



Availability of WLCG Tier-1 Sites + CERN for CMS

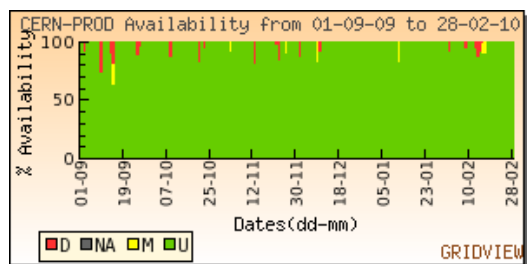
September 2009 - February 2010

Data from SAM and Gridview

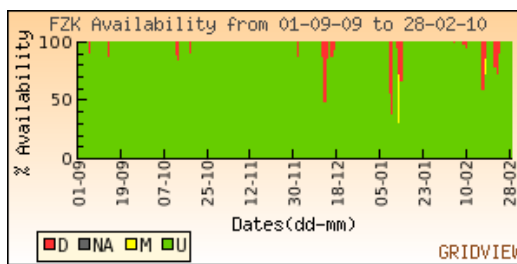
Plots show Availability for last 6 Months

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

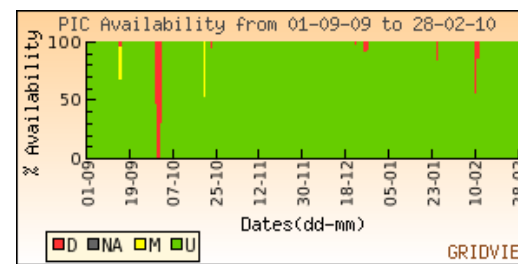
Target reliability for each site is 97 % and Target for 8 best sites is 98 % from January, 2009



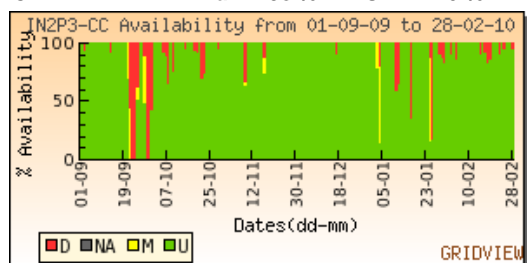
CERN Avail : 98 % Unkn : 0 %



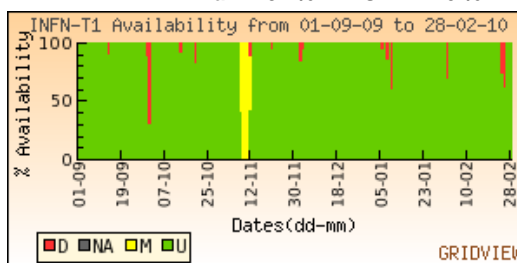
DE-KIT Avail : 97 % Unkn : 0 %



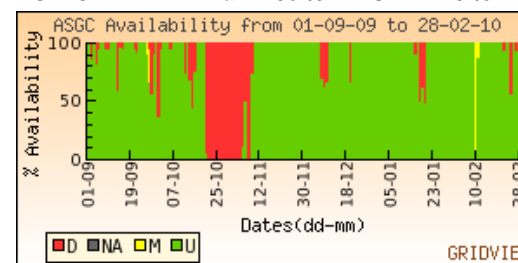
ES-PIC Avail : 98 % Unkn : 0 %



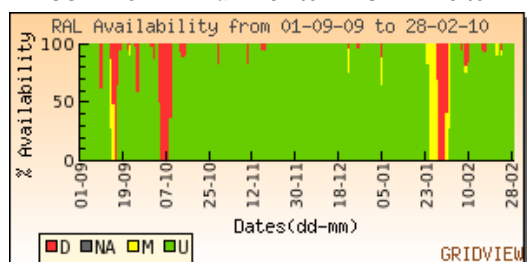
FR-CCIN2P3 Avail : 92 % Unkn : 0 %



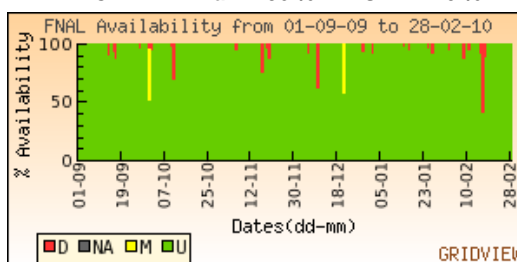
IT-INFN-CNAF Avail : 96 % Unkn : 0 %



TW-ASGC Avail : 85 % Unkn : 0 %



UK-T1-RAL Avail : 89 % Unkn : 0 %



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



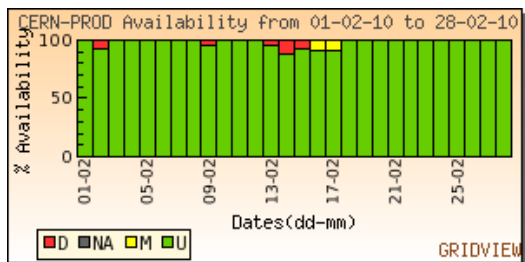
Availability of WLCG Tier-1 Sites + CERN for CMS

February 2010

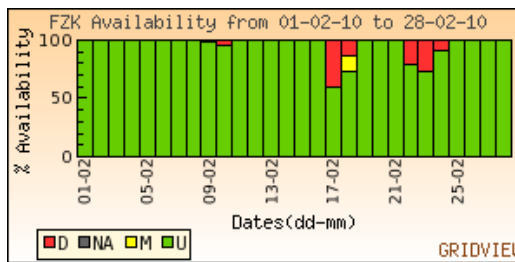
Data from SAM and Gridview

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

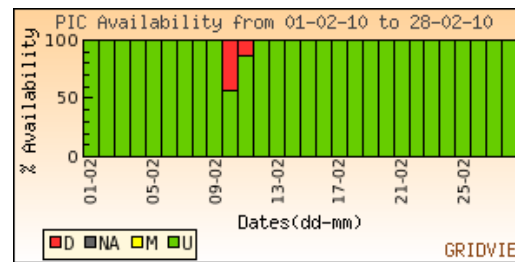
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



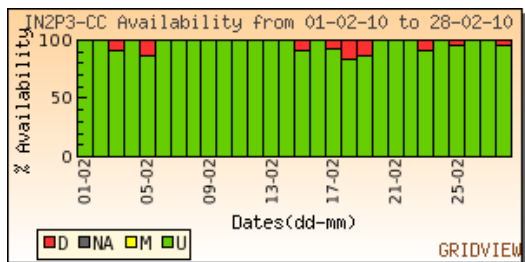
CERN Avail : 98 % Unkn : 0 %



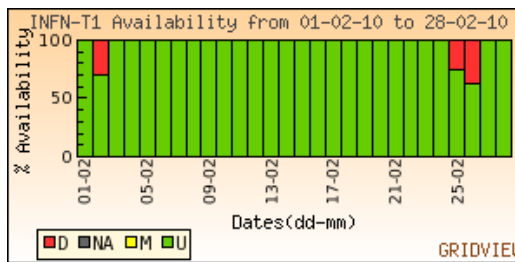
DE-KIT Avail : 95 % Unkn : 0 %



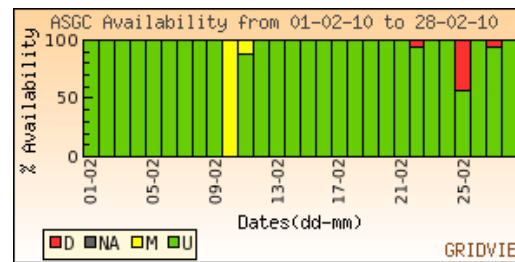
ES-PIC Avail : 98 % Unkn : 0 %



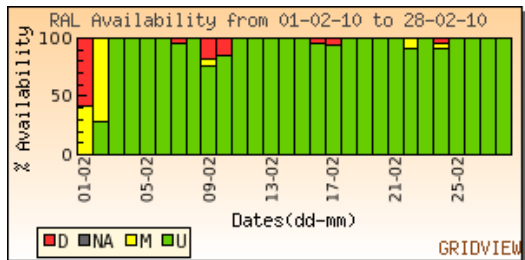
FR-CCIN2P3 Avail : 97 % Unkn : 0 %



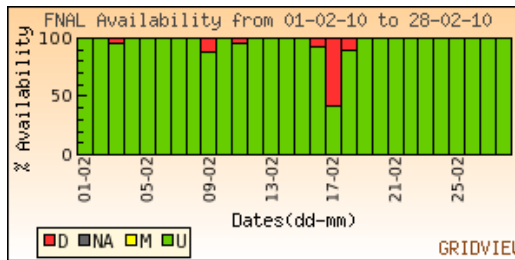
IT-INFN-CNAF Avail : 97 % Unkn : 0 %



TW-ASGC Avail : 94 % Unkn : 0 %



UK-T1-RAL Avail : 91 % Unkn : 0 %



US-FNAL-CMS Avail : 97 % Unkn : 0 %



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

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	CERN		DE-KIT		ES-PIC		FR-CCIN2P3		IT-INFN-CNAF		TW-ASGC		UK-T1-RAL		US-FNAL-CMS		Average	
	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	100	0	100	0	100	0	100	0	0	0	100	0	88	0
02/02/2010	92	0	100	0	100	0	100	0	71	0	100	0	28	0	100	0	86	0
03/02/2010	100	0	100	0	100	0	91	0	100	0	100	0	100	0	96	0	98	0
04/02/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
05/02/2010	100	0	100	0	100	0	86	0	100	0	100	0	100	0	100	0	98	0
06/02/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
07/02/2010	100	0	100	0	100	0	100	0	100	0	100	0	96	0	100	0	99	0
08/02/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
09/02/2010	96	0	98	0	100	0	100	0	100	0	100	0	76	0	87	0	95	0
10/02/2010	100	0	96	0	57	0	100	0	100	0	0	0	85	0	100	0	80	0
11/02/2010	100	0	100	0		0	100	0	100	0	88	0	100	0	96	0	96	0
12/02/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
13/02/2010	96	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
14/02/2010	87	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	98	0
15/02/2010	92	0	100	0	100	0	91	0	100	0	100	0	100	0	100	0	98	0
16/02/2010	91	0	100	0	100	0	100	0	100	0	100	0	96	0	92	0	97	0
17/02/2010	92	0	60	0	100	0	92	0	100	0	100	0	94	0	42	0	85	0
18/02/2010	100	0	74	0	100	0	84	0	100	0	100	0	100	0	89	0	93	0
19/02/2010	100	0	100	0	100	0		0	100	0	100	0	100	0	100	0	98	0
20/02/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
21/02/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
22/02/2010	100	0	80	0	100	0	100	0	100	0	94	0	91	0	100	0	96	0
23/02/2010	100	0	73	0	100	0	92	0	100	0	100	0	100	0	100	0	96	0
24/02/2010	100	0	92	0	100	0	100	0	100	0	100	0	91	0	100	0	98	0
25/02/2010	100	0	100	0	100	0	96	0	74	0	56	0	100	0	100	0	91	0
26/02/2010	100	0	100	0	100	0	100	0	63	0	100	0	100	0	100	0	95	0
27/02/2010	100	0	100	0	100	0	100	0	100	0	94	0	100	0	100	0	99	0
28/02/2010	100	0	100	0	100	0	96	0	100	0	100	0	100	0	100	0	99	0
Average	98	0	95	0	98	0	97	0	97	0	94	0	91	0	97	0	96	0

