



Availability of WLCG Tier-1 Sites + CERN for OPS

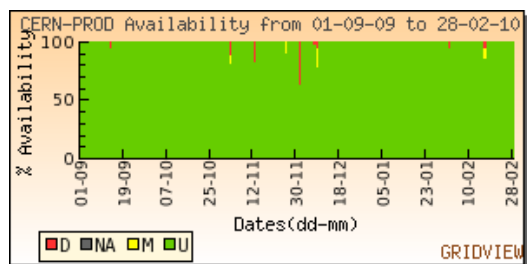
September 2009 - February 2010

Data from SAM and Gridview

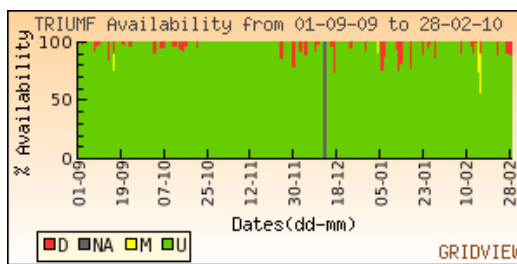
Plots show Availability for last 6 Months

Availability is calculated as $\text{uptime} / (\text{total_time} - \text{time_status_was_UNKNOWN})$

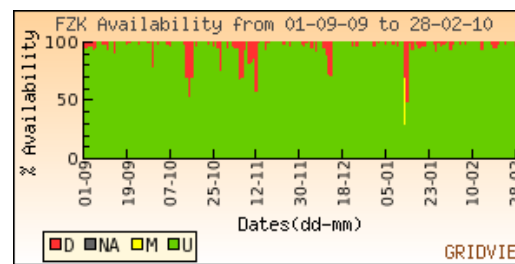
Target reliability for each site is 97 % and Target for 8 best sites is 98 % from January, 2009



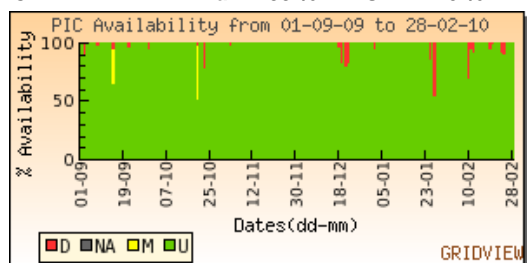
CERN Avail : 99 % Unkn : 0 %



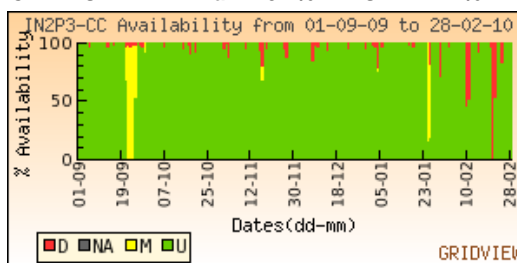
CA-TRIUMF Avail : 97 % Unkn : 1 %



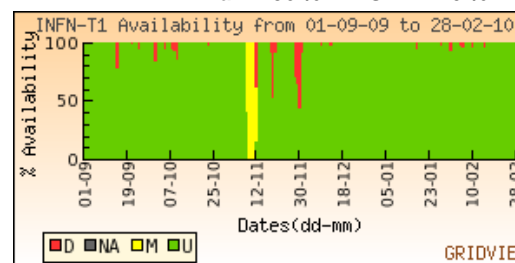
DE-KIT Avail : 96 % Unkn : 0 %



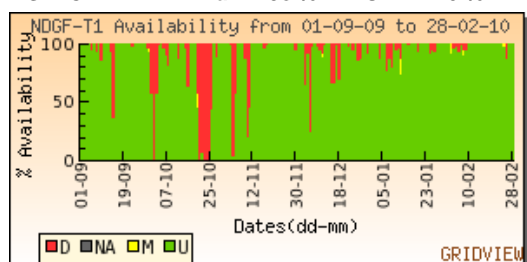
ES-PIC Avail : 98 % Unkn : 0 %



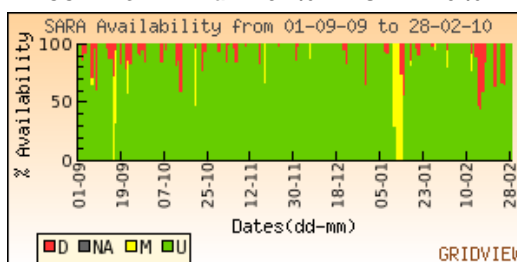
FR-CCIN2P3 Avail : 94 % Unkn : 0 %



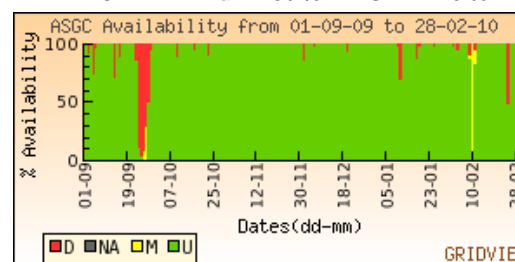
IT-INFN-CNAF Avail : 96 % Unkn : 0 %



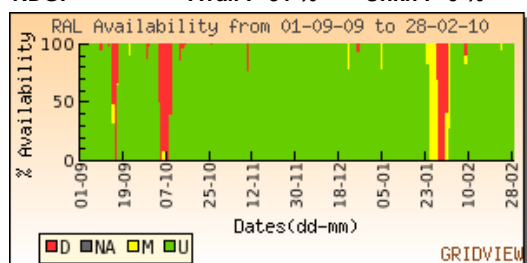
NDGF Avail : 91 % Unkn : 0 %



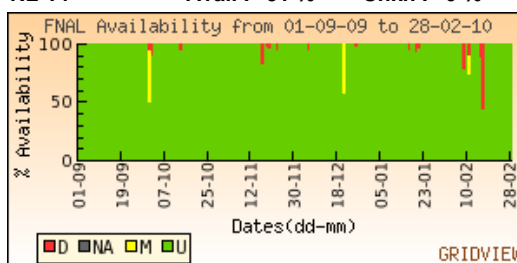
NL-T1 Avail : 91 % Unkn : 0 %



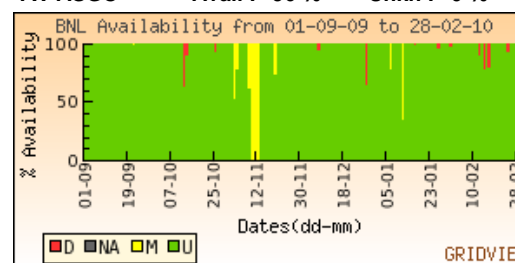
TW-ASGC Avail : 96 % Unkn : 0 %



UK-T1-RAL Avail : 90 % Unkn : 0 %



US-FNAL-CMS Avail : 99 % Unkn : 1 %



US-T1-BNL Avail : 96 % Unkn : 2 %



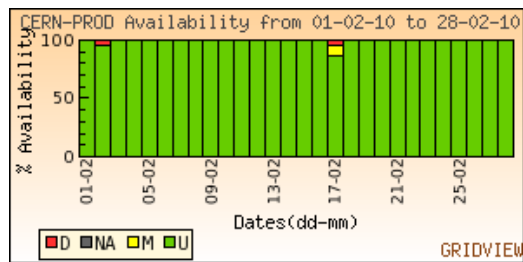
Availability of WLCG Tier-1 Sites + CERN for OPS

February 2010

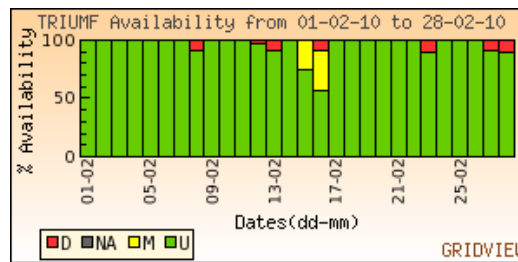
Data from SAM and Gridview

Availability is calculated as $\text{uptime} / (\text{total_time} - \text{time_status_was_UNKNOWN})$

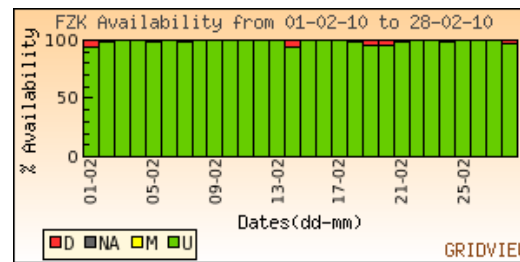
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



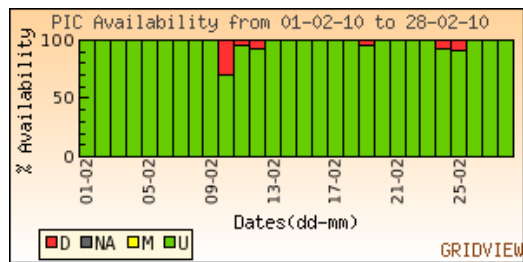
CERN Avail : 99 % Unkn : 0 %



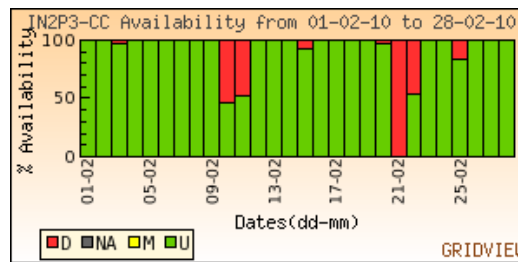
CA-TRIUMF Avail : 96 % Unkn : 0 %



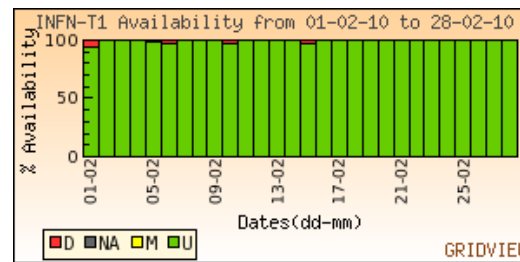
DE-KIT Avail : 99 % Unkn : 0 %



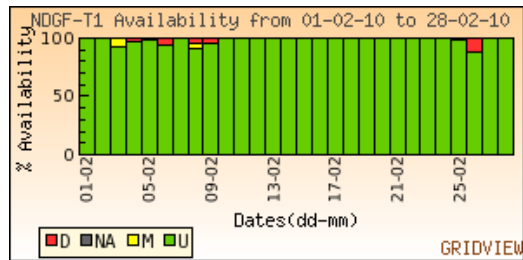
ES-PIC Avail : 98 % Unkn : 0 %



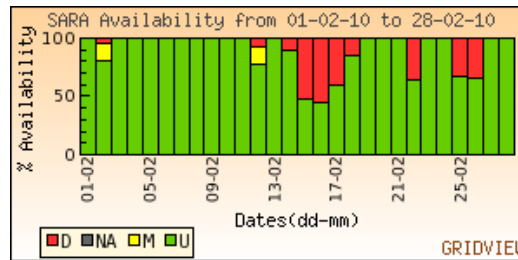
FR-CCIN2P3 Avail : 90 % Unkn : 0 %



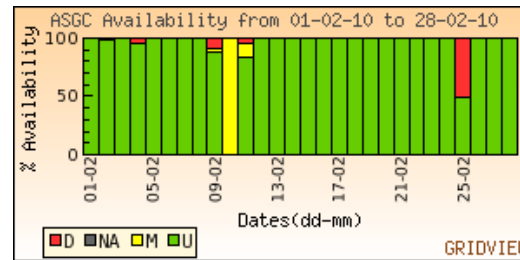
IT-INFN-CNAF Avail : 99 % Unkn : 0 %



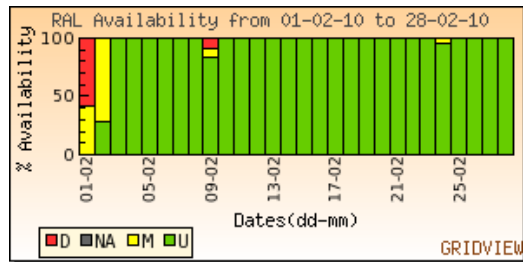
NDGF Avail : 98 % Unkn : 0 %



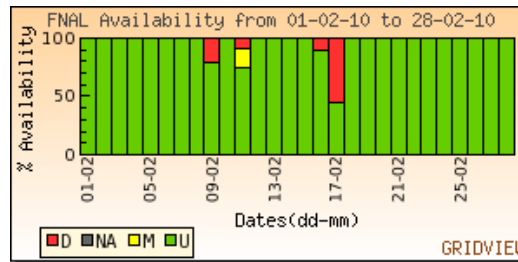
NL-T1 Avail : 89 % Unkn : 0 %



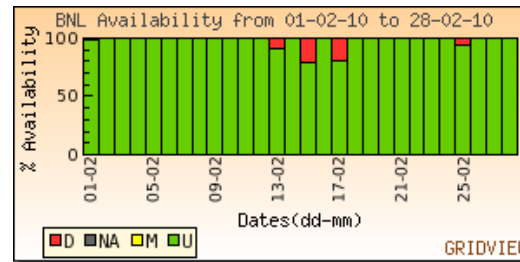
TW-ASGC Avail : 93 % Unkn : 0 %



UK-T1-RAL Avail : 93 % Unkn : 0 %



US-FNAL-CMS Avail : 96 % Unkn : 0 %



US-T1-BNL Avail : 98 % Unkn : 1 %



Service Availability Data for WLCG Tier-1s + CERN for OPS

February 2010

Data from SAM and Gridview

Reliability = uptime / (total_time - scheduled_downtime - time_status_was_UNKNOWN) **Availability** = uptime / (total_time - time_status_was_UNKNOWN)

Target reliability for each site is 97 % and Target for 8 best sites is 98 %

Availability

Colour Coding Limits :

>= TARGET: 97 %

90% OF TARGET:

87 %

Unkn : Unknown

Date	CA-TRIUMF		CERN		DE-KIT		ES-PIC		FR-CCIN2P3		IT-INFN-CNAF		NDGF		NL-T1		TW-ASGC		UK-T1-RAL		US-FNAL-CMS		US-T1-BNL		Average	
	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn
01/02/2010	100	0	100	0	94	0	100	0	100	0	94	0	100	0	100	0	100	0	0	0	100	0	98	8	91	1
02/02/2010	100	0	96	0	99	0	100	0	100	0	100	0	100	0	81	0	99	0	28	0	100	0	100	0	92	0
03/02/2010	100	0	100	0	100	0	100	0	97	0	100	0	93	0	100	0	100	0	100	0	100	0	100	0	99	0
04/02/2010	100	0	100	0	100	0	100	0	100	0	100	0	97	0	100	0	95	0	100	0	100	0	100	0	99	0
05/02/2010	100	0	100	0	99	0	100	0	100	0	99	0	99	0	100	0	100	0	100	0	100	0	100	0	100	0
06/02/2010	100	0	100	0	100	0	100	0	100	0	96	0	94	0	100	0	100	0	100	0	100	0	100	0	99	0
07/02/2010	100	0	100	0	98	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
08/02/2010	91	0	100	0	100	0	100	0	100	0	100	0	91	0	100	0	100	0	100	0	100	0	100	0	99	0
09/02/2010	100	0	100	0	100	0	100	0	100	0	100	0	96	0	100	0	88	0	84	0	80	0	100	0	96	0
10/02/2010	100	0	100	0	100	0	71	0	47	0	98	0	100	0	100	0	0	0	100	0	100	0	100	0	85	0
11/02/2010	100	0	100	0	100	0	95	0	53	0	100	0	100	0	100	0	83	0	100	0	74	0	100	0	92	0
12/02/2010	97	0	100	0	100	0	93	0	100	0	100	0	100	0	78	0	100	0	100	0	100	0	100	0	97	0
13/02/2010	90	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	92	0	99	0
14/02/2010	99	0	100	0	94	0	100	0	100	0	100	0	100	0	90	0	100	0	100	0	100	0	100	0	99	0
15/02/2010	75	0	100	0	100	0	100	0	92	0	98	0	100	0	48	0	100	0	100	0	100	0	79	0	91	0
16/02/2010	57	0	100	0	100	0	100	0	100	0	100	0	100	0	44	0	100	0	100	0	90	0	100	0	91	0
17/02/2010	100	0	86	0	100	0	100	0	100	0	100	0	100	0	60	0	100	0	100	0	44	0	81	4	89	0
18/02/2010	100	0	100	0	99	0	100	0	100	0	100	0	100	0	84	0	100	0	100	0	100	11	100	0	99	1
19/02/2010	100	0	100	0	96	0	96	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
20/02/2010	100	0	100	0	95	0	100	0	97	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
21/02/2010	100	0	100	0	98	0	100	0	0	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	91	0
22/02/2010	100	0	100	0	100	0	100	0	53	0	100	0	100	0	64	0	100	0	100	0	100	0	100	0	93	0
23/02/2010	89	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
24/02/2010	100	0	100	0	98	0	92	0	100	0	100	0	100	0	100	0	100	0	96	0	100	0	100	0	99	0
25/02/2010	100	0	100	0	100	0	91	0	84	0	100	0	98	0	67	0	49	0	100	0	100	0	94	8	90	1
26/02/2010	100	0	100	0	100	0	100	0	100	0	100	0	88	0	66	0	100	0	100	0	100	0	100	0	96	0
27/02/2010	92	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	4	99	0
28/02/2010	89	0	100	0	97	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
Average	96	0	99	0	99	0	98	0	90	0	99	0	98	0	89	0	93	0	93	0	96	0	98	1	96	0

