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ARC 7 - new ARC major release - and future plans

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The Nordugrid Advanced Resource Connector Middleware (ARC) will manifest itself as ARC 7 this spring, after a long release preparation process. ARC 7 represents a significant advancement in the evolution of the Advanced Resource Connector Middleware, building upon elements introduced in the ARC 6 release from 2019, and refined over the subsequent years.

This new version consolidates technological developments from the ARC 6 line, focusing on streamlining ARC Compute Element (CE) interfaces and enhancing the codebase with extensive functionality and comprehensive code cleanup. One of the notable updates in ARC 7 is the adoption of the REST interface as the primary method for job management and information retrieval within the ARC CE, as well as token-based authentication and authorization support, with x509 proxy support still in place.

Despite being a major release, ARC 7 maintains a strong commitment to backward compatibility with ARC 6 CEs. Except for deprecated components, existing ARC 6 server configurations are expected to integrate seamlessly with the ARC 7 release.

In this presentation we will go through the main changes in ARC 7 compared to ARC 6. We will also present what are the future development plans for ARC.

Desired slot length

Speaker release

Yes

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