# LHCbDIRAC Documentation

Release v7

LHCbDIRAC Project.

Jul 03, 2018

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The DIRAC project is a complete Grid solution for a community of users such as the LHCb Collaboration. DIRAC forms a layer between a particular community and various compute resources to allow optimized, transparent and reliable usage:

- DIRAC documentation: http://dirac.readthedocs.io/en/latest/index.html
- DIRAC hosted repository: https://github.com/DIRACGrid

LHCbDIRAC is the LHCb extension to DIRAC:

- LHCbDIRAC documentation: http://lhcb-dirac.readthedocs.io/en/latest/index.html
- LHCbDIRAC hosted repository: https://gitlab.cern.ch/lhcb-dirac

## CHAPTER 1

**Developers Guide** 

# 1.1 Guide for developing LHCbDIRAC (and DIRAC, for LHCb developers)

A short, but hopefully comprehensive guide on developing in LHCbDIRAC, referencing DIRAC development model. For what are DIRAC and LHCbDIRAC doing, look elsewhere.

LHCbDIRAC is a DIRAC extension. This means that LHCbDIRAC cannot leave independently from DIRAC. There are a number of DIRAC extensions, maintained by various communities worldwide, and LHCbDIRAC is the most important out there, and the one that receives the most support by DIRAC itself. But it also means that DIRAC and LHCbDIRAC (as all the other DIRAC extensions) have different release cycles and versioning, adopts different version control systems, use different tracking systems, and that the code conventions may slightly differ.

DIRAC can also have other extensions, independent from a VO. All these are hosted at github.

#### 1.1.1 Pre-requisites

Within this section we just look at what is necessary to know before looking at the code.

#### Releases

#### Naming

Both DIRAC and LHCbDIRAC follow the same naming conventions for releases, inherithed by the LHCb convention:

#### vMrNpt

where:

- M stands for major version, or simply version
- N stands for *minor version*, or simply *release*

• t stands for *patch version*, or simply *patch* 

with a special pre-release naming convention: -preX.

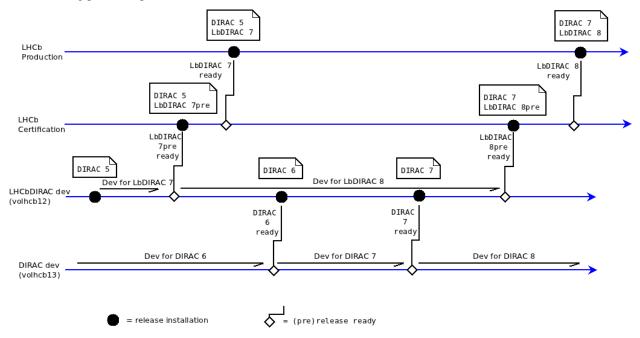
This will be clear with some examples:

- v6r2p0 is the version 6, release 2, patch 0
- v7r5p13 is the version 7, release 5, patch 13
- v8r1-pre2 is the second pre-release of version 8, release 1

There are no pre-releases for patches.

#### **Release cycle**

When developing LHCbDIRAC, we need to consider that every LHCbDIRAC is developed on top of a DIRAC release. The following picture explaines the model.



So, for example. there might be 2 or more LHCbDIRAC releases based on top of the same DIRAC release. Every LHCbDIRAC developers has to know which release of DIRAC its development is for. The major version of both DIRAC and LHCbDIRAC changes rarely, let's say evry 2 years. The minor version changes more frequently in LHCbDIRAC with respect to DIRAC, but there is no strict advancement scheduling for none of the 2.

A pre-release is a release candidate that goes through a certification process.

#### **Version Control**

LHCbDIRAC version control is based on GIT. GIT is a very popular distributed revision control system. The reader is supposed to be familiar with the way such systems work. The code is hosted in the CERN GitLab.

#### **Tracking systems**

The tracking system used for LHCbDIRAC is jira. Jira is a fundamental tool for LHCbDIRAC, and its use is mandatory. Every development should be tracked there. Jira is a very powerfool tool, but requires some time to master. Few notes/links:

- The official documentation is here. You might also be interested in watching the first ~15 minutes of this video.
- Issuing a new bug/task/story/etc. (there are many possible choices) is easy, just look at the top right of the screen:

| Fed            | erico Stagni 🚽 | Administration |
|----------------|----------------|----------------|
| + Create Issue | Quick Search   |                |
|                |                |                |

- Remember to put a "component" when you make a new issue
- When you make a new research in the issue navigator, you can save the search: it will become useful later

|   | Issue Navigator   |
|---|---|
| • |   |
|   | Summary Edit New Manage   |
|   | Switch to advanced searching  |
|   | You are currently using a new,<br>unsaved search. Save it as a filter |
|   | Search  |
|   | Query   |

#### **Developer tools**

You are free to choose the editor or IDE you prefer. I know Emacs is a great tool, and someone can't just leave without it. And that also vim is great. Eclipse with pydev is another good choice. Other possibilities include PyCharm (IntelliJIDEA) and atom

### **1.2 Developing DIRAC and LHCbDIRAC**

Developing the code is not just about editing. You also want to "run" something, usually for testing purposes. The DIRAC way of developing can be found here and it applies also to LHCbDIRAC. Please follow carefully especially what's here

In general, if you are developing LHCbDIRAC, you should consider that:

- everything that applies to DIRAC development, also applies to LHCbDIRAC development, so, follow carefully the links above
- every LHCbDIRAC release has a strong dependency with a DIRAC release. See https://gitlab.cern.ch/ lhcb-dirac/LHCbDIRAC/blob/master/CONTRIBUTING.md for more info.

### 1.3 HOW TOs

### **1.4 Browsing the code running in production**

If you want to browse the DIRAC (and LHCbDIRAC) code running in production you'll first of all have to know which version is installed. Announcements of new deployements are done via the LHCb operations eLog. The code is also always installed in the afs release area (*\$LHCb\_release\_area/DIRAC/DIRAC\_vX5rYpZ/DIRAC*) but you can normally use git to switch from one to another.

### 1.5 I developed something, I want it in the next release

Just open a merge request to the devel branch of LHCbDirac: all the releases (minor and major) are created branching from this branch.

### **1.6 Asking for a LHCbDIRAC patch**

Just open a merge request to the master branch of LHCbDirac. If in a hurry, drop an e-mail to the lhcb-dirac mailing list.

# CHAPTER 2

### Administrator Guide

This page is the work in progress. See more material here soon !

### 2.1 LHCbDIRAC Releases

The following procedure applies fully to LHCbDIRAC production releases, like patches. For pre-releases (AKA certification releases, there are some minor changes to consider).

#### 2.1.1 Prerequisites

The release manager needs to:

- be aware of the LHCbDIRAC repository structure and branching as highlighted in the contribution guide.
- have forked LHCbDIRAC on GitLab as a "personal project" (called "origin" from now on)
- · have cloned origin locally
- · have added https://gitlab.cern.ch/lhcb-dirac/LHCbDIRAC as "upstream" repository to the local clone
- have push access to the master branch of "upstream" (being part of the project "owners")
- have DIRAC installed
- have been grated write access to <webService>
- have "lhcb\_admin" or "diracAdmin" role.
- have a Proxy

The release manager of LHCbDIRAC has the triple role of:

- 1. creating the release
- 2. making basic verifications
- 3. deploying it in production

#### 2.1.2 1. Creating the release

Unless otherwise specified, (patch) releases of LHCbDIRAC are usually done "on top" of the latest production release of DIRAC. The following of this guide assumes the above is true.

Creating a release of LHCbDIRAC means creating a tarball that contains the release code. This is done in 3 steps:

- 1. Merging "Merge Requests"
- 2. Propagating to the devel branch
- 3. Creating the release tarball, add uploading it to the LHCb web service

But before:

#### Pre

Verify what is the last tag of DIRAC:

```
# it should be in this list:
git describe --tags $(git rev-list --tags --max-count=10)
```

A tarball containing it is should be already uploaded here

You may also look inside the .cfg file for the DIRAC release you're looking for: it will contain an "Externals" version number, that should also be a tarball uploaded in the same location as above.

If all the above is ok, we can start creating the LHCbDIRAC release.

#### Merging "Merge Requests"

Merge Requests (MR) that are targeted to the master branch and that have been approved by a reviewer are ready to be merged

If there are no MRs, or none ready: please skip to the "update the CHANGELOG" subsection.

Otherwise, simply click the "Accept merge request" button for each of them.

Then, from the LHCbDIRAC local fork you need to update some files:

```
# if you start from scratch otherwise skip the first 2 commands
mkdir $(date +20%y%m%d) && cd $(date +20%y%m%d)
git clone https://:@gitlab.cern.ch:8443/lhcb-dirac/LHCbDIRAC.git
git remote add upstream https://:@gitlab.cern.ch:8443/lhcb-dirac/LHCbDIRAC.git
# update your "local" upstream/master branch
git fetch upstream
# create a "newMaster" branch which from the upstream/master branch
git checkout -b newMaster upstream/master
# determine the tag you're going to create by checking what was the last one from the,
\rightarrow following list (add 1 to the "p"):
git describe --tags $(git rev-list --tags --max-count=5)
# Update the version in the __init__ file:
vim LHCbDIRAC/__init__.py
# Update the version in the releases.cfg file:
vim LHCbDIRAC/releases.cfg
# For updating the CHANGELOG, get what's changed since the last tag
t=$(git describe --abbrev=0 --tags); git --no-pager log ${t}..HEAD --no-merges --

→pretty=format:'* %s';

# copy the output, add it to the CHANGELOG (please also add the DIRAC version)
```

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```
vim CHANGELOG # please, remove comments like "fix" or "pylint" or "typo"...
#If needed, change the versions of the packages
vim dist-tools/projectConfig.json
git add -A && git commit -av -m "<YourNewTag>"
```

#### Time to tag and push:

```
# make the tag
git tag -a <YourNewTag> -m <YourNewTag>
# push "newMaster" to upstream/master
git push --tags upstream newMaster:master
# delete your local newMaster
# before change your branch use git checkout "existing branch name"
git branch -d newMaster
```

Remember: you can use "git status" at any point in time to make sure what's the current status.

#### Propagate to the devel branch

Now, you need to make sure that what's merged in master is propagated to the devel branch. From the local fork:

```
# get the updates (this never hurts!)
git fetch upstream
# create a "newDevel" branch which from the upstream/devel branch
git checkout -b newDevel upstream/devel
# merge in newDevel the content of upstream/master
git merge upstream/master
```

The last operation may result in potential conflicts. If happens, you'll need to manually update the conflicting files (see e.g. this guide). As a general rule, prefer the master fixes to the "HEAD" (devel) fixes. Remember to add and commit once fixed. Note: For porting the LHCbDIRAC.init.py from master to devel, we prefer the HEAD version (only for this file!!!)

Plase fix the conflict if some files are conflicting. Do not forget to to execute the following:

git add -A && git commit -m " message"

Conflicts or not, you'll need to push back to upstream:

```
# push "newDevel" to upstream/devel
git push upstream newDevel:devel
# delete your local newDevel
git branch -d newDevel
# keep your repo up-to-date
git fetch upstream
```

#### Creating the release tarball, add uploading it to the LHCb web service

#### Login on lxplus, run

```
lb-run LHCbDirac/prod bash -norc
git archive --remote ssh://git@gitlab.cern.ch:7999/lhcb-dirac/LHCbDIRAC.git devel_
→LHCbDIRAC/releases.cfg | tar -x -v -f - --transform 's|^LHCbDIRAC/||' LHCbDIRAC/
→releases.cfg
```

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Don't forget to read the last line of the previous command to copy the generated files at the right place. The format is something like:

```
( cd /tmp/joel/tmpxg8UuvDiracDist ; tar -cf - *.tar.gz *.md5 *.cfg ) | ssh_

→lhcbprod@lxplus.cern.ch 'cd /afs/cern.ch/lhcb/distribution/DIRAC3/tars && tar -xvf_

→- && ls *.tar.gz > tars.list'
```

#### And just copy/paste/execute it.

If you do not have access to lhcbprod, you can use your user name.

#### 2.1.3 2. Making basic verifications

Once the tarball is done and uploaded, the release manager is asked to make basic verifications, via Jenkins, if the release has been correctly created.

At this link you'll find some Jenkins Jobs ready to be started. Please start the following Jenkins jobs and come back in about an hour to see the results for all of them.

 https://lhcb-jenkins.cern.ch/jenkins/view/LHCbDIRAC/job/!RELEASE!\_\_pylint\_unit/ the !RELEASE! is the actual relase for example: https://lhcb-jenkins.cern.ch/jenkins/view/LHCbDIRAC/job/v8r5\_\_pylint\_unit/

This job will: run pylint (errors only), run all the unit tests found in the system, assess the coverage. The job should be considered successful if:

- the pylint error report didn't increase from the previous job run
- the test results didn't get worse from the previous job run
- the coverage didn't drop from the previous job run
- 2. https://lhcb-jenkins.cern.ch/jenkins/view/LHCbDIRAC/job/!RELEASE!\_pilot/

This job will simply install the pilot. Please just check if the result does not show in an "unstable" status

3. https://lhcb-jenkins.cern.ch/jenkins/view/LHCbDIRAC/job/!RELEASE!\_/

TODO

#### 2.1.4 3. Advertise the new release

Before you start the release you must write an Elog entry 1 hour before you start the deployment. You have to select Production and Release tick boxes. When the intervention is over you must notify the users (reply to the Elog message).

#### 2.1.5 4. Deploying the release

Deploying a release means deploying it for the various installations:

```
* client
```

```
* server
```

<sup>\*</sup> pilot

#### release for client

Please refer to this TWIKI page a quick test to validate the installation is to run the SHELL script \$LHCBRE-LEASE/LHCBDIRAC/LHCBDIRAC\_vXrY/LHCbDiracSys/test/client\_test.csh

go to this web page for asking to install the client release in AFS and CVMFS:

- in the field "Project list" put : "Dirac vNrMpK LHCbDirac vArBpC" (NOTE: If LHCbGRID is already released, please use only DIRAC and LHCbDIRAC: DIRAC vNrMpK LHCbDirac vArBpC)
- in the field "platforms" put : "x86\_64-slc6-gcc48-opt x86\_64-slc6-gcc49-opt"

Then click on the "BUILD" button

- within 10-15 min the build should start to appear in the nightlies page https://lhcb-nightlies.cern.ch/release/
- if there is a problem in the build, it can be re-started via the dedicated button (it will not restart by itself after a retag)

If it is the production release, and only in this case, once satisfied by the build, take note of the build id (you can use the direct link icon) and make the request via https://sft.its.cern.ch/jira/browse/LHCBDEP.

- NOTE: If some package is already released, please do not indicate in the Jira task. For example: a Jira task when:
  - DIRAC is not released, then the message in the JIRA task: Summary:Dirac v6r14p37 and LHCbDirac v8r2p50; Description: Please release Dirac and LHCbDirac in this order based on build 1526
  - DIRAC is released, then the message in the JIRA task: Summary:LHCbDirac v8r2p50; Description: Please release LHCbDirac based on build 1526

#### Server

To install it on the VOBOXes from lxplus:

```
lhcb-proxy-init -g diracAdmin
dirac-admin-sysadmin-cli --host volhcbXX.cern.ch
>update LHCbDIRAC-v8r3p32
>restart *
```

The (better) alternative is using the web portal or using the following script: LHCb-DIRAC/LHCbDiracPolicy/scripts/create\_vobox\_update.

The recommended way is the following:

```
ssh lxplus
mkdir DiracInstall; cd DiracInstall
cp LHCbDIRAC/LHCbDiracPolicy/scripts/create_vobox_update .
cp LHCbDIRAC/LHCbDiracPolicy/scripts/skel_vobox_update .
python create_vobox_update v8r2p30
```

This command will create 6 files called "vobox\_update\_MyLetter" then you can run in 6 windows the recipe for one single machine like that:

#### Note:

It is normal if you see the following errors:

-> Executing restart Framework SystemAdministrator [ERROR] Exception while reading from peer: (-1, 'Unexpected EOF')

In case of failure you have to update the machine by hand. Example of a typical failure:

```
--> Executing update v8r2p42
Software update can take a while, please wait ...
[ERROR] Failed to update the software
Timeout (240 seconds) for '['dirac-install', '-r', 'v8r2p42', '-t', 'server', '-e',
_ 'LHCb', '-e', 'LHCb', '/opt/dirac/etc/dirac.cfg']' call
```

Login to the failing machine, become dirac, execute manually the update, and restart everything. For example:

```
ssh lbvobox11
sudo su - dirac
dirac-install -r v8r2p42 -t server -e LHCb -e LHCb /opt/dirac/etc/dirac.cfg
lhcb-restart-agent-service
runsvctrl t startup/Framework_SystemAdministrator/
```

Specify that this error can be ignored (but should be fixed !):

```
2016-05-17 12:00:00 UTC dirac-install [ERROR] Requirements installation script /opt/

→dirac/versions/v8r2p42_1463486162/scripts/dirac-externals-requirements failed.

→Check /opt/dirac/versions/v8r2p42_1463486162/scripts/dirac-externals-requirements.

