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Evolution of the Architecture of the ATLAS Metadata Interface (AMI)

The ATLAS Metadata Interface (AMI) can be considered to be a mature application because it has existed for at least 10 years. Over the years, the number of users and the number of functions provided for these users has increased.

It has been necessary to adapt the hardware infrastructure in a seamless way so that the Quality of Service remains high.

We will describe the evolution of the application from the initial one, using single server with a MySQL backend database, to the current state, where we use a cluster of Virtual Machines on the French Tier 1 Cloud at Lyon, an ORACLE database backend also at Lyon, with replication to CERN using ORACLE streams behind a back-up server.

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