Average Availability for all sites: 96 %

Average Availability for 8 best sites : 98 %



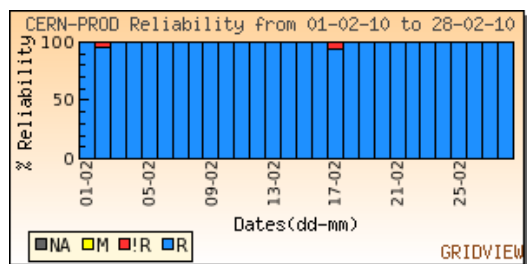
Reliability of WLCG Tier-1 Sites + CERN for OPS

February 2010

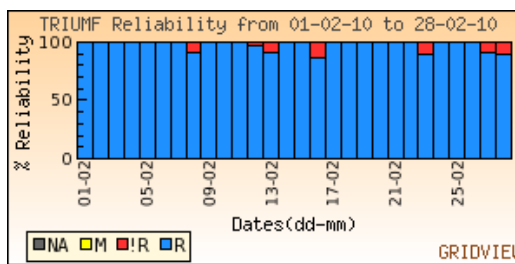
Data from SAM and Gridview

Reliability is calculated as $\text{uptime} / (\text{total_time} - \text{scheduled_downtime} - \text{time_status_was_UNKNOWN})$

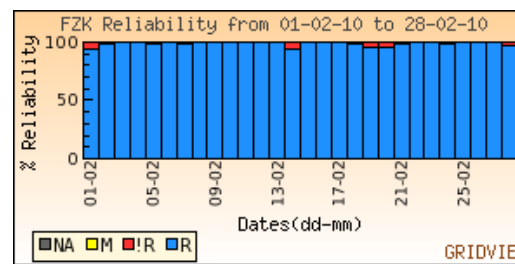
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



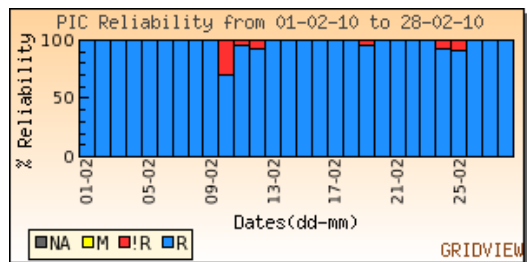
CERN Rel: 100 %



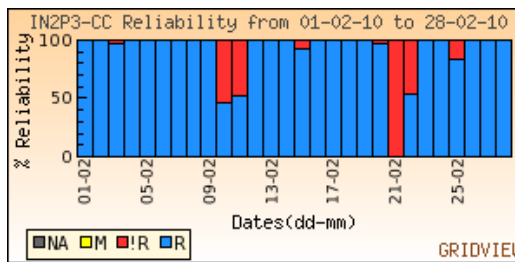
CA-TRIUMF Rel: 98 %



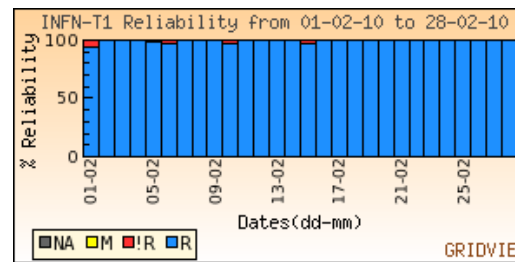
DE-KIT Rel: 99 %



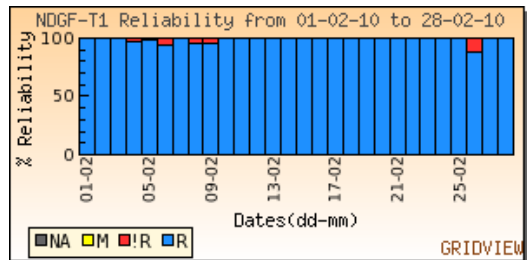
ES-PIC Rel: 98 %



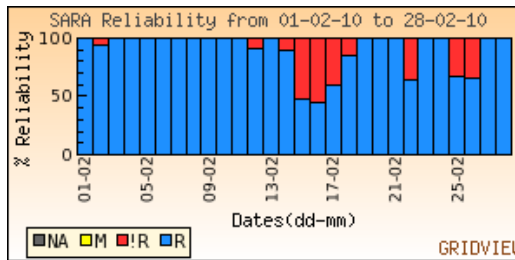
FR-CCIN2P3 Rel: 90 %



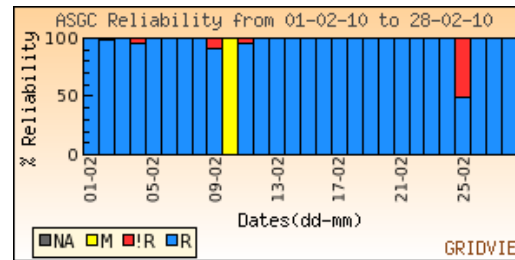
IT-INFN-CNAF Rel: 99 %



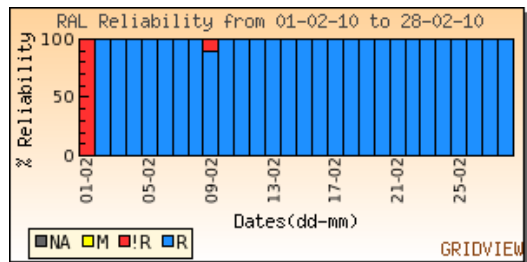
NDGF Rel: 99 %



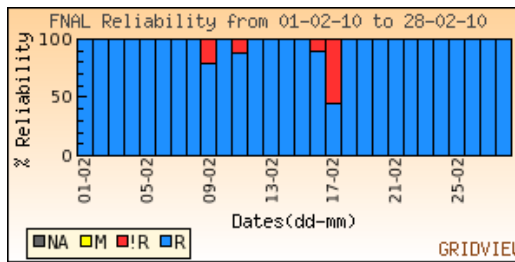
NL-T1 Rel: 90 %



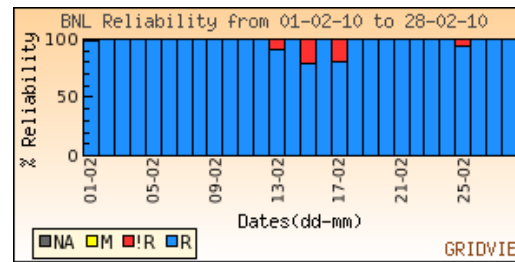
TW-ASGC Rel: 97 %



UK-T1-RAL Rel: 97 %



US-FNAL-CMS Rel: 97 %



US-T1-BNL Rel: 98 %



Service Availability Data for WLCG Tier-1s + CERN for OPS

February 2010

Data from SAM and Gridview

Reliability = uptime / (total_time - scheduled_downtime - time_status_was_UNKNOWN) **Availability** = uptime / (total_time - time_status_was_UNKNOWN)

Target reliability for each site is 97 % and Target for 8 best sites is 98 %

Reliability

Colour Coding Limits :

>= TARGET: 97 %

90% OF TARGET: 87 %

Date	CA-TRIUMF	CERN	DE-KIT	ES-PIC	FR-CCIN2P3	IT-INFN-CNAF	NDGF	NL-T1	TW-ASGC	UK-T1-RAL	US-FNAL	US-T1-BNL	Average Reliability
01/02/2010	100 %	100 %	94 %	100 %	100 %	94 %	100 %	100 %	100 %	0 %	100 %	98 %	94 %
02/02/2010	100 %	96 %	99 %	100 %	100 %	100 %	100 %	94 %	99 %	100 %	100 %	100 %	99 %
03/02/2010	100 %	100 %	100 %	100 %	97 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
04/02/2010	100 %	100 %	100 %	100 %	100 %	100 %	97 %	100 %	95 %	100 %	100 %	100 %	99 %
05/02/2010	100 %	100 %	99 %	100 %	100 %	99 %	99 %	100 %	100 %	100 %	100 %	100 %	100 %
06/02/2010	100 %	100 %	100 %	100 %	100 %	96 %	94 %	100 %	100 %	100 %	100 %	100 %	99 %
07/02/2010	100 %	100 %	98 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
08/02/2010	91 %	100 %	100 %	100 %	100 %	100 %	95 %	100 %	100 %	100 %	100 %	100 %	99 %
09/02/2010	100 %	100 %	100 %	100 %	100 %	100 %	96 %	100 %	91 %	90 %	80 %	100 %	96 %
10/02/2010	100 %	100 %	100 %	71 %	47 %	98 %	100 %	100 %	N/A	100 %	100 %	100 %	92 %
11/02/2010	100 %	100 %	100 %	95 %	53 %	100 %	100 %	100 %	95 %	100 %	89 %	100 %	94 %
12/02/2010	97 %	100 %	100 %	93 %	100 %	100 %	100 %	91 %	100 %	100 %	100 %	100 %	99 %
13/02/2010	90 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	92 %	99 %
14/02/2010	99 %	100 %	94 %	100 %	100 %	100 %	100 %	90 %	100 %	100 %	100 %	100 %	99 %
15/02/2010	100 %	100 %	100 %	100 %	92 %	98 %	100 %	48 %	100 %	100 %	100 %	79 %	93 %
16/02/2010	86 %	100 %	100 %	100 %	100 %	100 %	100 %	44 %	100 %	100 %	90 %	100 %	94 %
17/02/2010	100 %	94 %	100 %	100 %	100 %	100 %	100 %	60 %	100 %	100 %	44 %	81 %	90 %
18/02/2010	100 %	100 %	99 %	100 %	100 %	100 %	100 %	84 %	100 %	100 %	100 %	100 %	99 %
19/02/2010	100 %	100 %	96 %	96 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
20/02/2010	100 %	100 %	95 %	100 %	97 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
21/02/2010	100 %	100 %	98 %	100 %	0 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	91 %
22/02/2010	100 %	100 %	100 %	100 %	53 %	100 %	100 %	64 %	100 %	100 %	100 %	100 %	93 %
23/02/2010	89 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
24/02/2010	100 %	100 %	98 %	92 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
25/02/2010	100 %	100 %	100 %	91 %	84 %	100 %	100 %	67 %	49 %	100 %	100 %	94 %	90 %
26/02/2010	100 %	100 %	100 %	100 %	100 %	100 %	88 %	66 %	100 %	100 %	100 %	100 %	96 %
27/02/2010	92 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
28/02/2010	89 %	100 %	97 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
Average	98 %	100 %	99 %	98 %	90 %	99 %	99 %	90 %	97 %	97 %	97 %	98 %	97 %

Average Reliability for all sites: 97 %

Average Reliability for 8 best sites 98 %



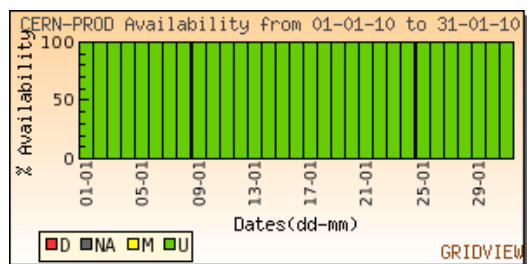
Availability of WLCG Tier-1 Sites + CERN for OPS

January 2010

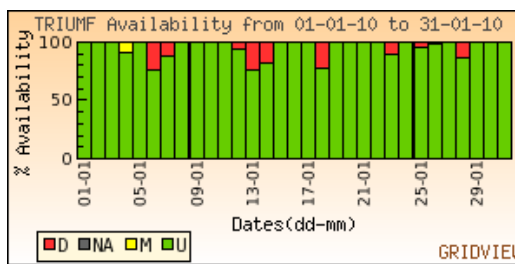
Data from SAM and Gridview

Availability is calculated as $\text{uptime} / (\text{total_time} - \text{time_status_was_UNKNOWN})$

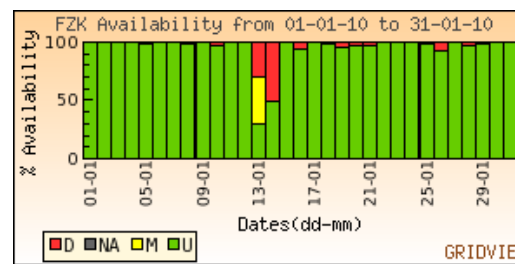
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



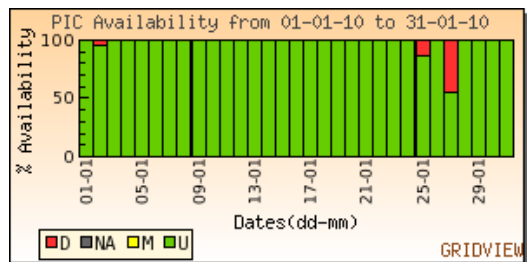
CERN Avail : 100 % Unkn : 0 %



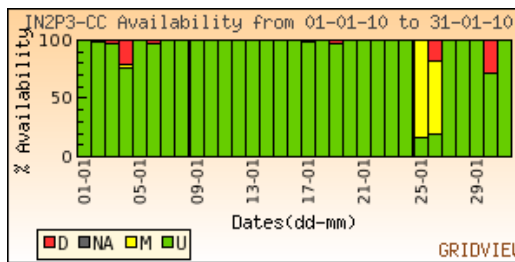
CA-TRIUMF Avail : 95 % Unkn : 0 %



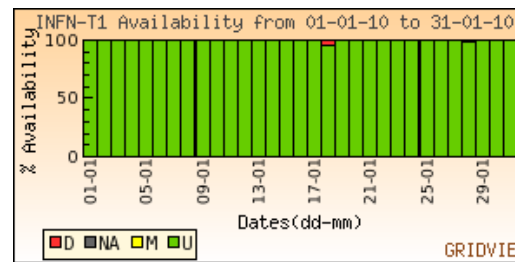
DE-KIT Avail : 95 % Unkn : 0 %



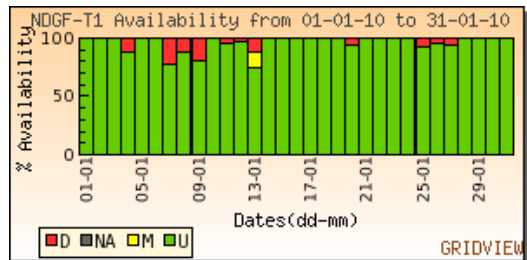
ES-PIC Avail : 98 % Unkn : 0 %



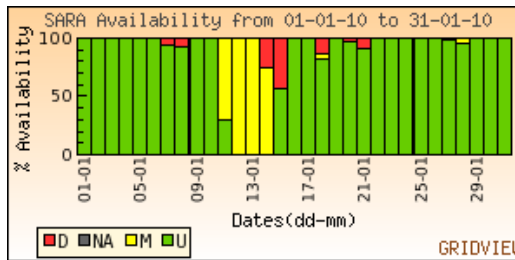
FR-CCIN2P3 Avail : 93 % Unkn : 0 %



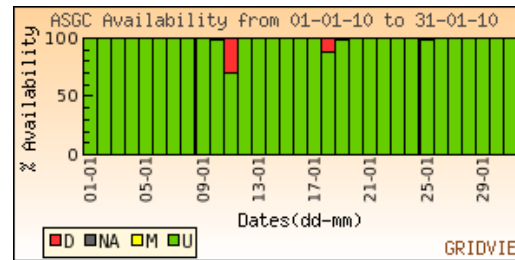
IT-INFN-CNAF Avail : 100 % Unkn : 0 %



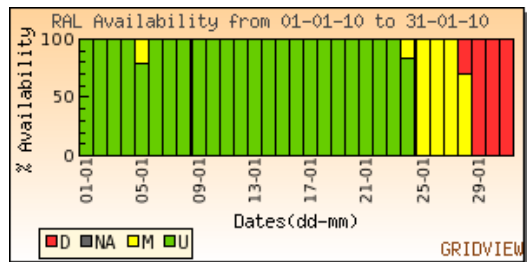
NDGF Avail : 96 % Unkn : 0 %



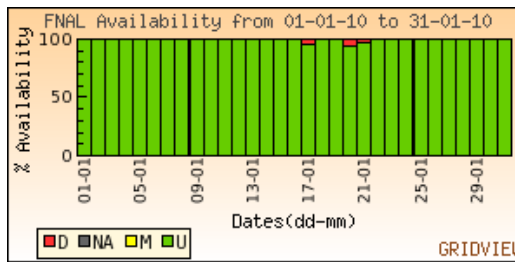
NL-T1 Avail : 85 % Unkn : 0 %



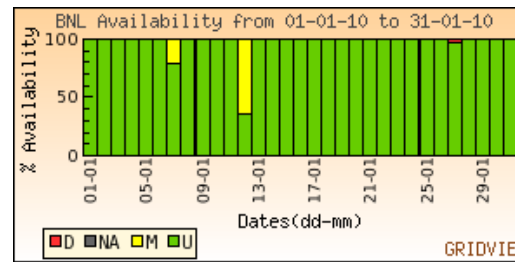
TW-ASGC Avail : 99 % Unkn : 0 %



UK-T1-RAL Avail : 76 % Unkn : 0 %



US-FNAL-CMS Avail : 100 % Unkn : 4 %



US-T1-BNL Avail : 97 % Unkn : 4 %



Service Availability Data for WLCG Tier-1s + CERN for OPS

January 2010

Data from SAM and Gridview

Reliability = uptime / (total_time - scheduled_downtime - time_status_was_UNKNOWN) **Availability** = uptime / (total_time - time_status_was_UNKNOWN)