Average Availability for all sites: 96 %

Average Availability for 8 best sites : 96 %



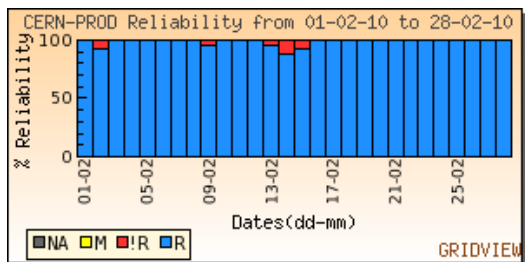
Reliability of WLCG Tier-1 Sites + CERN for CMS

February 2010

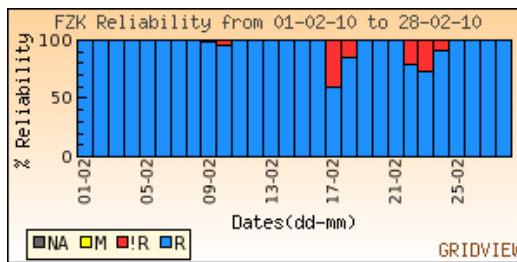
Data from SAM and Gridview

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

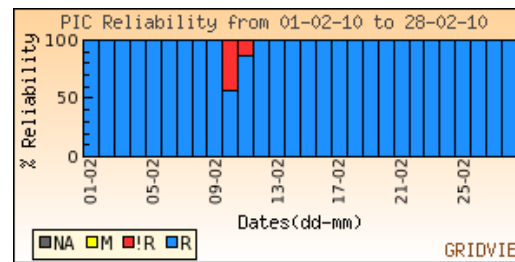
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



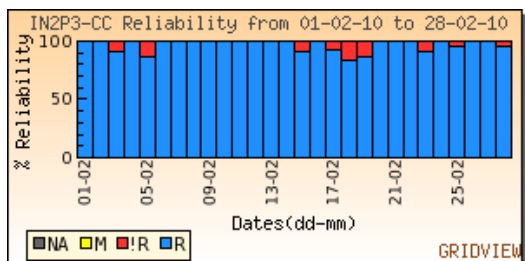
CERN Rel : 99 %



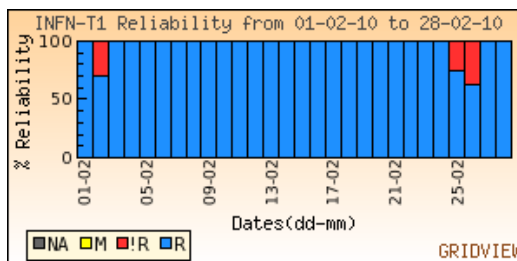
DE-KIT Rel : 96 %



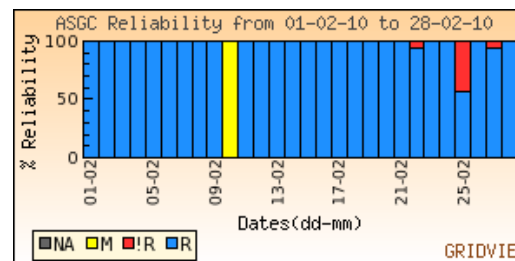
ES-PIC Rel : 98 %



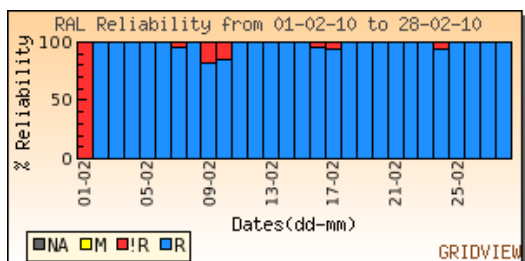
FR-CCIN2P3 Rel : 97 %



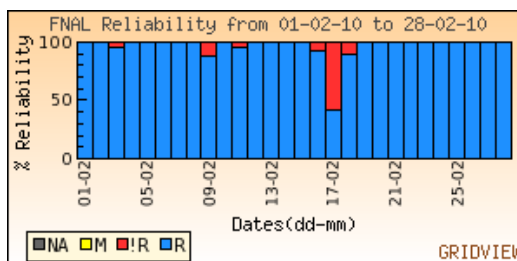
IT-INFN-CNAF Rel : 97 %



TW-ASGC Rel : 98 %



UK-T1-RAL Rel : 96 %



US-FNAL-CMS Rel : 97 %



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

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	CERN	DE-KIT	ES-PIC	FR-CCIN2P3	IT-INFN-CNAF	TW-ASGC	UK-T1-RAL	US-FNAL-	Average Reliability
01/02/2010	100 %	100 %	100 %	100 %	100 %	100 %	0 %	100 %	92 %
02/02/2010	92 %	100 %	100 %	100 %	71 %	100 %	100 %	100 %	95 %
03/02/2010	100 %	100 %	100 %	91 %	100 %	100 %	100 %	96 %	98 %
04/02/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
05/02/2010	100 %	100 %	100 %	86 %	100 %	100 %	100 %	100 %	98 %
06/02/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
07/02/2010	100 %	100 %	100 %	100 %	100 %	100 %	96 %	100 %	99 %
08/02/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
09/02/2010	96 %	98 %	100 %	100 %	100 %	100 %	81 %	87 %	95 %
10/02/2010	100 %	96 %	57 %	100 %	100 %	N/A	85 %	100 %	91 %
11/02/2010	100 %	100 %	87 %	100 %	100 %	100 %	100 %	96 %	98 %
12/02/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
13/02/2010	96 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
14/02/2010	87 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	98 %
15/02/2010	92 %	100 %	100 %	91 %	100 %	100 %	100 %	100 %	98 %
16/02/2010	99 %	100 %	100 %	100 %	100 %	100 %	96 %	92 %	98 %
17/02/2010	100 %	60 %	100 %	92 %	100 %	100 %	94 %	42 %	86 %
18/02/2010	100 %	85 %	100 %	84 %	100 %	100 %	100 %	89 %	95 %
19/02/2010	100 %	100 %	100 %	87 %	100 %	100 %	100 %	100 %	98 %
20/02/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
21/02/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
22/02/2010	100 %	80 %	100 %	100 %	100 %	94 %	100 %	100 %	97 %
23/02/2010	100 %	73 %	100 %	92 %	100 %	100 %	100 %	100 %	96 %
24/02/2010	100 %	92 %	100 %	100 %	100 %	100 %	95 %	100 %	98 %
25/02/2010	100 %	100 %	100 %	96 %	74 %	56 %	100 %	100 %	91 %
26/02/2010	100 %	100 %	100 %	100 %	63 %	100 %	100 %	100 %	95 %
27/02/2010	100 %	100 %	100 %	100 %	100 %	94 %	100 %	100 %	99 %
28/02/2010	100 %	100 %	100 %	96 %	100 %	100 %	100 %	100 %	99 %
Average	99 %	96 %	98 %	97 %	97 %	98 %	96 %	97 %	97 %

Average Reliability for all sites: 97 %

Average Reliability for 8 best sites 97 %



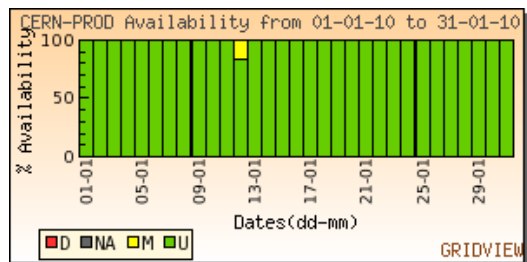
Availability of WLCG Tier-1 Sites + CERN for CMS

January 2010

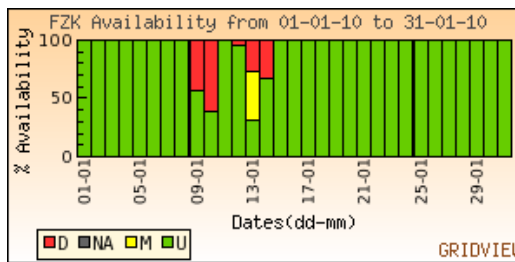
Data from SAM and Gridview

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

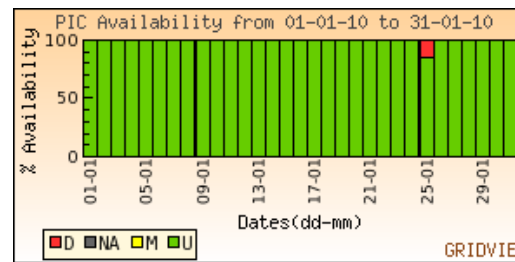
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



