

Software Development Process and Environment for LHC (Spider)

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Objectives

The objective ... is to define, implement and deploy a process based, modular and integrated software development environment for the LHC experiments and projects. ... (see <http://spider.cern.ch/>)

Coding Standards

- Based on standards of ATLAS, CMS, ALICE, LHCb and COMPASS.
- Experiments worked together on first document
- CodeCheck with selectable rules
- Stefano Paoli has produced new document
 - some extra input from somewhere
 - important information on sources dropped

Reaction to the document

- The plan is to provide a single input to the IPT group from all experiments
- Experiments given a few days to comment
- I plan to ask for some of the information which used to be there to be reinstated before commenting.

SRT - requirements

- Requirements collected from experiments (just after Christmas)
- Group formed to sort them out:
 - Maya is leading the group
 - I am representing ATLAS with Lassi and Bob Jones as deputies.
- 1 hour meeting on Wednesdays and 2 hour on Fridays

SRT - work since Christmas

- Have produced a glossary
 - Tried to make it requirement free
 - Quite hard to get agreement
 - 33 items, 5 roles, 11 procedures
- Built work model
 - includes the work model of all experiments
 - i.e. all scenarios are covered
 - expressed in terms of the glossary

Differences between experiments

- Differences probably related to the system currently favoured by each experiment.
 - SRT people like 1 librarian in control of everything
 - CMT people like more package independence
 - Some discussion on feasibility
 - Group convinced that it is feasible

SRT - next steps

- Three of us are to consolidate the requirements:
 - using the terminology of the glossary
 - in manner consistent with work model
 - hope to do it by end of April
- These requirements to go to authors of possible baseline solutions. Ask:
 - Which requirements are met
 - Estimate of effort to meet the others

Future of SRT work

- Now a new SRT looks more interesting as some of the deficiencies of our current system become more apparent.
- Shortly after April it should become clear what will happen!
 - Assuming man-power needed for implementation - will it happen?

So is it good for us?

- Last meeting I was negative about SPIDER
- A lot of unhappiness all round
 - It is very hard to get the experiments to work together (formally)
 - Some experiments not represented at meetings
 - Little real commitment
 - There seems to be too much bureaucracy
 - Try reading the PEP
- However I think that SRT has a slim chance.