Target reliability for each site is 97 % and Target for 8 best sites is 98 %

Availability

Colour Coding Limits :

>= TARGET: 97 %

90% OF TARGET:

87 %

Unkn : Unknown

Date	CA-TRIUMF		CERN		DE-KIT		ES-PIC		FR-CCIN2P3		IT-INFN-CNAF		NDGF		NL-T1		TW-ASGC		UK-T1-RAL		US-FNAL-CMS		US-T1-BNL		Average	
	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn
01/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
02/01/2010	100	0	100	0	99	0	96	0	98	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
03/01/2010	100	0	100	0	100	0	100	0	96	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
04/01/2010	92	0	100	0	100	0	100	0	76	0	100	0	88	0	100	0	100	0	100	0	100	0	100	0	96	0
05/01/2010	100	0	100	0	98	0	100	0	100	0	100	0	100	0	100	0	100	0	79	0	100	0	100	0	98	0
06/01/2010	76	0	100	0	100	0	100	0	98	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	98	0
07/01/2010	88	0	100	0	100	0	100	0	100	0	100	0	78	0	94	0	100	0	100	0	100	0	79	0	95	0
08/01/2010	100	0	100	0	98	0	100	0	100	0	100	0	88	0	93	0	100	0	100	0	100	0	100	0	98	0
09/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	81	0	100	0	100	0	100	0	100	0	100	0	98	0
10/01/2010	100	0	100	0	97	0	100	0	100	0	100	0	100	0	100	0	98	0	100	0	100	0	100	0	100	0
11/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	95	0	29	0	70	0	100	0	100	0	100	0	91	0
12/01/2010	94	0	100	0	100	0	100	0	100	0	100	0	97	0	0	0	100	0	100	0	100	0	35	3	86	0
13/01/2010	76	0	100	0	29	0	100	0	100	0	100	0	75	0	0	0	100	0	100	0	100	81	100	97	78	15
14/01/2010	83	0	100	0	50	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	100	0	100	0	86	0
15/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	57	0	100	0	100	0	100	17	100	0	96	1
16/01/2010	100	0	100	0	93	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
17/01/2010	100	0	100	0	100	0	100	0	98	0	100	0	100	0	100	0	100	0	100	0	96	0	100	18	99	1
18/01/2010	78	0	100	0	99	0	100	0	100	0	96	0	100	0	83	0	88	0	100	0	100	0	100	0	95	0
19/01/2010	100	0	100	0	95	0	100	0	97	0	100	0	100	0	100	0	98	0	100	0	100	0	100	0	99	0
20/01/2010	100	0	100	0	96	0	100	0	100	0	100	0	94	0	98	0	100	0	100	0	94	12	100	0	99	1
21/01/2010	100	0	100	0	97	0	100	0	100	0	100	0	100	0	91	0	100	0	100	0	97	11	100	0	99	1
22/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
23/01/2010	90	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
24/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	83	0	100	0	100	0	99	0
25/01/2010	96	0	100	0	99	0		0	17	0	100	0	93	0	100	0	99	0	0	0	100	8	100	5	82	1
26/01/2010	98	0	100	0	93	0	100	0	20	0	100	0	95	0	100	0	100	0	0	0	100	0	100	0	84	0
27/01/2010	100	0	100	0	100	0	56	0	100	0	100	0	94	0	98	0	100	0	0	0	100	0	98	2	87	0
28/01/2010	86	0	100	0	97	0	100	0	100	0	98	0	100	0	96	0	100	0	0	0	100	0	100	8	90	1
29/01/2010	100	0	100	0	98	0	100	0	100	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	92	0
30/01/2010	100	0	100	0	100	0	100	0	72	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	89	0
31/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	92	0
Average	95	0	100	0	95	0	98	0	93	0	100	0	96	0	85	0	99	0	76	0	100	4	97	4	94	1

Average Availability for all sites: 94 %

Average Availability for 8 best sites : 98 %



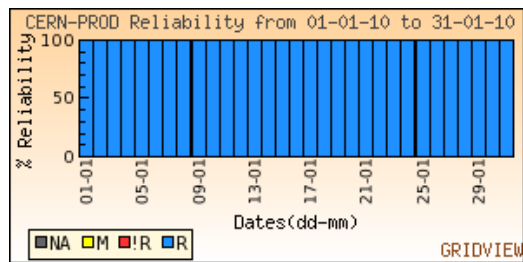
Reliability of WLCG Tier-1 Sites + CERN for OPS

January 2010

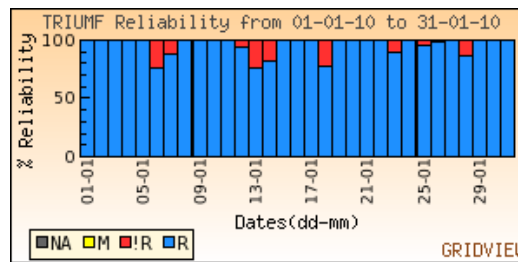
Data from SAM and Gridview

Reliability is calculated as $\text{uptime} / (\text{total_time} - \text{scheduled_downtime} - \text{time_status_was_UNKNOWN})$

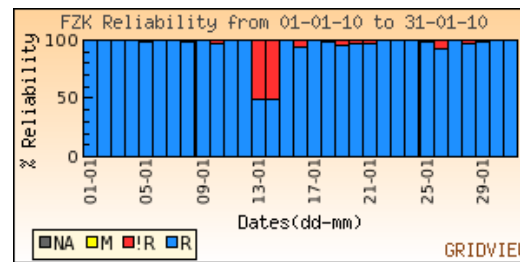
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



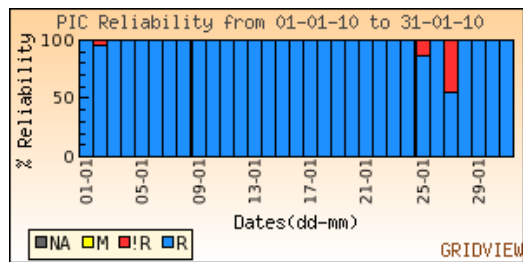
CERN Rel: 100 %



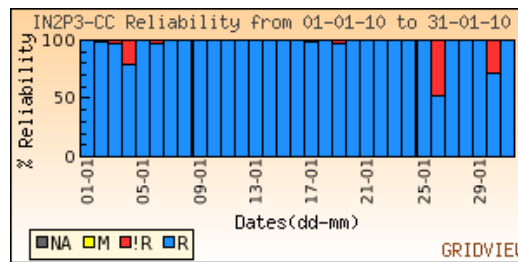
CA-TRIUMF Rel: 96 %



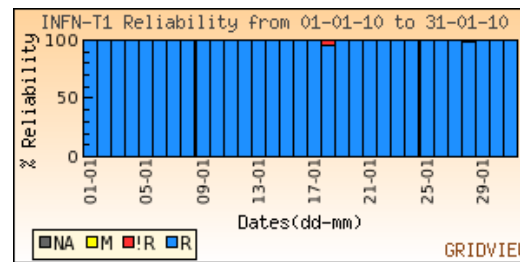
DE-KIT Rel: 96 %



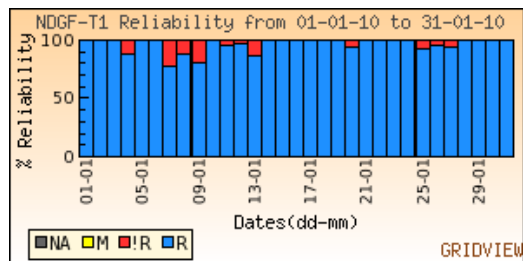
ES-PIC Rel: 98 %



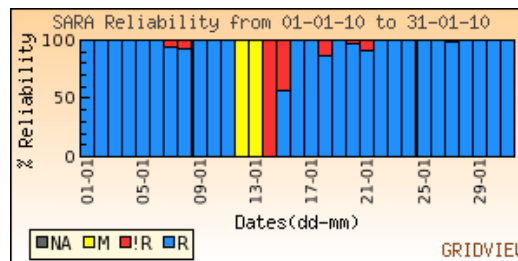
FR-CCIN2P3 Rel: 97 %



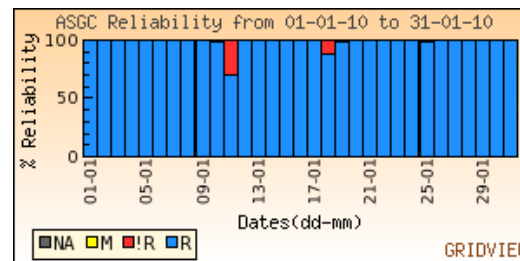
IT-INFN-CNAF Rel: 100 %



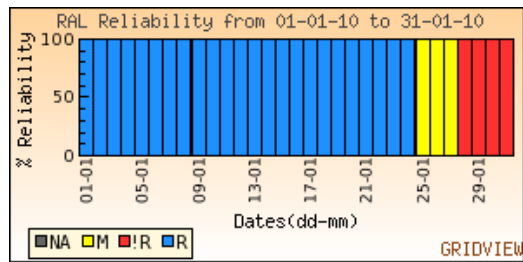
NDGF Rel: 96 %



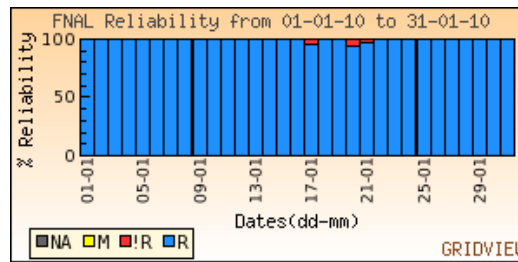
NL-T1 Rel: 96 %



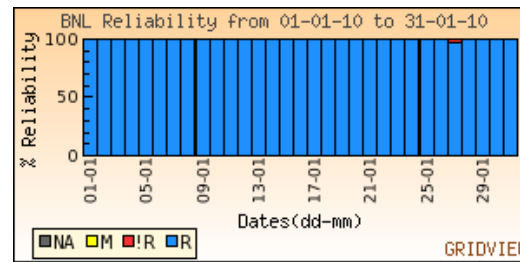
TW-ASGC Rel: 99 %



UK-T1-RAL Rel: 88 %



US-FNAL-CMS Rel: 100 %



US-T1-BNL Rel: 100 %



Service Availability Data for WLCG Tier-1s + CERN for OPS

January 2010

Data from SAM and Gridview

Reliability = uptime / (total_time - scheduled_downtime - time_status_was_UNKNOWN) **Availability** = uptime / (total_time - time_status_was_UNKNOWN)

Target reliability for each site is 97 % and Target for 8 best sites is 98 %

Reliability

Colour Coding Limits :

>= TARGET: 97 %

90% OF TARGET: 87 %

Date	CA-TRIUMF	CERN	DE-KIT	ES-PIC	FR-CCIN2P3	IT-INFN-CNAF	NDGF	NL-T1	TW-ASGC	UK-T1-RAL	US-FNAL-	US-T1-BNL	Average Reliability
01/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
02/01/2010	100 %	100 %	99 %	96 %	98 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
03/01/2010	100 %	100 %	100 %	100 %	96 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
04/01/2010	100 %	100 %	100 %	100 %	79 %	100 %	88 %	100 %	100 %	100 %	100 %	100 %	97 %
05/01/2010	100 %	100 %	98 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
06/01/2010	76 %	100 %	100 %	100 %	98 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	98 %
07/01/2010	88 %	100 %	100 %	100 %	100 %	100 %	78 %	94 %	100 %	100 %	100 %	100 %	97 %
08/01/2010	100 %	100 %	98 %	100 %	100 %	100 %	88 %	93 %	100 %	100 %	100 %	100 %	98 %
09/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	81 %	100 %	100 %	100 %	100 %	100 %	98 %
10/01/2010	100 %	100 %	97 %	100 %	100 %	100 %	100 %	100 %	98 %	100 %	100 %	100 %	100 %
11/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	95 %	100 %	70 %	100 %	100 %	100 %	97 %
12/01/2010	94 %	100 %	100 %	100 %	100 %	100 %	97 %	N/A	100 %	100 %	100 %	100 %	99 %
13/01/2010	76 %	100 %	50 %	100 %	100 %	100 %	86 %	N/A	100 %	100 %	100 %	100 %	92 %
14/01/2010	83 %	100 %	50 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	100 %	100 %	92 %
15/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	57 %	100 %	100 %	100 %	100 %	96 %
16/01/2010	100 %	100 %	93 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
17/01/2010	100 %	100 %	100 %	100 %	98 %	100 %	100 %	100 %	100 %	100 %	96 %	100 %	99 %
18/01/2010	78 %	100 %	99 %	100 %	100 %	96 %	100 %	86 %	88 %	100 %	100 %	100 %	96 %
19/01/2010	100 %	100 %	95 %	100 %	97 %	100 %	100 %	100 %	98 %	100 %	100 %	100 %	99 %
20/01/2010	100 %	100 %	96 %	100 %	100 %	100 %	94 %	98 %	100 %	100 %	94 %	100 %	99 %
21/01/2010	100 %	100 %	97 %	100 %	100 %	100 %	100 %	91 %	100 %	100 %	97 %	100 %	99 %
22/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
23/01/2010	90 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
24/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
25/01/2010	96 %	100 %	99 %	87 %	100 %	100 %	93 %	100 %	99 %	N/A	100 %	100 %	97 %
26/01/2010	98 %	100 %	93 %	100 %	52 %	100 %	95 %	100 %	100 %	N/A	100 %	100 %	97 %
27/01/2010	100 %	100 %	100 %	56 %	100 %	100 %	94 %	98 %	100 %	N/A	100 %	98 %	95 %
28/01/2010	86 %	100 %	97 %	100 %	100 %	98 %	100 %	100 %	100 %	0 %	100 %	100 %	96 %
29/01/2010	100 %	100 %	98 %	100 %	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	92 %
30/01/2010	100 %	100 %	100 %	100 %	72 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	89 %
31/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	92 %
Average	96 %	100 %	96 %	98 %	97 %	100 %	96 %	96 %	99 %	88 %	100 %	100 %	97 %

Average Reliability for all sites: 97 %

Average Reliability for 8 best sites 99 %



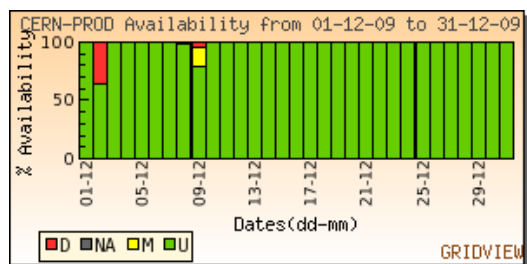
Availability of WLCG Tier-1 Sites + CERN for OPS

December 2009

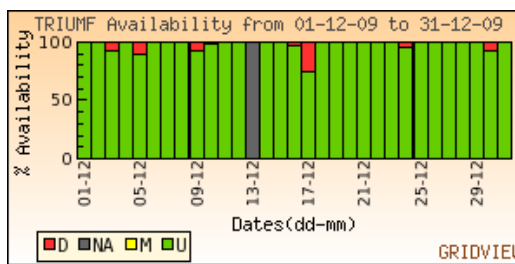
Data from SAM and Gridview

Availability is calculated as $\text{uptime} / (\text{total_time} - \text{time_status_was_UNKNOWN})$

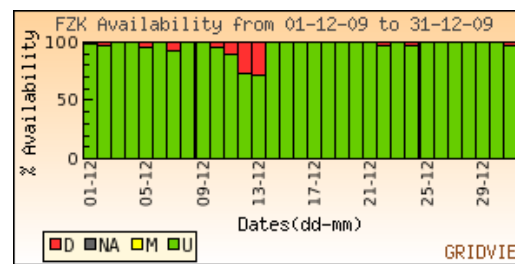
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



