

LArSoft Architecture Committee

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What is this about?

- My vision for LArSoft architecture
 - To have a system with an architecture* that:
 - Is well suited to the demands on the software from all stakeholders and partner experiments
 - Evolves as the needs of those stakeholders and experiments change

* Architecture:

- The high-level design of major components and sub-systems, including the abstractions, interfaces, interactions, physical design, functional boundaries, etc., of the classes used

What is this about?

The following suggestions are all points for discussion

- Mission

- To ensure that the architecture of the major components and sub-systems of LArSoft is well suited to the function of those elements and the common needs of the stakeholders
- To ensure that the architecture changes when appropriate
- To provide a process for discussing and proposing such changes
- To ensure that input from appropriate experts is properly gathered and considered in making those proposals

Charge of the architecture committee

- To carry out the mission by:
 - Periodically reviewing the architecture of selected components and sub-systems
 - Expect issues to be escalated through the processes of the regular meetings
 - Also consider issues raised by members
 - Annual reviews should be considered
 - Drafting findings and recommendations for changes and improvements to the architecture
 - Consider all pertinent facts, opinion, requirements, constraints, external factors
 - Make sure that solutions will work for all experiments

How do we carry out the charge?

- For the process, suggest something like:
 - Upon notification / escalation, the chair investigates
 - The chair presents the problem to the full committee
 - Introduces known constraints, external factors, previously suggested solutions
 - The committee discusses, develops any findings and recommendations
 - The chair presents findings and recommendations at Librarians Meeting
 - Works with experiments / development teams to organize implementation
- Discussion...