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Russian data lake prototype as an approach towards national federated storage for Megascience.

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A substantial data volume growth will appear with the start of the HL-LHC era. It is not well covered by the current LHC computing model, even taking into account the hardware evolution. The WLCG DOMA project was established to provide data management and storage researches. National data lake r&d's, as a part of the DOMA project, should address the study of possible technology solutions for the organization of intelligent distributed federated storage. This talk will present the current status of the Russian Scientific Data lake prototype and the methodology, which is used for the validation and functional testing of deployed infrastructure.

Summary

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