

CRIC: a unified information system for WLCG and beyond

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The WLCG Information System (IS) is an important component of the huge heterogeneous distributed infrastructure. Considering the evolution of LHC computing towards high luminosity era and analyzing experience accumulated by the computing operations teams and limitations of the current information system, the WLCG IS evolution task force came up with the proposal to develop Computing Resource Information Catalogue (CRIC) which aims to consolidate WLCG topology information and to complement it with experiment-specific configuration required for computing operations, workload management and data management systems of the LHC experiments. CRIC represents evolution of ATLAS Grid Information System (AGIS) which has been evolved in order to serve not just ATLAS but any other virtual organization relying on large scale distributed infrastructure as well as the WLCG on the global scope.

The contribution describes CRIC architecture, implementation of data models, collectors, UIs/APIs and advanced fine-granular authentication/authorization.

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