→err
```

#### **WebPortal**

When the web portal machine is updated then you have to compile the WebApp:

```
ssh lhcb-portal-dirac.cern.ch
sudo su - dirac
dirac-install -r VERSIONTOBEINSTALLED -t server -l LHCb -e LHCb,LHCbWeb,WebAppDIRAC /
→opt/dirac/etc/dirac.cfg (for example: dirac-install -r v8r4p2 -t server -l LHCb -e 
→LHCb,LHCbWeb,WebAppDIRAC /opt/dirac/etc/dirac.cfg)
dirac-webapp-compile
```

When the compilation is finished:

```
lhcb-restart-agent-service
runsvctrl t startup/Framework_SystemAdministrator/
```

#### TODO

When the machines are updated, then you have to go through all the components and check the errors. There are two possibility

- 1. Use the Web portal (SystemAdministrator)
- 2. Command line:

for h in \$(grep 'set host' vobox\_update\_\* | awk { 'print \$NF' }); do echo 'show errors'' | dirac-adminsysadmin-cli -H \$h; done | less

#### **Pilot**

Use the following script (from, e.g., lxplus after having run *lb-run LHCbDIRAC tcsh*):

```
dirac-pilot-version -S v8r2p42
```

for checking and updating the pilot version. Note that you'll need a proxy that can write in the CS (i.e. lhcb-admin). This script will make sure that the pilot version is update BOTH in the CS and in the json file used by pilots started in the vacuum.

#### Basic instruction how to merging the devel branch into master (NOT for PATCH release)

Our developer model is to keep only two branches: master and devel. When we made a major release we have to merge devel to master. Before the merging please create a new branch based on master using the web interface of GitLab. This is for safety. After you can merge devel to master:

```
mkdir $(date +20%y%m%d) && cd $(date +20%y%m%d)
git clone ssh://git@gitlab.cern.ch:7999/lhcb-dirac/LHCbDIRAC.git
cd LHCbDIRAC
git remote rename origin upstream
git fetch upstream
git checkout -b newMaster upstream/master
git merge upstream/devel
git push upstream newMaster:master
```

#### 2.1.6 5. Mesos cluster

Mesos is currently only used for the certification. In order to push a new version on the Mesos cluster, 3 steps are needed:

- Build the new image
- Push it the lhcbdirac gitlab repository
- Update the version of the running containers

All these functionalities have been wrapped up in a script (dirac-docker-mgmt), available on all the lbmesosadm\* machines (01, 02)

The next steps are the following:

```
# build the new image
# this will download the necessary files, and build
# the image localy
dirac-docker-mgmt.py -v v8r5 --build
# Push it to the remote lhcbdirac registry
# Your credentials for gitlab will be asked
dirac-docker-mgmt.py -v v8r5 --release
# Update the version of the running containers
# The services and number of instances running
# will be preserved
dirac-docker-mgmt.py -v v8r5 --deploy
```

### 2.2 Renewal of certificate for ONLINE machine

Login as lhcbprod on lbdirac.cern.ch and generate the certificate request

openssl req -new -subj /CN=lbdirac.cern.ch -out newcsr.csr -nodes -shal

Open in your browser the page http://ca.cern.ch cut the content of *newcsr.csr* (created in the previous step) in the web page and click on the submit button. Save the Base 64 encoded certificate as a file *newcert.cer*. Copy this file to lbdirac.cern.ch. Then convert the certificate in the correct format.

```
openssl pkcs12 -export -inkey privkey.pem -in newcert.cer -out myCertificate.pks (You_

→will have to type the PEM password you typed in the previous step. Type also an_

→export password, and don't forget it. Your certificate in PKCS12 format is ready in_

→file myCertificate.pks, you can delete the other files.)

openssl pkcs12 -in myCertificate.pks -clcerts -nokeys -out hostcert.pem

openssl pkcs12 -in myCertificate.pks -nocerts -out hostkey.pem.passwd

openssl rsa -in hostkey.pem.passwd -out hostkey.pem (remove the password)
```

If you want to test that the new host certificate is valid without any password, just do

dirac-proxy-init -C <cert> -K <key>

### 2.3 ONLINE steps

#### 2.3.1 Installation of LHCbDirac

The machine running the transfers from the pit is lbdirac, and is in the online network. This machine runs:

- A complete RMS: ReqManager (url: RequestManagement/onlineGateway), a ReqProxy (known only from inside) and a RequestExecutingAgent
- The RAWIntegrity system: the RAWIntegrityHandler and RAWIntegrityAgent

A special catalog is defined in the local configuration in order to keep track of the files transfered:

```
RAWIntegrity
{
   AccessType = Read-Write
   Status = Active
}
```

We also have two special configuration for StorageElements:

```
# Setting it to NULL to transfer without
# checking the checksum, since it is already done by
# the DataMover and the RAWIntegrityAgent
# It should avoid the double read on the local disk
ChecksumType=NULL
# Setting this to True is dangerous...
# If we have a SRM_FILE_BUSY, we remove the file
# But we have enough safety net for the transfers from the pit
SRMBusyFilesExist = True
```

Finally, you need to overwrite the URLS of the RMS to make sure that they use the internal RMS:

```
URLs
{
    ReqManager = dips://lbdirac.cern.ch:9140/RequestManagement/ReqManager
    ReqProxyURLs = dips://lbdirac.cern.ch:9161/RequestManagement/ReqProxy
}
```

### 2.3.2 Workflow

The DataMover is the Online code responsible for the interraction with the BKK (register the run, the files, set the replica flag), to request the physical transfers, and to remove the file of the Online storage when properly transfered.

The doc is visible here: https://lbdokuwiki.cern.ch/online\_user:rundb\_onlinetoofflinedataflow

The DataMover registers the Run and the files it already knows about in the BKK. Then it creates for each file a request with a PutAndRegister operation. The target SE is CERN-RAW, the Catalog is RAWIntegrity. The RequestExecutingAgent will execute the copy from the local online storage to CERN-RAW, and register it in the RAWIntegrity DB.

The RAWIntegrityAgent looks at all the files in the DB that are in status 'Active'.

For each of them, it will check if the file is already on tape, and if so, compare the checksum.

If the checksum is correct, the file is registered in the DFC only, a removal request is sent to the local ReqManager, and the status set to 'Done'. This removal Request sends a signal to the DataMover, which will mark the file for removal (garbage collection), and the replica flag to yes in the BKK

If the checksum is not correct, the file is removed from CERN-RAW, the status set to 'Failed' and a retransfer request is put to the ReqManager (this last part will change soon because does not make sense).

In case of any error in the process (cannot get metadata, cannot send request, etc), no change is done to the RAWIn-tegrityDB concerning that file, and it will be part of the next cycle.

# CHAPTER 3

### Certification

### 3.1 LHCbDIRAC Certification (development) Releases

The following procedure applies to pre-releases (AKA certification releases) and it is a simpler version of what applies to production releases.

This page details the duty of the release manager. The certification manager duties are detailed in the next page.

#### 3.1.1 What for

The release manager of LHCbDIRAC has the role of:

- 1. creating the pre-release
- 2. making basic tests
- 3. deploying it in the certification setup

The certification manager would then follow-up on this by: 4. making even more tests

And, after several iterations of the above, before: 5. merging in the production branch

Points 4 and 5 won't anyway be part of this first document.

#### 3.1.2 1. Creating the release

Unless otherwise specified, certification releases of LHCbDIRAC are done "on top" of the latest pre-release of DIRAC. The following of this guide assumes the above is true.

Creating a pre-release of LHCbDIRAC means creating a tarball that contains the code to certify. This is done in 2 steps:

- 1. Merging "Merge Requests"
- 2. Creating the release tarball, add uploading it to the LHCb web service

But before:

#### Pre

If you use a version of git prior to 1.8, remove teh option -pretty in the command line

Verify what is the last tag of DIRAC:

```
# it should be in this list:
git describe --tags $(git rev-list --tags --max-count=10)
```

A tarball containing it is should be already uploaded here

You may also look inside the .cfg file for the DIRAC release you're looking for: it will contain an "Externals" version number, that should also be a tarball uploaded in the same location as above.

If all the above is ok, we can start creating the LHCbDIRAC pre-release.

#### Merging "Merge Requests"

Merge Requests (MR) that are targeted to the devel branch and that have been approved by a reviewer are ready to be merged

If there are no MRs, or none ready: please skip to the "update the CHANGELOG" subsection.

Otherwise, simply click the "Accept merge request" button for each of them.

Then, from the LHCbDIRAC local fork you need to update some files:

```
# if you start from scratch otherwise skip the first 2 commands
mkdir $(date +20%y%m%d) && cd $(date +20%y%m%d)
git clone https://:@gitlab.cern.ch:8443/lhcb-dirac/LHCbDIRAC.git
git remote add upstream https://:@gitlab.cern.ch:8443/lhcb-dirac/LHCbDIRAC.git
# update your "local" upstream/master branch
git fetch upstream
# create a "newDevel" branch which from the upstream/devel branch
git checkout -b newDevel upstream/devel
# determine the tag you're going to create by checking what was the last one from the
\rightarrow following list (add 1 to the "p"):
git describe --tags $(git rev-list --tags --max-count=5)
# Update the version in the __init__ file:
vim LHCbDIRAC/__init__.py
# Update the version in the releases.cfg file:
vim LHCbDIRAC/releases.cfg
# For updating the CHANGELOG, get what's changed since the last tag
#please use the proper LHCbDIRAC tag; replace v8r2p46
git log --pretty=oneline ${t}..HEAD | grep -Ev "($(git log --pretty=oneline ${t}..
↔v8r2p46 | awk {'print $1'} | tr '\n' '|')BOOM)"
# copy the output, add it to the CHANGELOG (please also add the DIRAC version)
vim CHANGELOG # please, remove comments like "fix" or "pylint" or "typo"...
#If needed, change the versions of the packages
vim dist-tools/projectConfig.json
# Commit in your local newDevel branch the 3 files you modified
git add -A && git commit -av -m "<YourNewTag>"
```

Time to tag and push:

```
# make the tag
git tag -a <YourNewTag> -m <YourNewTag>
# push "newDevel" to upstream/devel
git push --tags upstream newDevel:devel
# delete your local newDevel
git branch -d newDevel
```

Remember: you can use "git status" at any point in time to make sure what's the current status.

#### Creating the release tarball, add uploading it to the LHCb web service

Login on lxplus, run

```
lb-run LHCbDirac/prod bash -norc
git archive --remote ssh://git@gitlab.cern.ch:7999/lhcb-dirac/LHCbDIRAC.git devel_
→LHCbDIRAC/releases.cfg | tar -x -v -f - --transform 's|^LHCbDIRAC/||' LHCbDIRAC/
→releases.cfg
dirac-distribution -r v8r4-prel -l LHCb -C file:///`pwd`/releases.cfg (this may take_
→some time)
```

Don't forget to read the last line of the previous command to copy the generated files at the right place. The format is something like:

```
( cd /tmp/joel/tmpxg8UuvDiracDist ; tar -cf - *.tar.gz *.md5 *.cfg ) | ssh

→$USER@lxplus.cern.ch 'cd /afs/cern.ch/lhcb/distribution/DIRAC3/tars && tar -xvf - &

→& ls *.tar.gz > tars.list'
```

And just copy/paste/execute it.

#### 3.1.3 2. Making basic verifications

Once the tarball is done and uploaded, the release manager is asked to make basic verifications, via Jenkins, if the release has been correctly created.

At this link you'll find some Jenkins Jobs ready to be started. Please start the following Jenkins jobs and come back in about an hour to see the results for all of them.

1. https://lhcb-jenkins.cern.ch/jenkins/view/LHCbDIRAC/job/PRERELEASE\_pylint\_unit/

This job will: run pylint (errors only), run all the unit tests found in the system, assess the coverage. The job should be considered successful if:

- the pylint error report didn't increase from the previous job run
- the test results didn't get worse from the previous job run
- the coverage didn't drop from the previous job run
- 2. https://lhcb-jenkins.cern.ch/jenkins/view/LHCbDIRAC/job/PRERELEASE\_pilot/

This job will simply install the pilot. Please just check if the result does not show in an "unstable" status

3. https://lhcb-jenkins.cern.ch/jenkins/view/LHCbDIRAC/job/RELEASE\_/

TODO

#### 3.1.4 3. Deploying the release

Deploying a release means deploying it for some installation:

```
* client
```

- \* server
- \* pilot

#### release for client

Please refer to this TWIKI page a quick test to validate the installation is to run the SHELL script \$LHCBRE-LEASE/LHCBDIRAC/LHCBDIRAC\_vXrY/LHCbDiracSys/test/client\_test.csh

go to https://jenkins-lhcb-nightlies.web.cern.ch/job/nightly-builds/job/release/build page for asking to install the client release in AFS and CVMFS:

- in the field "Project list" put : "Dirac vNrMpK LHCbGrid vArB LHCbDirac vArBpC " (LHCbGrid version can be found: https://gitlab.cern.ch/lhcb-dirac/LHCbDIRAC/blob/devel/dist-tools/projectConfig.json)
- in the field "platforms" put : "x86\_64-slc6-gcc49-opt x86\_64-slc6-gcc62-opt x86\_64-centos7-gcc62-opt"
- inthe field "build\_tool" put : "CMake"
- inthe field "scripts\_version" put : "prepare-for-new-jenkins"

Then click on the "BUILD" button

- within 10-15 min the build should start to appear in the nightlies page https://lhcb-nightlies.cern.ch/release/
- if there is a problem in the build, it can be re-started via the dedicated button (it will not restart by itself after a retag)

When the release is finished https://lhcb-nightlies.cern.ch/release/, you can deploy to the client.

Note: Please execute the following commands sequentially.

The following commands used to prepare the RPMs:

```
ssh lhcb-archive
export build_id=1520
lb-release-rpm /data/artifacts/release/lhcb-release/$build_id
lb-release-rpm --copy /data/artifacts/release/lhcb-release/$build_id
```

If the rmps are created, you can deploy the release (Do not execute parallel the following commands):

```
ssh lxplus
cd /afs/cern.ch/lhcb/software/lhcb_rpm_dev
export MYSITEROOT=/afs/cern.ch/lhcb/software/lhcb_rpm_dev
export MyProject=Dirac
export MyVersion=vArBpC
./lbpkr rpm -- -ivh --nodeps /afs/cern.ch/lhcb/distribution/rpm/lhcb/${MyProject^^}_$
$\Leftarrow {MyVersion}*
export MyProject=LHCbDirac
export MyVersion=vArB-preC
./lbpkr rpm -- -ivh --nodeps /afs/cern.ch/lhcb/distribution/rpm/lhcb/${MyProject^^}_$
$\Leftarrow {MyVersion}*
```

#### Server

To install it on the VOBOXes (certification only) from lxplus:

```
lhcb-proxy-init  -g diracAdmin
dirac-admin-sysadmin-cli --host volhcbXX.cern.ch
>update LHCbDIRAC-v8r4-pre1
>restart *
```

The (better) alternative is using the web portal.

#### Pilot

Use the following script (from, e.g., lxplus after having run *lb-run -dev LHCbDIRAC bash*):

dirac-pilot-version

for checking and updating the pilot version. Note that you'll need a proxy that can write in the CS (i.e. lhcb-admin). This script will make sure that the pilot version is update BOTH in the CS and in the json file used by pilots started in the vacuum. The command to update is

dirac-pilot-version -S v8r4-pre1

Make sure that you are in the certification setup (e.g. check the content of your .dirac.cfg file)

### 3.2 The certification process

Certifying a release is a process. There are a number of steps to make to reach the point in which we can finally say that a release is at production level. Within LHCbDirac, we are trying to streamline and automatize this process as much as possible. Even with that, some tests still require manual intervention. We can split the process in a series of incremental tests.

Within the following sections we describe, step by step, all the actions needed.

The whole certification process varies from release to release. The list of things to do is maintained in trello boards.

#### 3.2.1 Unit test

When a new release candidate is created from the devel branch, we first run pylint on the whole codebase, and all the unit tests. Jenkins automizes this for us.

#### 3.2.2 Integration and Regression tests

Run by Jenkins.

#### 3.2.3 System tests

Even if it should not be considered strictly as a test, running all the agents and service within certification is an action to take. Agents and services spits errors and exceptions. While the second are obviously bugs, the first are not to be considered bugs until an expert look. Nonetheless, we have created a tool to easily identify all new exceptions and errors:

```
codeLocation=https://gitlab.cern.ch/lhcb-dirac/LHCbDIRAC/raw/devel/tests/System/

→LogsParser/

mkdir /tmp/logTest

cd /tmp/logTest

wget -r -np -nH --cut-dirs=7 $codeLocation

/bin/bash logParser.sh
```

For testing that the RMS works, there is an ad-hoc test:

```
wget http://github.com/DIRACGrid/DIRAC/blob/integration/DataManagementSystem/test/

→IntegrationFCT.py

python IntegrationFCT.py lhcb_user CERN-USER RAL-USER CNAF-USER

python IntegrationFCT.py lhcb_prod CERN-FAILOVER RAL-FAILOVER CNAF-FALIOVER
```

Those commands will create and put to the Request Management System two new requests:

- 1. for lhcb\_user group, which should be banned from using the FTS system
- 2. for lhcb\_prod or lhcb\_prmgr group, which this should be executed using FTS

You could monitor their execution using Request monitor web page or by using CLI comamnd:

dirac-rms-show-request test<userName>-<userGroup>

The execution itself will take a while, but at the end both requests statuses should be set to 'Done'.

Another test, again for the RMS, combined with FTS, is to simply use the following standard DIRAC scripts:

dirac-dms-create-replication-request CNAF\_MC-DST /lhcb/certification/test/ALLSTREAMS.  $ightarrow DST/00000751/0000/00000751_00000014_1.allstreams.dst$ 

Which will actually schedule the replication of such file using FTS. This will print an ID that can be used for the script

dirac-rms-show-request ID

That should show how the request goes (quickly) in status "Scheduled", and then "Done".

The following script, instead, will remove the copy just created.