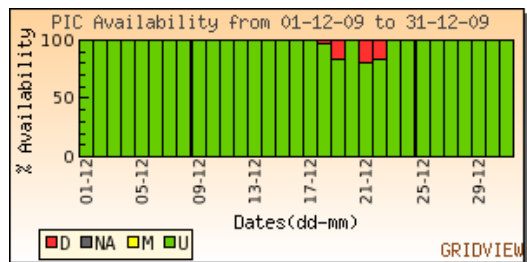
CERN Avail : 98 % Unkn : 0 %



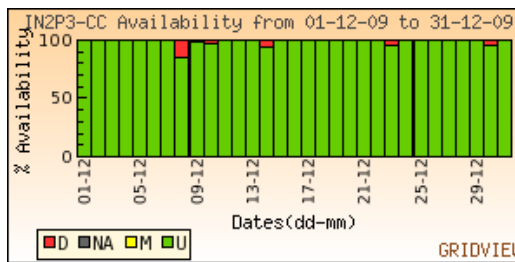
CA-TRIUMF Avail : 98 % Unkn : 7 %



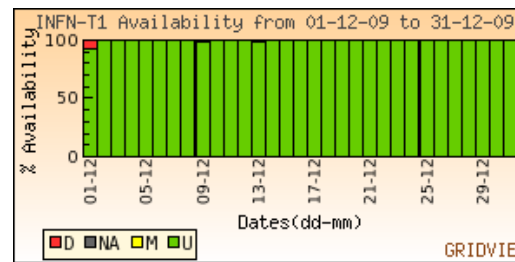
DE-KIT Avail : 97 % Unkn : 0 %



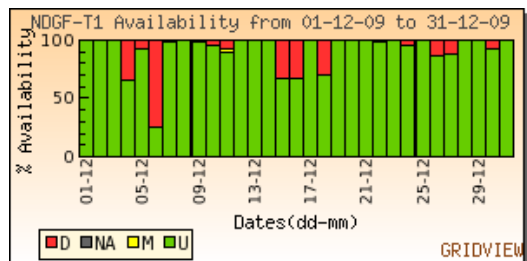
ES-PIC Avail : 98 % Unkn : 0 %



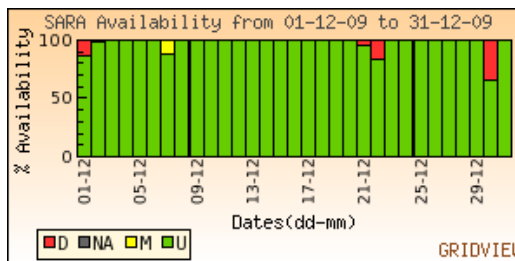
FR-CCIN2P3 Avail : 99 % Unkn : 0 %



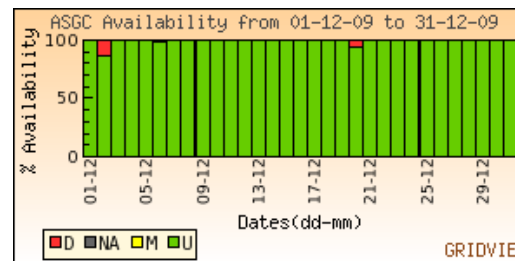
IT-INFN-CNAF Avail : 100 % Unkn : 0 %



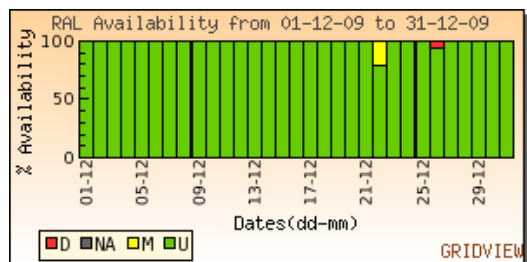
NDGF Avail : 91 % Unkn : 0 %



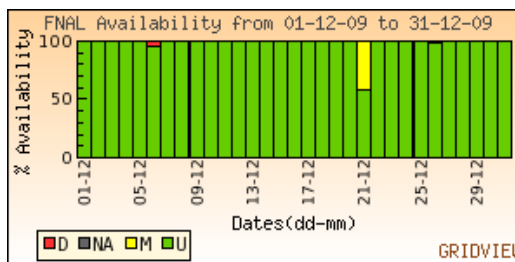
NL-T1 Avail : 97 % Unkn : 0 %



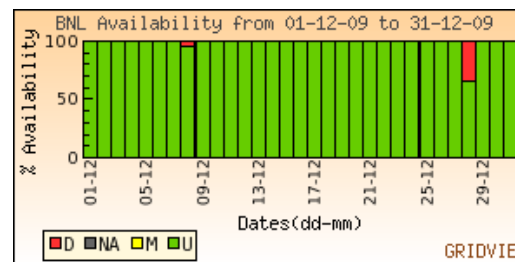
TW-ASGC Avail : 99 % Unkn : 0 %



UK-T1-RAL Avail : 99 % Unkn : 0 %



US-FNAL-CMS Avail : 98 % Unkn : 0 %



US-T1-BNL Avail : 99 % Unkn : 0 %



Service Availability Data for WLCG Tier-1s + CERN for OPS

December 2009

Data from SAM and Gridview

Reliability = uptime / (total_time - scheduled_downtime - time_status_was_UNKNOWN) **Availability** = uptime / (total_time - time_status_was_UNKNOWN)

Target reliability for each site is 97 % and Target for 8 best sites is 98 %

Availability

Colour Coding Limits :

>= TARGET: 97 %

90% OF TARGET:

87 %

Unkn : Unknown

Date	CA-TRIUMF		CERN		DE-KIT		ES-PIC		FR-CCIN2P3		IT-INFN-CNAF		NDGF		NL-T1		TW-ASGC		UK-T1-RAL		US-FNAL-CMS		US-T1-BNL		Average	
	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn
01/12/2009	100	0	100	0	99	0	100	0	100	0	92	0	100	0	87	0	100	0	100	0	100	0	100	0	98	0
02/12/2009	100	0	65	0	97	0	100	0	100	0	100	0	100	0	99	0	86	0	100	0	100	0	100	0	96	0
03/12/2009	93	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
04/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	65	0	100	0	100	0	100	0	100	0	100	0	97	0
05/12/2009	90	0	100	0	95	0	100	0	100	0	100	0	93	0	100	0	100	0	100	0	100	0	100	5	98	0
06/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	25	0	100	0	99	0	100	0	96	2	100	0	93	0
07/12/2009	100	0	100	0	92	0	100	0	100	0	100	0	98	0	88	0	100	0	100	0	100	1	100	0	98	0
08/12/2009	100	0	98	0	100	0	100	0	86	0	100	0	100	0	100	0	100	0	100	0	100	0	96	5	98	0
09/12/2009	92	0	80	0	100	0	100	0	98	0	98	0	98	0	100	0	100	0	100	0	100	0	100	0	97	0
10/12/2009	99	0	100	0	96	0	100	0	97	0	100	0	95	0	100	0	100	0	100	0	100	0	100	0	99	0
11/12/2009	100	0	100	0	90	0	100	0	100	0	100	0	89	0	100	0	100	0	100	0	100	0	100	0	98	0
12/12/2009	100	84	100	0	72	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	98	7
13/12/2009	N/A	100	100	0	72	0	100	0	100	0	98	0	100	0	100	0	100	0	100	0	100	0	100	0	97	8
14/12/2009	100	43	100	0	100	0	100	0	94	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	4
15/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	67	0	100	0	100	0	100	0	100	0	100	0	97	0
16/12/2009	97	0	100	0	100	0	100	0	100	0	100	0	66	0	100	0	100	0	100	0	100	0	100	0	97	0
17/12/2009	75	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	98	0
18/12/2009	100	0	100	0	100	0	97	0	100	0	100	0	70	0	100	0	100	0	100	0	100	0	100	0	97	0
19/12/2009	100	0	100	0	100	0	84	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
20/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	95	0	100	0	100	0	100	0	100	0
21/12/2009	100	0	100	0	100	0	80	0	100	0	100	0	100	0	96	0	100	0	100	0	59	0	100	0	95	0
22/12/2009	100	0	100	0	96	0	84	0	100	0	100	0	98	0	84	0	100	0	80	0	100	0	100	0	95	0
23/12/2009	100	0	100	0	100	0	100	0	96	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
24/12/2009	95	0	100	0	98	0	100	0	100	0	100	0	96	0	100	0	100	0	100	0	100	0	100	0	99	0
25/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
26/12/2009	100	0	100	0	100	0	100	0	100	0	100	0		0	100	0	100	0	94	0	99	0	100	0	98	0
27/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	88	0	100	0	100	0	100	0	100	0	100	0	99	0
28/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	66	4	97	0
29/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
30/12/2009	93	0	100	0	100	0	100	0	96	0	100	0	92	0	66	0	100	0	100	0	100	0	100	0	96	0
31/12/2009	100	0	100	0	97	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
Average	98	7	98	0	97	0	98	0	99	0	100	0	91	0	97	0	99	0	99	0	98	0	99	0	98	1

Average Availability for all sites: 98 %

Average Availability for 8 best sites : 99 %



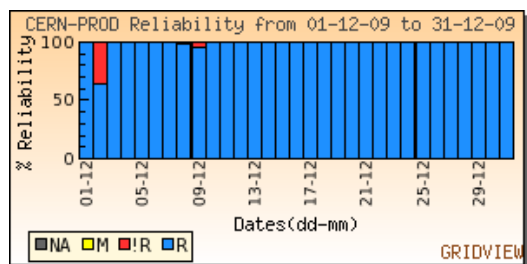
Reliability of WLCG Tier-1 Sites + CERN for OPS

December 2009

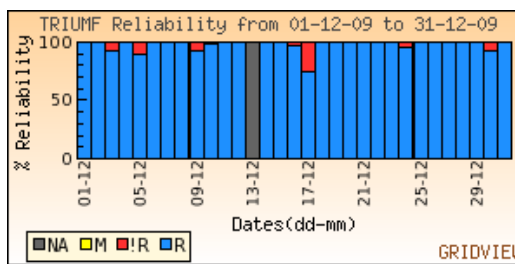
Data from SAM and Gridview

Reliability is calculated as $\text{uptime} / (\text{total_time} - \text{scheduled_downtime} - \text{time_status_was_UNKNOWN})$

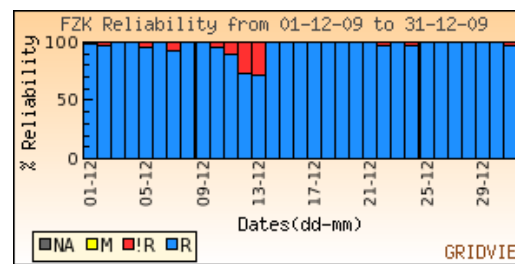
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



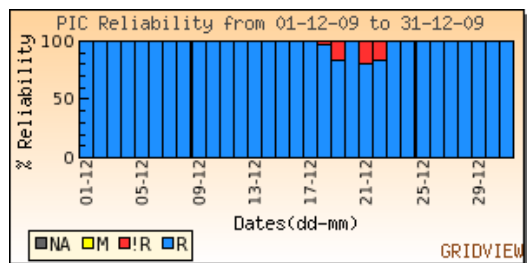
CERN Rel: 99 %



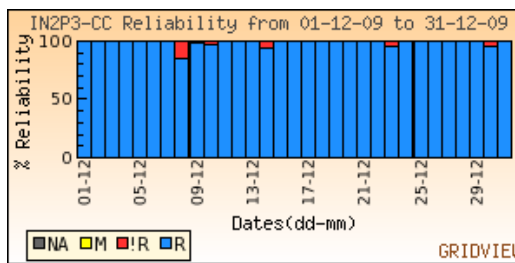
CA-TRIUMF Rel: 98 %



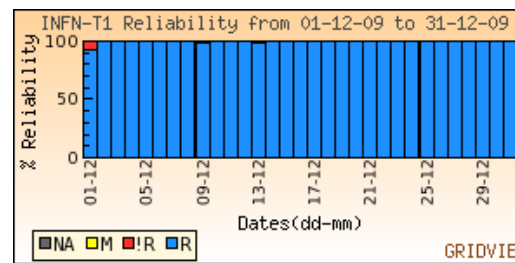
DE-KIT Rel: 97 %



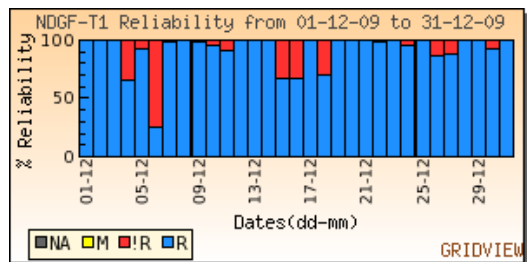
ES-PIC Rel: 98 %



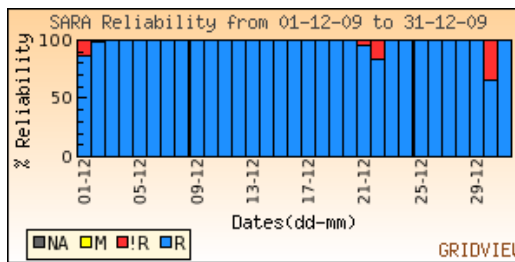
FR-CCIN2P3 Rel: 99 %



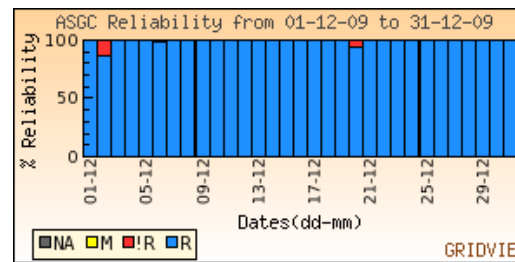
IT-INFN-CNAF Rel: 100 %



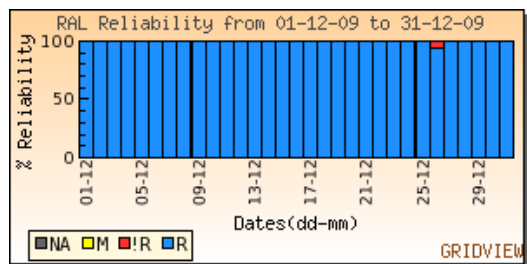
NDGF Rel: 91 %



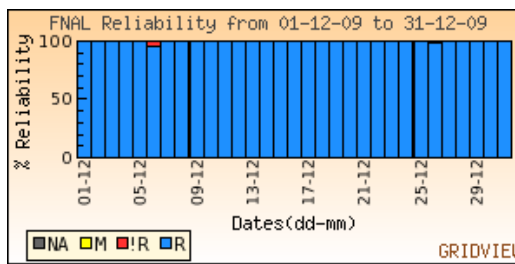
NL-T1 Rel: 98 %



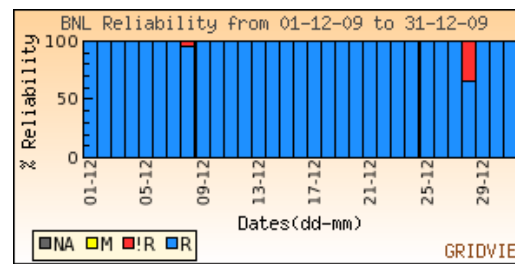
TW-ASGC Rel: 99 %



UK-T1-RAL Rel: 100 %



US-FNAL-CMS Rel: 100 %



US-T1-BNL Rel: 99 %



Service Availability Data for WLCG Tier-1s + CERN for OPS

December 2009

Data from SAM and Gridview

Reliability = uptime / (total_time - scheduled_downtime - time_status_was_UNKNOWN) **Availability** = uptime / (total_time - time_status_was_UNKNOWN)

Target reliability for each site is 97 % and Target for 8 best sites is 98 %

Reliability

Colour Coding Limits :

