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## The Storage Abstraction Service of the SPAR project

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The National Library of France (BnF) is building its distributed archiving and preservation system (SPAR) in order to preserve in the long term all the digital information collected or created.

This system is based on the OAIS standard but, in order to be independant of the underlying hardware infrastructure, a Storage Abstraction Service (SAS) is used. The SAS exposes its capabilities by the way of storage units, that represent some hardware designed to satisfy a given class of service, as well as records which abstracts the possible copies.

In order to implement such Service, the choice of iRods has been made. In particular, a storage unit is seen as a particular resource associated with a set of irules to comply with the said class of service.

In the presentation, we will show how such elements are defined and how the multiple operations needed for long-term preservation at the storage level can be achieved through the use of iRods.

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**Classification de Session:** Talks from various projects