```
dirac-dms-create-removal-request CNAF_MC-DST /lhcb/certification/test/ALLSTREAMS.DST/
```

Again, monitoring is available as above.

For testing the replications and removals, use the following:

```
dirac-dms-add-replication --BKQuery=/validation/MC11a/Beam3500GeV-2011-MagDown-Nu2-

→EmNoCuts/Sim05/Trig0x40760037Flagged/Reco12a/Stripping17Flagged/12463412/ALLSTREAMS.

→DST --Plugin=ReplicateDataset --Test
```

That will just print out how many files can be replicated. If there is at least one file (for this particular query there should be 35), then you can start it with:

```
dirac-dms-add-replication --BKQuery=/validation/MC11a/Beam3500GeV-2011-MagDown-Nu2-
→EmNoCuts/Sim05/Trig0x40760037Flagged/Reco12a/Stripping17Flagged/12463412/ALLSTREAMS.
→DST --Plugin=ReplicateDataset --NumberOfReplicas=2 --SecondarySEs Tier1-DST --Start
```

You can monitor the advancement using:

```
dirac-dms-replica-stats --BKQuery=/validation/MC11a/Beam3500GeV-2011-MagDown-Nu2-

→EmNoCuts/Sim05/Trig0x40760037Flagged/Reco12a/Stripping17Flagged/12463412/ALLSTREAMS.

→DST
```

Which should tell you the replica statistics, something like:

```
[fstagni@lxplus0032 ~]$ dirac-dms-replica-stats --BKQuery=/validation/MC11a/
-Beam3500GeV-2011-MagDown-Nu2-EmNoCuts/Sim05/Trig0x40760037Flagged/Reco12a/
→Stripping17Flagged/12463412/ALLSTREAMS.DST
Executing BK query: {'Visible': 'Yes', 'ConfigName': 'validation',
34 files (0.0 TB) in directories:
/lhcb/validation/MC11a/ALLSTREAMS.DST/00000654/0000 34 files
34 files found with replicas
Replica statistics:
0 archives: 0 files
1 archives: 25 files
2 archives: 9 files
0 replicas: 0 files
1 replicas: 0 files
2 replicas: 0 files
3 replicas: 33 files
4 replicas: 0 files
5 replicas: 1 files
SE statistics:
  CERN-ARCHIVE: 15 files
  CNAF-ARCHIVE: 5 files
 GRIDKA-ARCHIVE: 11 files
  IN2P3-ARCHIVE: 1 files
   RAL-ARCHIVE: 8 files
   SARA-ARCHIVE: 3 files
  CERN_MC_M-DST: 34 files
   CNAF_MC-DST: 4 files
  CNAF_MC_M-DST: 8 files
  GRIDKA_MC-DST: 1 files
GRIDKA_MC_M-DST: 3 files
   IN2P3_MC-DST: 9 files
 IN2P3_MC_M-DST: 6 files
    PIC_MC-DST: 5 files
   PIC_MC_M-DST: 4 files
    RAL_MC-DST: 20 files
   RAL_MC_M-DST: 6 files
   SARA_MC-DST: 3 files
  SARA_MC_M-DST: 1 files
Sites statistics:
   LCG.CERN.ch: 34 files
   LCG.CNAF.it: 12 files
  LCG.GRIDKA.de: 4 files
  LCG.IN2P3.fr: 15 files
    LCG.PIC.es: 9 files
```

(continues on next page)

(continued from previous page)

```
LCG.RAL.uk: 26 files
LCG.SARA.nl: 4 files
```

Later, when you see that at least 2 replicas exist, you can issue

```
dirac-dms-add-replication --BKQuery=/validation/MC11a/Beam3500GeV-2011-MagDown-Nu2-

→EmNoCuts/Sim05/Trig0x40760037Flagged/Reco12a/Stripping17Flagged/12463412/ALLSTREAMS.

→DST --Plugin=DeleteReplicas --NumberOfReplicas=1 --Start
```

### 3.3 Acceptance test steps

#### 3.3.1 Installation of LHCbDirac

Login to a machine where LHCbDirac is already installed. Set the LHCbDirac environment, get a proxy with admin rights and launch the sysadmin CLI

```
lb-run LHCbDirac/prod bash
lhcb-proxy-init -g diracAdmin
dirac-admin-sysadmin-cli
```

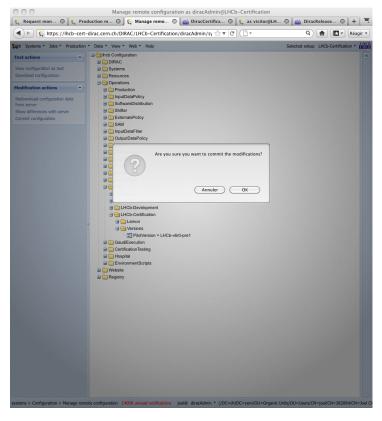
Update the LHCbDirac version and restart all the services

```
set host volhcbXX.cern.ch
update LHCb-vArBpC
restart *
```

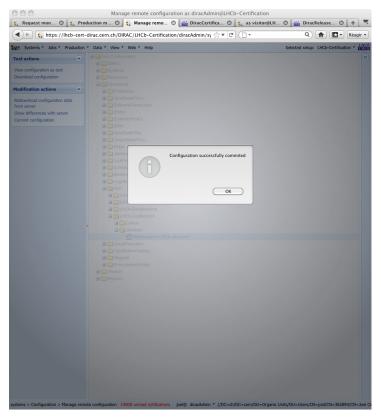
Change the version of the pilot in the CS. Go to the web portal, login with your certificate and the role **diracAdmin**. Click on **Systems**, **Configuration** and **Manage Remote configuration**.

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|---|--|---|--------|------------|---------|------------|---------|-----|
| ) | https://lhcb-cert  | -dirac.cern.ch/DIRAC/LHCb-Certification/diracAdmin/sy 🏫 🔻 🤁   |        | ٩          |         |            | Réagi   | r • |
| s | Systems  Jobs  Production  | ▼ Data ▼ View ▼ Web ▼ Help  | Select | ted setup: | LHCb-   | Certificat | ion 🔹 🛔 | #   |
|   | Workload management  Data management  Monitoring  Configuration  Accounting  Logging | Image: System       Image: |        |            |         |            |         |     |
| L | Ecgging Bookkeeping Framework Framework  | Show history of server danges<br>Manage remote configuration<br>Browse remote configuration<br>Plots for Configuration Server   |        |            |         |            |         |     |
|   |  |   |        |            |         |            |         |     |
|   |  |   |        |            |         |            |         |     |
|   |  |   |        |            |         |            |         |     |
|   |  |   |        |            |         |            |         |     |
|   |  |   |        |            |         |            |         |     |
|   |  |   |        |            |         |            |         |     |
|   |  |   |        |            |         |            |         |     |
|   |  |   |        |            |         |            |         |     |
|   |  |   |        |            |         |            |         |     |
|   |  |   |        |            |         |            |         |     |
|   |  |   |        |            |         |            |         |     |
|   |  |   |        |            |         |            |         |     |
|   |  |   |        |            |         |            |         |     |

The version is in the section /Operations/Ihcb/LHCb-Certification/Versions/PilotVersion. Clicks on the **PilotVersion** and on change option value. Once you have changed the version number, click on **submit**. and do not forget to commit the change.



So you click on the left column on Commit Configuration



Now you should restart the task queue director