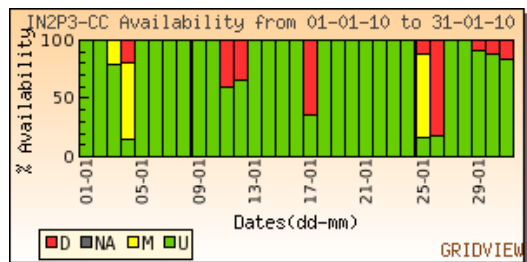
CERN Avail : 99 % Unkn : 0 %



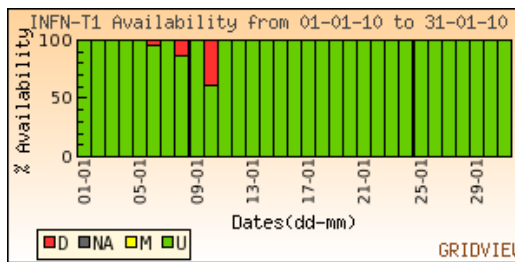
DE-KIT Avail : 93 % Unkn : 0 %



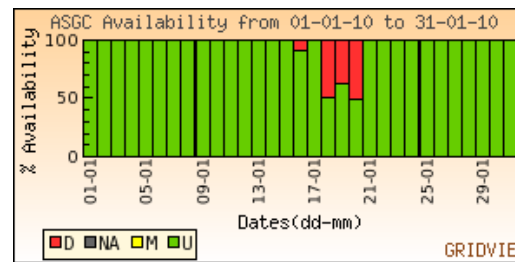
ES-PIC Avail : 99 % Unkn : 0 %



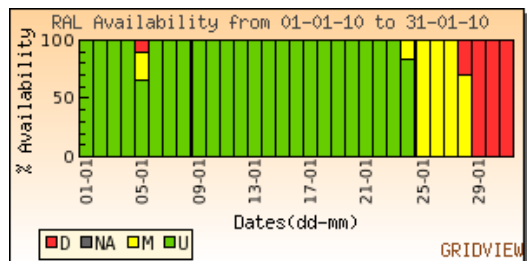
FR-CCIN2P3 Avail : 86 % Unkn : 0 %



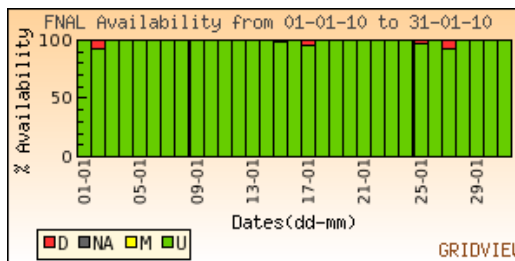
IT-INFN-CNAF Avail : 98 % Unkn : 0 %



TW-ASGC Avail : 95 % Unkn : 0 %



UK-T1-RAL Avail : 76 % Unkn : 1 %



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



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

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	CERN		DE-KIT		ES-PIC		FR-CCIN2P3		IT-INFN-CNAF		TW-ASGC		UK-T1-RAL		US-FNAL-CMS		Average	
	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
02/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	92	0	99	0
03/01/2010	100	0	100	0	100	0	79	0	100	0	100	0	100	0	100	0	97	0
04/01/2010	100	0	100	0	100	0	14	0	100	0	100	0	100	0	100	0	89	0
05/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	65	17	100	0	96	2
06/01/2010	100	0	100	0	100	0	100	0	96	0	100	0	100	0	100	0	99	0
07/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
08/01/2010	100	0	100	0	100	0	100	0		0	100	0	100	0	100	0	98	0
09/01/2010	100	0	57	0	100	0	100	0	100	0	100	0	100	0	100	0	95	0
10/01/2010	100	0	39	0	100	0	100	0	62	0	100	0	100	0	100	0	88	0
11/01/2010	100	0	100	0	100	0	59	0	100	0	100	0	100	0	100	0	95	0
12/01/2010	83	0	96	0	100	0	66	0	100	0	100	0	100	0	100	0	93	0
13/01/2010	100	0	31	0	100	0	100	0	100	0	100	0	100	0	100	0	91	0
14/01/2010	100	0	67	0	100	0	100	0	100	0	100	0	100	0	100	0	96	0
15/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0	100	0
16/01/2010	100	0	100	0	100	0	100	0	100	0	92	0	100	0	100	0	99	0
17/01/2010	100	0	100	0	100	0	36	0	100	0	100	0	100	0	96	0	92	0
18/01/2010	100	0	100	0	100	0	100	0	100	0	50	0	100	0	100	0	94	0
19/01/2010	100	0	100	0	100	0	100	0	100	0	63	0	100	0	100	0	95	0
20/01/2010	100	0	100	0	100	0	100	0	100	0	50	0	100	0	100	0	94	0
21/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
22/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
23/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
24/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	83	0	100	0	98	0
25/01/2010	100	0	100	0	84	0	17	0	100	0	100	0	0	0	97	0	75	0
26/01/2010	100	0	100	0	100	0	18	0	100	0	100	0	0	0	100	0	77	0
27/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	0	0	92	0	86	0
28/01/2010	100	0	100	0	100	0	100	0	100	0	100	0	0	0	100	0	88	0
29/01/2010	100	0	100	0	100	0	92	0	100	0	100	0	0	0	100	0	86	0
30/01/2010	100	0	100	0	100	0	88	0	100	0	100	0	0	0	100	0	86	0
31/01/2010	100	0	100	0	100	0	84	0	100	0	100	0	0	0	100	0	85	0
Average	99	0	93	0	99	0	86	0	98	0	95	0	76	1	99	0	93	0

Average Availability for all sites: 93 %

Average Availability for 8 best sites : 93 %



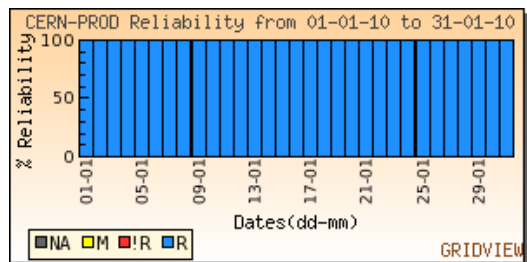
Reliability of WLCG Tier-1 Sites + CERN for CMS

January 2010

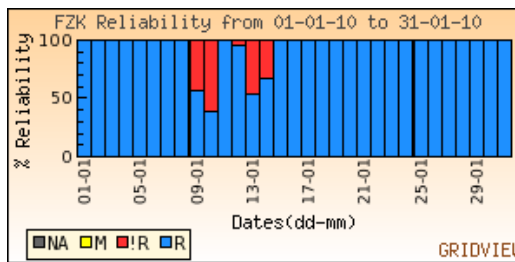
Data from SAM and Gridview

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

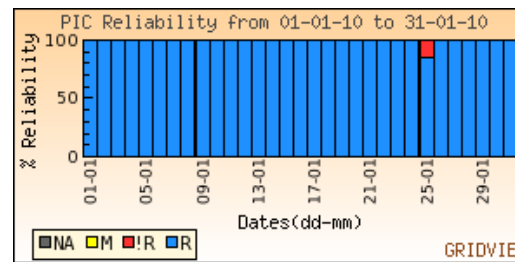
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



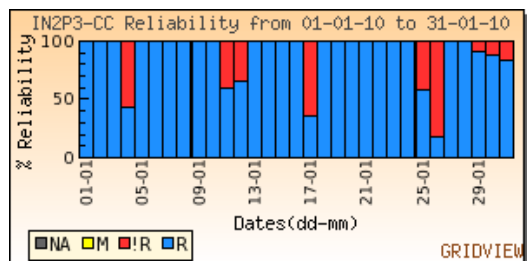
CERN Rel : 100 %



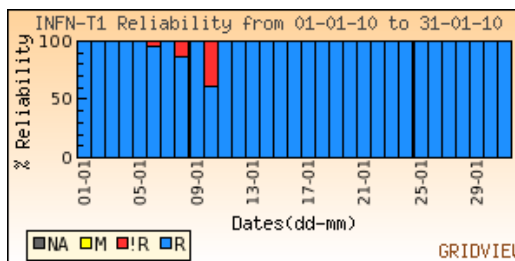
DE-KIT Rel : 94 %



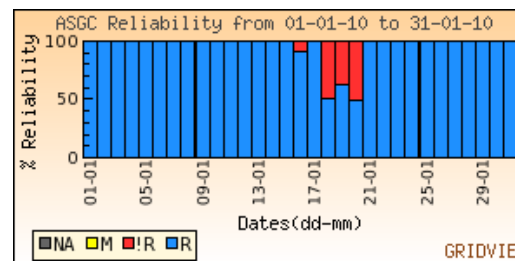
ES-PIC Rel : 99 %



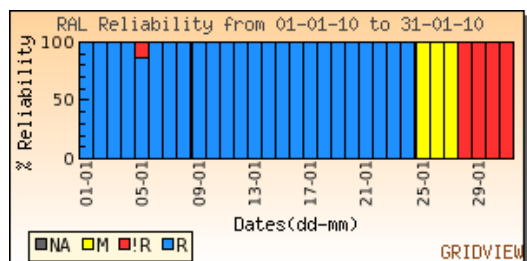
FR-CCIN2P3 Rel : 90 %



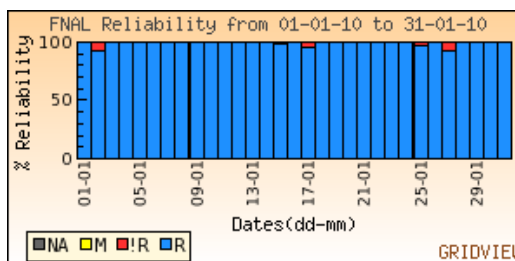
IT-INFN-CNAF Rel : 98 %



TW-ASGC Rel : 95 %



UK-T1-RAL Rel : 87 %



US-FNAL-CMS Rel : 99 %



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

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	CERN	DE-KIT	ES-PIC	FR-CCIN2P3	IT-INFN-CNAF	TW-ASGC	UK-T1-RAL	US-FNAL-	Average Reliability
01/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
02/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	92 %	99 %
03/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
04/01/2010	100 %	100 %	100 %	43 %	100 %	100 %	100 %	100 %	97 %
05/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	87 %	100 %	99 %
06/01/2010	100 %	100 %	100 %	100 %	96 %	100 %	100 %	100 %	99 %
07/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
08/01/2010	100 %	100 %	100 %	100 %	87 %	100 %	100 %	100 %	98 %
09/01/2010	100 %	57 %	100 %	100 %	100 %	100 %	100 %	100 %	95 %
10/01/2010	100 %	39 %	100 %	100 %	62 %	100 %	100 %	100 %	88 %
11/01/2010	100 %	100 %	100 %	59 %	100 %	100 %	100 %	100 %	95 %
12/01/2010	100 %	96 %	100 %	66 %	100 %	100 %	100 %	100 %	95 %
13/01/2010	100 %	54 %	100 %	100 %	100 %	100 %	100 %	100 %	96 %
14/01/2010	100 %	67 %	100 %	100 %	100 %	100 %	100 %	100 %	96 %
15/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %	100 %
16/01/2010	100 %	100 %	100 %	100 %	100 %	92 %	100 %	100 %	99 %
17/01/2010	100 %	100 %	100 %	36 %	100 %	100 %	100 %	96 %	92 %
18/01/2010	100 %	100 %	100 %	100 %	100 %	50 %	100 %	100 %	94 %
19/01/2010	100 %	100 %	100 %	100 %	100 %	63 %	100 %	100 %	95 %
20/01/2010	100 %	100 %	100 %	100 %	100 %	50 %	100 %	100 %	94 %
21/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
22/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
23/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
24/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
25/01/2010	100 %	100 %	84 %	59 %	100 %	100 %	N/A	97 %	95 %
26/01/2010	100 %	100 %	100 %	18 %	100 %	100 %	N/A	100 %	88 %
27/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	N/A	92 %	99 %
28/01/2010	100 %	100 %	100 %	100 %	100 %	100 %	0 %	100 %	96 %
29/01/2010	100 %	100 %	100 %	92 %	100 %	100 %	0 %	100 %	86 %
30/01/2010	100 %	100 %	100 %	88 %	100 %	100 %	0 %	100 %	86 %
31/01/2010	100 %	100 %	100 %	84 %	100 %	100 %	0 %	100 %	85 %
Average	100 %	94 %	99 %	90 %	98 %	95 %	87 %	99 %	96 %

