

New developments on HDB++, the high-performance data archiving for Tango Controls

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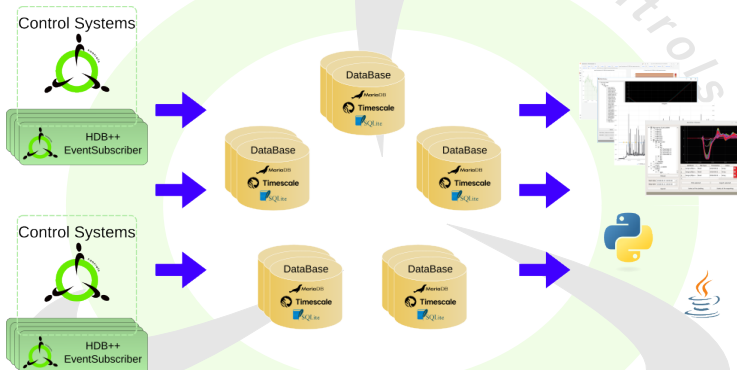
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HDB++ Overview

A scalable modular design



HDB++ can meet your needs

- ▶ A full ecosystem to manage and configure archiving easily
- ▶ Multiple backend support, no need to learn a new technology
- ▶ Easy to extend
- ▶ Get your data as you want it, from a low level API to a full featured viewer
- ▶ A thriving community

Come and see the poster for more details!

New developments on HDB++, the high-performance data archiving for Tango Controls

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The HDB++ project is a collaborative effort to build archiving on top of the Tango Control System. HDB++ provides a full ecosystem that leverage multiple database backends support to let you store your data however you want, but use a common set of tools for configuration, extraction and data management. Data insertion is managed through Tango device servers, and you can get your data using your language of choice or directly use a viewer.

Figure 1: HDB++ ecosystem

HDB++ overview:

- Events based
- Scalable through the use of multiple EventCollectors
- Support several databases, and the use of multiple clusters to separate concerns
- Get your data through various viewers or via libraries

Figure 2: HDB++ database

Long-Term data storage strategies:

Use the full power of long tested database backends to implement whichever long-term storage strategy you want. HDB++ can use advanced data declination, to reduce the number of samples, data compression inside the databases to further reduce disk usage, and several databases clusters to store all your data. All these strategies can be used together or one at a time and allow to be able to keep valuable data for as long as necessary.

Figure 3: Long-Term archiving strategies

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Logos: ALBA, Elettra Sincrotrone Trieste, INAF, ESRF, MAX IV, SKAO, ASTRON