```
cd /opt/dirac/runit
runsvctrl d WorkloadManagement/TaskQueueDirector
runsvctrl u WorkloadManagement/TaskQueueDirector
```

### 3.3.2 Production test activity

Open your browser and connect to the certification instance of the LHCbDirac web portal (http://lhcb-cert-dirac.cern. ch) select the setup LHCb-Certification and load your certificate in the portal. Check that that your role is **lhcb\_user**. Go to the tab **Production** and click on the **Requests** choice

| D   | agistarad | Production Reque | r Data ▼ Viev |          |                                |                                 |                                    |            |        |
|-----|-----------|------------------|---------------|----------|--------------------------------|---------------------------------|------------------------------------|------------|--------|
| -   |           | Production Reque | 515           |          |                                |                                 |                                    |            |        |
| / R | equests   | -                |               |          |                                |                                 | -                                  |            |        |
|     | ld 🔻      | Туре             | State         | Priority | Name                           | Sim/Run conditions              | Proc. pass                         | Event type | Events |
| ±   | 18        | Simulation       | Accepted      | 2b       | Template for certification     |                                 | 2010-Sim08Trig0x002a002aReco07-wit |            |        |
| ±   | - 17      | Simulation       | BK Check      | 2b       | Template for certification     | •                               | 2010-Sim08Trig0x002a002aReco07-wit | 12143001   |        |
| ±   |           | Simulation       | New           | 2b       | Certification_MC_Test_Ignore   | Beam3500GeV-VeloClosed-MagUp-Nu | CertificationTest01                |            |        |
| ±   | ∃ 11      | Simulation       | Accepted      | 2b       | Certification_MC_Test_Ignore   | Beam3500GeV-VeloClosed-MagUp-Nu | CertificationTest01                |            |        |
| ±   | - 10      | Simulation       | Active        | 2b       | (certification) MC Standard 30 | Beam450GeV-VeloClosed15mm-MagDe | 2009-Sim06Reco04-withTruth         | 3000000    |        |
| ±   | 9         | Reconstruction   | Accepted      | 2b       | For testing Reconstruction on  | Beam4000GeV-MagOff              | Reco01-Brunel-v34r7-Online-Test    | 90000000   |        |
| ±   | - 8       | Reconstruction   | New           | 2b       | For testing Reconstruction on  | Beam450GeV-Mag-100%             | Reco01-Brunel-v34r7-Online-Test    | 3000000    |        |
| ±   | 6         | Reconstruction   | Accepted      | 2b       | For testing Reconstruction on  | ALL                             | Reco01-Brunel-v34r7-Online-Test    | 3000000    |        |
| ±   | - 5       | Reconstruction   | Submitted     | 2b       | For testing Reconstruction on  | ALL                             | Reco01                             | 3000000    |        |
| ±   | - 4       | Reconstruction   | Submitted     | 2b       | For testing Reconstruction on  | ALL                             | Reco01                             | 30000000   |        |
| ±   | - 3       | Reconstruction   | Submitted     | 2b       | For testing Reconstruction on  | ALL                             | Reco01                             | 3000000    |        |
| ±   | 2         | Simulation       | Active        | 2b       | MC Standard 30000000 10 ev     | Beam5TeV-VeloClosed-MagDown-Nu1 | MC09-Sim06Reco02-withoutTruth      | 3000000    |        |
| Ð   | 1         | Simulation       | Done          | 2b       | MC Standard 30000000 10 ev     | Beam5TeV-VeloClosed-MagDown-Nu1 | MC09-Sim06Reco02-withoutTruth      | 30000000   |        |

Click on the production which is defined label "template for certification" (nb = 28) and in the menu which appears select **Duplicate** 

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|-----|-------------|--------|---------------|-------------|----------|--------------------------------|----------------------------------|------------------------------------|------------|--------|
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| / R | equests / 1 |        |               |             |          |                                |                                  |                                    |            |        |
|     | ld 🔻        | Туре   |               | State       | Priority | Name                           | Sim/Run conditions               | Proc. pass                         | Event type | Events |
| ±   | 18          | Sim    |               | 10          | 2b       | Template for certification     | Beam3500GeV-VeloClosed-MagDown-I | 2010-Sim08Trig0x002a002aReco07-wit | 12143001   |        |
| ±   | - 17        | Sim    | Request       | 18          | 2b       | Template for certification     | Beam3500GeV-VeloClosed-MagDown-I | 2010-Sim08Trig0x002a002aReco07-wit | 12143001   |        |
| Ð   | <b>⊞</b> 14 | Sim    | View          |             | 2b       | Certification_MC_Test_Ignore   | Beam3500GeV-VeloClosed-MagUp-Nu  | CertificationTest01                |            |        |
| ±   | <b>⊞</b> 11 | Sim    | Windowed view |             | 2b       | Certification_MC_Test_Ignore   | Beam3500GeV-VeloClosed-MagUp-Nu* | CertificationTest01                |            |        |
| ±   | 10          | Sim    | History       |             | 2b       | (certification) MC Standard 30 | Beam450GeV-VeloClosed15mm-MagDe  | 2009-Sim06Reco04-withTruth         | 30000000   |        |
| ±   | 9           | Rec    | history       |             | 2b       | For testing Reconstruction on  | Beam4000GeV-MagOff               | Reco01-Brunel-v34r7-Online-Test    | 90000000   |        |
| ±   | - 8         | Rec    | Duplicate     | e           | 2b       | For testing Reconstruction on  | Beam450GeV-Mag-100%              | Reco01-Brunel-v34r7-Online-Test    | 30000000   |        |
| ±   | 6           | Rec    | Productio     |             | 2b       | For testing Reconstruction on  | ALL                              | Reco01-Brunel-v34r7-Online-Test    | 30000000   |        |
| ±   | - 5         | Rec    |               |             | 2b       | For testing Reconstruction on  | ALL                              | Reco01                             | 30000000   |        |
| ±   | - 4         | Rec    | Productio     | on monitor  | 2b       | For testing Reconstruction on  | ALL                              | Reco01                             | 30000000   |        |
| Ð   | - 3         | Recons | struction     | Submitted   | 2b       | For testing Reconstruction on  | ALL                              | Reco01                             | 3000000    |        |
| Ð   | 2           | Simula | tion          | Active      | 2b       | MC Standard 30000000 10 ev     | Beam5TeV-VeloClosed-MagDown-Nu1  | MC09-Sim06Reco02-withoutTruth      | 3000000    |        |
| ±   | 1           | Simula | tion          | Done        | 2b       | MC Standard 30000000 10 ev     | Beam5TeV-VeloClosed-MagDown-Nu1  | MC09-Sim06Reco02-withoutTruth      | 3000000    |        |

You are ask if you want to **Clear the processing pass in the copy**. Select **No**. This will keep all the steps which are pre-defined.

| js       Systems*       Jobs*       Production*       Data*       View*       Web*       Help         Selected setup:       LHCb-Cartification         Registered Production Requests         If a Simulation Accepted 2b       Template for certification       Bana350064V-VeloClosed-MagDown-1201-Sim08Trig0:X002a002aReco7velt       Lit43001       100       O         B 18       Simulation Accepted 2b       Template for certification       Bana350064V-VeloClosed-MagDown-1201-Sim08Trig0:X002a002aReco7velt       Lit43001       100       O         B 18       Simulation Accepted 2b       Certification_MC_Test_Ignore       Beam350064V-VeloClosed-MagDown-1201-Sim08Trig0:X002a002aReco7velt       Lit43001       100       O         B 11       Simulation Accepted 2b       Certification Testo1       20.000       0       O         Friendly       Certification Testo1       20.000       0       O         Simulation       Accepted 2b       For testing Reconstruction or Carlie       Certification Testo       Simulati   | Register | Jobs • Production • |               |           | co ceraneadon/meb_ase          | er/Production/ProductionRequest/ | lisplay#  | ☆ <b>~</b> C          | U *        |                  | Q 🔒                |              | Réagir       |
|---|----------|---------------------|---------------|-----------|--------------------------------|----------------------------------|-----------|-----------------------|------------|------------------|--------------------|--------------|--------------|
| I Requests / 18       Type       State       Priority       Name       Sim/Run conditions       Proc. pass       Event type       Events requested       Events in BK       Progress         II       III       Simulation       Accepted       2b       Template for certification       Beam3500GeV-VeloClosed-MagDown-I       2010-Sim08Trig0x002a02aReco07-wit       12143001       100       0         III       Simulation       RK Check       2b       Template for certification       Beam3500GeV-VeloClosed-MagDown-I       2010-Sim08Trig0x002a02aReco07-wit       12143001       100       0         III       Simulation       New       2b       Certification_MC_Test_Ignore       Beam3500GeV-VeloClosed-MagUp-Nu:       CertificationTest01       20.000       0       0         III       Simulation       Accepted       2b       Certification/MC_Test_Ignore       Beam3500GeV-VeloClosed-MagUp-Nu:       CertificationTest01       20.000       0       0         III       Simulation       Accepted       2b       Certification/MC_Test_Ignore       Beam3500GeV-VeloClosed-MagUp-Nu:       CertificationTest01       20.000       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0  |          |                     | ▼ Data ▼ Viev | v 🔻 Web 🔻 | Help                           |                                  |           |                       |            | Sel              | ected setup: LHCb- | Certificatio | n <b>- (</b> |
| Idequests / 18         Idequests / 18        Idequests / 18       Priority       Name       Sim/Run conditions       Proc. pass       Event type       Events requested       Events nBK       Program         Idequests / 18       Rinulation       Accepted       2b       Template for certification       Beam3500GeV-VeloClosed-MagDu-Nu CertificationTest01       20.000       0         Idequests / 18       Instantion       Accepted       2b       Certification/MC_motestand   |          | ed Production Reque | sts           |           |                                |                                  |           |                       |            |                  |                    |              |              |
| Id       Type       State       Priority       Name       Sim/Run conditions       Proc. pass       Event type       Events requested       Events in BK       Progress         Id       18       Simulation       Accepted       2b       Template for certification       Beam3500GeV-VeloClosed-MagDown-I       2010-Sim08Trig0x002a002aReco07-wit       12143001       100       0       0         Id       17       Simulation       BK Check       2b       Template for certification       Beam3500GeV-VeloClosed-MagDown-I       2010-Sim08Trig0x002a002aReco07-wit       12143001       100         |          |                     |               |           |                                |                                  |           |                       |            |                  |                    |              |              |
| Image: Simulation       Accepted       2b       Template for certification       Beam3500GeV-VeloClosed-MagDown-I       2010-Sim08Trig0x002a02aRecor7-wit       12143011       100       0         Image:  |          |                     | State         | Priority  | Nama                           | Sim/Run conditions               | Proc nace |                       | Event tune | Events requested | Events in BK       | Progra       | 00 (%)       |
| Inf       Simulation       BK Check       2b       Template for certification       Beam3500GeV-VeloClosed-MagDown-1 2010-Sim08Trig0x002a002aReco07-wit 12143001       100       0         Image: Information of the state of t  |          |                     |               |           |                                |                                  |           | ia0v002a002aReco07.wi |            |                  |                    | Flogie       | \$3 (70)     |
| a       14       Simulation       New       2b       Certification_MC_Test_Ignore       Beam3500GeV-VeloClosed-MagUp-Nu' CertificationTest01       20,000       0         a       11       Simulation       Accepted       2b       Certification_MC_Test_Ignore       Beam3500GeV-VeloClosed-MagUp-Nu' CertificationTest01       20,000       0         a       10       Simulation       Accepted       2b       Certification_MC_Test_Ignore       Beam3500GeV-VeloClosed-MagUp-Nu' CertificationTest01       20,000       0         a       9       Reconstruction       Accepted       2b       Certification_MC_Test_Ignore       Beam3500GeV-VeloClosed-MagUp-Nu' CertificationTest01       20,000       0         a       9       Reconstruction       Accepted       2b       For testing Reconstruction of Certification_MC_Test_Ignore       Part Antipacter of Velocities and Fore of Velocities an   |          |                     |               |           |                                |                                  |           |                       |            |                  |                    |              |              |
| a       11       Simulation       Accepted       2b       Certification MC_Test_Ignore       Beam3500GeV-VeloClosed-MagUp-Nu: CertificationTest10       20.000       0         a       10       Simulation       Active       2b       Certification MC_Test_Ignore       Beam3500GeV-VeloClosed-MagUp-Nu: CertificationTest10       3000000       1,000,000       36,545,778         a       9       Reconstruction       Accepted       2b       For testing Reconstruction of test Ignore       Processing pass in the copy of test Ignore       v34/r-Online-Test       3000000       0       0         a       6       Reconstruction       New       2b       For testing Reconstruction of test Ignore       Processing pass in the copy of test Ignore       v34/r-Online-Test       3000000       0       0         a       6       Reconstruction       Submitted       2b       For testing Reconstruction of test Ignore       No       Cancel       30000000       0       0         a       3<       Reconstruction       Submitted       2b       For testing Reconstruction of ALL       Reconf       30000000       0       0         a       3       Reconstruction       Submitted       2b       For testing Reconstruction of ALL       Recol       30000000       0       0   |          |                     |               |           |                                |                                  |           | -                     | 12143001   |                  |                    |              |              |
| a       10       Simulation       Active       2b       (certification) MC Standard 3: Beam450(Gel/Lyle/closed15mm, MacD. 2008.Sim06B.cool4-with Truth       30000000       1,000,000       36,545,778         a       9       Reconstruction       Accepted       2b       For testing Reconstruction of Quer/Lyle/closed15mm, MacD. 2008.Sim06B.cool4-with Truth       30000000       0       0         a       8       Reconstruction       New       2b       For testing Reconstruction of Quer/Lyle/closed15mm, MacD. 2008.Sim06B.cool4-with Truth       30000000       0       0         a       6       Reconstruction       New       2b       For testing Reconstruction of Closed15mm, MacD. 2008.Sim06B.cool4-with Truth       30000000       0       0         a       6       Reconstruction       Submitted       2b       For testing Reconstruction of Closed15mm, MacD. 2008.Sim06B.cool4-with Truth       30000000       0       0         a       4       Reconstruction       Submitted       2b       For testing Reconstruction of ALL       Recol1       30000000       0       0         a       3       Reconstruction       Submitted       2b       For testing Reconstruction of ALL       Recol1       30000000       0       0         a       3       Reconstruction       Submitted  |          |                     |               |           |                                |                                  |           |                       |            |                  | -                  |              |              |
| Image: Seconstruction       Accepted       2b       For testing Reconstruction       Puestion       Puestion <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>30000000</td><td></td><td></td><td></td><td>36</td></t<>  |          |                     |               |           |                                |                                  |           |                       | 30000000   |                  |                    |              | 36           |
| Image: Construction     New     2b     For testing Reconstruction on ALL     Clear the processing pass in the copy of the struction of the processing pass in the copy of the |          |                     |               |           |                                |                                  |           |                       |            |                  |                    |              | 50           |
| B       6       Reconstruction       Accepted       2b       For testing Reconstruction of<br>Yes       Yes       No       Cancel       3000000       0       0         0       4       Reconstruction       Submitted       2b       For testing Reconstruction of<br>Yes       Submitted       30000000       0       0       0         0       4       Reconstruction       Submitted       2b       For testing Reconstruction on<br>ALL       Recol       30000000       0       0       0         0       2       Simulation       Active       2b       MC Standard 30000000 10 ex       Beam5TeV-VeloClosed-MagDown-Nu1       MC09-Sim06Reco02-withoutTruth       30000000       1,000,000       0  |          |                     |               |           | T of tooting reconstruction of |                                  |           |                       |            |                  |                    |              |              |
| a       5       Reconstruction       Submitted       2b       For testing Reconstruction or Ves       No       Cancel       30000000       0       0         a       4       Reconstruction       Submitted       2b       For testing Reconstruction or ALL       Recont       30000000       0       0       0         a       3       Reconstruction       Submitted       2b       For testing Reconstruction on ALL       Recol       30000000       0       0         a       2       Simulation       Active       2b       MC Standard 30000000 10 er       Beam5TeV-VeloClosed-MagDown-Nu1       MC09-Sim06Reco02-withoutTruth       30000000       1,000,000       0  |          |                     |               |           |                                | <b></b>                          |           |                       |            | -                |                    |              |              |
| a       Reconstruction       Submitted       2b       For testing Reconstruction or ALL       Reconstruction       3000000       0       0         a       -3       Reconstruction       Submitted       2b       For testing Reconstruction on ALL       Reconstruction       30000000       0       0         a       -3       Reconstruction       Submitted       2b       For testing Reconstruction on ALL       Reconstruction       30000000       0       0         a       -2       Simulation       Active       2b       MC Standard 3000000010 en BeamSTeV-VeloClosed-MagDown-Nu1       MC09-Sim06Reco02-withoutTruth       30000000       1,000,000       0   | -        |                     |               |           |                                |                                  | Cancel    |                       |            | 0                |                    |              |              |
| Image: Second struction       Submitted       2b       For testing Reconstruction on ALL       Reco01       30000000       0       0         Image: Second struction       Active       2b       Kostandard 30000000 (low Beam5TeV-VeloClosed-MagDown-Nut)       MC09-Sim06Recc02-withoutTruth       30000000       1,000,000       0   | -        |                     |               |           |                                |                                  | Reco01    |                       |            |                  |                    |              |              |
| B     -2     Simulation     Active     2b     MC Standard 30000000 10 ex Beam5TeV-VeloClosed-MagDown-Nu1     MC09-Sim06Recc02-withoutTruth     30000000     1,000,000     0   |          |                     |               |           |                                |                                  | Reco01    | *                     |            | 0                |                    |              |              |
| •   |          |                     |               |           |                                |                                  |           | Reco02-withoutTruth   |            | 1.000.000        |                    |              |              |
|   |          |                     |               |           |                                |                                  |           |                       |            |                  | 0                  |              |              |
|   |          |                     |               |           |                                |                                  |           |                       |            |                  |                    |              |              |

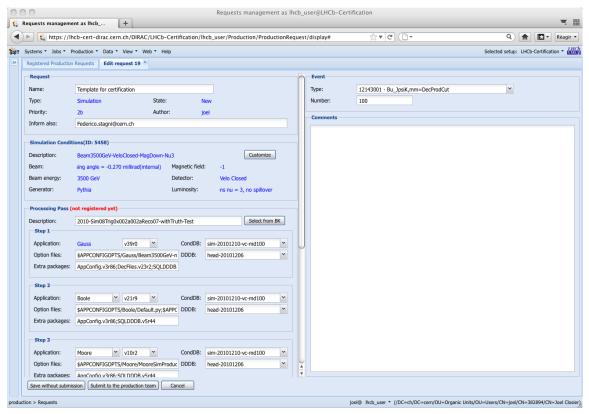
| egistered Produce<br>equests / 18 | e State          |           | r Help                         |             |                      |                   |                          |            | Sel              | ected setup: LHCb- | Certification 🔻 ┟ |
|-----------------------------------|------------------|-----------|--------------------------------|-------------|----------------------|-------------------|--------------------------|------------|------------------|--------------------|-------------------|
| equests / 18                      | e State          | Dist      |                                |             |                      |                   |                          |            |                  |                    |                   |
| Id - Type                         |                  | Drivity   |                                |             |                      |                   |                          |            |                  |                    |                   |
|                                   |                  | Deineite  |                                |             |                      |                   |                          |            |                  |                    |                   |
| 19 Simu                           |                  | Priority  | Name                           | Sim/Run con | ditions              | Proc. pass        |                          | Event type | Events requested | Events in BK       | Progress (%)      |
|                                   | ulation New      | 2b        | Template for certification     | Beam3500Ge  | V-VeloClosed-MagDowr | -I 2010-Sim08T    | Trig0x002a002aReco07-wit | 12143001   | 100              | 0                  |                   |
| - 18 Simu                         | ulation Acce     | pted 2b   | Template for certification     | Beam3500Ge  | V-VeloClosed-MagDowr | -I 2010-Sim08T    | Trig0x002a002aReco07-wit | 12143001   | 100              | 0                  |                   |
| 17 Simu                           | ulation BK C     | heck 2b   | Template for certification     | Beam3500Ge  | V-VeloClosed-MagDowr | -I 2010-Sim08T    | Trig0x002a002aReco07-wit | 12143001   | 100              | 0                  |                   |
| 🛨 14 Simu                         | ulation New      | 2b        | Certification_MC_Test_Ignore   | Beam3500Ge  | V-VeloClosed-MagUp-N | u' CertificationT | Test01                   |            | 20,000           | 0                  |                   |
| 🗄 11 Simu                         | ulation Acce     | pted 2b   | Certification_MC_Test_Ignore   | Beam3500Ge  | V-VeloClosed-MagUp-N | u' CertificationT | Test01                   |            | 20,000           | 0                  |                   |
| 10 Simu                           | ulation Activ    | e 2b      | (certification) MC Standard 30 | Beam450Ge   | /-VeloClosed15mm-Mag | D: 2009-Sim06F    | Reco04-withTruth         | 30000000   | 1,000,000        | 36,545,778         | 36                |
| 9 Rec                             | onstruction Acce | pted 2b   | For testing Reconstruction on  | Beam4000G   | V-MagOff             | Reco01-Brun       | nel-v34r7-Online-Test    | 90000000   | 0                | 0                  |                   |
| 8 Rec                             | onstruction New  | 2b        | For testing Reconstruction on  | Beam450Ge   | /-Mag-100%           | Reco01-Brun       | nel-v34r7-Online-Test    | 30000000   | 0                | 0                  |                   |
| 6 Rec                             | onstruction Acce | pted 2b   | For testing Reconstruction on  | ALL         | Request was succes   | sfully 🗵 run      | nel-v34r7-Online-Test    | 30000000   | 0                | 0                  |                   |
| 5 Rec                             | onstruction Subr | nitted 2b | For testing Reconstruction on  | ALL         | duplicated           | Reco01            |                          | 30000000   | 0                | 0                  |                   |
| 4 Rec                             | onstruction Subr | mitted 2b | For testing Reconstruction on  | ALL         | New Reque            | st ID: 19         |                          | 30000000   | 0                | 0                  |                   |
| 3 Reco                            | onstruction Subr | mitted 2b | For testing Reconstruction on  | ALL         | $\checkmark$         |                   |                          | 30000000   | 0                | 0                  |                   |
| 2 Simu                            | ulation Activ    | e 2b      | MC Standard 30000000 10 ev     | Beam5TeV-V  | oloClosed OK         | MC09-Sin06        | Reco02-withoutTruth      | 30000000   | 1,000,000        | 0                  |                   |
| 1 Simu                            | ulation Done     | e 2b      | MC Standard 30000000 10 ev     | Beam5TeV-V  | eloClosed-MagDown-Nu | MC09-Sin06        | Reco02-withoutTruth      | 30000000   | 1,000,000        | 0                  |                   |

#### The new request is created and you get a number that will appear in the web page.

#### Click on the new request that you just created the step below and select the edit option

| lation New<br>lation Accepted<br>lation BK Check<br>lation New | 2b<br>2b<br>2b   | Template for certification   | Beam<br>B  | 3500GeV-VeloClosed   |  | 2010-Sim08Trig0x002a002aReco07-wit  | 12143001   | 100   | 0  |   |
|--|--|--|--|--|--|---|--|---|--|---|
| lation BK Check  |  |  | в  | Request 19   | An David L   |   |  |   |  |   |
|  | 2b   |  | _  |  | MagDown-I  | 2010-Sim08Trig0x002a002aReco07-wit  | 12143001   | 100   | 0  |   |
| ation New  |  | Template for certification   | В  |  | MagDown-I  | 2010-Sim08Trig0x002a002aReco07-wit  | 12143001   | 100   | 0  |   |
|  | 2b   | Certification_MC_Test_Ignore   | в  | View   | /agUp-Nu*  | CertificationTest01   |  | 20,000  | 0  |   |
| lation Accepted  | 2b   | Certification_MC_Test_Ignore   | в  | Windowed view  | MagUp-Nu*  | CertificationTest01   |  | 20,000  | 0  |   |
| lation Active  | 2b   | (certification) MC Standard 30   | В  | History  | mm-MagD  | 2009-Sim06Reco04-withTruth  | 3000000  | 1,000,000   | 36,545,778   | ;   |
| nstruction Accepted  | 2b   | For testing Reconstruction on  | в  | Edit   |  | Reco01-Brunel-v34r7-Online-Test   | 90000000   | 0   | 0  |   |
| nstruction New   | 2b   | For testing Reconstruction on  | В  |  |  | Reco01-Brunel-v34r7-Online-Test   | 30000000   | 0   | 0  |   |
| nstruction Accepted  | 2b   | For testing Reconstruction on  | A  | Duplicate  |  | Reco01-Brunel-v34r7-Online-Test   | 30000000   | 0   | 0  |   |
| nstruction Submittee   | 2b   | For testing Reconstruction on  | A  | Delete   |  | Reco01  | 30000000   | 0   | 0  |   |
| nstruction Submittee   | 2b   | For testing Reconstruction on  | A  | Add subrequest   |  | Reco01  | 3000000  | 0   | 0  |   |
| nstruction Submittee   | 2b   | For testing Reconstruction on  | ALL  |  |  | Reco01  | 3000000  | 0   | 0  |   |
| lation Active  | 2b   | MC Standard 30000000 10 ev   | Beam   | 5TeV-VeloClosed-Mag  | Down-Nu1   | MC09-Sim06Reco02-withoutTruth   | 3000000  | 1,000,000   | 0  |   |
| lation Done  | 2b   | MC Standard 30000000 10 ev   | Beam   | 5TeV-VeloClosed-Mag  | Down-Nu1   | MC09-Sim06Reco02-withoutTruth   | 3000000  | 1,000,000   | 0  |   |
| n<br>n<br>n  | struction Accepted<br>struction New<br>struction Accepted<br>struction Submitted<br>struction Submitted<br>struction Submitted | Accepted         2b           struction         New         2b           struction         Accepted         2b           struction         Submitted         2b | struction         Accepted         2b         For testing Reconstruction on<br>struction           New         2b         For testing Reconstruction on<br>struction           Accepted         2b         For testing Reconstruction on<br>struction           Submitted         2b         For testing Reconstruction on<br>struction           Active         2b         MC Standard 300000010 ex | struction         Accepted         2b         For testing Reconstruction on B           struction         New         2b         For testing Reconstruction on B           struction         Accepted         2b         For testing Reconstruction on A           struction         Submitted         2b         For testing Reconstruction on A           tion         Active         2b         MC Standard 30000000 10 ev | Netro         2b         For testing Reconstruction on B         Edit           struction         New         2b         For testing Reconstruction on B         Duplicate           struction         Accepted         2b         For testing Reconstruction on A         Duplicate           struction         Submitted         2b         For testing Reconstruction on A         Delete           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest           struction         Active         2b         MC Standard 30000000 10 e         BeamSTeV-VeloClosed-Mag | Accepted         2b         For testing Reconstruction on B         Edit           struction         New         2b         For testing Reconstruction on B         Edit           struction         Accepted         2b         For testing Reconstruction on A         Duplicate           struction         Submitted         2b         For testing Reconstruction on A         Delete           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest           struction         Submitted         2b         For testing Reconstruction on ALL         L           tion         Active         2b         MC Standard 30000000 10 ex         Beam5TeV-VeloClosed-MagDown-Nu1 | Accepted         2b         For testing Reconstruction on B         Edit         Reco01-Brunel-v34r7-Online-Test           struction         New         2b         For testing Reconstruction on B         Duplicate         Duplicate         Reco01-Brunel-v34r7-Online-Test           struction         Submitted         2b         For testing Reconstruction on A         Duplicate         Reco01-Brunel-v34r7-Online-Test           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest         Reco01           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest         Reco01           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest         Reco01           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest         Reco01           tition         Active         2b         MC Standard 30000000 10 ex         Beam5TeV-VeloClosed-MagDown-Nu1         MC09-Sim06Reco02-withoutTruth | Accepted         2b         For testing Reconstruction on B         Edit         Reco01-Brunel-v34r7-Online-Test         90000000           struction         New         2b         For testing Reconstruction on B         Duplicate         Reco01-Brunel-v34r7-Online-Test         3000000           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest         Reco01-Brunel-v34r7-Online-Test         3000000           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest         Reco01         3000000           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest         Reco01         3000000           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest         Reco01         3000000           struction         Active         2b         MC Standard 30000000 10 ex         Beam5TeV-VeloClosed-MagDown-Nu1         MC09-Sim06Reco02-withoutTruth         30000000 | New         2b         For testing Reconstruction on B         Edit         Reco01-Brunel-v34r7-Online-Test         9000000         0           struction         New         2b         For testing Reconstruction on B         Edit         Reco01-Brunel-v34r7-Online-Test         9000000         0           struction         New         2b         For testing Reconstruction on A         Duplicate         Reco01-Brunel-v34r7-Online-Test         30000000         0           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest         Reco01         30000000         0           struction         Submitted         2b         For testing Reconstruction on A         Add subrequest         Reco01         30000000         0           struction         Submitted         2b         For testing Reconstruction on ALL         Add subrequest         Reco01         30000000         0           tion         Active         2b         MC Standard 30000000 10 ex         BeamSTeV-VeloClosed-MagDown-Nu1         MC09-Sim06Reco02-withoutTruth         30000000         1,000,000 | Name     Description     Accepted     2b     For testing Reconstruction on B     Edit     Reco01-Brunel-v34r7-Online-Test     3000000     0     0       struction     New     2b     For testing Reconstruction on B     Duplicate     Duplicate     Reco01-Brunel-v34r7-Online-Test     30000000     0     0       struction     Submitted     2b     For testing Reconstruction on A     Duplicate     Reco01-Brunel-v34r7-Online-Test     30000000     0     0       struction     Submitted     2b     For testing Reconstruction on A     Add subrequest     Reco01     30000000     0     0       struction     Submitted     2b     For testing Reconstruction on A     Add subrequest     Reco01     30000000     0     0       struction     Submitted     2b     For testing Reconstruction on A     Add subrequest     Reco01     30000000     0     0       struction     Active     2b     MC Standard 30000000 10 ex     BeamSTeV-VeloClosed-MagDown-Nut     MC09-Sim06Reco02-withoutTruth     30000000     1,000,000     0 |