>= TARGET: 97 %

90% OF TARGET: 87 %

Date	CA-TRIUMF	CERN	DE-KIT	ES-PIC	FR-CCIN2P3	IT-INFN-CNAF	NDGF	NL-T1	TW-ASGC	UK-T1-RAL	US-FNAL-	US-T1-BNL	Average Reliability
01/12/2009	100 %	100 %	99 %	100 %	100 %	92 %	100 %	87 %	100 %	100 %	100 %	100 %	98 %
02/12/2009	100 %	65 %	97 %	100 %	100 %	100 %	100 %	99 %	86 %	100 %	100 %	100 %	96 %
03/12/2009	93 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
04/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	65 %	100 %	100 %	100 %	100 %	100 %	97 %
05/12/2009	90 %	100 %	95 %	100 %	100 %	100 %	93 %	100 %	100 %	100 %	100 %	100 %	98 %
06/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	25 %	100 %	99 %	100 %	96 %	100 %	93 %
07/12/2009	100 %	100 %	92 %	100 %	100 %	100 %	98 %	100 %	100 %	100 %	100 %	100 %	99 %
08/12/2009	100 %	98 %	100 %	100 %	86 %	100 %	100 %	100 %	100 %	100 %	100 %	96 %	98 %
09/12/2009	92 %	95 %	100 %	100 %	98 %	98 %	98 %	100 %	100 %	100 %	100 %	100 %	99 %
10/12/2009	99 %	100 %	96 %	100 %	97 %	100 %	95 %	100 %	100 %	100 %	100 %	100 %	99 %
11/12/2009	100 %	100 %	90 %	100 %	100 %	100 %	92 %	100 %	100 %	100 %	100 %	100 %	98 %
12/12/2009	100 %	100 %	72 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	98 %
13/12/2009	N/A	100 %	72 %	100 %	100 %	98 %	100 %	100 %	100 %	100 %	100 %	100 %	97 %
14/12/2009	100 %	100 %	100 %	100 %	94 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
15/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	67 %	100 %	100 %	100 %	100 %	100 %	97 %
16/12/2009	97 %	100 %	100 %	100 %	100 %	100 %	66 %	100 %	100 %	100 %	100 %	100 %	97 %
17/12/2009	75 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	98 %
18/12/2009	100 %	100 %	100 %	97 %	100 %	100 %	70 %	100 %	100 %	100 %	100 %	100 %	97 %
19/12/2009	100 %	100 %	100 %	84 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
20/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	95 %	100 %	100 %	100 %	100 %
21/12/2009	100 %	100 %	100 %	80 %	100 %	100 %	100 %	96 %	100 %	100 %	100 %	100 %	98 %
22/12/2009	100 %	100 %	96 %	84 %	100 %	100 %	98 %	84 %	100 %	100 %	100 %	100 %	97 %
23/12/2009	100 %	100 %	100 %	100 %	96 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
24/12/2009	95 %	100 %	98 %	100 %	100 %	100 %	96 %	100 %	100 %	100 %	100 %	100 %	99 %
25/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
26/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	87 %	100 %	100 %	94 %	99 %	100 %	98 %
27/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	88 %	100 %	100 %	100 %	100 %	100 %	99 %
28/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	66 %	97 %
29/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
30/12/2009	93 %	100 %	100 %	100 %	96 %	100 %	92 %	66 %	100 %	100 %	100 %	100 %	96 %
31/12/2009	100 %	100 %	97 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
Average	98 %	99 %	97 %	98 %	99 %	100 %	91 %	98 %	99 %	100 %	100 %	99 %	98 %

Average Reliability for all sites: 98 %

Average Reliability for 8 best sites 99 %



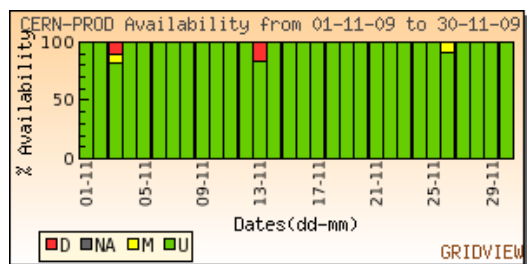
Availability of WLCG Tier-1 Sites + CERN for OPS

November 2009

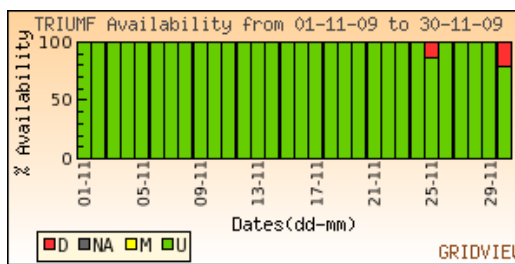
Data from SAM and Gridview

Availability is calculated as $\text{uptime} / (\text{total_time} - \text{time_status_was_UNKNOWN})$

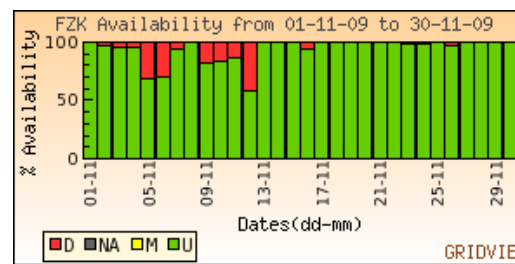
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



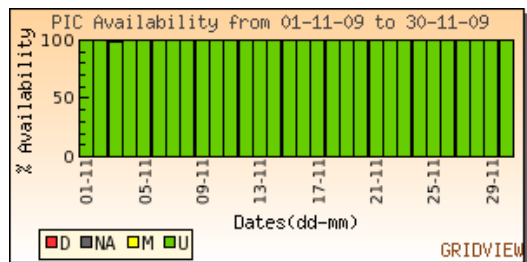
CERN Avail : 99 % Unkn : 0 %



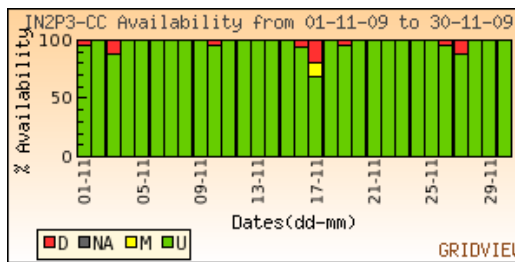
CA-TRIUMF Avail : 99 % Unkn : 0 %



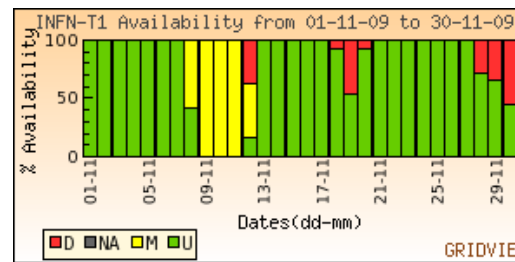
DE-KIT Avail : 94 % Unkn : 0 %



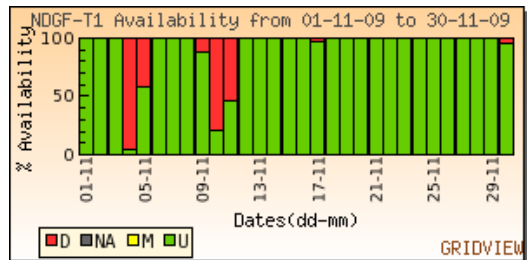
ES-PIC Avail : 100 % Unkn : 0 %



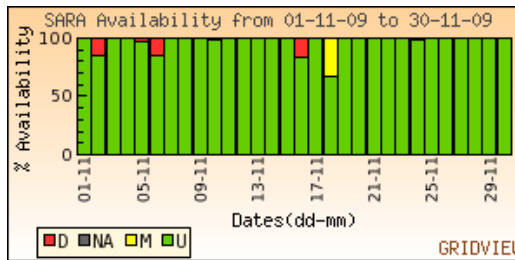
FR-CCIN2P3 Avail : 97 % Unkn : 0 %



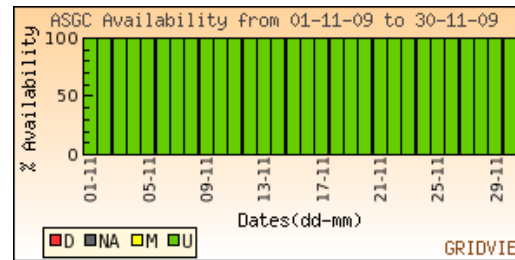
IT-INFN-CNAF Avail : 79 % Unkn : 0 %



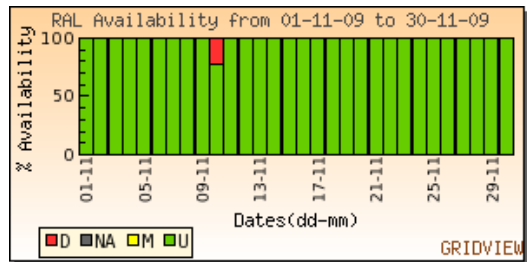
NDGF Avail : 90 % Unkn : 0 %



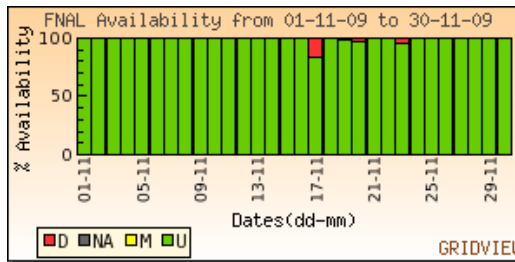
NL-T1 Avail : 97 % Unkn : 0 %



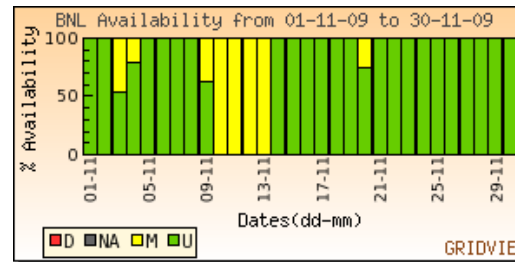
TW-ASGC Avail : 100 % Unkn : 0 %



UK-T1-RAL Avail : 99 % Unkn : 0 %



US-FNAL-CMS Avail : 99 % Unkn : 0 %



US-T1-BNL Avail : 82 % Unkn : 2 %



Service Availability Data for WLCG Tier-1s + CERN for OPS

November 2009

Data from SAM and Gridview

Reliability = uptime / (total_time - scheduled_downtime - time_status_was_UNKNOWN) **Availability** = uptime / (total_time - time_status_was_UNKNOWN)

Target reliability for each site is 97 % and Target for 8 best sites is 98 %

Availability

Colour Coding Limits :

>= TARGET: 97 %

90% OF TARGET:

87 %

Unkn : Unknown

Date	CA-TRIUMF		CERN		DE-KIT		ES-PIC		FR-CCIN2P3		IT-INFN-CNAF		NDGF		NL-T1		TW-ASGC		UK-T1-RAL		US-FNAL-CMS		US-T1-BNL		Average	
	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn
01/11/2009	100	0	100	0	100	0	100	0	96	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
02/11/2009	100	0	100	0	96	0	100	0	99	0	100	0	100	0	86	0	100	0	100	0	100	0	100	0	98	0
03/11/2009	100	0	83	0	95	0	99	0	87	0	100	0	100	0	99	0	100	0	100	0	100	0	54	0	93	0
04/11/2009	100	0	100	0	96	0	100	0	100	0	100	0	4	0	100	0	100	0	100	0	100	0	79	0	90	0
05/11/2009	100	0	100	0	68	0	100	0	100	0	100	0	59	0	97	0	100	0	100	0	100	0	100	0	94	0
06/11/2009	100	0	100	0	70	0	100	0	100	0	100	0	100	0	85	0	100	0	100	0	100	0	100	0	96	0
07/11/2009	100	0	100	0	94	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
08/11/2009	100	0	100	0	100	0	100	0	100	0	42	0	100	0	100	0	100	0	100	0	100	0	100	0	95	0
09/11/2009	100	0	100	0	82	0	100	0	100	0	0	0	87	0	100	0	100	0	100	0	100	0	62	0	86	0
10/11/2009	100	0	100	0	84	0	100	0	95	0	0	0	20	0	98	0	100	0	78	0	100	0	0	0	73	0
11/11/2009	100	0	100	0		0	100	0	100	0	0	0	46	0	100	0	100	0	100	0	100	0	0	0	78	0
12/11/2009	100	0	100	0	59	0	100	0	100	0	17	0	100	0	100	0	100	0	100	0	100	0	0	0	81	0
13/11/2009	100	0	84	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	0	0	90	0
14/11/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
15/11/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	20	100	2
16/11/2009	100	0	100	0	94	0	100	0	94	0	100	0	100	0	84	0	100	0	100	0	100	0	100	0	98	0
17/11/2009	100	0	100	0	100	0	100	0	68	0	100	0	98	0	100	0	100	0	100	0	83	0	100	1	96	0
18/11/2009	100	0	100	0	100	0	100	0	100	0	93	0	100	0	67	0	100	0	100	0	100	0	100	0	97	0
19/11/2009	100	0	100	0	100	0	100	0	95	0	54	0	100	0	100	0	100	0	100	0	98	0	100	0	96	0
20/11/2009	100	0	100	0	100	0	100	0	100	0	92	0	100	0	100	0	100	0	100	0	97	0	75	17	97	1
21/11/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
22/11/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
23/11/2009	100	0	100	0	98	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	96	0	100	4	99	0
24/11/2009	100	0	100	0	99	0	100	0	100	0	100	0	100	0	98	0	100	0	100	0	100	0	100	0	100	0
25/11/2009	86	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
26/11/2009	100	0	92	0	97	0	100	0	96	0	100	0	100	0	100	0	100	0	100	0	100	0	100	4	99	0
27/11/2009	100	0	100	0	100	0	100	0	88	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
28/11/2009	100	0	100	0	100	0	100	0	100	0	72	0	100	0	100	0	100	0	100	0	100	0	100	0	98	0
29/11/2009	100	0	100	0	100	0	100	0	100	0	65	0	100	0	100	0	100	0	100	0	100	0	100	0	97	0
30/11/2009	79	0	100	0	100	0	100	0	100	0	45	0	95	0	100	0	100	0	100	0	100	0	100	0	93	0
Average	99	0	99	0	94	0	100	0	97	0	79	0	90	0	97	0	100	0	99	0	99	0	82	2	95	0

Average Availability for all sites: 95 %

Average Availability for 8 best sites : 99 %



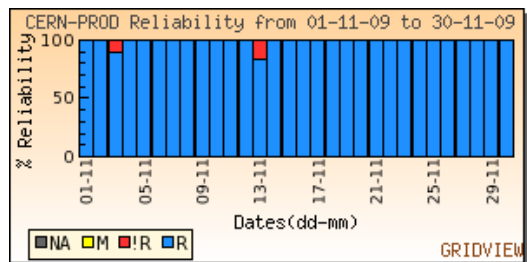
Reliability of WLCG Tier-1 Sites + CERN for OPS

November 2009

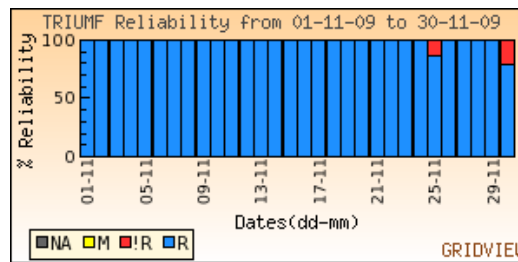
Data from SAM and Gridview

Reliability is calculated as $\text{uptime} / (\text{total_time} - \text{scheduled_downtime} - \text{time_status_was_UNKNOWN})$

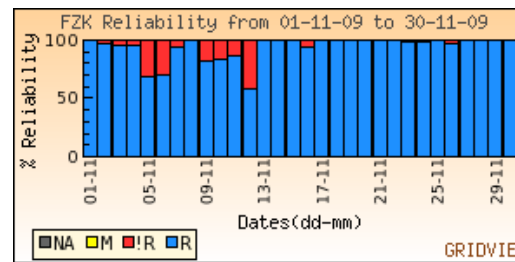
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



