

Database Technologies for the ATLAS Testbeam Software Initiative

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Core Database Strategies and Tools to be Developed and Prototyped

INFRASTRUCTURE

- Federation creation, replication, and release tools; reference federations
- Schema management sufficient to allow code to run without recompilation against multiple federations, under reasonable consistency conditions
- Database id management sufficient to allow databases to be copied safely to downstream federations

Core Database Strategies to be Developed and Prototyped: Candidate Technologies

RD45 Tools

- **Session management (HepDbApplication)**
- **Naming, and user-owned databases within a federation**
- **Conditions database infrastructure**
- **HepODBMS clustering???**
- **Probably not tag database tools**

Core Database Strategies to be Developed and Prototyped

Database connections to control framework and architecture

- **Persistency services, converters**
- **Transient/persistent mapping strategies generally**
- **Transaction control mechanisms**

Tertiary storage management and related infrastructure

- **from IT Division**