Average Reliability for all sites: 96 %

Average Reliability for 8 best sites 96 %



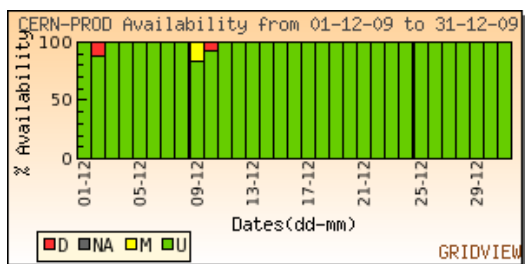
Availability of WLCG Tier-1 Sites + CERN for CMS

December 2009

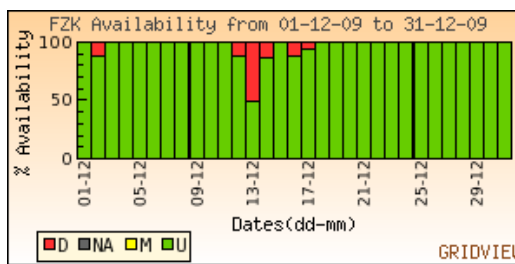
Data from SAM and Gridview

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

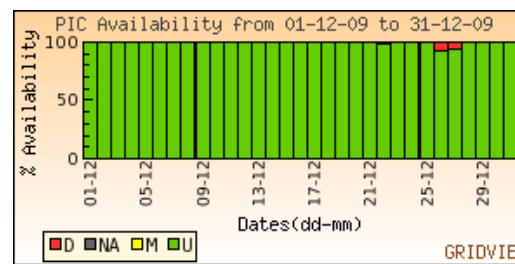
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



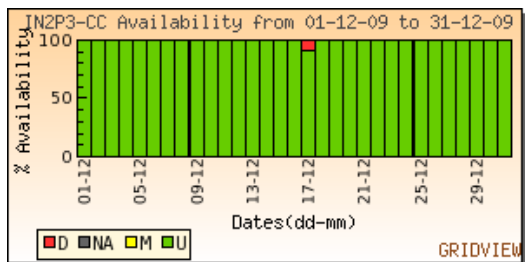
CERN Avail : 99 % Unkn : 0 %



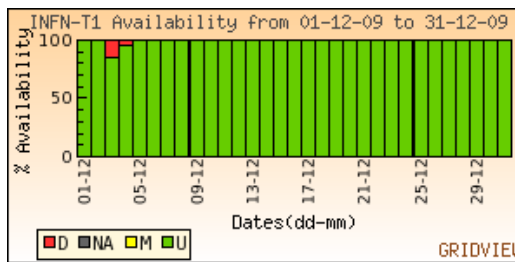
DE-KIT Avail : 97 % Unkn : 0 %



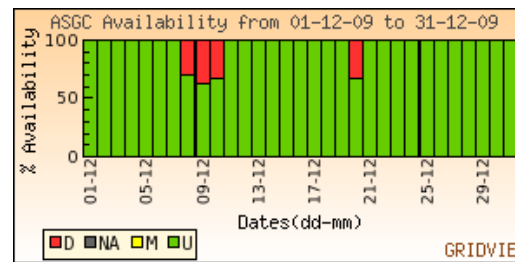
ES-PIC Avail : 100 % Unkn : 1 %



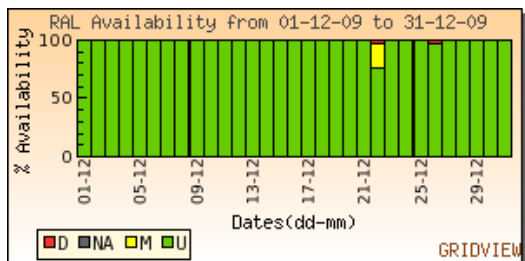
FR-CCIN2P3 Avail : 100 % Unkn : 0 %



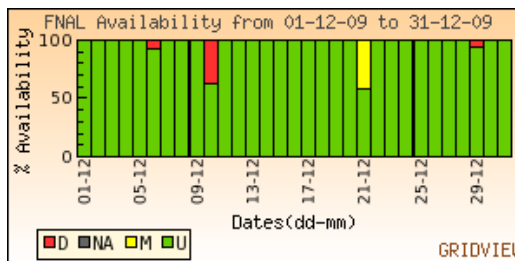
IT-INFN-CNAF Avail : 99 % Unkn : 0 %



TW-ASGC Avail : 96 % Unkn : 0 %



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



US-FNAL-CMS Avail : 97 % Unkn : 0 %



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

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	CERN		DE-KIT		ES-PIC		FR-CCIN2P3		IT-INFN-CNAF		TW-ASGC		UK-T1-RAL		US-FNAL-CMS		Average	
	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	100	0	100	0	100	0	100	0	100	0	100	0	100	0
02/12/2009	88	0	87	0	100	13	100	13	100	13	100	14	100	14	100	13	97	10
03/12/2009	100	0	100	0	100	0	100	0	85	0	100	0	100	0	100	0	98	0
04/12/2009	100	0	100	0	100	0	100	0	95	0	100	0	100	0	100	0	99	0
05/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
06/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	92	0	99	0
07/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
08/12/2009	100	0	100	0	100	0	100	0	100	0	71	0	100	0	100	0	96	0
09/12/2009	83	0	100	0	100	0	100	0	100	0	62	0	100	0	100	0	93	0
10/12/2009	92	0	100	0	100	0	100	0	100	0	67	0	100	0	62	0	90	0
11/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
12/12/2009	100	0	87	0	100	0	100	0	100	0	100	0	100	0	100	0	98	0
13/12/2009	100	0	49	0	100	0	100	0	100	0	100	0	100	0	100	0	94	0
14/12/2009	100	0	87	0	100	0	100	0	100	0	100	0	100	0	100	0	98	0
15/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
16/12/2009	100	0	89	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
17/12/2009	100	0	94	0	100	0	92	0	100	0	100	0	100	0	100	0	98	0
18/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
19/12/2009	100	0	100	0	100	8	100	0	100	0	100	0	100	0	100	0	100	1
20/12/2009	100	0	100	0	100	0	100	0	100	0	67	0	100	0	100	0	96	0
21/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	59	0	95	0
22/12/2009	100	0	100	0	99	0	100	0	100	0	100	0	77	0	100	0	97	0
23/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
24/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
25/12/2009	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	93	0	100	0	100	0	100	0	97	0	100	0	99	0
27/12/2009	100	0	100	0	94	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
29/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	95	0	99	0
30/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
31/12/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
Average	99	0	97	0	100	1	100	0	99	0	96	0	99	0	97	0	98	0

Average Availability for all sites: 98 %

Average Availability for 8 best sites : 98 %



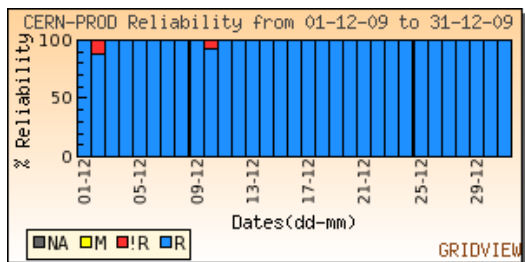
Reliability of WLCG Tier-1 Sites + CERN for CMS

December 2009

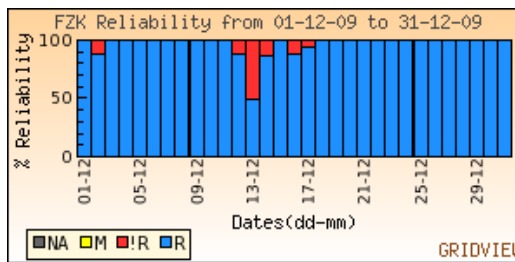
Data from SAM and Gridview

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

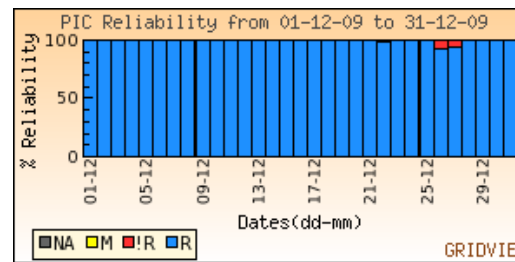
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