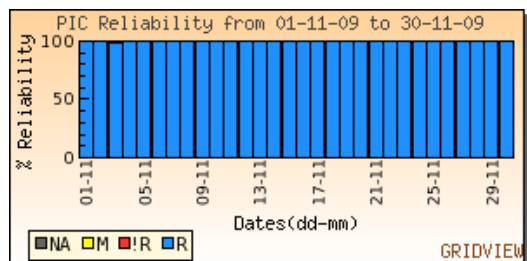
CERN Rel: 99 %



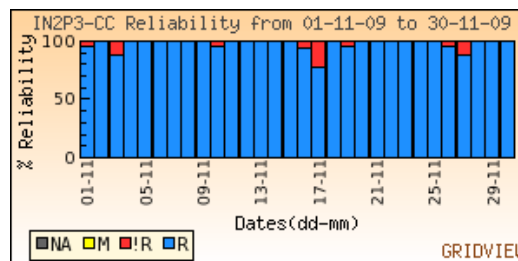
CA-TRIUMF Rel: 99 %



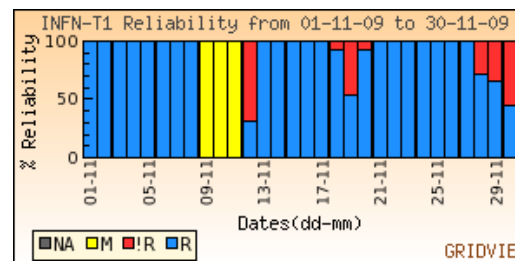
DE-KIT Rel: 94 %



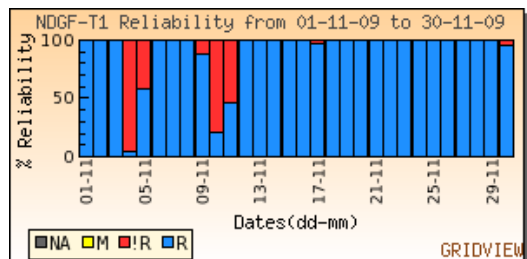
ES-PIC Rel: 100 %



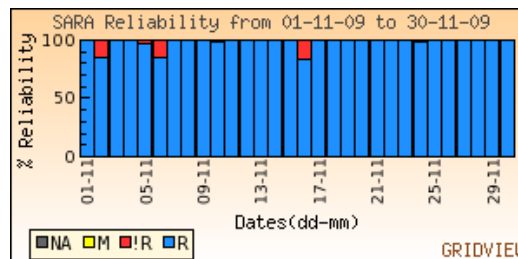
FR-CCIN2P3 Rel: 98 %



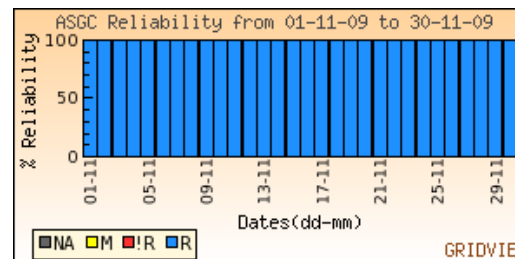
IT-INFN-CNAF Rel: 92 %



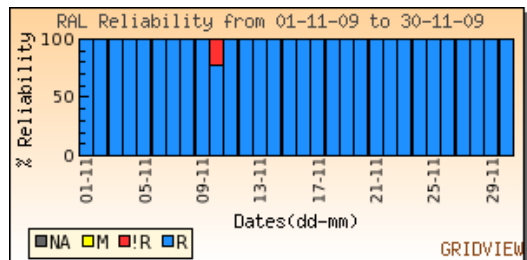
NDGF Rel: 90 %



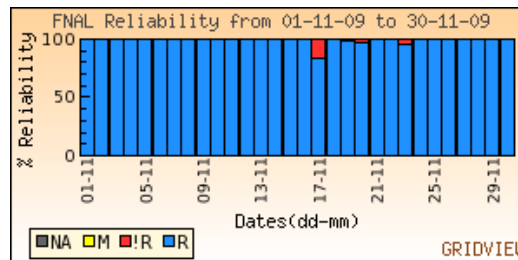
NL-T1 Rel: 98 %



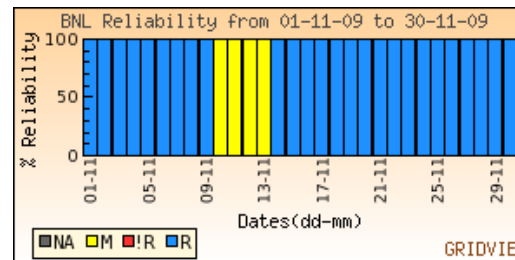
TW-ASGC Rel: 100 %



UK-T1-RAL Rel: 99 %



US-FNAL-CMS Rel: 99 %



US-T1-BNL Rel: 100 %



Service Availability Data for WLCG Tier-1s + CERN for OPS

November 2009

Data from SAM and Gridview

Reliability = uptime / (total_time - scheduled_downtime - time_status_was_UNKNOWN) **Availability** = uptime / (total_time - time_status_was_UNKNOWN)

Target reliability for each site is 97 % and Target for 8 best sites is 98 %

Reliability

Colour Coding Limits :

>= TARGET: 97 %

90% OF TARGET: 87 %

Date	CA-TRIUMF	CERN	DE-KIT	ES-PIC	FR-CCIN2P3	IT-INFN-CNAF	NDGF	NL-T1	TW-ASGC	UK-T1-RAL	US-FNAL-	US-T1-BNL	Average Reliability
01/11/2009	100 %	100 %	100 %	100 %	96 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
02/11/2009	100 %	100 %	96 %	100 %	99 %	100 %	100 %	86 %	100 %	100 %	100 %	100 %	98 %
03/11/2009	100 %	89 %	95 %	99 %	87 %	100 %	100 %	99 %	100 %	100 %	100 %	100 %	97 %
04/11/2009	100 %	100 %	96 %	100 %	100 %	100 %	4 %	100 %	100 %	100 %	100 %	100 %	92 %
05/11/2009	100 %	100 %	68 %	100 %	100 %	100 %	59 %	97 %	100 %	100 %	100 %	100 %	94 %
06/11/2009	100 %	100 %	70 %	100 %	100 %	100 %	100 %	85 %	100 %	100 %	100 %	100 %	96 %
07/11/2009	100 %	100 %	94 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
08/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
09/11/2009	100 %	100 %	82 %	100 %	100 %	N/A	87 %	100 %	100 %	100 %	100 %	100 %	97 %
10/11/2009	100 %	100 %	84 %	100 %	95 %	N/A	20 %	98 %	100 %	78 %	100 %	N/A	88 %
11/11/2009	100 %	100 %	87 %	100 %	100 %	N/A	46 %	100 %	100 %	100 %	100 %	N/A	93 %
12/11/2009	100 %	100 %	59 %	100 %	100 %	32 %	100 %	100 %	100 %	100 %	100 %	N/A	93 %
13/11/2009	100 %	84 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	N/A	99 %
14/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
15/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
16/11/2009	100 %	100 %	94 %	100 %	94 %	100 %	100 %	84 %	100 %	100 %	100 %	100 %	98 %
17/11/2009	100 %	100 %	100 %	100 %	78 %	100 %	98 %	100 %	100 %	100 %	83 %	100 %	97 %
18/11/2009	100 %	100 %	100 %	100 %	100 %	93 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
19/11/2009	100 %	100 %	100 %	100 %	95 %	54 %	100 %	100 %	100 %	100 %	98 %	100 %	96 %
20/11/2009	100 %	100 %	100 %	100 %	100 %	92 %	100 %	100 %	100 %	100 %	97 %	100 %	99 %
21/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
22/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
23/11/2009	100 %	100 %	98 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	96 %	100 %	99 %
24/11/2009	100 %	100 %	99 %	100 %	100 %	100 %	100 %	98 %	100 %	100 %	100 %	100 %	100 %
25/11/2009	86 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
26/11/2009	100 %	100 %	97 %	100 %	96 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
27/11/2009	100 %	100 %	100 %	100 %	88 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
28/11/2009	100 %	100 %	100 %	100 %	100 %	72 %	100 %	100 %	100 %	100 %	100 %	100 %	98 %
29/11/2009	100 %	100 %	100 %	100 %	100 %	65 %	100 %	100 %	100 %	100 %	100 %	100 %	97 %
30/11/2009	79 %	100 %	100 %	100 %	100 %	45 %	95 %	100 %	100 %	100 %	100 %	100 %	93 %
Average	99 %	99 %	94 %	100 %	98 %	92 %	90 %	98 %	100 %	99 %	99 %	100 %	97 %

Average Reliability for all sites: 97 %

Average Reliability for 8 best sites 99 %



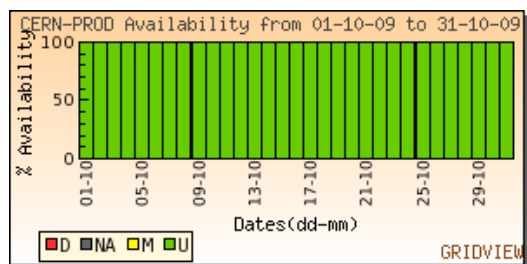
Availability of WLCG Tier-1 Sites + CERN for OPS

October 2009

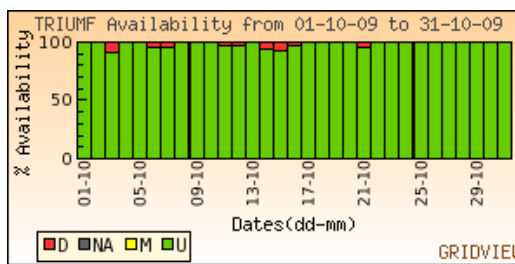
Data from SAM and Gridview

Availability is calculated as $\text{uptime} / (\text{total_time} - \text{time_status_was_UNKNOWN})$

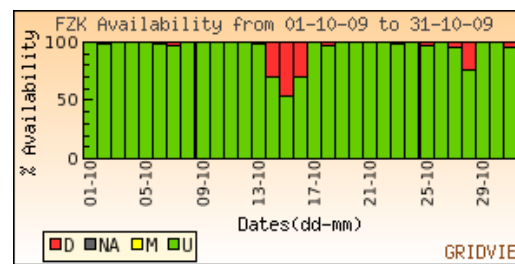
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



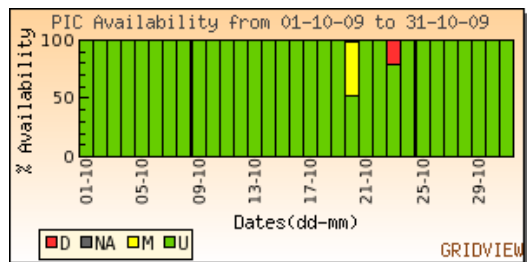
CERN Avail : 100 % Unkn : 0 %



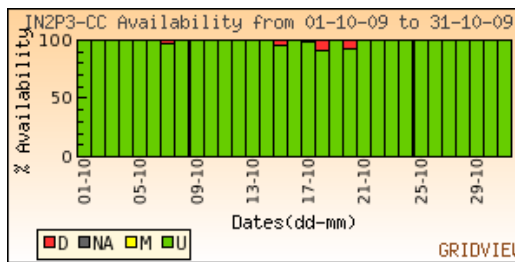
CA-TRIUMF Avail : 99 % Unkn : 0 %



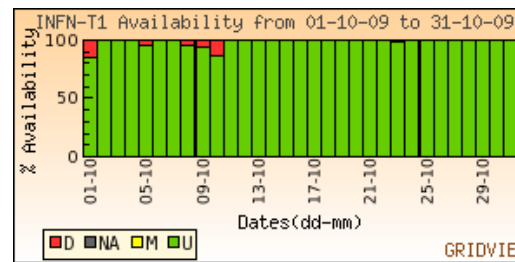
DE-KIT Avail : 95 % Unkn : 0 %



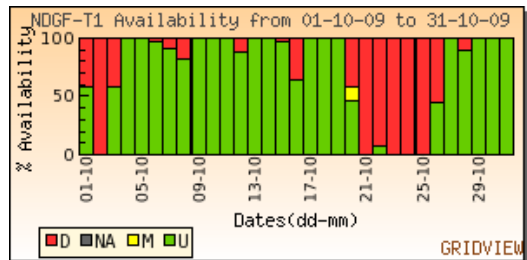
ES-PIC Avail : 98 % Unkn : 0 %



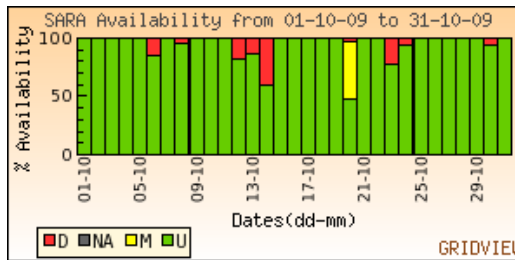
FR-CCIN2P3 Avail : 99 % Unkn : 0 %



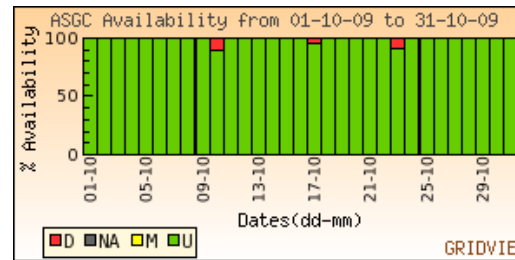
IT-INFN-CNAF Avail : 99 % Unkn : 0 %



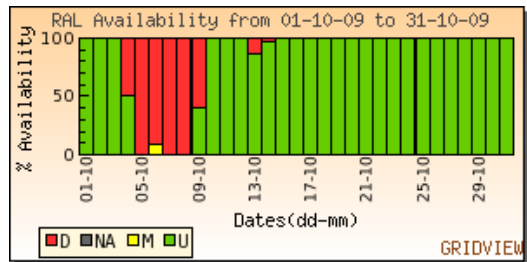
NDGF Avail : 72 % Unkn : 1 %



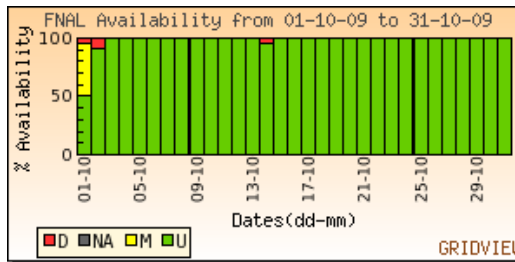
NL-T1 Avail : 94 % Unkn : 0 %



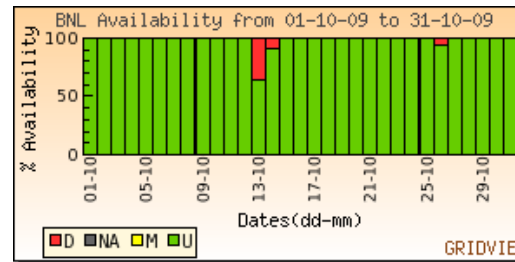
TW-ASGC Avail : 99 % Unkn : 0 %



UK-T1-RAL Avail : 83 % Unkn : 0 %



US-FNAL-CMS Avail : 98 % Unkn : 0 %



US-T1-BNL Avail : 99 % Unkn : 4 %



Service Availability Data for WLCG Tier-1s + CERN for OPS

October 2009

Data from SAM and Gridview

Reliability = uptime / (total_time - scheduled_downtime - time_status_was_UNKNOWN) **Availability** = uptime / (total_time - time_status_was_UNKNOWN)

Target reliability for each site is 97 % and Target for 8 best sites is 98 %

Availability

Colour Coding Limits :

>= TARGET: 97 %

90% OF TARGET:

87 %

Unkn : Unknown

Date	CA-TRIUMF		CERN		DE-KIT		ES-PIC		FR-CCIN2P3		IT-INFN-CNAF		NDGF		NL-T1		TW-ASGC		UK-T1-RAL		US-FNAL-CMS		US-T1-BNL		Average	
	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn
01/10/2009	100	0	100	0	100	0	100	0	100	0	85	0	58	0	100	0	100	0	100	0	50	0	100	0	91	0
02/10/2009	100	0	100	0	98	0	100	0	100	0	100	0	0	0	100	0	100	0	100	0	91	0	100	0	91	0
03/10/2009	91	0	100	0	100	0	100	0	100	0	100	0	58	0	100	0	100	0	100	0	100	0	100	0	96	0
04/10/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	51	0	100	0	100	0	96	0
05/10/2009	100	0	100	0	100	0	100	0	100	0	96	0	100	0	100	0	100	0	0	0	100	0	100	0	91	0
06/10/2009	96	0	100	0	98	0	100	0	100	0	100	0	97	0	85	0	100	0	0	0	100	0	100	0	90	0
07/10/2009	96	0	100	0	97	0	100	0	97	0	100	0	92	0	100	0	100	0	0	0	100	0	100	4	90	0
08/10/2009	100	0	100	0	100	0	100	0	100	0	95	0	82	0	96	0	100	0	0	0	100	0	100	17	89	1
09/10/2009	100	0	100	0	100	0	100	0	100	0	94	0	100	0	100	0	100	0	40	0	100	0	100	0	95	0
10/10/2009	100	0	100	0	100	0	100	0	100	0		0	100	0	100	0	89	0	100	0	100	0	100	0	98	0
11/10/2009	97	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	4	100	0
12/10/2009	97	0	100	0	100	0	100	0	100	0	100	0	88	0	83	0	100	0	100	0	100	0	100	0	97	0
13/10/2009	100	0	100	0	99	0	100	0	100	0	100	0	100	0	86	0	100	0	86	0	100	0	64	12	95	1
14/10/2009	94	0	100	0	70	0	100	0	100	0	100	0	100	0	60	0	100	0	97	0	96	4	91	5	92	1
15/10/2009	93	0	100	0	54	0	100	0	96	0	100	0	97	0	100	0	100	0	100	0	100	4	100	4	95	1
16/10/2009	96	0	100	0	71	0	100	0	100	0	100	0	64	0	100	0	100	0	100	0	100	0	100	0	94	0
17/10/2009	100	0	100	0	100	0	100	0	98	0	100	0	100	0	100	0	95	0	100	0	100	0	100	0	99	0
18/10/2009	100	0	100	0	97	0	100	0	91	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
19/10/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
20/10/2009	100	0	100	0	100	0	52	0	92	0	100	0	46	0	48	0	100	0	100	0	100	0	100	0	86	0
21/10/2009	96	0	100	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	100	0	100	0	100	0	91	0
22/10/2009	100	0	100	0	100	0	100	0	100	0	100	0	7	0	100	0	100	0	100	0	100	0	100	0	92	0
23/10/2009	100	0	100	0	98	0	78	0	100	0	98	0	0	0	78	0	90	0	100	0	100	0	100	0	87	0
24/10/2009	100	0	100	0	100	0	100	0	100	0	100	0	0	0	94	0	100	0	100	0	100	0	100	0	91	0
25/10/2009	100	0	100	0	97	0	100	0	100	0	100	0	0	0	100	0	100	0	100	0	100	0	100	0	91	0
26/10/2009	100	0	100	0	100	0	100	0	100	0	100	0	45	20	100	0	100	0	100	0	100	0	94	50	96	6
27/10/2009	100	0	100	0	96	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
28/10/2009	100	0	100	0	76	0	100	0	100	0	100	0	89	0	100	0	100	0	100	0	100	0	100	0	97	0
29/10/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
30/10/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	94	0	100	0	100	0	100	0	100	0	100	0
31/10/2009	100	0	100	0	95	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	12	100	1
Average	99	0	100	0	95	0	98	0	99	0	99	0	72	1	94	0	99	0	83	0	98	0	99	4	94	0

