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Featured "Single Sign-In" interface enabling Grid, Cloud and local resources for HEP

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The CMS collaboration is successfully using glideInWMS for managing grid resources within the WLCG project. The GlideIn mechanism with HTCCondor underneath provides a clear separation of responsibilities between administrators operating the service and users utilizing computational resources.

German CMS collaborators (dCMS) have explored modern capabilities of the glideInWMS and aiming at merging national grid resources, institutional CPU power and cloud resources into the set of pools with common sign-in interface presented towards HEP analysis users. The key goals of service development include ease of use, uniform access, load balancing and automated selection among different resource technologies. The approach shares experience of dCMS during the development and integration phases, and production operations and highly encourages other countries to follow. First experience with the production system and an outlook towards ongoing development will be presented.

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