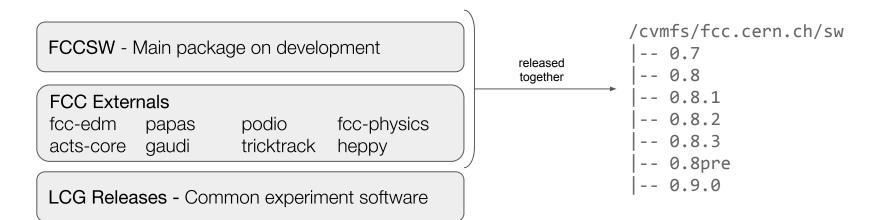
FCC build system reorganisation Proposal

Javier Cervantes Villanueva EP-SFT

Key concepts (current approach)



- One single installation in CVMFS to identify:
 - Stack of externals + FCCSW tags
- Disadvantages
 - Changes on the externals cannot be released to cvmfs without including (a new tagged) FCCSW
 - Lack of agile development
 - Our workflow does not fit with this software structure

Current problem with #303



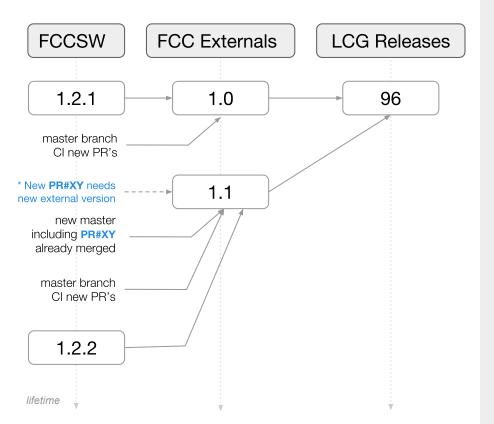
Independent releases of both artifacts

FCCSW Main package on development FCC Externals fcc-edm podio acts-core gaudi ...

Goals

- Easy and quick releases as soon as FCCSW is tagged
- Foresee problems (due to new versions, new packages, incompatibilities...)
- Flexibility for developers
- Facility to test and release different combinations of:
 - FCCSW + FCC External software versions + LCG Releases

Workflow

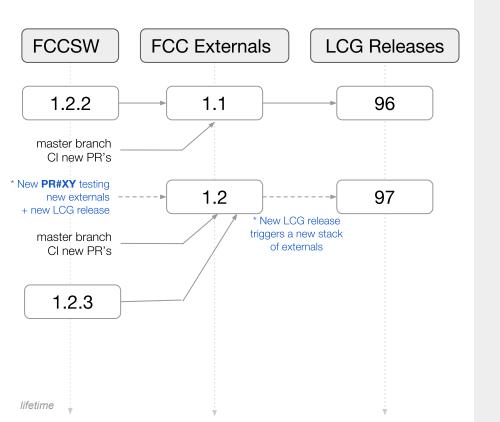


External updates

Guidelines

- FCCSW is always built against latest FCC Externals
- Make sure that we avoid hacky things in the configuration
 - Priority: Fully reliance on what the LCG Releases provide - otherwise issues, PR's

Workflow



New LCG Releases

Guidelines

• Same as for External updates

Reorganisation of cvmfs

Current

```
/cvmfs/fcc.cern.ch/sw/
```

|-- nightlies/\$weekday/\$platform/(fccsw + externals)

```
|-- releases /$version/$platform/(fccsw + externals)
```

-- views

- |-- nightlies/\$weekday/\$platform/setup.sh.....
- `-- releases /\$version/\$platform/setup.sh

New structure

Each version of FCCSW is bound to a specific version of externals: *init.sh sources it*

Versioning convention

FCCSW

• What is the current convention?

FCC Externals

- Which convention should we follow?
- Proposal: Based on <u>Semantic Versioning</u>

X is Major version Y is Minor version Z is Patch version

MAJOR LCG Release in use MINOR New packages or versions PATCH Patches and bugs