



WLCG CRIC Introduction

GDB 12.06.2019

WLCG CRIC Functionality

- Combines information which is currently hosted by various systems (GocDB, OIM, BDII, REBUS, experiment-specific ones like, for example, SiteDB)
- Allows to cross-check and validate data coming from different sources
- Authentication/authorization for data modification and retrieval
- Logging of any performed modification
- Represents a central entry point for WLCG generic topology and configuration information required for central WLCG operations, testing, accounting and monitoring systems

CRIC structure

WLCG CRIC

Extension of CORE CRIC to support LHCb and ALICE and WLCG central operations tasks

CORE CRIC

To describe resources provided to the LHC experiments

CMS CRIC

To describe CMS - specific configuration required to use provided resources

DOMA CRIC

To provide additional configuration required for TPC tests

Every CRIC instance contains CORE part and one of the blue plugins

ATLAS CRIC

To describe ATLAS-specific configuration required to use provided resources

Main WLCG CRIC data models and relationships

- Federation, Resource Center (WLCG site), Pledge, Service, Experiment Site
- Relationships
 - Service -> WLCG Site -> Federation
 - Federation -> Pledge (per type, per VO). Quarterly pledges are implemented recently
 - WLCG Site -> Experiment Site (per VO) -> Service
 - Computing Service -> CEs
 - > Queues
 - Storage Service -> Protocols
 - > Storage Shares

WLCG CRIC Clients

- SAM which includes ETF, availability calculation and UI
- WLCG central monitoring systems
- WLCG accounting
- All clients requiring pledge information including experiment-specific applications
- WLCG dissemination (Googlemap like)
- Interactive clients
 - for data injection, for example, for pledge information
 - for data navigation

Status and plans

- Working prototype with recent functionality (see the demo) is ready for testing, validation and feedback:

wlcg-cric-dev-1.cern.ch

- Stable version already used by WLCG Storage Space Accounting applications

wlcg-cric.cern.ch

- We need your feedback before going to production