Then modify all the fields which needs a new value. Once you have finished, submit your request to the production team.



You have just to approve it.

| _ meps.//m   | cb-cert-dirac.cern.ch/DIR   | AC/LHCb-Certificati  | ion/lhcb_user/Production/Pro   | oductionRequest/dis     | olay#        | ☆ ▼ C ( ) ▼                      |             | ۹ 🔒                   |
|--|---|--|--|-------------------------|--------------|----------------------------------|-------------|-----------------------|
| stems 🔻 Jobs 🔻 P   | Production 🔻 Data 🔻 View 🔻  | Web 🔻 Help   |  |                         |              |                                  |             | Selected setup: LHCb- |
| egistered Production   | Requests Edit request 19  |  |  |                         |              |                                  |             |                       |
| Request  |   |  |  | Ev                      | ent          |                                  |             |                       |
| Name:  | Template for certification  |  |  | Тур                     | e:           | 12143001 - Bu_JpsiK,mm           | =DecProdCut | ~                     |
| Type:  | Simulation  | State:   | New  | Nu                      | mber:        | 100                              |             |                       |
| Priority:  | 2b  | Author:  | joel   |                         |              |                                  |             |                       |
| Inform also:   | Federico.stagni@cern.ch   |  |  |                         | mments       |                                  |             |                       |
| Simulation Condit  | ions(ID: 5458)  |  |  |                         |              |                                  |             |                       |
| Description:   | Beam3500GeV-VeloClosed-   | -MagDown-Nu3   | Custom   | ize                     |              |                                  |             |                       |
| Beam:  | sing angle = -0.270 millirad  |  |  |                         |              |                                  |             |                       |
| Beam energy:   |   |  |  |                         |              |                                  |             |                       |
|  | 3500 GeV  | Detector   | Velo Closed  |                         |              |                                  |             |                       |
| Generator:   | 3500 GeV<br>Pythia<br>not registered yet)<br>2010-Sim08Trig0x002a002  | Detector<br>Luminos<br>Submit<br>aReco07-wi ?  |  |                         | o longer car | N modify it after that. Proceed? | 3           |                       |
| Generator:<br>Processing Pass (1   | Pythia  | Luminos  | ity: ns nu = 3, no spillo<br>You are about to submit the re  |                         | o longer car |                                  | 3           |                       |
| Generator:<br>Processing Pass (r<br>Description:<br>Step 1   | Pythia<br>not registered yet)<br>2010-Sim08Trig0x002a002  | Luminos  | ity: ns nu = 3, no spillo<br>You are about to submit the re  | quest. Note, that you r | o longer car |                                  | g           |                       |
| Generator:<br>Processing Pass (1<br>Description:<br>Step 1<br>Application:   | Pythia<br>not registered yet)<br>2010-Sim08Trig0x002a002<br>Gauss v39r0   | Luminos  | ity: ns nu = 3, no spillo<br>You are about to submit the re  | quest. Note, that you r | o longer car |                                  | C           |                       |
| Generator:<br>Processing Pass (r<br>Description:<br>Step 1<br>Application:<br>Option files:<br>Extra packages:   | Pythia<br>not registered yet)<br>2010-Sim08Trig0x002a002<br>Gauss v39r0<br>\$APPCONFIGOPTS/Gauss/t  | Luminos  | ity: ns nu = 3, no spillo<br>You are about to submit the re  | quest. Note, that you r | o longer car |                                  |             |                       |
| Generator:<br>Processing Pass (r<br>Description:<br>Step 1<br>Application:<br>Option files:<br>Extra packages:<br>Step 2   | Pythia<br>not registered yet)<br>2010-Sim08Trig0x002a002<br>Gauss v39r0<br>\$APPCONFIGOPTS/Gauss/f<br>AppConfig.v3r86;DecFiles.v  | Luminos  | ity: ns nu = 3, no spillo<br>You are about to submit the re<br>IDB: sim-20101210-ve-md11<br>B: head-20101206                               | quest. Note, that you r | o longer car |                                  | 3           |                       |
| Generator:<br>Processing Pass (1)<br>Description:<br>Step 1<br>Application:<br>Option files:<br>Extra packages:<br>Step 2<br>Application:  | Pythia<br>not registered yet)<br>2010-Sim08Trig0x002a002<br>Gauss v39r0<br>\$APPCONFIGOPTS/Gauss//<br>AppConfig.v3r86;DecFiles.v<br>Boole v v21r9   | Luminos  | ity: ns nu = 3, no spillo<br>You are about to submit the re<br>IDB: sim-20101210-vc-md10<br>B: head-20101206                               | quest. Note, that you r | o longer car |                                  | g           |                       |
| Generator:<br>Processing Pass (r<br>Description:<br>Step 1<br>Application:<br>Option files:<br>Extra packages:<br>Step 2   | Pythia<br>not registered yet)<br>2010-Sim08Trig0x002a002<br>Gauss v39r0<br>\$APPCONFIGOPTS/Gauss/f<br>AppConfig.v3r86;DecFiles.v  | Luminos  | ity: ns nu = 3, no spillo<br>You are about to submit the re<br>IDB: sim-20101210-vc-md10<br>B: head-20101206                               | quest. Note, that you r | o longer car |                                  |             |                       |
| Generator:<br>Processing Pass (r<br>Description:<br>Step 1<br>Application:<br>Option files:<br>Extra packages:<br>Step 2<br>Application:<br>Option files:                              | Pythia<br>not registered yet)<br>2010-Sim08Trig0x002a002<br>Gauss v39r0<br>\$APPCONFIGOPTS/Gauss//<br>AppConfig.v3r86;DecFiles.v<br>Boole v21r9<br>\$APPCONFIGOPTS/Boole/D                            | Luminos  | ity: ns nu = 3, no spillo<br>You are about to submit the re<br>IDB: sim-20101210-vc-md10<br>B: head-20101206                               | quest. Note, that you r | o longer car |                                  | S           |                       |
| Generator:<br>Processing Pass (r<br>Description:<br>Step 1<br>Application:<br>Option files:<br>Extra packages:<br>Step 2<br>Application:<br>Option files:<br>Extra packages:           | Pythia<br>not registered yet)<br>2010-Sim08Trig0x002a002<br>Gauss v39r0<br>\$APPCONFIGOPTS/Gauss//<br>AppConfig.v3r86;DecFiles.v<br>Boole v21r9<br>\$APPCONFIGOPTS/Boole/D                            | Luminos  | ity: ns nu = 3, no spillo<br>You are about to submit the re<br>IDB: isim-20101210-vc-md10<br>B: head-20101210-vc-md100<br>B: head-20101206 | quest. Note, that you r | o longer car |                                  |             |                       |
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Now you should change your role to become **lhcb\_tech** and **lhcb\_ppg** to validate the request. You click on the new request and in the menu you choose the option *sign* 

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1<br>4 ▼<br>19<br>- 18<br>- 17<br>3 14<br>3 11<br>- 10<br>- 9<br>- 8<br>- 6<br>- 5<br>- 4<br>- 3<br>- 2 | bs * Production * Production Reque Type Simulation Simulation Simulation Simulation Reconstruction Reconstruction Reconstruction Reconstruction Reconstruction Reconstruction Reconstruction Simulation  | Data * View *<br>sts<br>State<br>Submitted<br>Accepted<br>BK Check<br>New<br>Accepted<br>Submitted<br>Submitted<br>Submitted<br>Active | Web T He<br>Priority<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b | Name Template.for.certific Template.for.certific Temp Certi View Certi View Certi View Certi For t Sign For testing Recons For testing Recons For testing Recons KC Standard 3000 KC Standard 300 KC S | scation _ f<br>cation _ f<br>t 19<br>ved view<br>ved view<br>street<br>structic / / | Sim/Run 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| a       b       b       musics       Note:   |  | <ul> <li>14</li> <li>11</li> <li>10</li> <li>9</li> <li>8</li> <li>6</li> <li>5</li> <li>4</li> <li>3</li> <li>2</li> </ul>          | Simulation<br>Simulation<br>Simulation<br>Reconstruction<br>Reconstruction<br>Reconstruction<br>Reconstruction<br>Reconstruction<br>Simulation   | New<br>Accepted<br>Active<br>Accepted<br>New<br>Accepted<br>Submitted<br>Submitted<br>Active   | 2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b                         | Certit<br>Certit<br>Certit<br>Certit<br>For to<br>For to<br>For to<br>For testing Recons<br>For testing Recons<br>For testing Recons<br>For testing Recons   | te<br>structic /<br>structic /  | 4500GeV-VeloC<br>3500GeV-VeloC<br>450GeV-VeloC<br>4000GeV-MagC<br>450GeV-Mag-1  | Closed-MagUp-Nu<br>Closed-MagUp-Nu<br>losed15mm-MagDr<br>Off  | CertificationTest01<br>CertificationTest01<br>2009-Sim06Reco04-withTruth<br>Reco01-Brunel-v34r7-Online-Test<br>Reco01-Brunel-v34r7-Online-Test<br>Reco01-Brunel-v34r7-Online-Test   | 30000000<br>90000000   | 20,000<br>20,000<br>1,000,000<br>0                                    | 0<br>0<br>36,545,778                                     | 1                |
| a)         a)         a)   |  | <ul> <li>11</li> <li>10</li> <li>9</li> <li>8</li> <li>6</li> <li>5</li> <li>4</li> <li>3</li> <li>2</li> </ul>                      | Simulation<br>Simulation<br>Reconstruction<br>Reconstruction<br>Reconstruction<br>Reconstruction<br>Reconstruction<br>Simulation   | Accepted<br>Active<br>Accepted<br>New<br>Accepted<br>Submitted<br>Submitted<br>Submitted<br>Active                                     | 2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b                               | Certi Window<br>(certi History<br>For to Sign<br>For to Duplica<br>For testing Recons<br>For testing Recons<br>For testing Recons<br>MC Standard 3000  | te<br>structic /<br>structic /  | 450GeV-VeloC<br>450GeV-VeloC<br>4000GeV-Mag<br>450GeV-Mag-1<br>ALL  | Closed-MagUp-Nu<br>losed15mm-MagDi<br>Off   | CertificationTest01<br>2009-Sim06Reco04-withTruth<br>Reco01-Brunel-v34r7-Online-Test<br>Reco01-Brunel-v34r7-Online-Test<br>Reco01-Brunel-v34r7-Online-Test  | 90000000   | 20,000<br>1,000,000<br>0  | 0<br>36,545,778  |                  |
| a)       b)       Binution       Anim       a)       a)       b)       Binution       Anim       a)       b)       Binution       Anim       a)       b)       Binution       Anim       a)       b)       Binution       Binution<   |  | - 10<br>- 9<br>- 8<br>- 6<br>- 5<br>- 4<br>- 3<br>- 2  | Simulation<br>Reconstruction<br>Reconstruction<br>Reconstruction<br>Reconstruction<br>Reconstruction<br>Simulation   | Active<br>Accepted<br>New<br>Accepted<br>Submitted<br>Submitted<br>Submitted<br>Active   | 2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b                                     | (certi         History           For ti         Sign           For ti         Duplica           For testing Recons         For testing Recons           For testing Recons         MC Standard 3000  | structic /<br>structic /<br>structic /  | 450GeV-VeloCl<br>4000GeV-Mag0<br>450GeV-Mag-1<br>ALL  | losed15mm-MagDi<br>Off  | 2009-Sim06Reco04-withTruth<br>Reco01-Brunel-v34r7-Online-Test<br>Reco01-Brunel-v34r7-Online-Test<br>Reco01-Brunel-v34r7-Online-Test   | 90000000   | 1,000,000   | 36,545,778   |                  |
| 0        |  | 9<br>8<br>6<br>5<br>4<br>3<br>   | Reconstruction<br>Reconstruction<br>Reconstruction<br>Reconstruction<br>Reconstruction<br>Simulation   | Accepted<br>New<br>Accepted<br>Submitted<br>Submitted<br>Submitted<br>Active   | 2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b   | For te Sign<br>For te Duplica<br>For testing Recons<br>For testing Recons<br>For testing Recons<br>MC Standard 3000  | structic /<br>structic /<br>structic /  | 4000GeV-Mag0<br>450GeV-Mag-1<br>ALL   | Dff   | Reco01-Brunel-v34r7-Online-Test<br>Reco01-Brunel-v34r7-Online-Test<br>Reco01-Brunel-v34r7-Online-Test   | 90000000   | 0   |  |                  |
| a         b         Recentation         A         Conf.         Second Marce 1000         Recent Barrel 14-00 Conferme         MO000000         0         0           a         B         Recent Barrel 14-00 Conferme         MO000000         0         0         0           a         B         Recent Barrel 14-00 Conferme         MO000000         0         0         0           a         B         Recent Barrel 14-00 Conferme         MO000000            |  | 8<br>6<br>5<br>4<br>3  | Reconstruction<br>Reconstruction<br>Reconstruction<br>Reconstruction<br>Reconstruction<br>Simulation   | New<br>Accepted<br>Submitted<br>Submitted<br>Submitted<br>Active   | 2b<br>2b<br>2b<br>2b<br>2b<br>2b<br>2b   | For tearing reconst<br>For tearing reconst<br>For testing Recons<br>For testing Recons<br>For testing Recons<br>MC Standard 3000   | structic /<br>structic /<br>structic /  | 450GeV-Mag-1  |   | Reco01-Brunel-v34r7-Online-Test<br>Reco01-Brunel-v34r7-Online-Test  |  |   |  | 505              |
| <ul> <li></li></ul>  | •  | 5<br>4<br>3  | Reconstruction<br>Reconstruction<br>Reconstruction<br>Simulation   | Submitted<br>Submitted<br>Submitted<br>Active  | 2b<br>2b<br>2b<br>2b   | For testing Recons<br>For testing Recons<br>For testing Recons<br>For testing Recons<br>MC Standard 3000   | structic /<br>structic /<br>structic /  |   |   |   | 30000000   | 0   | 0  |                  |
| a       Roceta, Marinet       20       Promoting Recontract, ALL       Recoll       300000       0       0       0         a       2       Smallen       Arrow       20       Smallen       20       Smallen       20       Smallen       20       Smallen       20       Smallen       20       Small   | •  | 4<br>3<br>2  | Reconstruction<br>Reconstruction<br>Simulation   | Submitted<br>Submitted<br>Active   | 2b<br>2b<br>2b   | For testing Recons<br>For testing Recons<br>MC Standard 3000   | structic /  |   |   |   | 30000000   |   | 0  |                  |
| a       a       For starp Recorded ALL       Recol       300000       0       0         a       J       Smallen Adres       a       ME Starp Recorded 2000000       Beend 2000000       1000000       1000000       1000000       1000000       0       0         a       ME Starp Recorded 2000000       Beend 2000000       Beend 2000000       Beend 2000000       10000000       10000000       0 <t< td=""><td>•</td><td>3</td><td>Reconstruction<br/>Simulation</td><td>Submitted<br/>Active</td><td>2b<br/>2b</td><td>For testing Recons<br/>MC Standard 3000</td><td>structic /</td><td>ALL</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>  | •  | 3  | Reconstruction<br>Simulation   | Submitted<br>Active  | 2b<br>2b   | For testing Recons<br>MC Standard 3000   | structic /  | ALL   |   |   |  |   |  |                  |
| a       2       Smallen       Ache       a       MC Smalled 3000000       BeamSTMV-VelcCleese MagDown-Nut       MCD Smalled 3000000       1,000,000       0         b       1       Smallelin       Doe       a       MC Smalled 3000000       BeamSTMV-VelcCleese MagDown-Nut       MCD Smalled 3000000       1,000,000       0         b       Smallelin       Doe       a       MC Smalled 3000000       BeamSTMV-VelcCleese MagDown-Nut       MCD Smalled 3000000       1,000,000       0         b       Smallelin       Doe       a       MC Smalled 3000000       BeamSTMV-VelcCleese MagDown-Nut       MCD Smalled 3000000       1,000,000       0         b       Smallelin       MC Smalled 3000000       BeamSTMV-VelcCleese MagDown-Nut       MCD Smalled 3000000       BeamSTMV-VelcCleese MagDown-Nut       MCD Smallese 22-wBox/Truth       2000000       1,000,000       0         b       Truth       MC Smallese 300000       BeamSTMV-VelcCleese MagDown-Nut       MCD Smallese 3000000       BeamSTMV-VelcCleese MagDown-Nut       MCD Smallese 3000000       BeamSTMV-VelcCleese MagDown-Nut       MCD Smallese 3000000       MC Smallese 3000000   | •  | 2  | Simulation   | Active   | 2b   | MC Standard 3000   |   |   |   |   |  |   |  |                  |
| a)       1       Smalado       Doe       20       MC Samiard 2000000       Beam57bV/44c/Ceese4MagDown-Nut       MC095m00Rescc22whou/Tutuk       3000000       1,000,000       0         I       Image: Imag   |  |  |  |  |  |  |   |   | d MaaDawa Nod   |   |  |   |  |                  |
| Image: I         Participant State         Pa  |  |  |  | Conc   |  |  |   |   |   |   |  |   |  |                  |
| Image: System       Note: Current: All: All: Simulation       New       <  | tion >   | Request  | 3  |  | 1  |  | Req   | quests managem  | ient as lhcb_pp   |   | /DC=ch/DC=cert   | √OU=Organic Units/OU=U  |  | 82894/CN=Joel Cl |
| Systems v         Jobs v         Production v         View v         Web v         Hep-         Selected setup: LHC-Certification v           Selected setup: LHC-Certification Personal Solder/View Colsected MagDown-1 2010-Sim08Trigb002a002aRecod7-wt 12143001         Selected setup: LHC-Certification V           Mark         Type         State         Prointy         Name         Sim/Raino notification Beam S00GeV/View Colsected MagDown-1 2010-Sim08Trigb002a002aRecod7-wt 12143001         100         O           Mark         Type         State         Prointy         Name         Sim/Raino notification Selected Solder/View Colsected MagDown-1 2010-Sim08Trigb002a002aRecod7-wt 12143001         100         O           Mark         Type         State         Prointy         Records 100         Seed-MagDown-1 2010-Sim08Trigb002a002aRecod7-wt 12143001         100         O           Mark         Simulation         Records 100         Seed-MagDown-1 2010-Sim08Trigb002a002aRecod7-wt 12143001         100         O         Seed-MagDown-1 2010-Sim08Trigb002a0002aRecod7-wt 12143001         100   |  |  |  |  |  |  |   |   |   |   |  |   |  |                  |
| Register et Production Requests           Viral Simulation Requests           Viral Simulation Requests         Proc pass         Event type         Event type         Event type         Event type         Event type         Events requested         Events requested         Proc pass           Viral Simulation Tech OK         20         Template for certification Beam:5900GeV/VeloCCeeed-MagDown-12010-Sim08Trig0x002a002aRecod7-wit 12t43001         100         O           I 10 Simulation Neckecpted 2b         Template for certification MC Tes         Were pass-MagDown-1 2010-Sim08Trig0x002a002aRecod7-wit 12t43001         100         O           I 10 Simulation Neckecpted 2b         Certification MC Tes         Windowd view paed-MagDown-1 2010-Sim08Trig0x002a002aRecod7-wit 12t43001         100         O           I 10 Simulation Accepted 2b         Certification MC Tes         Sim Record Proc Pass         Sim Record Proc Pass         Sim Record Proc Pass         View Pase Pass Pass Pass Pass Pass Pass Pass   |  | 🐛 ht   | tps://lhcb-cert-c  | dirac.cern.ch/DI   | RAC/LHCb-  | -Certification/Ihcl  | b_ppg/  | Production/Produ  | ictionRequest/d   | isplay# ☆▼ C  | ( <u></u>  |   | ۹) 🖈   | Réagi            |
| New Unit of the Construction         State         Priority         Name         Sim/Run conditions         Proc. pass         Event type         Events requested         Events in BK         Progress (%)           I         19         Simulation         Tach OK         2b         Template for certification         Beam350(324/VeloClosed-MagDown-1 2010-Sim0817ig0:002200220RecorD+wt 12143001         100         0           I         19         Simulation         BK Check         2b         Template for certification         Records119         paed-MagDown-1 2010-Sim0817ig0:002200220RecorD+wt 12143001         100         0         0           III         Simulation         New         2b         Certification_MC_Tes         Windowed view         Peed-MagDown-1 2010-Sim0817ig0:00200220RecorD+wt 12143001         100         0         0           III         Simulation         New         2b         Certification_MC_Tes         Windowed view         Peed-MagDown-1 2010-Sim0817ig0:0002002020RecorD+wt 12143001         100         0         0         0           IIII         Simulation         Accepted         2b         Certification_MC_Tes         Windowed view         Peed-MagDown-1         2010-Sim0817ig0:000000         1,000,000         36,545.77         365           IIIII         Simulation         Accepted <td< th=""><th>Syster</th><th>ms 🍷 J</th><th>obs • Production •</th><th>Data 🔻 View 🕇</th><th>Web 🔻 He</th><th>elp</th><th></th><th></th><th></th><th></th><th></th><th>Se</th><th>elected setup: LHCb</th><th>-Certification 🔭</th></td<>   | Syster   | ms 🍷 J   | obs • Production •   | Data 🔻 View 🕇  | Web 🔻 He   | elp  |   |   |   |   |  | Se  | elected setup: LHCb                                      | -Certification 🔭 |
| Id         Type         State         Priority         Name         Sim/Run conditions         Proc. pass         Event type         Events requested         Events in BK         Progress (%)           a         14         Simulation         Accepted         2b         Template for certification         Beam550/GAV/MeG/CopeeAHagDown+         2010.Sim08Trigb0002a002aReco7+wt         12143001         100         0           a         177         Simulation         Accepted         2b         Template for certification         Ream50/GAV/MeG/CopeeAHagDown+         2010.Sim08Trigb0002a002aReco7+wt         12143001         100         0           a         114         Simulation         Accepted         2b         Template for certification         Request 19         Seed-MagDown+         2010.Sim08Trigb0002a002aReco7+wt         12143001         100         0           a         114         Simulation         Accepted         2b         Certification_MC, Tee         Windowed view         Peed-MagUp-NV         CertificationTest01         20,000         0         0           a         110         Simulation         Accepted         2b         For testing Reconstruction         Accepted         2b         For testing Reconstruction         Accepted         2b         For testing Reconstruction         A   | Regi   | istered  | Production Reque   | sts  |  |  |   |   |   |   |  |   |  |                  |
| Instruction         Tech OK         Zb         Template for certification         Beam 3500 GeV/Vetor/Closed-MagDown-1         2010-Sim08Tingbo022a02aReco7-wt         12143001         100         0           Int         Simulation         Accepted         2b         Template for certification         Result 19         seed-MagDown-1         2010-Sim08Tingbo022a02aReco7-wt         12143001         100         0           Int         Simulation         Network         2b         Template for certification         Result 19         seed-MagDown-1         2010-Sim08Tingbo002a002aReco7-wt         12143001         100         0           Int         Simulation         New         2b         Certification_MC_Tee         Verw         seed-MagDown-1         2010-Sim08Tingbo002a002aReco7-wt         12143001         100         0           Int         Simulation         Accepted         2b         Certification_MC_Tee         Verw         seed-MagDown-1         CertificationTest01         20,000         0         0           Int         Simulation         Accepted         2b         Certification_MC_Tee         Seed-MagDown-1         CertificationTest01         20,000         0         0         0           Int         Simulation         Accepted         2b         For testing Reconstruction  | / Requ   | uests / 1  | 9  |  |  |  |   |   |   |   |  |   |  |                  |
| a         16         Simulation         Accepted         2b         Template for certificat<br>mapping         Request 19         seed-MagDown-1 2010-Sim08Trig0x002a02aReco7-wit 12143001         100         0           a         14         Simulation         New         2b         Template for certificat<br>mapping         New         2b         Template for certificat<br>mapping         New         2b         Template for certificat<br>mapping         New         2b         Certification MC_Tes<br>Mindowed view         New         2b         Certification MC_Tes<br>Sign         New         2b         Certification MC_Tes<br>Mindowed view         New         2b         Certification MC_Tes<br>Sign         New         2b         Certification MC_Tes<br>Sign         New         2b         Certification MC_Tes<br>Sign         New         2b         Certification MC_Tes<br>Sign         New         New         2b         Certification MC_Tes<br>Sign         New         New         2b         Certification MC_Tes<br>Sign   | ld   | i –  | Туре   | State  | Priority   | Name   | 5   | Sim/Run conditions  |   | Proc. pass  | Event type   | Events requested  | Events in BK   | Progress (%)     |
| a         17         Simulation         BK Check         2b         Template for certification         Mew         2b         Certification_MC_Test         Seed-MagDown-l         2010 Sim08Trigbs002a02aReco7-wit         12143001         100         00           a         11         Simulation         Active         2b         Certification_MC_Test         Windowd view         Seed-MagDown-l         2010 Sim08Trigbs002a02aReco7-wit         12143001         100         00           a         11         Simulation         Active         2b         Certification_MC_Test         Windowd view         Seed-MagDown-l         2010 Sim08Trigbs0002a002aReco7-with 12143001         100         00           a         10         Simulation         Active         2b         Certification_MC_Test         Windowd view         Seed-MagDown-l         2010 Sim08Trigbs0002a002aReco7-with71th         30000000         1,000,000         36,545,778         368           a         8c         Reconstruction         Accepted         2b         For testing Reconstruction         Sign         Recool-Brunel-vi4/7-Online-Test         30000000         0         0         0           a         8         Reconstruction         Submitted         2b         For testing Reconstruction         ALL         Recool-Brunel-vi4/7-Online-Tes  | ±  | 19   |  | Tech OK  | 2b   |  |   |   |   |   |  |   |  |                  |
| a         b         14         Simulation         New         2b         Certification_MC_Tere         View         Seed-MagUp-Nu         CertificationTest01         20,000         0           a         11         Simulation         Accepted         2b         Certification_MC_Tere         View         Seed-MagUp-Nu         CertificationTest01         20,000         0.0           a         10         Simulation         Accepted         2b         Certification_MC_Tere         View         Seed-MagUp-Nu         CertificationTest01         20,000         0.0         3.000000         3.656,778         3.866           a         Reconstruction         Accepted         2b         For testing Reconstruction         Sign         ReconficationTest01         3000000         0         0         0           a         8         Reconstruction         Submited         2b         For testing Reconstruction         Allow         Papelication         ReconficationTest01         30000000         0         0         0           a         4         Reconstruction         Submited         2b         For testing Reconstruction         Allow         ReconficationTest01         30000000         0         0         0         0         0         0         0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>Request 19</td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td>   |  |  |  |  |  |  | -   | Request 19  | -   | -   |  |   |  |                  |
| a         b         11         Simulation         Accepted         2b         Certification_MC_Tere         Windowed view<br>bed-MagUp-Nur         CertificationTest01         20,000         0           a         10         Simulation         Aclive         2b         Certification_MC_Tere         Windowed view<br>bed-MagUp-Nur         CertificationTest01         20,000         1,000,000         36,545,778         366           a         9         Reconstruction         New         2b         For testing Reconstruction         Pace01-Brunel-v34/-Portine-Test         9000000            |  |  |  |  |  |  | _   | View  |   |   | t 12143001   |   |  |                  |
| a         10         Simulation         Active         2b         (certification) MC Star         History         edifform-MagD         2009-Sim06Reco04-withTruth         3000000         1,00,000         36,545,778         366           a         9         Reconstruction         Accepted         2b         For testing Reconstruction         Sign         Reco11-Brunel-Valf-Online-Test         9000000           |  |  |  |  |  |  |   | Windowed view   |   |   |  |   |  |                  |
| a         9         Reconstruction         Accepted         2b         For testing Reconstruction         Sign         Recol 1-Brunel+v347-Online-Test         90000000         0         0           a         8         Reconstruction         New         2b         For testing Reconstruction         Recol 1-Brunel+v347-Online-Test         90000000         0         0           a         8         Reconstruction         Recol 1-Brunel+v347-Online-Test         9000000         0         0           a         4         Reconstruction         Submitted         2b         For testing Reconstructic         ALL         Recol 1-Brunel+v347-Online-Test         9000000         0         0           a         4         Reconstruction         Submitted         2b         For testing Reconstructic         ALL         Recol 1-Brunel+v347-Online-Test         9000000         0         0           a         4         Reconstruction         Submitted         2b         For testing Reconstructic         ALL         Recol 1-Brunel+v347-Online-Test         9000000         0         0           a         3         Reconstruction         Submitted         2b         For testing Reconstructic         ALL         Recol 1-Brunel+v347-Online-Test         90000000         0         0  |  |  |  |  |  |  | _   | History   |   |   | 30000000   |   |  |                  |
| a       6       Reconstruction       Accepted       2b       For testing Reconstruction       Duplicate       Reco01-Brunet+v347-Online-Test       30000000       0       0         a       5       Reconstruction       Submitted       2b       For testing Reconstruction       ALL       Reco01       30000000       0       0         a       4       Reconstruction       Submitted       2b       For testing Reconstructic       ALL       Reco01       30000000       0       0         a       4       Reconstruction       Submitted       2b       For testing Reconstructic       ALL       Reco01       30000000       0       0         a       2       Simulation       Active       2b       MC Standard 30000000       BeamSTeV-VeloClosed-MagDown-Nut       MC09-Sim06Recc02-withoutTruth       30000000       1,000,0000       0   |  |  |  |  |  |  | _   | Sign  | f   |   |  |   |  |                  |
| a)       6       Reconstruction       Accepted       2b       For testing Reconstruction       Recoll-Branet+v347-Online-Test       3000000       0       0         a)       5       Reconstruction       Submitted       2b       For testing Reconstruction       Reconstruction       30000000       0       0       0         a)       4       Reconstruction       Submitted       2b       For testing Reconstructic ALL       Recool       30000000       0       0         a)       3       Reconstruction       Submitted       2b       For testing Reconstructic ALL       Recool       30000000       0       0         a)       3       Reconstruction       Submitted       2b       For testing Reconstructic ALL       Recool       30000000       0       0         a)       3       Reconstruction       Submitted       2b       For testing Reconstructic ALL       Recool       30000000       0       0         a)       3       Simulation       Active       2b       MC Standard 30000000       BeamsTeV-VeloClosed-MegDown-Nut       MC 09-Sim06Recc02-withoutTruth       30000000       1,000,000       0   | ±  | 8  | Reconstruction   | New  | 2b   | For testing Recons   | stru  | Duplicate   | 0%  | Reco01-Brunel-v34r7-Online-Test   | 30000000   | 0   | 0  |                  |
| g         4         Reconstruction         Submitted         2b         For testing Reconstructic ALL         Reco1         3000000         0         0           g         3         Reconstruction         Submitted         2b         For testing Reconstructic ALL         Reco1         30000000         0         0           g         2         Simulation         Active         2b         MC Standard 3000000         BeamSTeV-VeloClosed-MagDown-Nut         MC09-Sim06Recc02-withoutTruth         30000000         1,000,000         0   |  |  |  | Accepted   |  | -  |   |   |   |   |  |   | -  |                  |
| a         Reconstruction         Submitted         2b         For testing Reconstructic ALL         Reco1         30000000         0         0           a         2         Simulation         Active         2b         MC Standard 30000000         BeamSTeV-VelocIosed MagDown-Nut         MC09-Sim06Recc02-withouTruth         30000000         1,000,000         0   |  |  |  |  |  |  |   |   |   |   |  |   | -  |                  |
| a 2 Simulation Active 2b MC Standard 30000000 Beam5TeV-VeloClosed-MagDown-Nu1 MC09-Sim06Recc02-withoutTruth 30000000 1,000,000 0   |  |  |  |  |  |  |   |   |   |   |  |   |  |                  |
