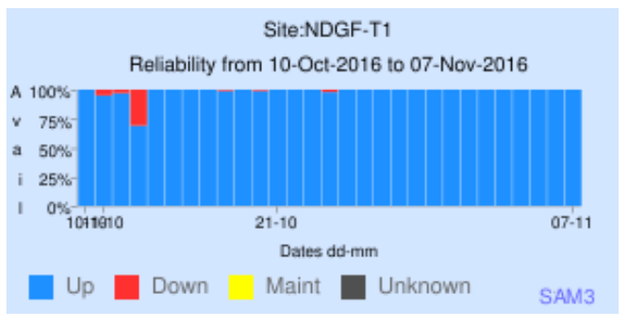
FZK-LCG2 **Rel: 100%** **Unkn: 0%**



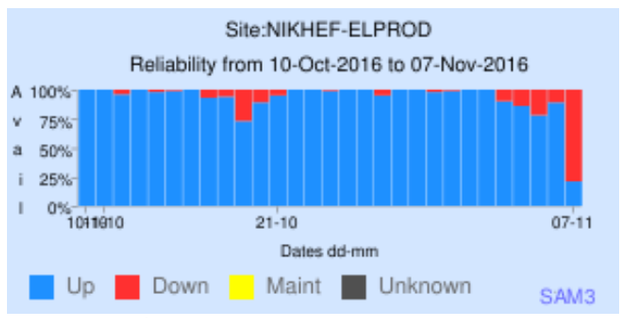
IN2P3-CC **Rel: 100%** **Unkn: 5%**



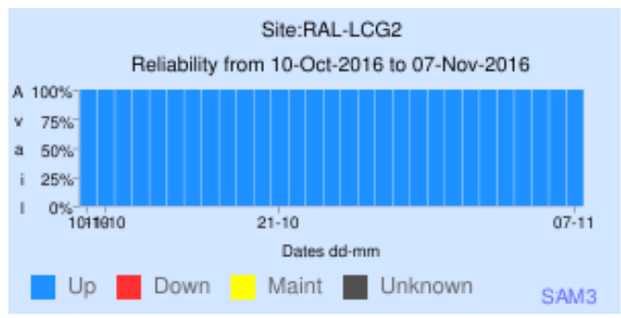
INFN-T1 **Rel: 100%** **Unkn: 1%**



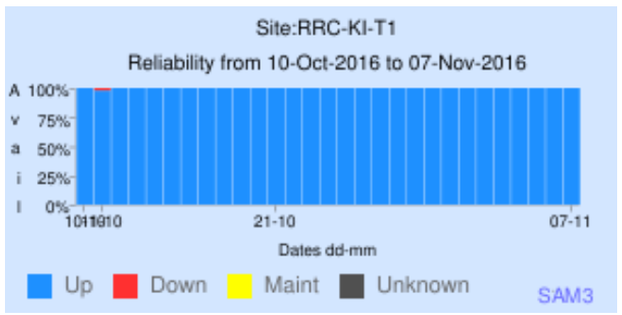
NDGF-T1 **Rel: 99%** **Unkn: 0%**



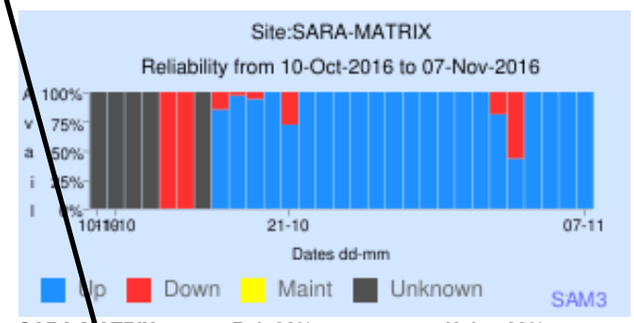
NIKHEF-ELPROD **Rel: 93%** **Unkn: 0%**



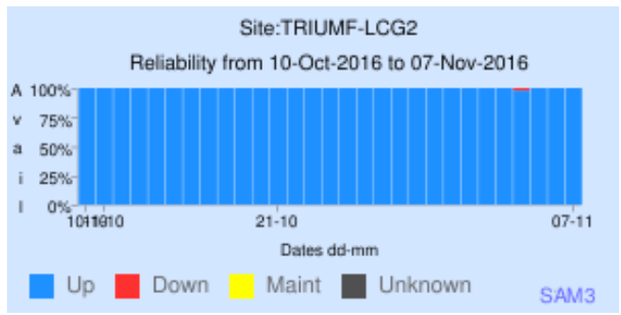
RAL-LCG2 **Rel: 100%** **Unkn: 4%**



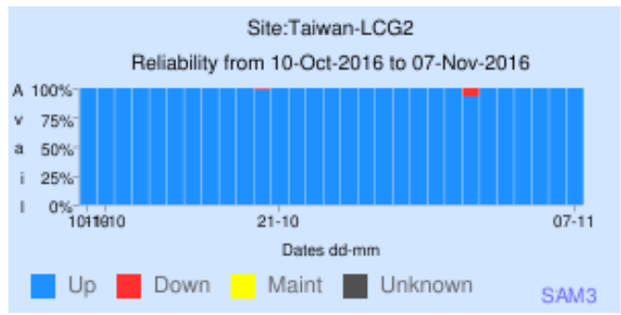
RRC-KI-T1 **Rel: 100%** **Unkn: 1%**



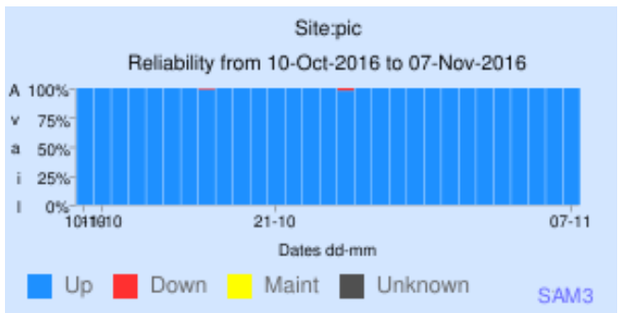
SARA-MATRIX **Rel: 86%** **Unkn: 23%**



TRIUMF-LCG2 **Rel: 100%** **Unkn: 0%**



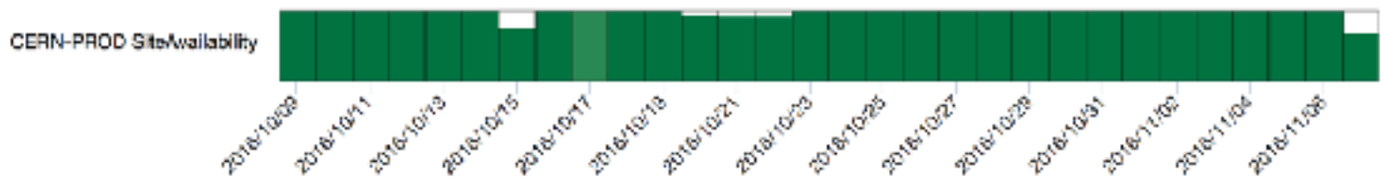
Taiwan-LCG2 **Rel: 100%** **Unkn: 1%**



pic **Rel: 100%** **Unkn: 0%**

SRM-DEL is failing (GET and PUT ok)
with permission error.
A ticket submitted.

ASAP looks OK



Link

Tier-2 Availability and Reliablity Report

ATLAS

October 2016

Federation Summary - Sorted by Availability