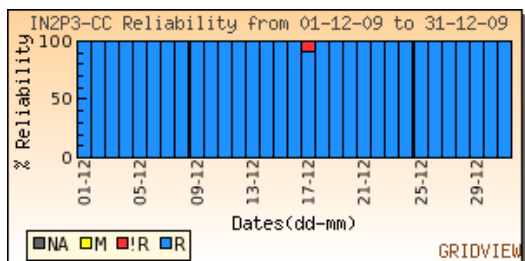
CERN Rel : 99 %



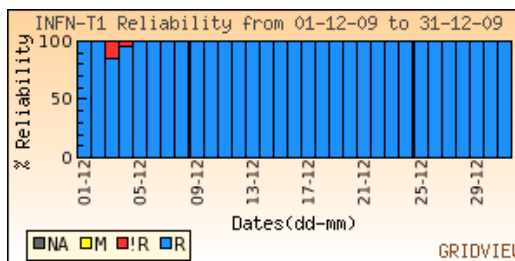
DE-KIT Rel : 97 %



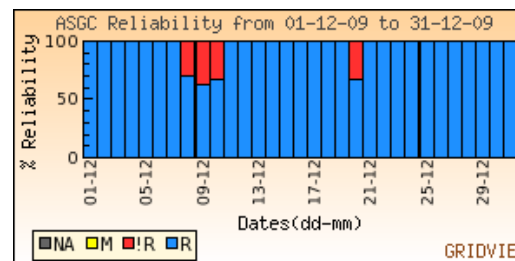
ES-PIC Rel : 100 %



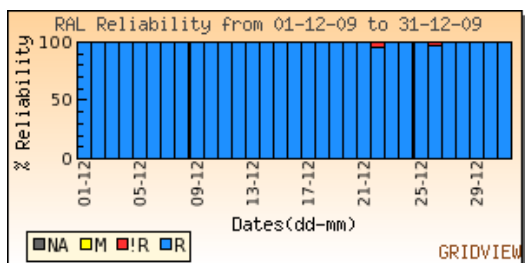
FR-CCIN2P3 Rel : 100 %



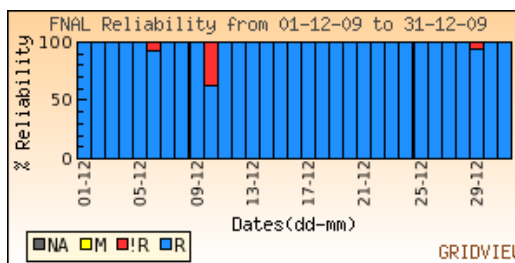
IT-INFN-CNAF Rel : 99 %



TW-ASGC Rel : 96 %



UK-T1-RAL Rel : 100 %



US-FNAL-CMS Rel : 98 %



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

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	CERN	DE-KIT	ES-PIC	FR-CCIN2P3	IT-INFN-CNAF	TW-ASGC	UK-T1-RAL	US-FNAL	Average Reliability
01/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
02/12/2009	88 %	87 %	100 %	100 %	100 %	100 %	100 %	100 %	97 %
03/12/2009	100 %	100 %	100 %	100 %	85 %	100 %	100 %	100 %	98 %
04/12/2009	100 %	100 %	100 %	100 %	95 %	100 %	100 %	100 %	99 %
05/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
06/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	92 %	99 %
07/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
08/12/2009	100 %	100 %	100 %	100 %	100 %	71 %	100 %	100 %	96 %
09/12/2009	100 %	100 %	100 %	100 %	100 %	62 %	100 %	100 %	95 %
10/12/2009	92 %	100 %	100 %	100 %	100 %	67 %	100 %	62 %	90 %
11/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
12/12/2009	100 %	87 %	100 %	100 %	100 %	100 %	100 %	100 %	98 %
13/12/2009	100 %	49 %	100 %	100 %	100 %	100 %	100 %	100 %	94 %
14/12/2009	100 %	87 %	100 %	100 %	100 %	100 %	100 %	100 %	98 %
15/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
16/12/2009	100 %	89 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
17/12/2009	100 %	94 %	100 %	92 %	100 %	100 %	100 %	100 %	98 %
18/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
19/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
20/12/2009	100 %	100 %	100 %	100 %	100 %	67 %	100 %	100 %	96 %
21/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
22/12/2009	100 %	100 %	99 %	100 %	100 %	100 %	96 %	100 %	99 %
23/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
24/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
25/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
26/12/2009	100 %	100 %	93 %	100 %	100 %	100 %	97 %	100 %	99 %
27/12/2009	100 %	100 %	94 %	100 %	100 %	100 %	100 %	100 %	99 %
28/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
29/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	95 %	99 %
30/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
31/12/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
Average	99 %	97 %	100 %	100 %	99 %	96 %	100 %	98 %	99 %

Average Reliability for all sites: 99 %

Average Reliability for 8 best sites 99 %



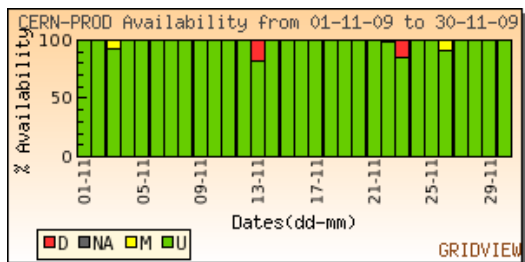
Availability of WLCG Tier-1 Sites + CERN for CMS

November 2009

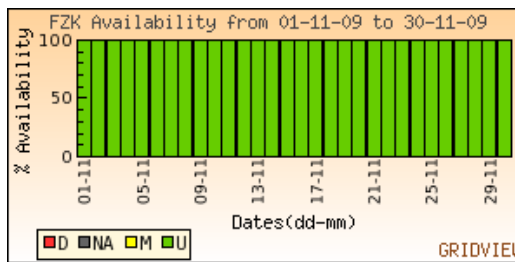
Data from SAM and Gridview

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

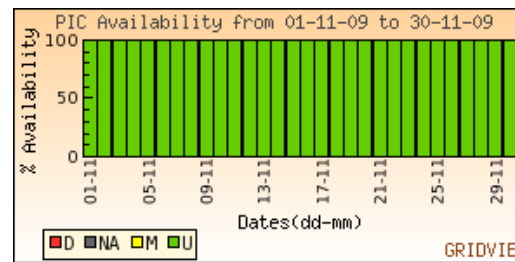
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



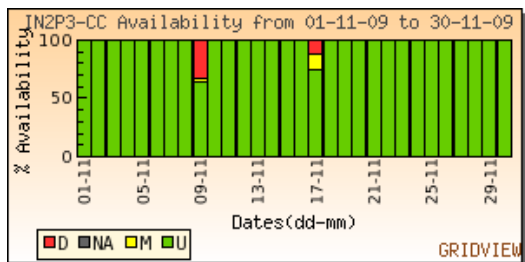
CERN Avail : 98 % Unkn : 0 %



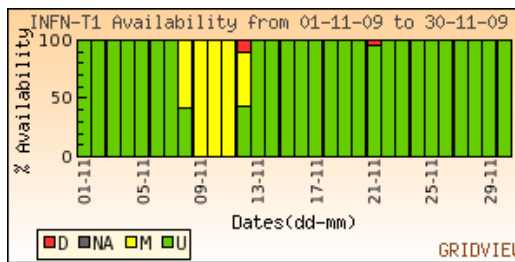
DE-KIT Avail : 100 % Unkn : 0 %



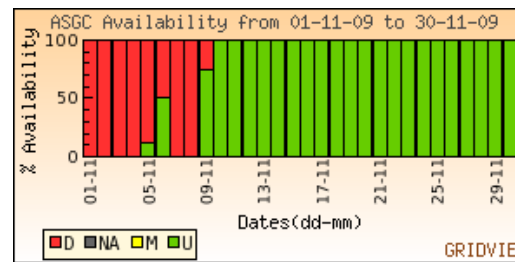
ES-PIC Avail : 100 % Unkn : 0 %



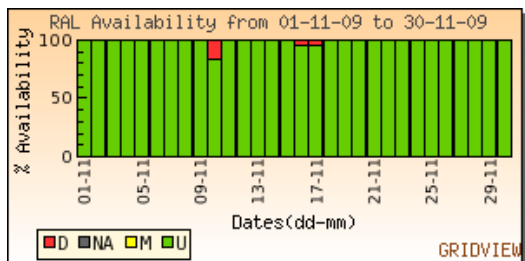
FR-CCIN2P3 Avail : 98 % Unkn : 0 %



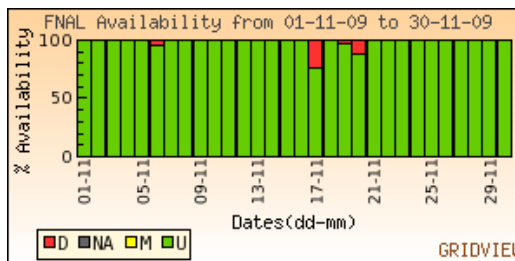
IT-INFN-CNAF Avail : 86 % Unkn : 0 %



TW-ASGC Avail : 75 % Unkn : 0 %



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



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



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

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	CERN		DE-KIT		ES-PIC		FR-CCIN2P3		IT-INFN-CNAF		TW-ASGC		UK-T1-RAL		US-FNAL-CMS		Average	
	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	100	0	0	0	100	0	100	0	88	0
02/11/2009	100	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	88	0
03/11/2009	93	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	87	0
04/11/2009	100	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	88	0
05/11/2009	100	0	100	0	100	0	100	0	100	0	12	0	100	0	100	0	89	0
06/11/2009	100	0	100	0	100	0	100	0	100	0	50	0	100	0	96	0	93	0
07/11/2009	100	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	88	0
08/11/2009	100	0	100	0	100	0	100	0	42	0	0	0	100	0	100	0	80	0
09/11/2009	100	0	100	0	100	0	64	0	0	0	75	0	100	0	100	0	80	0
10/11/2009	100	0	100	0	100	0	100	0	0	0	100	0	83	0	100	0	85	0
11/11/2009	100	0	100	0	100	0	100	0	0	0	100	0	100	0	100	0	88	0
12/11/2009	100	0	100	0	100	0	100	0	43	0	100	0	100	0	100	0	93	0
13/11/2009	83	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	98	0
14/11/2009	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
16/11/2009	100	0	100	0	100	0	100	0	100	0	100	0	96	0	100	0	100	0
17/11/2009	100	0	100	0	100	0	75	0	100	0	100	0	96	0	76	0	93	0
18/11/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
19/11/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	97	0	100	0
20/11/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	88	0	99	0
21/11/2009	100	0	100	0	100	0	100	0	96	0	100	0	100	0	100	0	99	0
22/11/2009	98	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
23/11/2009	85	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	98	0
24/11/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
25/11/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
26/11/2009	92	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
27/11/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
28/11/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
29/11/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
30/11/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
Average	98	0	100	0	100	0	98	0	86	0	75	0	99	0	99	0	94	0

Average Availability for all sites: 94 %

Average Availability for 8 best sites : 94 %



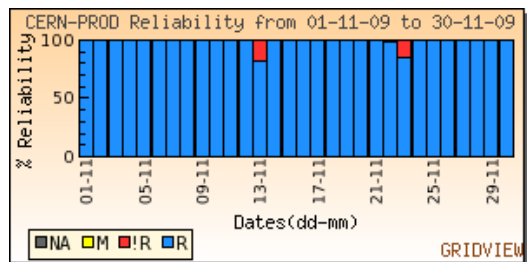
Reliability of WLCG Tier-1 Sites + CERN for CMS

November 2009

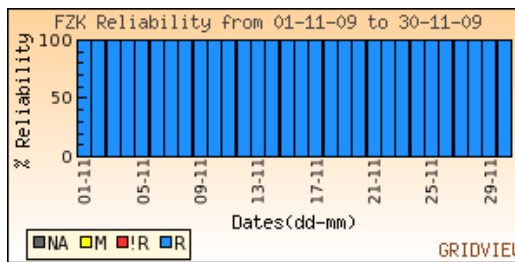
Data from SAM and Gridview

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

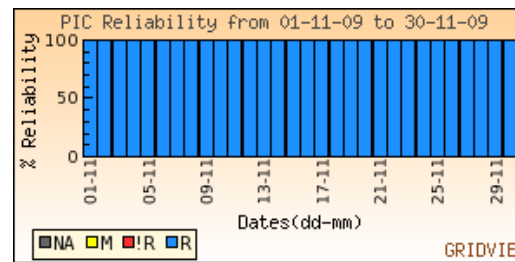
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