| •  |  |  |  |  |  |  |   |   | ad-MaaDeurs No.4  |   |  |   |  |                  |
|  |  |  |  |  |  |  |   |   |   |   |  |   |  |                  |
|  |  |  |  |  |  |  |   |   |   |   |  |   |  |                  |

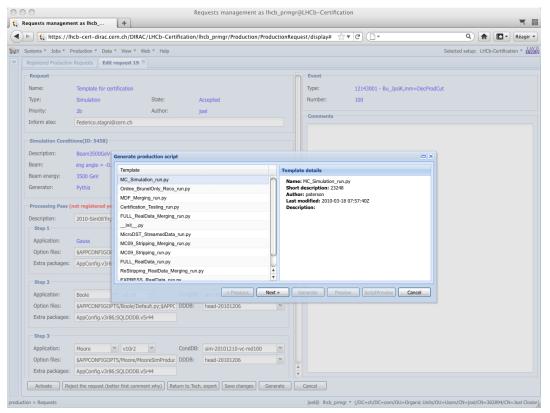
You can sign or reject the request.

|  | nt as lhcb +  |                                      |                                   | <b>T</b>                             |
|--|---|--------------------------------------|-----------------------------------|--------------------------------------|
| 🕨 📢 https://lł   | cb-cert-dirac.cern.ch/DIRAC/LHCb-Certification/lhcb_ppg/Pr  | roduction/ProductionRequest/display# | ☆▼ C                              | Q 🏠 🚺 🛛 Réagir 🕯                     |
| Bystems ▼ Jobs ▼ F   | roduction • Data • View • Web • Help  |                                      |                                   | Selected setup: LHCb-Certification * |
| Registered Production  | Requests Edit request 19 🛞  |                                      |                                   |                                      |
| Request  |   | Event                                |                                   |                                      |
| Name:  | Template for certification  | Type:                                | 12143001 - Bu_JpsiK,mm=DecProdCut |                                      |
| Туре:  | Simulation State: Tech OK   | Number:                              | 100                               |                                      |
| Priority:  | 2b Y Author: joel   | Comments                             |                                   |                                      |
| Inform also:   | Federico.stagni@cern.ch   | Comments                             |                                   |                                      |
| Simulation Condit  | ions(ID: 5458)  |                                      |                                   |                                      |
| Description:   | Beam3500GeV-VeloClosed-MagDown-Nu3  |                                      |                                   |                                      |
| Beam:  | sing angle = -0.270 millirad(internal) Magnetic field: -1   |                                      |                                   |                                      |
| Beam energy:   |   | Closed                               |                                   |                                      |
| Generator:   | Pythia Luminosity: ns nu  | u = 3, no spillover                  |                                   |                                      |
|  |   |                                      |                                   |                                      |
|  | not registered yet)   |                                      |                                   |                                      |
| Description:<br>Step 1   | 2010-Sim08Trig0x002a002aReco07-withTruth-Test   |                                      |                                   |                                      |
| Application:   | Gauss v39r0 CondDB: sim-20101   |                                      |                                   |                                      |
| Option files:  | Gauss v39r0 CondDB: sim-20101<br>e).opts;\$LBPYTHIAROOT/options/Pythia.py DDDB: head-2010                                 |                                      |                                   |                                      |
|  | onfig.v3r86;DecFiles.v23r2;SQLDDDB.v5r44  | 1200                                 |                                   |                                      |
| End a pacitageon   | Shing voi do joca nasi veste joce do do voi m   |                                      |                                   |                                      |
|  |   |                                      |                                   |                                      |
| Step 2   |   |                                      |                                   |                                      |
| Step 2<br>Application:   | Boole v21r9 CondDB: sim-20101   | 210-vc-md100                         |                                   |                                      |
|  | Boole v21r9 CondDB: sim-20101<br>\$APPCONFIGOPT5/Boole/Default.py;\$APPC DDDB: head-2010                                  |                                      |                                   |                                      |
| Application:<br>Option files:  |   |                                      |                                   |                                      |
| Application:<br>Option files:  | \$APPCONFIGOPTS/Boole/Default.py;\$APPC DDDB: head-2010   |                                      |                                   |                                      |
| Application:<br>Option files:<br>Extra packages:                           | \$APPCONFIGOPTS/Boole/Default.py;\$APPC DDDB: head-2010<br>AppConfig.v3r86;SQLDDDB.v5r44                                  | 01206                                |                                   |                                      |
| Application:<br>Option files:<br>Extra packages:<br>Step 3                 | \$APPCONFIGOPTS/Boole/Default.py;\$APPC DDDB: head-2010<br>AppConfig.v3r86;SQLDDDB.v5r44                                  | 11206                                |                                   |                                      |
| Application:<br>Option files:<br>Extra packages:<br>Step 3<br>Application: | \$APPCONFIGOPTS/Boole/Default.py;\$APPC DDDB: head-2010<br>AppConfig.v3r86;SQLDDDB.v5r44<br>Moore v10r2 CondDB: sim-20101 | 01206<br>1210-ve-md100               |                                   |                                      |

Once the request has been accepted by lhcb\_ppg and lhcb\_tech, the status become **accepted**. Choose now the role **lhcb\_pmgr** and click on the request. Then choose the option *edit* 

| R   | egistered              | Production Reque | sts       |          |                            |                         |           |                                    |            |                  |
|-----|------------------------|------------------|-----------|----------|----------------------------|-------------------------|-----------|------------------------------------|------------|------------------|
| / R | equests /              | 19               |           |          |                            |                         |           |                                    |            |                  |
|     | ld 🔻                   | Туре             | State     | Priority | Name                       | Sim/Run conditions      |           | Proc. pass                         | Event type | Events requested |
| ±   | - 19                   | Simulation       | Accepted  | 2b       | Template for certification | Beam3500GeV-VeloClosed  | MagDown-I | 2010-Sim08Trig0x002a002aReco07-wit | 12143001   | 10               |
| ±   | 18                     | Simulation       | Accepted  | 2b       | Template for certificati   | Request 19              | MagDown-I | 2010-Sim08Trig0x002a002aReco07-wit | 12143001   | 10               |
| ŧ   | 17                     | Simulation       | BK Check  | 2b       | Template for certificati   | View                    | MagDown-I | 2010-Sim08Trig0x002a002aReco07-wit | 12143001   | 10               |
| ±   | <ul><li>⊞ 14</li></ul> | Simulation       | New       | 2b       | Certification_MC_Test      |                         | MagUp-Nu  | CertificationTest01                |            | 20,00            |
| ±   | ⊕ 11                   | Simulation       | Accepted  | 2b       | Certification_MC_Test      |                         | MagUp-Nu  | CertificationTest01                |            | 20,00            |
| ±   | 10                     | Simulation       | Active    | 2b       | (certification) MC Stan    | History                 | mm-MagDe  | 2009-Sim06Reco04-withTruth         | 30000000   | 1,000,00         |
| ±   | 9                      | Reconstruction   | Accepted  | 2b       | For testing Reconstruc     | Edit                    |           | Reco01-Brunel-v34r7-Online-Test    | 90000000   |                  |
| ±   | 8                      | Reconstruction   | New       | 2b       | For testing Reconstruc     | Duplicate               |           | Reco01-Brunel-v34r7-Online-Test    | 30000000   |                  |
| ±   | 6                      | Reconstruction   | Accepted  | 2b       | For testing Reconstruc     |                         |           | Reco01-Brunel-v34r7-Online-Test    | 30000000   |                  |
| ±   | - 5                    | Reconstruction   | Submitted | 2b       | For testing Reconstruc     | Productions             |           | Reco01                             | 30000000   |                  |
| ±   | - 4                    | Reconstruction   | Submitted | 2b       | For testing Reconstruc     | Production monitor      |           | Reco01                             | 30000000   |                  |
| ±   | - 3                    | Reconstruction   | Submitted | 2b       | For testing Reconstruct    | ALL                     | _         | Reco01                             | 30000000   |                  |
| ±   | 2                      | Simulation       | Active    | 2b       | MC Standard 3000000        | Beam5TeV-VeloClosed-Ma  | Down-Nu1  | MC09-Sim06Reco02-withoutTruth      | 3000000    | 1,000,00         |
| ±   | 1                      | Simulation       | Done      | 2b       | MC Standard 3000000        | Beam5TeV-VeloClosed-Mag | Down-Nu1  | MC09-Sim06Reco02-withoutTruth      | 30000000   | 1,000,00         |

You give the correct Event Type and number of Events. Then you click on **Generate** At this stage you are asked to choose which template should be used. In our case we will choose "MC\_Simulation\_run.py" and click on the **next** button.



You get now the list of value that you could change before submitting the production. For the certification purpose you should change the value for "MC configuratioon name" to be **certification**, the "configuration version" should be **test**. Verify which plugin you want to use, the number of event that you want to process, the cputimelimit,... Once you have finished, click on the **generate** button.

| - 🔝 h  | nttps://lh      | cb-cert-dirac.cerr   | .cn/DIRAC/LHCb   | -Certification/I       | hcb_prmgr/Pr ☆▼ C (                    |         |                                       |                          | Réag  |
|--|-----------------|--|--|------------------------|--|---------|---------------------------------------|--------------------------|-------|
| ystems 🔻   | Jobs 🔻 Pi       | roduction 🔹 Data 🔻   | View • Web • H   | lelp                   |  |         | Selected                              | setup: LHCb-Certificatio | n 🔻   |
| Registered I   |                 | Requests Edit re   | quest 24 🙁   |                        |  |         |                                       |                          |       |
| Descriptio<br>Step 1<br>Applicat<br>Option 1<br>Extra pa | tion:<br>files: | 2010-Sim08Trig0xl<br>Gauss<br>\$APPCONFIGOPTS<br>AppConfig.v3r86;E | v39r0 ¥  | CondDB:<br>GeV-n DDDB: | sim-20101210-vc-md100<br>head-20101206 | m BK    | Event<br>Type:<br>Number:<br>Comments | 12143001 - Bu<br>100     | _Jpsi |
|  |                 |  |  |                        |  |         |                                       |                          |       |
| Applicat   |                 | Boole ¥  | v21r9  | CondDB:                | sim-20101210-vc-md100                  | ~       |                                       |                          |       |
| Extra p  |                 | AFFCONF130F13  | ou opposed to a state of the st | perc bobb.             | 11680-20101200                         |         |                                       |                          |       |
|  |                 | production script  |  |                        |  |         |                                       |                          |       |
| Step 3   |                 | pecify Production p  | parameters   |                        |  |         |                                       |                          |       |
| Applica  | Paramet         |  |  |                        | Value                                  |         |                                       |                          |       |
| Option   |                 | AL: BK configuration r   |  |                        |  | <u></u> |                                       |                          |       |
| Extra p  |                 | AL: BK configuration v<br>AL: Publish production                   |  |                        | MC10<br>True                           |         |                                       |                          |       |
|  |                 | AL: Testing flag, e.g. f   |  |                        | True                                   |         |                                       |                          |       |
| Step 4   |                 | AL: Workflow ban Tier  |  |                        | True                                   |         |                                       |                          |       |
| Applica  | GENERA          | AL: Workflow file exte   | nsions to save (comr   | ma separated) e.g.     | DS ALLSTREAMS.DST                      |         |                                       |                          |       |
|  | GENER           | AL: Workflow string to   | append to productio  | n name                 | 1                                      |         |                                       |                          |       |
| Option   | _               | AL: Workflow system  |  |                        |  |         |                                       |                          |       |
| Extra p  |                 | AL: Workflow upload v  |  | ERN                    | False                                  |         |                                       |                          |       |
|  |                 | IC: Max CPU time in :  |  |                        | 1000000                                |         |                                       | ¥                        |       |
| Step 5   | PROD-N          | IC: Number of events   | per job  |                        | 1000                                   |         |                                       | Ŧ                        |       |
| Applica  |                 |  | v26r3p4  | « Previous             | Next » Generate                        | Preview | ScriptPreview                         | Cancel                   |       |
| Option.<br>Extra pa                                      |                 | AppConfig.v3r86;S  | QLDDDB.vSr44   | mg12 0000.             | ncad-20101200                          |         |                                       |                          |       |
| Step 6   |                 |  |  |                        |  |         |                                       |                          |       |
| Applicat   | tion:           | LHCb 👻   | v31r7 ¥  | CondDB:                | sim-20101210-vc-md100                  | ~       |                                       |                          |       |
| Option t   |                 | \$STDOPTS/PoolCo   |  | DDDB:                  | head-20101206                          | ~       |                                       |                          |       |
|  | ackages:        | 45.00110/10000   | p. p p p   |                        |  |         |                                       |                          |       |
| Add step   | <b>p</b>        |  |  |                        |  | 4       |                                       |                          |       |

After the generation of the production you will get in a new window the production ID and the number of jobs generated. If you want you can see and save the script which will generate this production by clicking on the **script preview** button.

|                               |                               | rn.ch/DIRAC/LHCb-Certification/lhcb_prmgr/Production/ProductionRequest/display# 😭 🛛 🕻 🔭                                      |                               | éagir 🤻 |
|-------------------------------|-------------------------------|--|-------------------------------|---------|
| ystems 🔨 Jobs 🍷 P             |                               |  | ted setup: LHCb-Certification | • 11    |
| Registered Production         | Requests Edit                 | request 19 🗵   |                               |         |
| Request                       |                               | Generate production script   |                               |         |
| Name:                         | Template for cer              | 19   |                               |         |
| Type:                         | Simulation                    | Extended production 224 by 100 jobs<br>Merging Production 225 successfully created and started in automatic submission mode. |                               |         |
| Priority:                     | 2b                            | rierging i roduction 225 successiony creaced and started in automatic submission mode.                                       |                               |         |
| Inform also:                  | Federico.stagni@              |  |                               |         |
| Simulation Conditi            | ions/ID: E4E9)                |  |                               |         |
|                               |                               |  |                               |         |
| Description:<br>Beam:         | Beam3500GeV-V                 |  |                               |         |
| Beam energy:                  | sing angle = -0.2<br>3500 GeV |  |                               |         |
| Generator:                    | Pythia                        |  |                               |         |
| Generator.                    | Pyuna                         |  |                               |         |
| Processing Pass (r            | not registered ye             |  |                               |         |
| Description:                  | 2010-Sim08Trig                |  |                               |         |
| Step 1                        |                               |  |                               |         |
| Application:                  | Gauss                         |  |                               |         |
| Option files:                 | \$APPCONFIGOP                 |  |                               |         |
| Extra packages:               | AppConfig.v3r86               |  |                               |         |
| Step 2                        |                               |  |                               |         |
|                               |                               |  |                               |         |
| Application:<br>Option files: | Boole                         |  |                               |         |
| Extra packages:               |                               | TS/Boole/Default.py;SAPPC_DDDB: head-2010120   |                               |         |
| Extra packages.               | Appcornig.voroc               | דרוגי,סטעטעאַנאָר  |                               |         |
| Step 3                        |                               |  |                               |         |
| Application:                  | Moore                         | ▼ v10r2 ▼ CondDB: sim-20101210-vc-md100 ▼  |                               |         |
| Option files:                 | \$APPCONFIGOP                 | TS/Moore/MooreSimProduc DDDB: head-20101206  |                               |         |
| Extra packages:               | A                             | ;SQLDDDB.vSr44   |                               |         |

This is the window of the python script which could be used to generate again the production. To exit thi swindow click on **cancel** 

| Registered Production         |                   | v View * Web * Help  | Selecter | d setup: LHCb-Certification 🔻 🛔 |
|-------------------------------|-------------------|--|----------|---------------------------------|
|                               | Requests Edit     | equest 19 🗵  |          |                                 |
| Request                       |                   | Generate production script   |          |                                 |
| Name:                         | Template for cer  | 19<br>THIDUL DENKC   |          |                                 |
| Type:                         | Simulation        |  |          |                                 |
| Priority:                     | 2b                | from DIRAC import gLogger<br>gLogger = gLogger.getSubLogger( 'MC_Simulation_run.py' )  |          |                                 |
| Inform also:                  | Federico.stagni@  |  |          |                                 |
|                               | ()                | ######################################   |          |                                 |
| Simulation Condition          |                   | ***************************************  |          |                                 |
| Description:                  | Beam3500GeV-V     | from LHCbDIRAC.Interfaces.API.Production import Production<br>from LHCbDIRAC.Interfaces.API.DiracProduction import DiracProduction |          |                                 |
| Beam:                         | sing angle = -0.2 | *******  |          |                                 |
| Beam energy:                  | 3500 GeV          | # Configurable and fixed parameters  |          |                                 |
| Generator:                    | Pythia            | ######################################   |          |                                 |
| Processing Pass (r            | not registered ye | events = '10'  |          |                                 |
| Description:                  | 2010-Sim08Trig    | cpu = '10000'<br>priority = '4'  |          |                                 |
| Step 1                        |                   | extend = '100'   |          |                                 |
| Application:                  | Gauss             | finalAppType = 'DST'<br>gaussAppType = 'sim'   |          |                                 |
| Option files:                 | \$APPCONFIGOP     | configName = 'certification'   |          |                                 |
| Extra packages:               | AppConfig.v3r86   | configVersion = 'test'   |          |                                 |
|                               |                   | appendName = '1'   |          |                                 |
| Step 2                        |                   | outputFileMask = 'DST'<br>outputsCERN = 'False'  | ×.       |                                 |
| Application:                  | Boole             |  |          |                                 |
| Option files:                 | \$APPCONFIGOP     | IS/Boole/Default.py;\$APPC_DDDB: head-2010120 <b>« Previous</b> Next » Generate Preview ScriptPreview Canc                         | :el      |                                 |
| Extra packages:               | AppConfig.v3r86   | ,3QLUUUB.V3I <del>11</del>   |          |                                 |
| Step 3                        |                   |  |          |                                 |
| Application:                  | Moore             | v10r2 V CondDB: sim-20101210-vc-md100 V  |          |                                 |
| Application:<br>Option files: |                   |  |          |                                 |
|                               | SAPPCONFIGOP      | TS/Moore/MooreSimProduc DDDB: head-20101206  |          |                                 |

|          | 1 🚯 F                 | nttps://lhcb-cert-o | dirac.cern.ch/DI | RAC/LHCb- | Certificat | ion/lhcb_prmgr/Productio   | n/ProductionReaues  | t/display# ☆▼ C      | 0-         |                  | Q) 🏫                | Réagir            |
|----------|-----------------------|---------------------|------------------|-----------|------------|----------------------------|---------------------|----------------------|------------|------------------|---------------------|-------------------|
| -<br>Dur |                       | Jobs • Production • |                  |           |            |                            |                     |                      |            | Eal              | lected setup: LHCb- | Cartification v M |
| _        |                       | d Production Reque  |                  | HED TH    | ωp         |                            |                     |                      |            | 500              | occorrection and    |                   |
|          | equests /             |                     |                  |           |            |                            |                     |                      |            |                  |                     |                   |
|          | Id 🗸                  | Туре                | State            | Priority  | Name       | Sim/Run conditions         | Proc. pass          |                      | Event type | Events requested | Events in BK        | Progress (%)      |
| Ð        | 19                    | Simulation          | Accepted         | 2b        |            | Beam3500GeV-VeloClosed     |                     | 1x002a002aReco07-wit |            | 100              | 0                   | (10)              |
|          | 18                    | Simulation          | Accepted         | 2b        |            | Beam3500GeV-VeloClosed     | Request 19          | x002a002aReco07-wit  |            | 100              | 0                   |                   |
|          | 17                    | Simulation          | BK Check         | 20        |            | Beam3500GeV-VeloClosed     | View                | x002a002aReco07-wit  |            | 100              | 0                   |                   |
|          | 14                    | Simulation          | New              | 2b        |            | Beam3500GeV-VeloClosed     |                     | 11                   |            | 20.000           | 0                   | (                 |
|          | <ul><li>iii</li></ul> | Simulation          | Accepted         | 2b        |            | Beam3500GeV-VeloClosed     | Windowed view       | 1                    |            | 20,000           | 0                   | (                 |
|          | 10                    | Simulation          | Active           | 2b        |            | Beam450GeV-VeloClosed1     | History             | 04-withTruth         | 30000000   | 1,000,000        | 36,545,778          | 365               |
|          | 9                     | Reconstruction      | Accepted         | 20        |            | Beam4000GeV-MagOff         | Edit                | 34r7-Online-Test     | 90000000   | 0                | 00,010,110          |                   |
|          | 8                     | Reconstruction      | New              | 2b        |            | Beam450GeV-Mag-100%        | Duplicate           | 34r7-Online-Test     | 30000000   | 0                | 0                   |                   |
|          | 6                     | Reconstruction      | Accepted         | 2b        | For testir |                            | bupiltute           | 34r7-Online-Test     | 30000000   | 0                | 0                   |                   |
|          | - 5                   | Reconstruction      | Submitted        | 2b        | For testir |                            | Productions         |                      | 30000000   | 0                | 0                   |                   |
|          | 4                     | Reconstruction      | Submitted        | 20        | For testir |                            | Production monitor  |                      | 30000000   | 0                | 0                   |                   |
|          | 3                     | Reconstruction      | Submitted        | 2b        | For testir |                            | Reco01              |                      | 30000000   | 0                | 0                   |                   |
|          | 2                     | Simulation          | Active           | 2b        |            | Beam5TeV-VeloClosed-MagDe  |                     | Recoll2-withoutTruth | 30000000   | 1,000,000        | 0                   | (                 |
|          | 1                     | Simulation          | Done             | 2b        |            | Beam5TeV-VeloClosed-MagDe  |                     |                      | 30000000   | 1,000,000        | 0                   |                   |
|          |                       |                     |                  |           | NO Otari   | bound for the constant age | Mindal Mcos-Silloor | tecose-manoacritain  |            | 1,000,000        | 0                   |                   |
|          |                       |                     |                  |           |            |                            | Amiriku Incos-Jinoo |                      |            |                  |                     |                   |

If you click on the request and you choose **production monitor** you will be re-direct to the production monitor.

Production monitor with the fresh generated productions.

| (     https://lhcb-cert                          | dirac | cern.ch/   | DIRAC | /LHCb-C   | ertification | /lhcb_prmgr/jo | bs/ProductionMoni | or/display?pro | oducti 😭 🔻 C 🤇 | <u> </u> |           | ۹) 🏚                | Réagir •            |
|--|-------|------------|-------|-----------|--------------|----------------|-------------------|----------------|----------------|----------|-----------|---------------------|---------------------|
| ofð Systems 🕇 Jobs 📍 Production                  | ▼ Da  | ta 🔻 Viev  | v • W | eb 🔻 Help |              |                |                   |                |                |          | Se        | elected setup: LHCt | o-Certification 🔻 🚻 |
| ProductionMonitor                                | V     | Select All | 🔲 Se  | lect None |              |                |                   |                |                |          |           | Start Stop Flu      | ish Complete Clea   |
| Selections -                                     |       | ID         |       | Status    | AgentType    | Туре           | Name              | Files          | Processed (%)  | Created  | Submitted | Waiting             | Done                |
| Status:  | ∃ R   | equest: 1  | 9     |           |              |                |                   |                |                |          |           |                     |                     |
| All 🖌  |       | 226        |       | Active    | Automatic    | Replication    | Request_19_ALLS   | 0              | 0              | 0        | 0         | 0                   | 0                   |
| AgentType:                                       |       | 225        |       | Active    | Automatic    | Merge          | ALLSTREAMS.DS     | 0              | 0              | 0        | 0         | 0                   | 0                   |
| All  |       | 224        |       | Active    | Automatic    | MCSimulation   | MC_Beam3500Ge     | 0              |                | 100      | 100       | 0                   | 0                   |
| Type:  |       |            | _     |           |              |                |                   |                |                |          |           |                     |                     |
| All 💙  |       |            |       |           |              |                |                   |                |                |          |           |                     |                     |
| Group:   |       |            |       |           |              |                |                   |                |                |          |           |                     |                     |
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| formin .   |       |            |       |           |              |                |                   |                |                |          |           |                     |                     |
|  |       |            |       |           |              |                |                   |                |                |          |           |                     |                     |
|  |       |            |       |           |              |                |                   |                |                |          |           |                     |                     |
| All Y  |       |            |       |           |              |                |                   |                |                |          |           |                     |                     |
| All 🖍  |       |            |       |           |              |                |                   |                |                |          |           |                     |                     |
| All V<br>Date:<br>YYYY-mm-dd                     |       |            |       |           |              |                |                   |                |                |          |           |                     |                     |
| Date:  |       |            |       |           |              |                |                   |                |                |          |           |                     |                     |
| All  Cate:  YYYY-mm-dd  RequestID:               |       |            |       |           |              |                |                   |                |                |          |           |                     |                     |
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| Al Yolde:  |       |            |       |           |              |                |                   |                |                |          |           |                     |                     |
| All  VYYY-mm-dd  roductionID:                    |       |            |       |           |              |                |                   |                |                |          |           |                     |                     |

dirac-bookkeeping-production-informations 830 -o /DIRAC/Setup=LHCb-Certification

