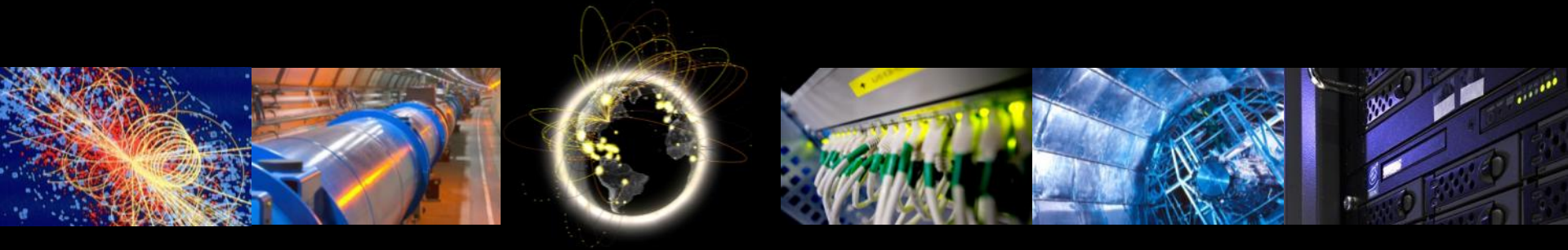


# WLCG Experiments Test Framework (ETF)

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# Introduction

- Current SAM structure
- SAM3
  - aggregation, visualization and reporting
  - supports multiple sources of metrics
- SAM/Nagios Test Framework
  - measurement middleware based on Nagios
  - active testing of services and publishing of the results to SAM3
  - common to all experiments
  - main source of metrics for WLCG A/R reports
- WLCG Experiments Test Framework (ETF) is the new SAM/Nagios Test Framework
  - Follow up on a discussion at [GDB](#) and [technical specification](#)

# ETF

- ETF is a test framework = measurement service
  - responsible to actively check services status
  - focusing on functional (remote) testing of services
  - generic framework to schedule tests via dedicated Nagios plugins (probes) and to handle/publish results to higher level services
- ETF structure
  - **Core framework** – rewritten, but still based on Nagios-core, now also integrated with [check\\_mk](#) and [OMD](#)
  - **Plugins/Probes** (unchanged)
  - **Worker node micro-framework** – runs tests on the worker nodes
    - Test results now taken directly from JS output

# Changes














- ETF still based on Nagios-core using exact same Nagios probes
- There are only few changes that are introduced that could impact sites:
  - Testing with RFC proxies (coordinated by RFC TF)
  - All services in the VO feeds will be tested (see backup slides)
    - Experiments can filter, which services go into reports
  - New HTTP tests (coordinated by HTTP TF)
  - Updated gLExec worker node test to the latest in UMD (no impact)
- Migration to ETF
  - Tentative production day 1<sup>st</sup> of April
  - Both the old and the new system will run in parallel
  - New profiles will be introduced in SAM3 and once validated they will replace the existing ones:
    - e.g. ATLAS\_CRITICAL ETF -> ATLAS\_CRITICAL
  - WLCG broadcast will be sent before changing to ETF

# Web interface

- New web interface (check\_mk) available with many new features
  - full text quick search
  - more polished, contains mobile version

Clearly indicates which tests can be rescheduled

Metric is OK since 14th January 10:28

State	Service	Icons	Status detail	Age	Checked	Perf-O-Meter
OK	emi.cream.glexec.WN-gLExec-/atlas/Role=pilot	 	atlas-wn-806.roma1.infn.it: OK: Success	2016-01-28 04:12:07	5 hrs	
OK	org.atlas.WN-cvmfs-/atlas/Role=lcgadmin		atlas-wn-801.roma1.infn.it: OK	2016-01-14 10:28:17	71 min	
OK	org.atlas.WN-FrontierSquid-/atlas/Role=lcgadmin		atlas-wn-801.roma1.infn.it: OK	2016-01-14 09:28:17	71 min	
OK	org.atlas.WN-swspace-/atlas/Role=lcgadmin		atlas-wn-801.roma1.infn.it: OK	2016-01-14 09:28:17	71 min	
OK	org.atlas.WN-swspace-/atlas/Role=pilot	 	atlas-wn-806.roma1.infn.it: OK	2016-01-14 09:35:43	5 hrs	
OK	org.sam.CONDOR-JobState-/atlas/Role=lcgadmin	 	>>> Discover CE resource endpoint in BDII	62 sec	62 sec	
OK	org.sam.CONDOR-JobState-/atlas/Role=pilot		OK: [IDLE] 822937	9 hrs	2 min	
UNKN	org.sam.CONDOR-JobSubmit-/atlas/Role=lcgadmin		UNKNOWN: No compatible resource found in BDII	16 min	16 min	
OK	org.sam.CONDOR-JobSubmit-/atlas/Role=pilot	 	OK: COMPLETED	9 hrs	5 hrs	

Indication of stale metrics (last updated 5 hrs ago)

- Legacy Nagios web interface is still supported
  - available at <https://<host>/etf/nagios>

# Links

- Docs: <http://etf.cern.ch/docs>
- Deployment/Users: <http://cern.ch/go/7Hjs>
- Code: <https://gitlab.cern.ch/etf/>
- Multi-VO view (beta-testing): <http://etf.cern.ch>
- Support channels (unchanged):
  - GGUS ticket to WLCG Grid Monitoring
  - 3<sup>rd</sup> level SU: WLCG Experiments Probe Submission Framework
- More details will be presented at GDB



# Backup slides

# VO feeds

- ATLAS
  - <http://atlas-agis-api.cern.ch/request/atp/xml>
- CMS
  - <http://wlcg-sam-cms.cern.ch/dashboard/request.py/cmssitemapbdi>
- LHCb
  - [http://lhcb-web-dirac.cern.ch/topology/lhcb\\_topology.xml](http://lhcb-web-dirac.cern.ch/topology/lhcb_topology.xml)
- Alice
  - <http://wlcg-sam-alice.cern.ch/dashboard/request.py/alicesitemap>



# ETF