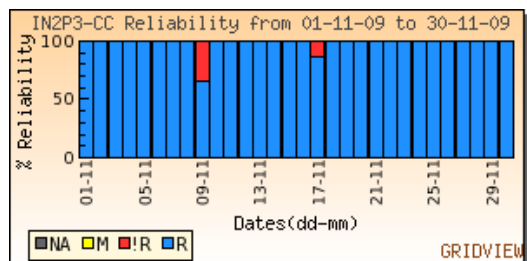
CERN Rel : 99 %



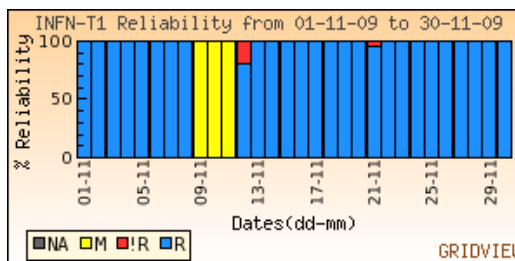
DE-KIT Rel : 100 %



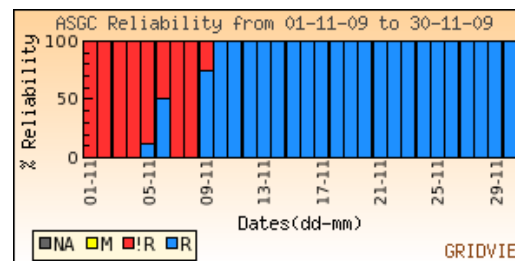
ES-PIC Rel : 100 %



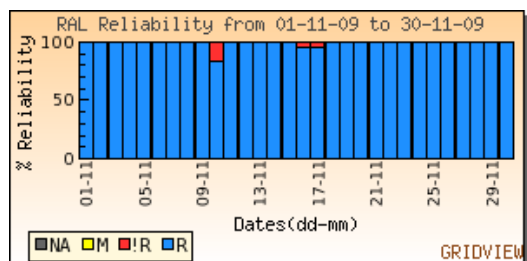
FR-CCIN2P3 Rel : 98 %



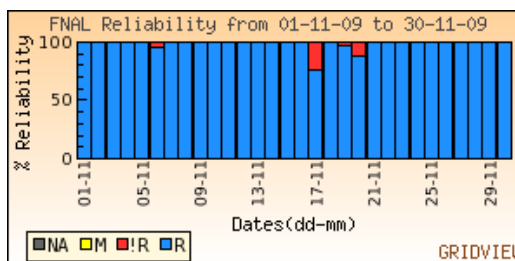
IT-INFN-CNAF Rel : 99 %



TW-ASGC Rel : 75 %



UK-T1-RAL Rel : 99 %



US-FNAL-CMS Rel : 99 %



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

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	CERN	DE-KIT	ES-PIC	FR-CCIN2P3	IT-INFN-CNAF	TW-ASGC	UK-T1-RAL	US-FNAL-	Average Reliability
01/11/2009	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	88 %
02/11/2009	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	88 %
03/11/2009	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	87 %
04/11/2009	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	88 %
05/11/2009	100 %	100 %	100 %	100 %	100 %	12 %	100 %	100 %	89 %
06/11/2009	100 %	100 %	100 %	100 %	100 %	50 %	100 %	96 %	93 %
07/11/2009	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	88 %
08/11/2009	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	87 %
09/11/2009	100 %	100 %	100 %	66 %	N/A	75 %	100 %	100 %	92 %
10/11/2009	100 %	100 %	100 %	100 %	N/A	100 %	83 %	100 %	98 %
11/11/2009	100 %	100 %	100 %	100 %	N/A	100 %	100 %	100 %	100 %
12/11/2009	100 %	100 %	100 %	100 %	80 %	100 %	100 %	100 %	99 %
13/11/2009	83 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	98 %
14/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
15/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
16/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	96 %	100 %	100 %
17/11/2009	100 %	100 %	100 %	86 %	100 %	100 %	96 %	76 %	95 %
18/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
19/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	97 %	100 %
20/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	88 %	99 %
21/11/2009	100 %	100 %	100 %	100 %	96 %	100 %	100 %	100 %	99 %
22/11/2009	98 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
23/11/2009	85 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	98 %
24/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
25/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
26/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
27/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
28/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
29/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
30/11/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
Average	99 %	100 %	100 %	98 %	99 %	75 %	99 %	99 %	96 %

Average Reliability for all sites: **96 %**

Average Reliability for 8 best sites **96 %**



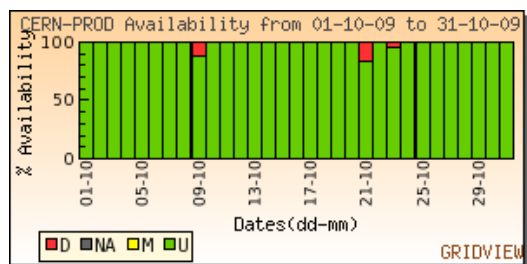
Availability of WLCG Tier-1 Sites + CERN for CMS

October 2009

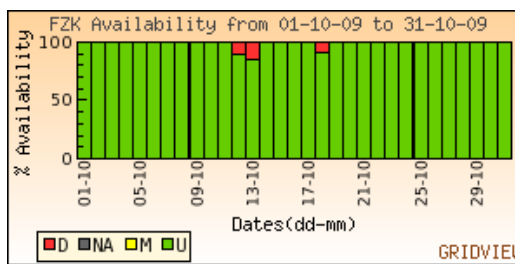
Data from SAM and Gridview

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

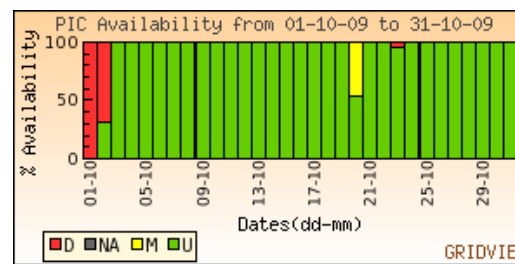
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



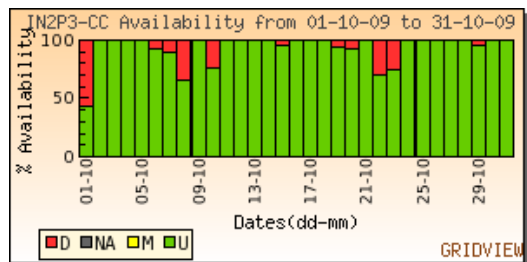
CERN Avail : 99 % Unkn : 0 %



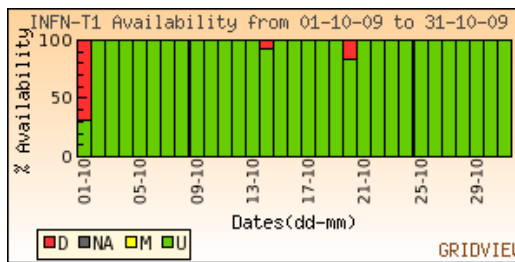
DE-KIT Avail : 99 % Unkn : 0 %



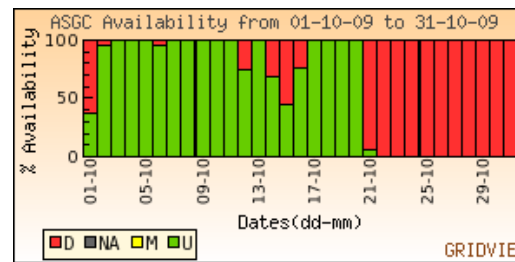
ES-PIC Avail : 93 % Unkn : 0 %



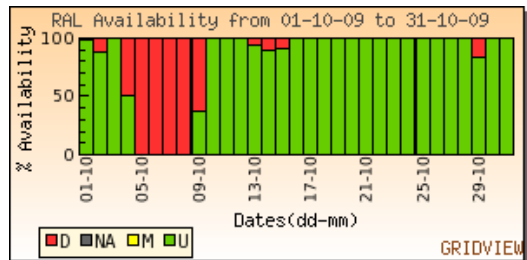
FR-CCIN2P3 Avail : 93 % Unkn : 0 %



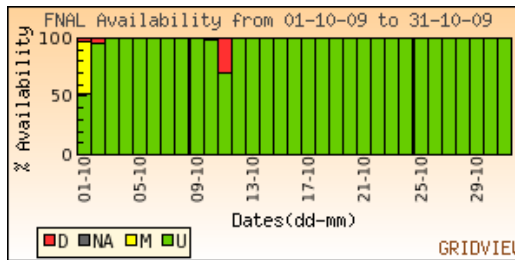
IT-INFN-CNAF Avail : 97 % Unkn : 0 %



TW-ASGC Avail : 58 % Unkn : 0 %



UK-T1-RAL Avail : 82 % Unkn : 0 %



US-FNAL-CMS Avail : 97 % Unkn : 0 %



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

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	CERN		DE-KIT		ES-PIC		FR-CCIN2P3		IT-INFN-CNAF		TW-ASGC		UK-T1-RAL		US-FNAL-CMS		Average	
	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	0	0	43	0	31	0	38	0	98	0	52	0	58	0
02/10/2009	100	0	100	0	31	0	100	0	100	0	96	0	89	0	96	0	89	0
03/10/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
04/10/2009	100	0	100	0	100	0	100	0	100	0	100	0	50	0	100	0	94	0
05/10/2009	100	0	100	0	100	0	100	0	100	0	100	0	0	0	100	0	88	0
06/10/2009	100	0	100	0	100	0	92	0	100	0	96	0	0	0	100	0	86	0
07/10/2009	100	0	100	0	100	0	89	0	100	0	100	0	0	0	100	0	86	0
08/10/2009	100	0	100	0	100	0	66	0	100	0	100	0	0	0	100	0	83	0
09/10/2009	88	0	100	0	100	0	100	0	100	0	100	0	37	0	100	0	91	0
10/10/2009	100	0	100	0	100	0	77	0	100	0	100	0	100	0	98	0	97	0
11/10/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	70	0	96	0
12/10/2009	100	0	90	0	100	0	100	0	100	0	75	0	100	0	100	0	96	0
13/10/2009	100	0	85	0	100	0	100	0	100	0	100	0	94	0	100	0	97	0
14/10/2009	100	0	100	0	100	0	100	0	93	0	69	0	89	0	100	0	94	0
15/10/2009	100	0	100	0	100	0	96	0	100	0	45	0	92	0	100	0	92	0
16/10/2009	100	0	100	0	100	0	100	0	100	0	75	0	100	0	100	0	97	0
17/10/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
18/10/2009	100	0	92	0	100	0	100	0	100	0	100	0	100	0	100	0	99	0
19/10/2009	100	0	100	0	100	0	94	0	100	0	100	0	100	0	100	0	99	0
20/10/2009	100	0	100	0	54	0	93	0	83	0	100	0	100	0	100	0	91	0
21/10/2009	83	0	100	0	100	0	100	0	100	0	5	0	100	0	100	0	86	0
22/10/2009	100	0	100	0	100	0	70	0	100	0	0	0	100	0	100	0	84	0
23/10/2009	96	0	100	0	96	0	75	0	100	0	0	0	100	0	100	0	83	0
24/10/2009	100	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	88	0
25/10/2009	100	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	88	0
26/10/2009	100	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	88	0
27/10/2009	100	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	88	0
28/10/2009	100	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	88	0
29/10/2009	100	0	100	0	100	0	96	0	100	0	0	0	83	0	100	0	85	0
30/10/2009	100	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	88	0
31/10/2009	100	0	100	0	100	0	100	0	100	0	0	0	100	0	100	0	88	0
Average	99	0	99	0	93	0	93	0	97	0	58	0	82	0	97	0	90	0

