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Applicability of modern, scale-out file services in dedicated LHC data analysis environments.

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DESY has started to deploy modern, state of the art, industry based, scale out file services together with certain extension as a key component in dedicated LHC analysis environments like the National Analysis Facility (NAF) @DESY. In a technical cooperation with IBM, we will add identified critical features to the standard SONAS product line of IBM to make the system best suited for the already high and increasing demands of the NAF@DESY. Initially we will give a short introduction of the core system and their basic mode of operations - followed by a detailed description of the identified additional components/services addressed within the DESY/IBM cooperation and largely worked out by talking to the physicists doing analysis on the NAF today. Already known areas are for example: interface to tertiary storage (archive), system federation through industry standard protocols, X509 integration and far more aggressive caching of physics data (immutable data). Finally we will show in detail the first results of the newly implemented features including lectures learned regarding the basic suitability in our community.

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