Average Availability for all sites: 94 %

Average Availability for 8 best sites : 99 %



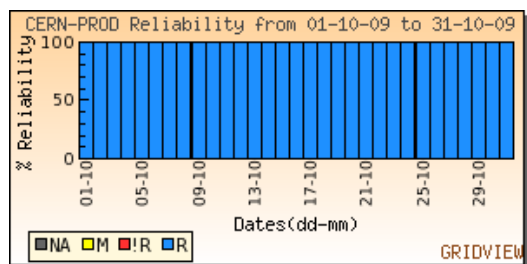
Reliability of WLCG Tier-1 Sites + CERN for OPS

October 2009

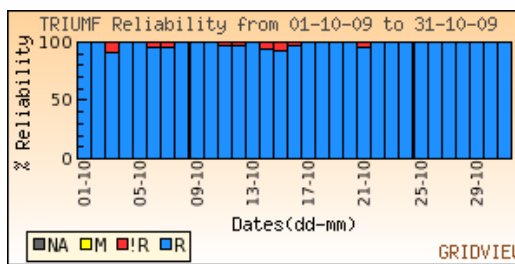
Data from SAM and Gridview

Reliability is calculated as $\text{uptime} / (\text{total_time} - \text{scheduled_downtime} - \text{time_status_was_UNKNOWN})$

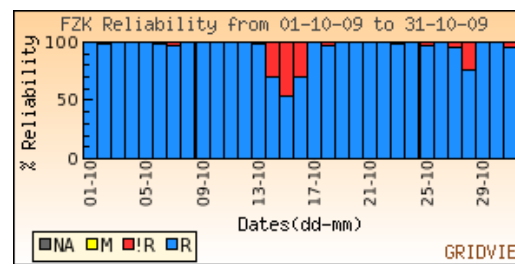
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



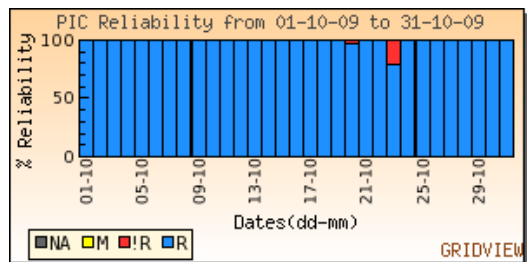
CERN Rel: 100 %



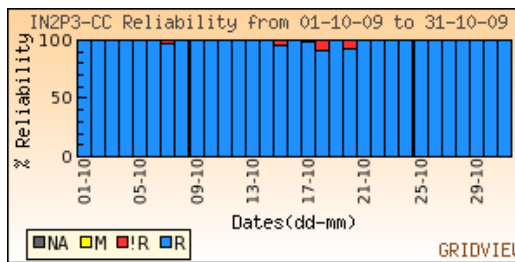
CA-TRIUMF Rel: 99 %



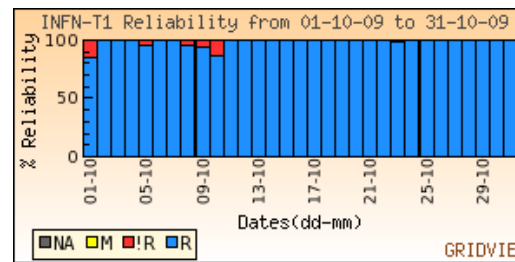
DE-KIT Rel: 95 %



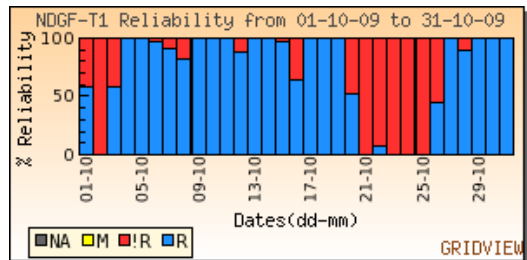
ES-PIC Rel: 99 %



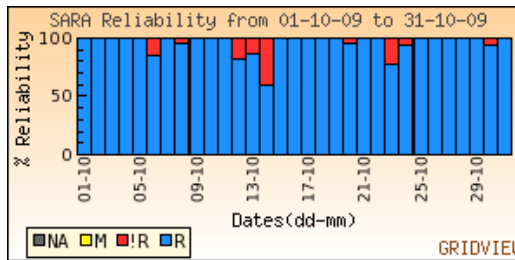
FR-CCIN2P3 Rel: 99 %



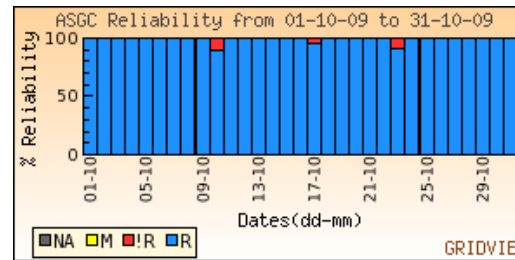
IT-INFN-CNAF Rel: 99 %



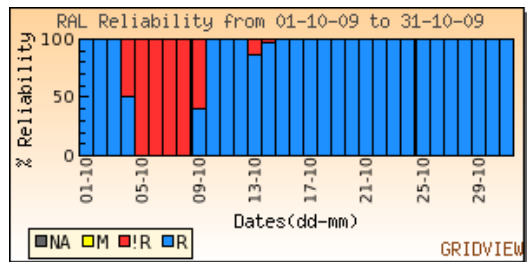
NDGF Rel: 72 %



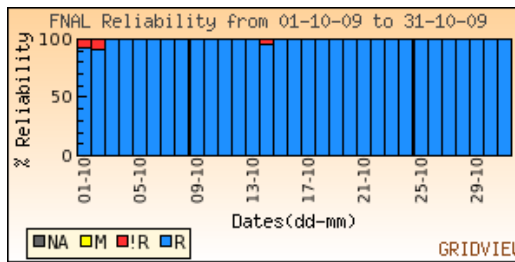
NL-T1 Rel: 96 %



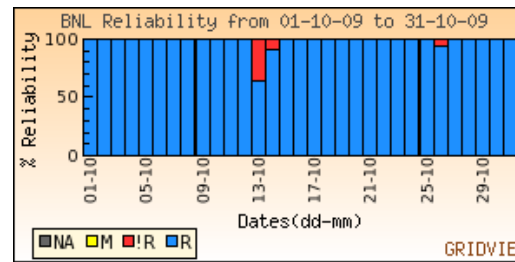
TW-ASGC Rel: 99 %



UK-T1-RAL Rel: 83 %



US-FNAL-CMS Rel: 99 %



US-T1-BNL Rel: 99 %



Service Availability Data for WLCG Tier-1s + CERN for OPS

October 2009

Data from SAM and Gridview

Reliability = uptime / (total_time - scheduled_downtime - time_status_was_UNKNOWN) **Availability** = uptime / (total_time - time_status_was_UNKNOWN)

Target reliability for each site is 97 % and Target for 8 best sites is 98 %

Reliability

Colour Coding Limits :

>= TARGET: 97 %

90% OF TARGET: 87 %

Date	CA-TRIUMF	CERN	DE-KIT	ES-PIC	FR-CCIN2P3	IT-INFN-CNAF	NDGF	NL-T1	TW-ASGC	UK-T1-RAL	US-FNAL-	US-T1-BNL	Average Reliability
01/10/2009	100 %	100 %	100 %	100 %	100 %	85 %	58 %	100 %	100 %	100 %	92 %	100 %	95 %
02/10/2009	100 %	100 %	98 %	100 %	100 %	100 %	0 %	100 %	100 %	100 %	91 %	100 %	91 %
03/10/2009	91 %	100 %	100 %	100 %	100 %	100 %	58 %	100 %	100 %	100 %	100 %	100 %	96 %
04/10/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	51 %	100 %	100 %	96 %
05/10/2009	100 %	100 %	100 %	100 %	100 %	96 %	100 %	100 %	100 %	0 %	100 %	100 %	91 %
06/10/2009	96 %	100 %	98 %	100 %	100 %	100 %	97 %	85 %	100 %	0 %	100 %	100 %	90 %
07/10/2009	96 %	100 %	97 %	100 %	97 %	100 %	92 %	100 %	100 %	0 %	100 %	100 %	90 %
08/10/2009	100 %	100 %	100 %	100 %	100 %	95 %	82 %	96 %	100 %	0 %	100 %	100 %	89 %
09/10/2009	100 %	100 %	100 %	100 %	100 %	94 %	100 %	100 %	100 %	40 %	100 %	100 %	95 %
10/10/2009	100 %	100 %	100 %	100 %	100 %	87 %	100 %	100 %	89 %	100 %	100 %	100 %	98 %
11/10/2009	97 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
12/10/2009	97 %	100 %	100 %	100 %	100 %	100 %	88 %	83 %	100 %	100 %	100 %	100 %	97 %
13/10/2009	100 %	100 %	99 %	100 %	100 %	100 %	100 %	86 %	100 %	86 %	100 %	64 %	95 %
14/10/2009	94 %	100 %	70 %	100 %	100 %	100 %	100 %	60 %	100 %	97 %	96 %	91 %	92 %
15/10/2009	93 %	100 %	54 %	100 %	96 %	100 %	97 %	100 %	100 %	100 %	100 %	100 %	95 %
16/10/2009	96 %	100 %	71 %	100 %	100 %	100 %	64 %	100 %	100 %	100 %	100 %	100 %	94 %
17/10/2009	100 %	100 %	100 %	100 %	98 %	100 %	100 %	100 %	95 %	100 %	100 %	100 %	99 %
18/10/2009	100 %	100 %	97 %	100 %	91 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
19/10/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
20/10/2009	100 %	100 %	100 %	96 %	92 %	100 %	52 %	95 %	100 %	100 %	100 %	100 %	95 %
21/10/2009	96 %	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	100 %	100 %	100 %	91 %
22/10/2009	100 %	100 %	100 %	100 %	100 %	100 %	7 %	100 %	100 %	100 %	100 %	100 %	92 %
23/10/2009	100 %	100 %	98 %	78 %	100 %	98 %	0 %	78 %	90 %	100 %	100 %	100 %	87 %
24/10/2009	100 %	100 %	100 %	100 %	100 %	100 %	0 %	94 %	100 %	100 %	100 %	100 %	91 %
25/10/2009	100 %	100 %	97 %	100 %	100 %	100 %	0 %	100 %	100 %	100 %	100 %	100 %	91 %
26/10/2009	100 %	100 %	100 %	100 %	100 %	100 %	45 %	100 %	100 %	100 %	100 %	94 %	96 %
27/10/2009	100 %	100 %	96 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
28/10/2009	100 %	100 %	76 %	100 %	100 %	100 %	89 %	100 %	100 %	100 %	100 %	100 %	97 %
29/10/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
30/10/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	94 %	100 %	100 %	100 %	100 %	100 %
31/10/2009	100 %	100 %	95 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
Average	99 %	100 %	95 %	99 %	99 %	99 %	72 %	96 %	99 %	83 %	99 %	99 %	95 %

Average Reliability for all sites: 95 %

Average Reliability for 8 best sites 99 %



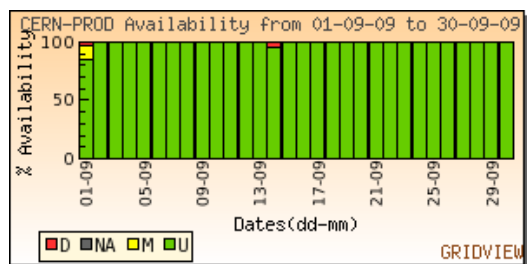
Availability of WLCG Tier-1 Sites + CERN for OPS

September 2009

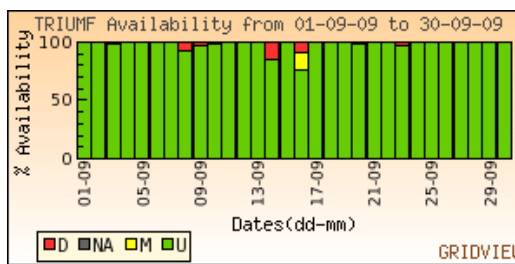
Data from SAM and Gridview

Availability is calculated as $\text{uptime} / (\text{total_time} - \text{time_status_was_UNKNOWN})$

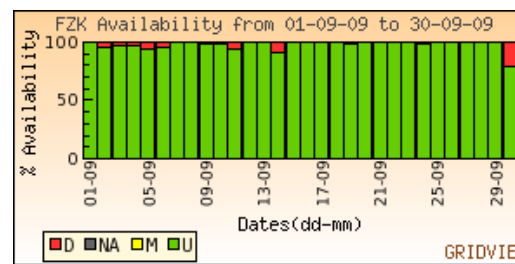
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



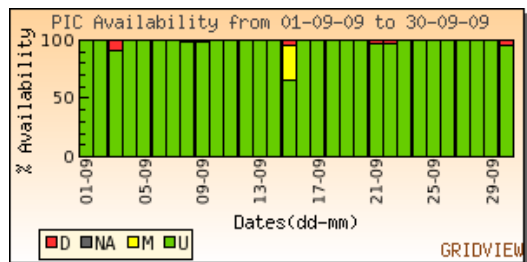
CERN Avail : 99 % Unkn : 0 %



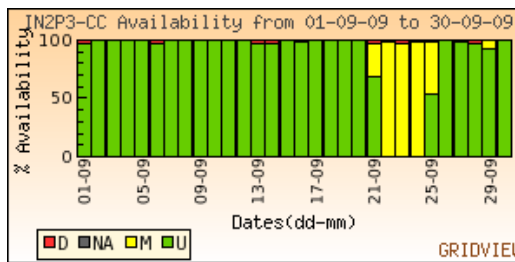
CA-TRIUMF Avail : 98 % Unkn : 0 %



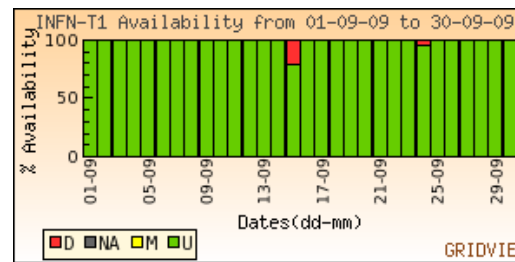
DE-KIT Avail : 98 % Unkn : 0 %



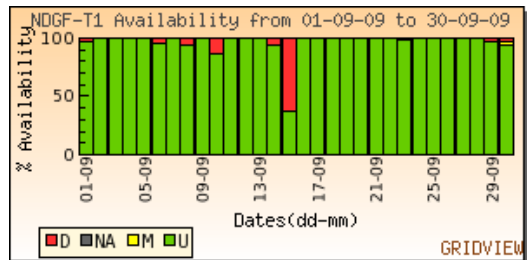
ES-PIC Avail : 98 % Unkn : 0 %



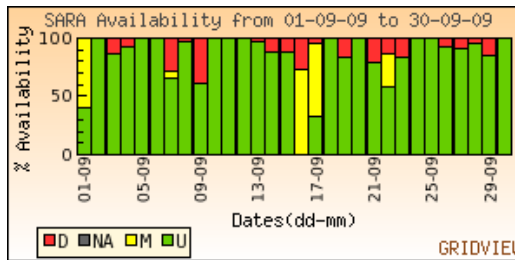
FR-CCIN2P3 Avail : 87 % Unkn : 0 %



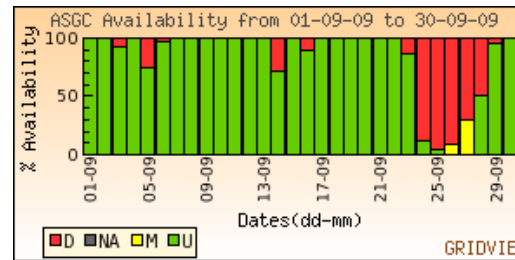
IT-INFN-CNAF Avail : 99 % Unkn : 0 %



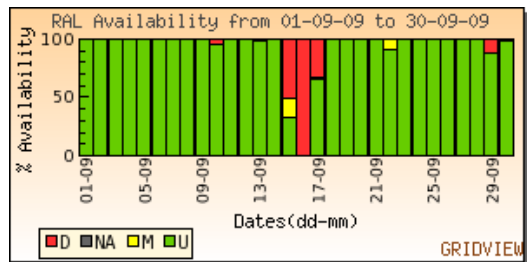
NDGF Avail : 96 % Unkn : 0 %



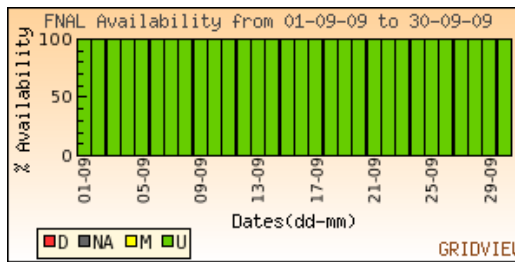
NL-T1 Avail : 84 % Unkn : 0 %



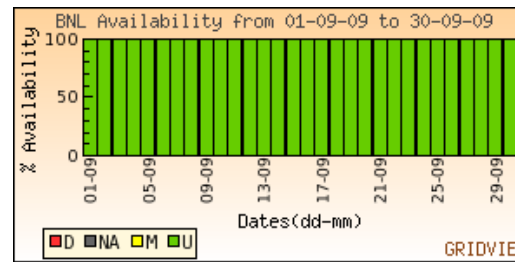
TW-ASGC Avail : 82 % Unkn : 0 %



UK-T1-RAL Avail : 92 % Unkn : 0 %



US-FNAL-CMS Avail : 100 % Unkn : 1 %



US-T1-BNL Avail : 100 % Unkn : 0 %



Service Availability Data for WLCG Tier-1s + CERN for OPS

September 2009

Data from SAM and Gridview

Reliability = uptime / (total_time - scheduled_downtime - time_status_was_UNKNOWN) **Availability** = uptime / (total_time - time_status_was_UNKNOWN)