Average Availability for all sites: 90 %

Average Availability for 8 best sites : 90 %



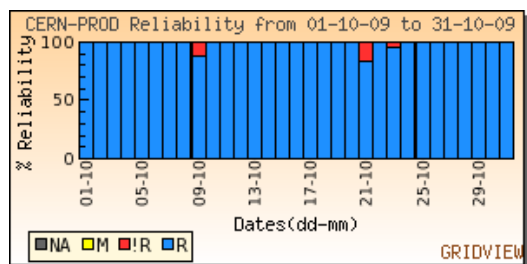
Reliability of WLCG Tier-1 Sites + CERN for CMS

October 2009

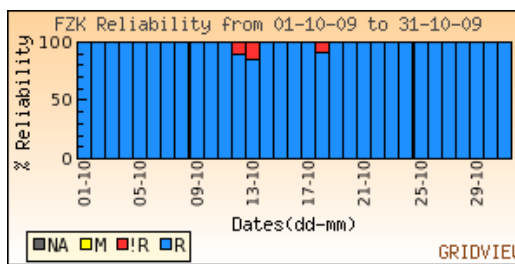
Data from SAM and Gridview

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

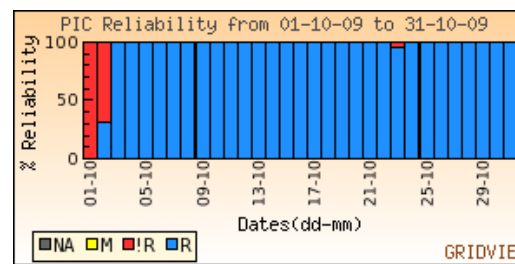
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



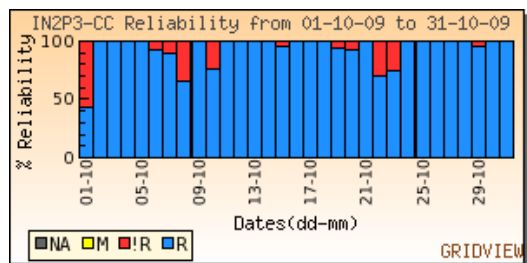
CERN Rel : 99 %



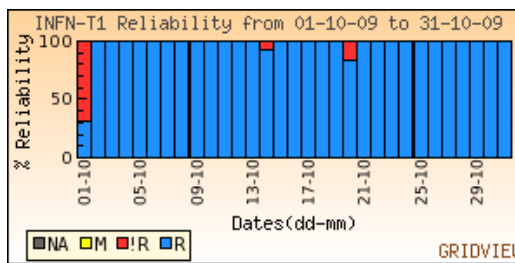
DE-KIT Rel : 99 %



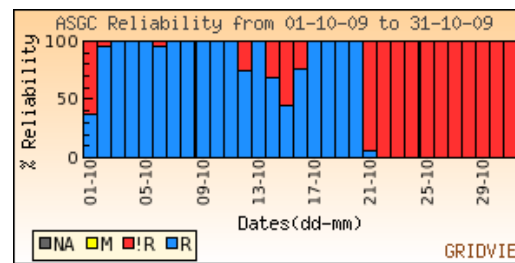
ES-PIC Rel : 94 %



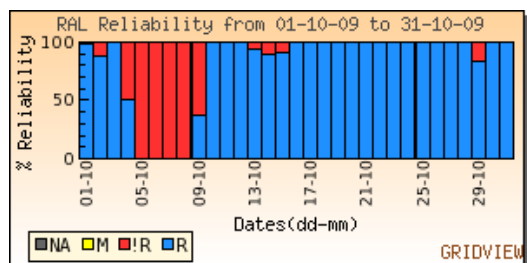
FR-CCIN2P3 Rel : 93 %



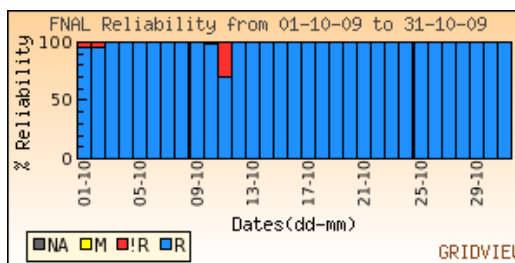
IT-INFN-CNAF Rel : 97 %



TW-ASGC Rel : 58 %



UK-T1-RAL Rel : 82 %



US-FNAL-CMS Rel : 99 %



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

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	CERN	DE-KIT	ES-PIC	FR-CCIN2P3	IT-INFN-CNAF	TW-ASGC	UK-T1-RAL	US-FNAL	Average Reliability
01/10/2009	100 %	100 %	0 %	43 %	31 %	38 %	98 %	95 %	61 %
02/10/2009	100 %	100 %	31 %	100 %	100 %	96 %	89 %	96 %	89 %
03/10/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
04/10/2009	100 %	100 %	100 %	100 %	100 %	100 %	50 %	100 %	94 %
05/10/2009	100 %	100 %	100 %	100 %	100 %	100 %	0 %	100 %	88 %
06/10/2009	100 %	100 %	100 %	92 %	100 %	96 %	0 %	100 %	86 %
07/10/2009	100 %	100 %	100 %	89 %	100 %	100 %	0 %	100 %	86 %
08/10/2009	100 %	100 %	100 %	66 %	100 %	100 %	0 %	100 %	83 %
09/10/2009	88 %	100 %	100 %	100 %	100 %	100 %	37 %	100 %	91 %
10/10/2009	100 %	100 %	100 %	77 %	100 %	100 %	100 %	98 %	97 %
11/10/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	70 %	96 %
12/10/2009	100 %	90 %	100 %	100 %	100 %	75 %	100 %	100 %	96 %
13/10/2009	100 %	85 %	100 %	100 %	100 %	100 %	94 %	100 %	97 %
14/10/2009	100 %	100 %	100 %	100 %	93 %	69 %	89 %	100 %	94 %
15/10/2009	100 %	100 %	100 %	96 %	100 %	45 %	92 %	100 %	92 %
16/10/2009	100 %	100 %	100 %	100 %	100 %	75 %	100 %	100 %	97 %
17/10/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
18/10/2009	100 %	92 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
19/10/2009	100 %	100 %	100 %	94 %	100 %	100 %	100 %	100 %	99 %
20/10/2009	100 %	100 %	100 %	93 %	83 %	100 %	100 %	100 %	97 %
21/10/2009	83 %	100 %	100 %	100 %	100 %	5 %	100 %	100 %	86 %
22/10/2009	100 %	100 %	100 %	70 %	100 %	0 %	100 %	100 %	84 %
23/10/2009	96 %	100 %	96 %	75 %	100 %	0 %	100 %	100 %	83 %
24/10/2009	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	88 %
25/10/2009	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	88 %
26/10/2009	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	88 %
27/10/2009	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	88 %
28/10/2009	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	88 %
29/10/2009	100 %	100 %	100 %	96 %	100 %	0 %	83 %	100 %	85 %
30/10/2009	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	88 %
31/10/2009	100 %	100 %	100 %	100 %	100 %	0 %	100 %	100 %	88 %
Average	99 %	99 %	94 %	93 %	97 %	58 %	82 %	99 %	90 %

Average Reliability for all sites: 90 %

Average Reliability for 8 best sites 90 %



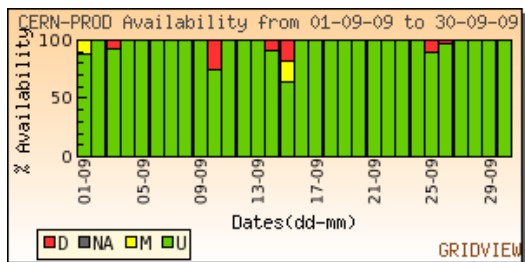
Availability of WLCG Tier-1 Sites + CERN for CMS

September 2009

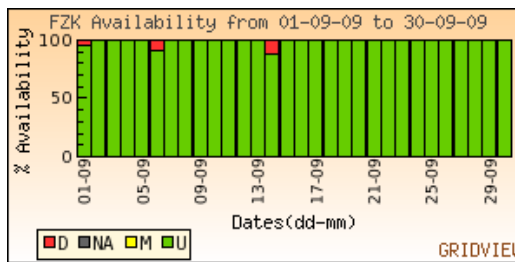
Data from SAM and Gridview

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

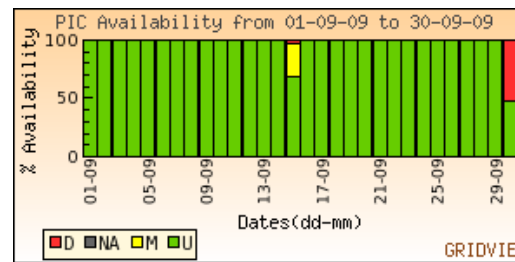
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



