



LATOURNETT

“Production” DB

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Introduction - LATOURNETT

Current status:

- Discussing what is considered important to be saved internally at LAPP



Testing setup:

- Series of tests already organized and ready (documented out of the DB, but could be in too)
- The majority of information to be stored is just binary or a value, nothing complicated

Database organization:

- Slowly-changing information → (my)SQL-based DB appropriate (not time-series)
 - once structure is finalized can start working on implementation immediately
- Need to decide where information/database will be

Adressed use cases: For now, willing to store information about

- What constitutes LATOURNETT and RTM boards (which FPGAs, fireflies, IPMC, SFP cages are used for each)
 - Results of production tests carried out at LAPP
 - Status/location/"moves" of the boards to CERN
 - Information about the (LAPP) maintenance operations
- The rest (connectivity,...) is out of the scope of this DB a priori



Current scheme

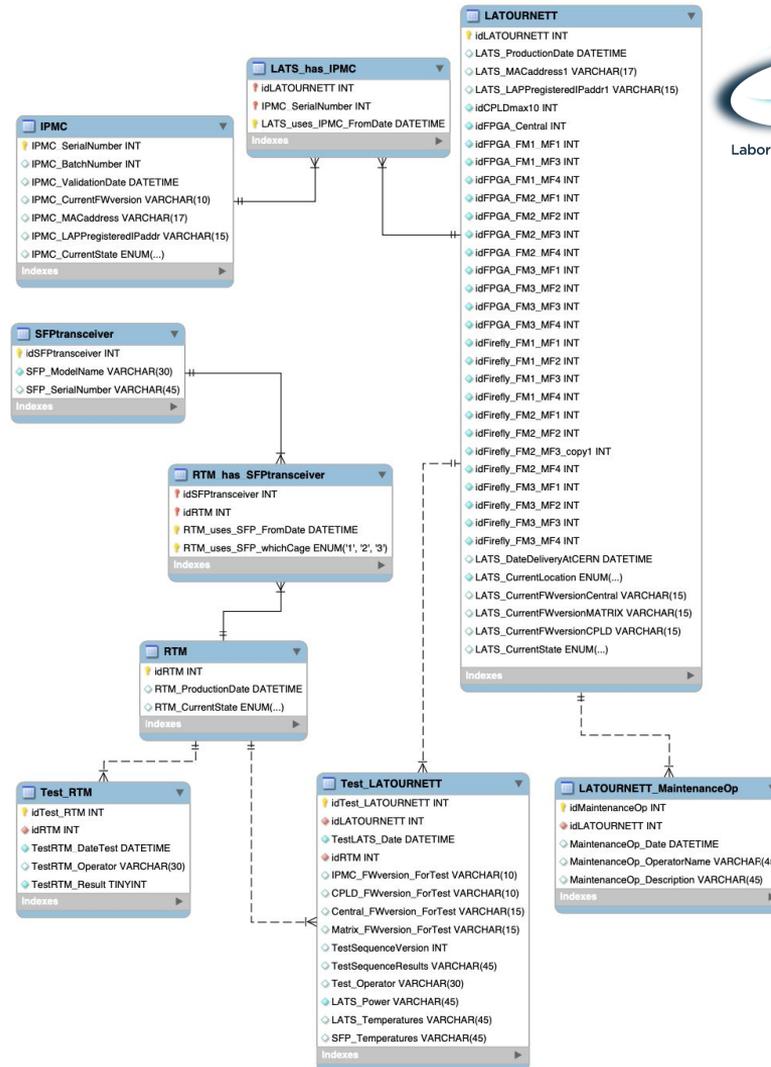
What about those assumptions ?

1) All IPMCs are tested before LATOURNETT ? (if yes one can perhaps assign the IPMC primary key to the LATOURNETT "forever" ?)

2) are all LATOURNETT tested with a unique RTM or with one corresponding RTM ? (proposal on the right is generic enough to handle both)

3) "Versioning"/time-stamping of the information ("current" location or firmware versions for instance) not there yet but can be added if need be ?

4) need for storing IP addresses ?



Conclusion & outlook

Conclusion:

- Ready to start implementing DB as a container for the required info (if agreed on previous slides' content)
 - Everything can still be modified, but better decide early
- Will work also on interfaces to “feed in” the DB
- Need to decide on whether we store this DB (info) only for local (LAPP) purpose for now and then extract info to feed in the “ATLAS” (production/operations) DB or if we directly go for feeding in a CERN ATLAS DB (but in this case that'd mean including test results info “out” of LAPP)
 - Perhaps we start locally and move things to CERN if the discussions go in this direction ?

Outlook:

- The discussion will be extended to CERN for further proposal/ideas
- Start deciding on location and setup
- Start the implementation
- Feed in the DB with 2x4 next LATOURNETT+RTM boards

THANKS FOR THE ATTENTION

EXTRA MATERIAL

Testing information - list proposed

- LATOURNETT ID
- DNS NAME?
- MAC
- CPLD-Max10
 - ID
- FPGA Central
 - ID
- FPGA Matrix
 - ID
 - Temperature - TBC
 - FIREFLIES
 - ID
 - Temperature - TBC
- SFP
 - marque
 - modelle
 - temperature
 -
- IPMC
 - ID (?)
- power CARTE GLOBALE
- Histoire de maintenance
- Tests qui ne sont pas passés -> température/puissance a limite
- date de livraison
- date de fin du test
- date de transport
- date carte ou cern
- Placement de la carte (ou c'est trouve?)
- personne qui a fait le test/maintenance