Color coding: N/A <30% <60% <90% >=90%

Availability Algorithm: (OSG-CE + CREAM-CE + ARC-CE + HTCONDOR-CE) * (all SRMv2 + all OSG-SRMv2)

Federation	Availability	Reliability
CH-CHIPP-CSCS	100%	100%
DE-DESY-RWTH-CMS-T2	100%	100%
FR-IN2P3-CPPM	100%	100%
FR-IN2P3-LPC	100%	100%
TW-FTT-T2	100%	100%
UK-NorthGrid	100%	100%
UK-ScotGrid	100%	100%
CA-WEST-T2	99%	99%
CN-IHEP	99%	99%
ES-ATLAS-T2	99%	99%
FR-GRIF	99%	99%
FR-IN2P3-LPSC	99%	99%
US-MWT2	99%	99%
IL-HEPTier-2	98%	98%
IT-INFN-T2	98%	98%
AU-ATLAS	97%	97%
CZ-Prague-T2	97%	97%
DE-DESY-GOE-ATLAS-T2	97%	97%
PT-LIP-LCG-Tier2	95%	95%
SI-SiGNET	95%	95%

Federation	Availability	Reliability
US-NET2	95%	95%
T2-LATINAMERICA	94%	94%
UK-SouthGrid	94%	94%
FR-IN2P3-LAPP	93%	93%
SE-SNIC-T2	93%	93%
UK-London-Tier2	93%	93%
US-AGLT2	93%	93%
DE-MCAT	91%	92%
JP-Tokyo-ATLAS-T2	91%	100%
DE-FREIBURGWUPPERTAL	89%	89%
RO-LCG	88%	88%
CA-EAST-T2	86%	88%
PL-TIER2-WLCG	86%	86%
RU-RDIG	82%	82%
SK-Tier2-Federation	81%	81%
US-WT2	79%	79%
US-SWT2	71%	71%
AT-HEPHY-VIENNA-UIBK	56%	56%
TR-Tier2-federation	24%	24%

Link