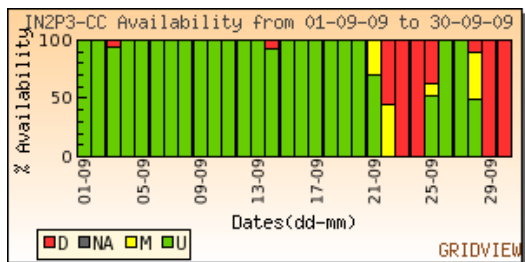
CERN Avail : 97 % Unkn : 0 %



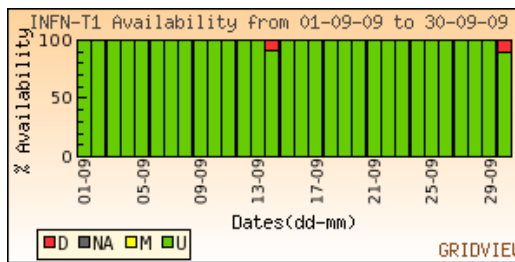
DE-KIT Avail : 99 % Unkn : 0 %



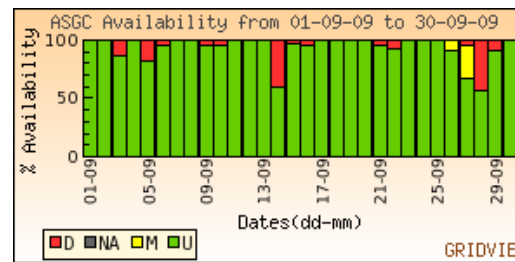
ES-PIC Avail : 97 % Unkn : 0 %



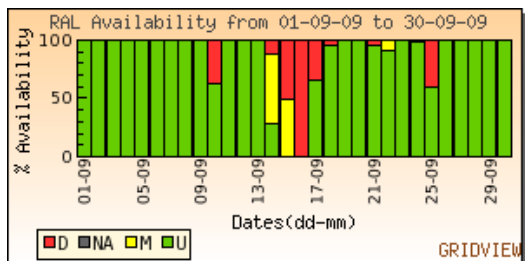
FR-CCIN2P3 Avail : 79 % Unkn : 0 %



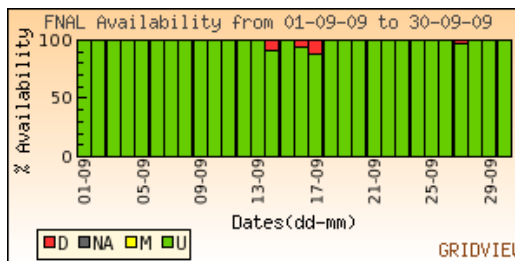
IT-INFN-CNAF Avail : 99 % Unkn : 0 %



TW-ASGC Avail : 93 % Unkn : 0 %



UK-T1-RAL Avail : 87 % Unkn : 0 %



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



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

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	CERN		DE-KIT		ES-PIC		FR-CCIN2P3		IT-INFN-CNAF		TW-ASGC		UK-T1-RAL		US-FNAL-CMS		Average	
	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn	Avail	Unkn
01/09/2009	89	0	96	0	100	0	100	0	100	0	100	0	100	0	100	0	98	0
02/09/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
03/09/2009	92	0	100	0	100	0	94	0	100	0	87	0	100	0	100	0	97	0
04/09/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
05/09/2009	100	0	100	0	100	0	100	0	100	0	83	0	100	0	100	0	98	0
06/09/2009	100	0	92	0	100	0	100	0	100	0	96	0	100	0	100	0	98	0
07/09/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
08/09/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
09/09/2009	100	0	100	0	100	0	100	0	100	0	96	0	100	0	100	0	99	0
10/09/2009	75	0	100	0	100	0	100	0	100	0	96	0	63	0	100	0	92	0
11/09/2009	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
13/09/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
14/09/2009	92	0	89	0	100	0	92	0	90	0	59	0	28	0	91	0	80	0
15/09/2009	64	12	100	0	68	0	100	0	100	0	97	0	0	0	100	0	79	2
16/09/2009	100	0	100	0	100	0	100	0	100	0	96	0	0	0	94	0	86	0
17/09/2009	100	0	100	0	100	0	100	0	100	0	100	0	66	0	88	0	94	0
18/09/2009	100	0	100	0	100	0	100	0	100	0	100	0	96	0	100	0	99	0
19/09/2009	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0
20/09/2009	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	71	0	100	0	96	0	96	0	100	0	95	0
22/09/2009	100	0	100	0	100	0	0	0	100	0	92	0	90	0	100	0	85	0
23/09/2009	100	0	100	0	100	0	0	0	100	0	100	0	100	0	100	0	88	0
24/09/2009	100	0	100	0	100	0	0	0	100	0	100	0	98	0	100	0	87	0
25/09/2009	90	0	100	0	100	0	52	0	100	0	100	0	60	0	100	0	88	0
26/09/2009	98	0	100	0	100	0	100	0	100	0	92	0	100	0	100	0	99	0
27/09/2009	100	0	100	0	100	0	100	0	100	0	67	0	100	0	97	0	95	0
28/09/2009	100	0	100	0	100	0	50	0	100	0	56	0	100	0	100	0	88	0
29/09/2009	100	0	100	0	100	0	0	0	100	0	91	0	100	0	100	0	86	0
30/09/2009	100	0	100	0	48	0	0	0	90	0	100	0	100	0	100	0	80	0
Average	97	0	99	0	97	0	79	0	99	0	93	0	87	0	99	0	94	0

Average Availability for all sites: 94 %

Average Availability for 8 best sites : 94 %



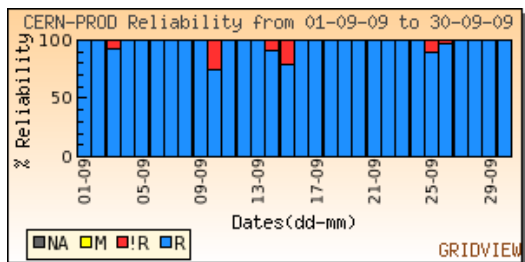
Reliability of WLCG Tier-1 Sites + CERN for CMS

September 2009

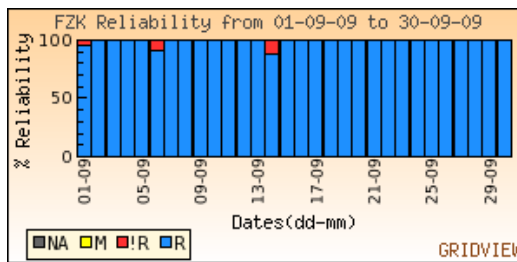
Data from SAM and Gridview

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

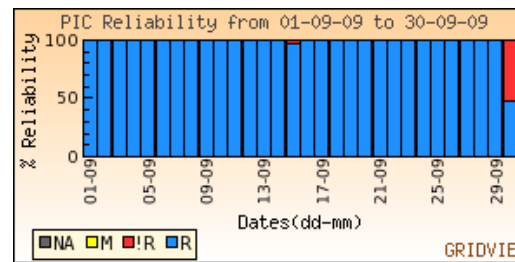
Target reliability for each site is 97 % and Target for 8 best sites is 98 %



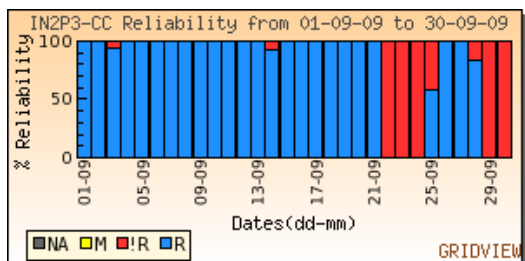
CERN Rel : 98 %



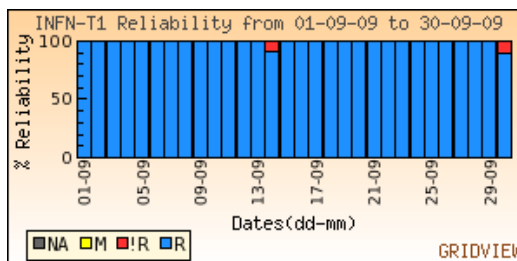
DE-KIT Rel : 99 %



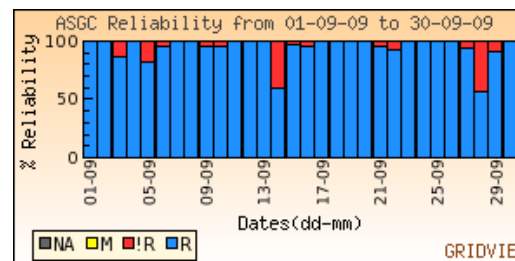
ES-PIC Rel : 98 %



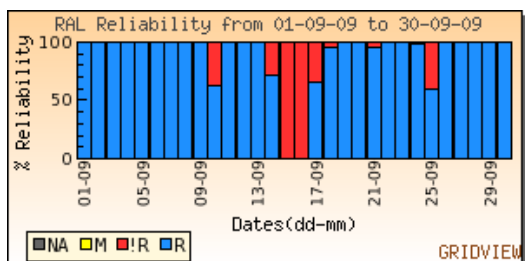
FR-CCIN2P3 Rel : 82 %



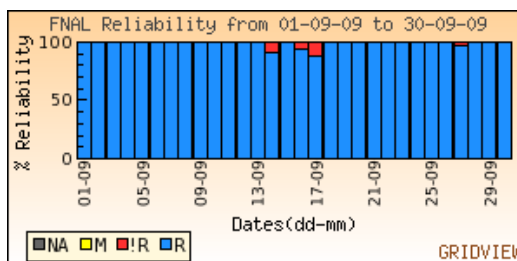
IT-INFN-CNAF Rel : 99 %



TW-ASGC Rel : 95 %



UK-T1-RAL Rel : 90 %



US-FNAL-CMS Rel : 99 %



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

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	CERN	DE-KIT	ES-PIC	FR-CCIN2P3	IT-INFN-CNAF	TW-ASGC	UK-T1-RAL	US-FNAL	Average Reliability
01/09/2009	100 %	96 %	100 %	100 %	100 %	100 %	100 %	100 %	99 %
02/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
03/09/2009	92 %	100 %	100 %	94 %	100 %	87 %	100 %	100 %	97 %
04/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
05/09/2009	100 %	100 %	100 %	100 %	100 %	83 %	100 %	100 %	98 %
06/09/2009	100 %	92 %	100 %	100 %	100 %	96 %	100 %	100 %	98 %
07/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
08/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
09/09/2009	100 %	100 %	100 %	100 %	100 %	96 %	100 %	100 %	99 %
10/09/2009	75 %	100 %	100 %	100 %	100 %	96 %	63 %	100 %	92 %
11/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
12/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
13/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
14/09/2009	92 %	89 %	100 %	92 %	90 %	59 %	72 %	91 %	87 %
15/09/2009	79 %	100 %	97 %	100 %	100 %	97 %	0 %	100 %	90 %
16/09/2009	100 %	100 %	100 %	100 %	100 %	96 %	0 %	94 %	86 %
17/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	66 %	88 %	94 %
18/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	96 %	100 %	99 %
19/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
20/09/2009	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
21/09/2009	100 %	100 %	100 %	100 %	100 %	96 %	96 %	100 %	99 %
22/09/2009	100 %	100 %	100 %	0 %	100 %	92 %	100 %	100 %	91 %
23/09/2009	100 %	100 %	100 %	0 %	100 %	100 %	100 %	100 %	88 %
24/09/2009	100 %	100 %	100 %	0 %	100 %	100 %	98 %	100 %	87 %
25/09/2009	90 %	100 %	100 %	58 %	100 %	100 %	60 %	100 %	89 %
26/09/2009	98 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %	100 %
27/09/2009	100 %	100 %	100 %	100 %	100 %	94 %	100 %	97 %	99 %
28/09/2009	100 %	100 %	100 %	83 %	100 %	56 %	100 %	100 %	93 %
29/09/2009	100 %	100 %	100 %	0 %	100 %	91 %	100 %	100 %	86 %
30/09/2009	100 %	100 %	48 %	0 %	90 %	100 %	100 %	100 %	80 %
Average	98 %	99 %	98 %	82 %	99 %	95 %	90 %	99 %	95 %

Average Reliability for all sites: 95 %

Average Reliability for 8 best sites 95 %