```
lxplus448] x86_64-slc5-gcc46-opt /afs/cern.ch/user/j/joel> dirac-bookkeeping-
→production-informations 830 -o /DIRAC/Setup=LHCb-Certification
Production Info:
Configuration Name: LHCb
Configuration Version: Collision11
Event type: 91000000
StepName: merging MDF
ApplicationName : mergeMDF
ApplicationVersion : None
OptionFiles : None
DDDB
                  : None
CONDDB
                 : None
ExtraPackages
                 :None
Number of Steps 1
Total number of files: 2
    LOG:1
    RAW:1
Number of events
File Type
                  Number of events
                                    Event Type
                                                          EventInputStat
                   30988
                                      91000000
                                                          30988
RAW
Path: /LHCb/Collision11/Beam3500GeV-VeloClosed-MagDown/Real Data/Merging
/LHCb/Collision11/Beam3500GeV-VeloClosed-MagDown/Real Data/Merging/91000000/RAW
```

You can then check the produced files:

```
nsls -1 /castor/cern.ch/grid/lhcb/certification/test/ALLSTREAMS.DST/00000225/0000
dirac-dms-lfn-replicas /lhcb/certification/test/ALLSTREAMS.DST/00000225/0000/00000225_
↔00000001_1.allstreams.dst
dirac-dms-add-replication --Production 259:268 --FileType RADIATIVE.DST --Plugin_
→LHCbMCDSTBroadcastRandom --Request 30
dirac-dms-add-replication -- Production 239 -- FileType ALLSTREAMS.DST -- Plugin_
\hookrightarrowLHCbMCDSTBroadcastRandom --Request 29
Transformation 273 created
Name: Replication-ALLSTREAMS.DST-239-Request29 , Description:
↔LHCbMCDSTBroadcastRandom of ALLSTREAMS.DST for productions 239
BK Query: {'FileType': ['ALLSTREAMS.DST'], 'ProductionID': ['239'], 'Visibility': 'Yes
→ ' }
3 files found for that query
Plugin: LHCbMCDSTBroadcastRandom
RequestID: 29
[lxplus433] x86_64-slc5-gcc43-opt /afs/cern.ch/lhcb/software/DEV/LHCBDIRAC/LHCBDIRAC_
→v6r0-pre12> dirac-bookkeeping-production-informations 239Production Info::
   Configuration Name: certification
   Configuration Version: test
   Event type: 12143001
StepName: MCMerging10
   ApplicationName : LHCb
   ApplicationVersion : v31r7
   OptionFiles : $STDOPTS/PoolCopy.opts
   DDB
                      : head-20101206
   CONDDB
                      : sim-20101210-vc-md100
   ExtraPackages
                      :None
```

(continues on next page)