Target reliability for each site is 97 % and Target for 8 best sites is 98 %

Availability

Colour Coding Limits :

>= TARGET: 97 %

90% OF TARGET:

87 %

Unkn : Unknown

Date	CA-TRIUMF		CERN		DE-KIT		ES-PIC		FR-CCIN2P3		IT-INFN-CNAF		NDGF		NL-T1		TW-ASGC		UK-T1-RAL		US-FNAL-CMS		US-T1-BNL		Average	
	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn
01/09/2009	100	0	85	0	100	0	100	0	97	0	100	0	97	0	40	0	100	0	100	0	100	0	100	0	93	0
02/09/2009	100	0	100	0	96	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
03/09/2009	98	0	100	0	97	0	92	0	100	0	100	0	100	0	86	0	92	0	100	0	100	0	100	0	97	0
04/09/2009	100	0	100	0	97	0	100	0	100	0	100	0	100	0	92	0	100	0	100	0	100	0	100	0	99	0
05/09/2009	100	0	100	0	94	0	100	0	100	0	100	0	100	0	100	0	74	0	100	0	100	0	100	0	97	0
06/09/2009	100	0	100	0	96	0	100	0	97	0	100	0	96	0	100	0	96	0	100	0	100	0	100	0	99	0
07/09/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	65	0	100	0	100	0	100	0	100	0	97	0
08/09/2009	92	0	100	0	100	0	99	0	100	0	100	0	94	0	97	0	100	0	100	0	100	0	100	0	99	0
09/09/2009	97	0	100	0	99	0	99	0	100	0	100	0	100	0	62	0	100	0	100	0	100	0	100	0	96	0
10/09/2009	99	0	100	0	98	0	100	0	100	0	100	0	87	0	100	0	100	0	95	0	100	0	100	0	98	0
11/09/2009	100	0	100	0	95	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
12/09/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
13/09/2009	100	0	100	0	100	0	100	0	97	0	100	0	100	0	98	0	100	0	99	0	100	0	100	0	99	0
14/09/2009	85	0	95	0	92	0	100	0	97	0	100	0	94	0	88	0	71	0	100	0	100	0	100	0	94	0
15/09/2009	100	0	100	0	100	0	66	0	100	0	80	0	38	0	88	0	100	0	33	0	100	0	100	0	84	0
16/09/2009	76	0	100	0	100	0	100	0	99	0	100	0	100	0	0	0	90	0	0	0	100	8	100	0	80	1
17/09/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	33	0	100	0	66	0	100	0	100	0	92	0
18/09/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
19/09/2009	100	0	100	0	99	0	100	0	100	0	100	0	100	0	83	0	100	0	100	0	100	0	100	0	99	0
20/09/2009	98	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
21/09/2009	100	0	100	0	100	0	97	0	68	0	100	0	100	0	79	0	100	0	100	0	100	0	100	0	95	0
22/09/2009	100	0	100	0	100	0	96	0	0	0	100	0	100	0	59	0	100	0	91	0	100	0	100	0	87	0
23/09/2009	97	0	100	0	100	0	100	0	0	0	100	0	98	0	83	0	86	0	100	0	100	0	100	0	89	0
24/09/2009	100	0	100	0	99	0	100	0	0	0	96	0	100	0	100	0	11	0	100	0	100	0	100	0	84	0
25/09/2009	100	0	100	0	100	0	100	0	53	0	100	0	100	0	100	0	4	0	100	0	100	8	100	0	88	1
26/09/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	92	0	0	0	100	0	100	0	100	0	91	0
27/09/2009	100	0	100	0	100	0	100	0	98	0	100	0	100	0	91	0	0	0	100	0	100	0	100	0	91	0
28/09/2009	100	0	100	0	99	0	100	0	97	0	100	0	100	0	95	0	51	0	100	0	100	0	100	0	95	0
29/09/2009	100	0	100	0	100	0	100	0	93	0	100	0	96	0	85	0	96	0	88	0	100	0	100	0	97	0
30/09/2009	100	0	100	0	78	0	96	0	100	0	100	0	94	0	100	0	100	0	98	0	100	0	100	0	97	0
Average	98	0	99	0	98	0	98	0	87	0	99	0	96	0	84	0	82	0	92	0	100	1	100	0	95	0

Average Availability for all sites: 95 %

Average Availability for 8 best sites : 99 %



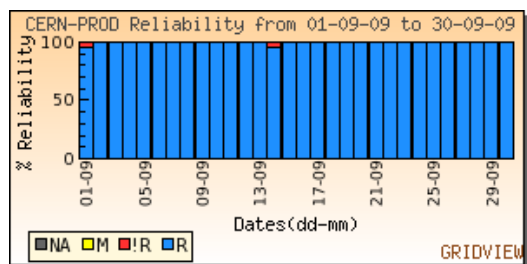
Reliability of WLCG Tier-1 Sites + CERN for OPS

September 2009

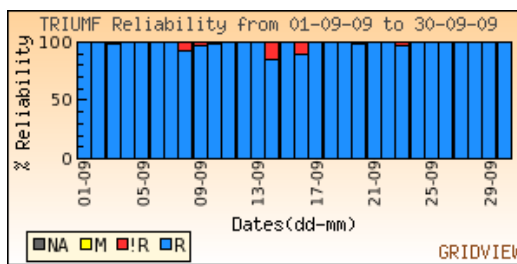
Data from SAM and Gridview

Reliability is calculated as $\text{uptime} / (\text{total_time} - \text{scheduled_downtime} - \text{time_status_was_UNKNOWN})$

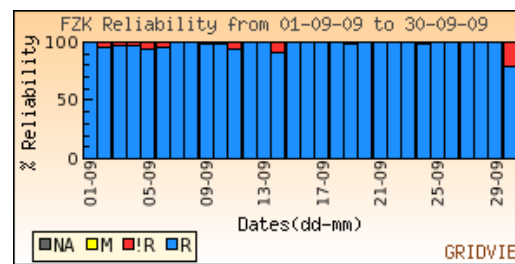
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



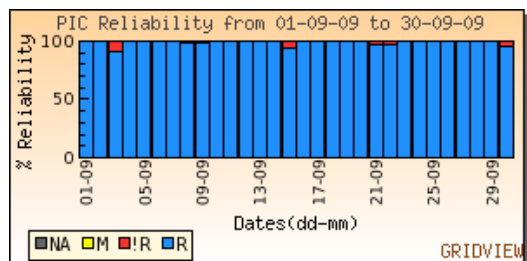
CERN Rel: 100 %



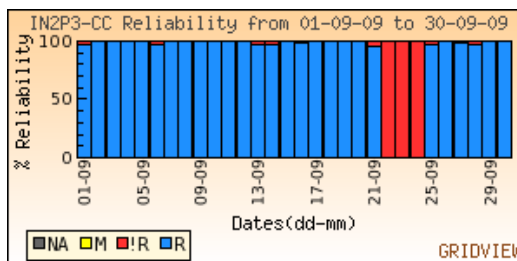
CA-TRIUMF Rel: 99 %



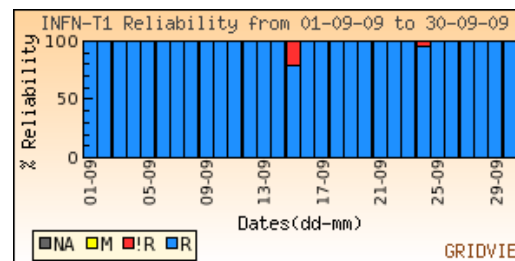
DE-KIT Rel: 98 %



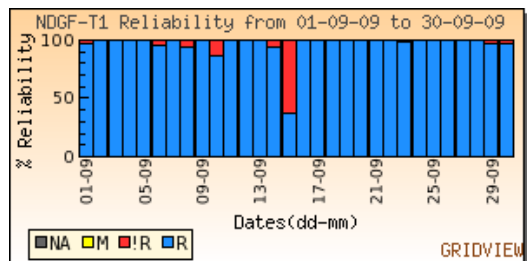
ES-PIC Rel: 99 %



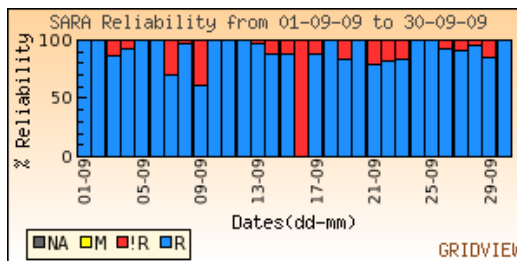
FR-CCIN2P3 Rel: 99 %



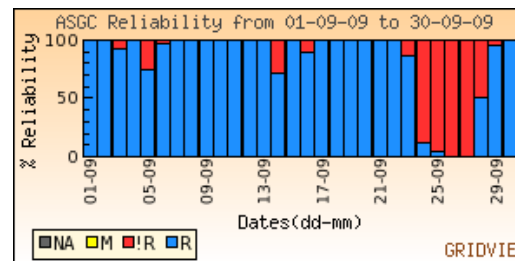
IT-INFN-CNAF Rel: 99 %



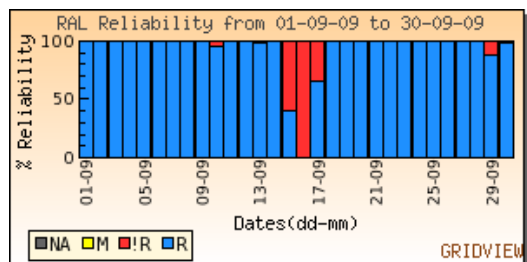
NDGF Rel: 97 %



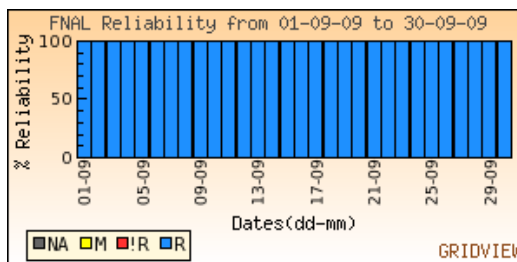
NL-T1 Rel: 91 %



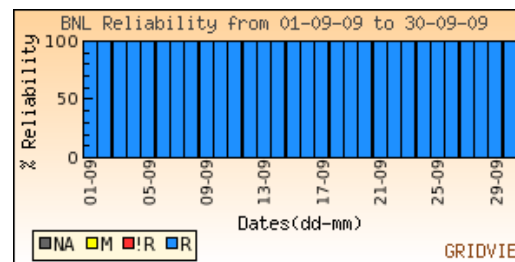
TW-ASGC Rel: 83 %



UK-T1-RAL Rel: 93 %



US-FNAL-CMS Rel: 100 %



US-T1-BNL Rel: 100 %



Service Availability Data for WLCG Tier-1s + CERN for OPS

September 2009

Data from SAM and Gridview

Reliability = uptime / (total_time - scheduled_downtime - time_status_was_UNKNOWN) **Availability** = uptime / (total_time - time_status_was_UNKNOWN)

Target reliability for each site is 97 % and Target for 8 best sites is 98 %

Reliability

Colour Coding Limits :

>= TARGET: 97 %

90% OF TARGET: 87 %

Date	CA-TRIUMF	CERN	DE-KIT	ES-PIC	FR-CCIN2P3	IT-INFN-CNAF	NDGF	NL-T1	TW-ASGC	UK-T1-RAL	US-FNAL-	US-T1-BNL	Average Reliability
01/09/2009	100 %	96 %	100 %	100 %	97 %	100 %	97 %	100 %	100 %	100 %	100 %	100 %	99 %
02/09/2009	100 %	100 %	96 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
03/09/2009	98 %	100 %	97 %	92 %	100 %	100 %	100 %	86 %	92 %	100 %	100 %	100 %	97 %
04/09/2009	100 %	100 %	97 %	100 %	100 %	100 %	100 %	92 %	100 %	100 %	100 %	100 %	99 %
05/09/2009	100 %	100 %	94 %	100 %	100 %	100 %	100 %	100 %	74 %	100 %	100 %	100 %	97 %
06/09/2009	100 %	100 %	96 %	100 %	97 %	100 %	96 %	100 %	96 %	100 %	100 %	100 %	99 %
07/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	70 %	100 %	100 %	100 %	100 %	98 %
08/09/2009	92 %	100 %	100 %	99 %	100 %	100 %	94 %	97 %	100 %	100 %	100 %	100 %	99 %
09/09/2009	97 %	100 %	99 %	99 %	100 %	100 %	100 %	62 %	100 %	100 %	100 %	100 %	96 %
10/09/2009	99 %	100 %	98 %	100 %	100 %	100 %	87 %	100 %	100 %	95 %	100 %	100 %	98 %
11/09/2009	100 %	100 %	95 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
12/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
13/09/2009	100 %	100 %	100 %	100 %	97 %	100 %	100 %	98 %	100 %	99 %	100 %	100 %	99 %
14/09/2009	85 %	95 %	92 %	100 %	97 %	100 %	94 %	88 %	71 %	100 %	100 %	100 %	94 %
15/09/2009	100 %	100 %	100 %	93 %	100 %	80 %	38 %	88 %	100 %	40 %	100 %	100 %	87 %
16/09/2009	90 %	100 %	100 %	100 %	99 %	100 %	100 %	0 %	90 %	0 %	100 %	100 %	87 %
17/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	89 %	100 %	66 %	100 %	100 %	97 %
18/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
19/09/2009	100 %	100 %	99 %	100 %	100 %	100 %	100 %	83 %	100 %	100 %	100 %	100 %	99 %
20/09/2009	98 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
21/09/2009	100 %	100 %	100 %	97 %	96 %	100 %	100 %	79 %	100 %	100 %	100 %	100 %	98 %
22/09/2009	100 %	100 %	100 %	96 %	0 %	100 %	100 %	82 %	100 %	100 %	100 %	100 %	98 %
23/09/2009	97 %	100 %	100 %	100 %	0 %	100 %	98 %	83 %	86 %	100 %	100 %	100 %	97 %
24/09/2009	100 %	100 %	99 %	100 %	0 %	96 %	100 %	100 %	11 %	100 %	100 %	100 %	91 %
25/09/2009	100 %	100 %	100 %	100 %	97 %	100 %	100 %	100 %	4 %	100 %	100 %	100 %	91 %
26/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	92 %	0 %	100 %	100 %	100 %	92 %
27/09/2009	100 %	100 %	100 %	100 %	98 %	100 %	100 %	91 %	0 %	100 %	100 %	100 %	93 %
28/09/2009	100 %	100 %	99 %	100 %	97 %	100 %	100 %	95 %	51 %	100 %	100 %	100 %	95 %
29/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	96 %	85 %	96 %	88 %	100 %	100 %	97 %
30/09/2009	100 %	100 %	78 %	96 %	100 %	100 %	98 %	100 %	100 %	98 %	100 %	100 %	97 %
Average	99 %	100 %	98 %	99 %	99 %	99 %	97 %	91 %	83 %	93 %	100 %	100 %	96 %

Average Reliability for all sites: 96 %

Average Reliability for 8 best sites 99 %