

# WLCG IPv6 Software Status

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IPv6 WLCG pre-GDB, CERN

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# Software and Tools survey

- Full software asset survey
- All operating systems, middleware, applications (system and experiment), monitoring/management tools, etc.
- What is claimed IPv6 status?
- Have we tested it?
- Does it break IPv4 on a dual-stack system?
- Does IPv6 work
  - Can protocol choice be controlled
  - Does it failover gracefully

An out of date snapshot!

## IPv6 compliance of WLCG applications

Software Component	Type	Used by Experiment	Version	IPv6 Compliance
AIEN	LHC Experiment Application	ALICE		
ARC CE	Middleware	ATLAS, CMS		<b>YES</b>
ARGUS	Middleware	ALICE, ATLAS, CMS, LHCb		Unknown
BDII	Middleware	ATLAS, CMS, LHCb	EMI 2	<b>YES</b>
BestMAN	Middleware	ATLAS, CMS		Unknown
CASTOR	Middleware	ALICE, ATLAS, CMS, LHCb		<b>NO</b>
cfengine	Monitoring			Unknown
CMS Tag Collector	LHC Experiment Application	CMS		Unknown
CMSSW	LHC Experiment Application	CMS		Unknown
cmsweb	LHC Experiment Application	CMS		Unknown
CRAB 2	LHC Experiment Application	CMS		Unknown
Cream CE	Middleware	ALICE, ATLAS, CMS, LHCb	1.16.2	<b>YES</b>
CVMFS	Other Application	ALICE, ATLAS, CMS, LHCb		<b>YES</b>
Dashboard Google Earth	Monitoring	ALICE, ATLAS, CMS, LHCb		Claimed

# Software survey (2)

dCache	Middleware	ALICE, ATLAS, CMS, LHCb	2.6.19	Claimed
dCache	Middleware	ALICE, ATLAS, CMS, LHCb	1.9.12	NO
DIRAC	LHC Experiment Application	LHCb		Unknown
DPM	Middleware	ALICE, ATLAS, CMS, LHCb		YES with caveats
EGI Accounting Portal	Monitoring	ALICE, ATLAS, CMS, LHCb		Unknown
EOS	Middleware	ALICE, ATLAS, CMS, LHCb		NO
Experiment Dashboards	Monitoring	ALICE, ATLAS, CMS, LHCb		Unknown
Frontier	LHC Experiment Application	ATLAS, CMS		NO
FTS	Middleware	ATLAS, CMS, LHCb	FTS 3	YES
Ganglia	Monitoring			YES
GFAL/lcg_util	Middleware	ALICE, ATLAS, CMS, LHCb		Claimed
glideinWMS	Middleware	CMS		Claimed
globus toolkit	Middleware	ALICE, ATLAS, CMS, LHCb	5.2.5	YES
GOCdb	System Management Tool	ALICE, ATLAS, CMS, LHCb		Unknown
Gratia Accounting	Monitoring			Unknown
Gridsite	Middleware			Claimed
Gstat	Monitoring			Unknown

# Software survey (3)

GUMS	Middleware	ATLAS, CMS		Unknown
Hadoop	Middleware	ATLAS, CMS		NO
HammerCloud	LHC Experiment Application	ATLAS, CMS, LHCb		Unknown
HTCondor	Middleware	ATLAS, CMS		YES with caveats
iCMS	LHC Experiment Application	CMS		Unknown
LFC	Middleware	ATLAS, LHCb	1.8.7	YES
MonALISA	Monitoring			Claimed
MyOSG	Monitoring			Unknown
MyProxy	Middleware		EMI 1	Unknown
MyWLCG	Monitoring	ALICE, ATLAS, CMS, LHCb		Unknown
Nagios	Monitoring	ALICE, ATLAS, CMS, LHCb		Claimed
OpenAFS	Other Application	ALICE, ATLAS, CMS, LHCb	Last	NO
PanDA	LHC Experiment Application	ATLAS, CMS		Unknown
perfSONAR	Monitoring	ATLAS, CMS		YES
PhEDEx agents	LHC Experiment Application	CMS		YES
Puppet	System Management Tool	ALICE, ATLAS, CMS, LHCb		YES
REBUS	Monitoring	ALICE, ATLAS, CMS, LHCb		Unknown

# Software survey (4)

REBUS	Monitoring	ALICE, ATLAS, CMS, LHCb		Unknown
SAM	Monitoring	ALICE, ATLAS, CMS, LHCb		Unknown
<a href="#">Scientific Linux</a>	Operating System	ALICE, ATLAS, CMS, LHCb	5.7	YES
SDT IB and QA pages	LHC Experiment Application	CMS		Unknown
Squid	Other Application	ALICE, ATLAS, CMS, LHCb	2.8	NO
Squid	Other Application	ALICE, ATLAS, CMS, LHCb	3.1	YES
StoRM	Middleware	ALICE, ATLAS, CMS, LHCb	1.11.2	YES with caveats
Ticket system -- GGUS	System Management Tool	ALICE, ATLAS, CMS, LHCb		Unknown
various D web tools	LHC Experiment Application	CMS		Unknown
VOMS	Middleware	ALICE, ATLAS, CMS, LHCb	2.0.11	YES
VOMS-Admin	Middleware	ALICE, ATLAS, CMS, LHCb	2.0.11	YES with caveats
WLCG squid monitoring	Monitoring	ATLAS, CMS		Claimed
WMAgent	LHC Experiment Application	CMS		Unknown
WMS	Middleware	ALICE, ATLAS, CMS, LHCb	EMI 2	Unknown
xrootd	Middleware	ALICE, ATLAS, CMS	3.1.0	NO
xrootd	Middleware		4.0.0	Claimed

# More info

- For example, click on service, e.g. “DPM”, to see more information and the caveats etc.
  - Not complete by any means!
- Now we will consider some Storage and Batch components
- Many components not covered today
  - E.g. ARC-CE and CREAM-CE (which seem to work)

Questions ?