```
(continued from previous page)
```

```
Number of Steps
                4
Total number of files: 8
        LOG:4
       ALLSTREAMS.DST:4
Number of events
File Type
                 Number of events
                                   Event Type
                                                     EventInputStat
ALLSTREAMS.DST
                  540
                                    12143001
                                                     540
Path: /certification/test/Beam3500GeV-VeloClosed-MagDown-Nu3/MC10Sim01-
→Trig0x002e002aFlagged/Reco08/Stripping12Flagged
/certification/test/Beam3500GeV-VeloClosed-MagDown-Nu3/MC10Sim01-
→Trig0x002e002aFlagged/Reco08/Stripping12Flagged/12143001/ALLSTREAMS.DST
dirac-bookkeeping-production-files 239 ALLSTREAMS.DST
FileName
               Size
                         GUID
                                                             Replica
/lhcb/certification/test/ALLSTREAMS.DST/00000239/0000/00000239 00000044 1.allstreams.
⇔dst
                14515993
                         165DD5A9-1D40-E011-AD80-003048F1E1E0
                                                              Yes
/lhcb/certification/test/ALLSTREAMS.DST/00000239/0000/00000239_00000045_1.allstreams.
                          988731FC-1C40-E011-AFCD-90E6BA442F3B
adst
                2971054
                                                              Yes
/lhcb/certification/test/ALLSTREAMS.DST/00000239/0000/00000239_00000074_1.allstreams.
→dst
                202748580 E2BAF0A1-A340-E011-BF97-003048F1B834
                                                              Yes
/lhcb/certification/test/ALLSTREAMS.DST/00000239/0000/00000239_00000076_1.allstreams.
-dst
                2804277
                         F086C525-EB43-E011-96F9-001EC9D8B181
                                                              Yes
[lxplus433] x86_64-slc5-gcc43-opt /afs/cern.ch/lhcb/software/DEV/LHCBDIRAC/LHCBDIRAC_
-v6r0-pre12> dirac-dms-lfn-replicas /lhcb/certification/test/ALLSTREAMS.DST/00000239/
↔0000/00000239_00000044_1.allstreams.dst
{ 'Failed': { },
 'Successful': {'/lhcb/certification/test/ALLSTREAMS.DST/00000239/0000/00000239
→00000044_1.allstreams.dst': {'CERN_MC_M-DST': 'srm://srm-lhcb.cern.ch/castor/cern.
→ch/grid/lhcb/certification/test/ALLSTREAMS.DST/00000239/0000/00000239_00000044_1.
→allstreams.dst'}}
[lxplus433] x86_64-slc5-gcc43-opt /afs/cern.ch/lhcb/software/DEV/LHCBDIRAC/LHCBDIRAC_
-v6r0-pre12> dirac-dms-lfn-replicas /lhcb/certification/test/ALLSTREAMS.DST/00000239/
→0000/00000239_00000045_1.allstreams.dst
{'Failed': {},
'Successful': {'/lhcb/certification/test/ALLSTREAMS.DST/00000239/0000/00000239_
-+tldl/lhcb/certification/test/ALLSTREAMS.DST/00000239/0000/00000239_00000045_1.
→allstreams.dst'}}
[lxplus433] x86_64-slc5-gcc43-opt /afs/cern.ch/lhcb/software/DEV/LHCBDIRAC/LHCBDIRAC_
-v6r0-pre12> dirac-dms-lfn-replicas /lhcb/certification/test/ALLSTREAMS.DST/00000239/
→0000/00000239_00000074_1.allstreams.dst
{'Failed': {},
'Successful': {'/lhcb/certification/test/ALLSTREAMS.DST/00000239/0000/00000239_
→allstreams.dst'}}
[lxplus433] x86_64-slc5-gcc43-opt /afs/cern.ch/lhcb/software/DEV/LHCBDIRAC/LHCBDIRAC_
→v6r0-pre12> dirac-dms-lfn-replicas /lhcb/certification/test/ALLSTREAMS.DST/00000239/
→0000/00000239_00000076_1.allstreams.dst
{'Failed': {},
'Successful': {'/lhcb/certification/test/ALLSTREAMS.DST/00000239/0000/00000239_
→tldl/lhcb/certification/test/ALLSTREAMS.DST/00000239/0000/00000239 00000076 1.
→allstreams.dst'}}
```

How to enable/disable FTS channel ? To check TFS transfer, look at the log for DataManagement/FTSSubmitAgent

### 3.3.3 Specific tests

Every release is somewhat special, and introduce new features that should be tested. It has to be noted that developers should always participate in the testing of very specific new developments, anyway the certification manager should look into if these tests have been done.

Within Jira, there is a special board, named ready for integration. that contain tasks marked as "Resolved", but not yet "Done". Dragging tasks from left to right will mark them as "Done".

So, the certification manager can decide to investigate directly, by submitting tests, if know, or ask the developer to confirm the task can be closed.

# CHAPTER 4

Indices and tables

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- search