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**Features to be included** with link to ITS if available, or with status

Need to be in:

- histograms merging productions tasks:
  - ◆ <https://its.cern.ch/jira/browse/LHCBDIRAC-324>
  - ◆ <https://its.cern.ch/jira/browse/LHCBDIRAC-134>
- <https://its.cern.ch/jira/browse/LHCBDIRAC-216> (use of new templates)
- Adapt LHCb workflows to use DIRAC Workflows - almost done
- backporting of splitters in v6rxxx series by Adri?

**Based on DIRAC v6r14:**

**Features to be included** with link to ITS if available, or with status

Need to be in:

- Partially <https://its.cern.ch/jira/browse/LHCBDIRAC-348> (~done)

Date	Status
23/06/2015	features definition freeze
24/06/2015	First pre-release on certification. trunk freezes: only fixes allowed
//2015	Last pre-release on certification. Last round of tests launched
//2015	Release is created and installed in production setup

News and changes to be applied by hand Refer to

<https://github.com/DIRACGrid/DIRAC/wiki/DIRAC-v6r14> for DIRAC changes. Specifically, re-do the dirac-populate-component-db after having cleaned InstalledComponentsDB: Launch the following command:

```
dirac-populate-component-db
```

```
--exclude=buildtest.cern.ch,ccwlcglhcb01.in2p3.fr,gridpp-vm.lancs.ac.uk,lbdirac.cern.ch,lbdqmweb.cern.ch,lhcb-boinc  
-dd
```

The release contain the LHCbDIRAC/FrameworkSystem, which is a news

Bdii2CSAgent is the new agent for populating the CS with CEs. So: - de-install CE2CSAgent (use the sysAdmin CLI) - install Bdii2CSAgent - modify the CS, at least add VirtualOrganization = LHCb, content in MailTo and MailFrom. Option ProcessSEs should be "no". - restart it

## Based on DIRAC v6r13:

**Features to be included** with link to ITS if available, or with status

Need to be in:

- need to prepare for run2 -- all TS tasks should go in
- <https://its.cern.ch/jira/browse/LHCBDIRAC-255>
- <https://its.cern.ch/jira/browse/LHCBDIRAC-274>
- <https://its.cern.ch/jira/browse/LHCBDIRAC-384>
- <https://savannah.cern.ch/task/?17737> (slide 4 of <https://indico.cern.ch/getFile.py/access?contribId=25&sessionId=4&resId=0&materialId=slides&confId=2366>)
- histograms merging productions?

Maybe in:

- <https://its.cern.ch/jira/browse/LHCBDIRAC-216> (use of new templates)
- Adapt LHCb workflows to use DIRAC Workflows - almost done
- backporting of splitters in v6rxxx series by Adri?

Date	Status
23/03/2015	features definition freeze
24/03/2015	First pre-release on certification. trunk freezes: only fixes allowed
//2015	Last pre-release on certification. Last round of tests launched
//2015	Release is created and installed in production setup

### News and changes to be applied by hand

Refer to <https://github.com/DIRACGrid/DIRAC/wiki/DIRAC-v6r13> for DIRAC changes, especially follow the changes in DBs.

Launch the following command: `dirac-populate-component-db --exclude=buildtest.cern.ch,ccwlcglhcb01.in2p3.fr,gridpp-vm.lancs.ac.uk,lbdirac.cern.ch,lbdqmweb.cern.ch,lhcb-boinc -dd`

The production templates location moved from Workflow to Production systems, and the CS value of `/Systems/ProductionManagements/Services/ProductionRequest/templateFolder` should be updated to `/opt/dirac/pro/LHCbDIRAC/ProductionManagement/Templates`

On the Transformation DB:

```
ALTER TABLE TransformationFiles ADD COLUMN Size BIGINT DEFAULT NULL, FileType VARCHAR(32) DEFAULT
```

### Based on DIRAC v6r12:

# LHCbDIRACv8r0

**Features to be included** with link to ITS if available, or with status

Need to be in:

- Everything in <https://its.cern.ch/jira/browse/LHCBDIRAC-292?jql=project%20%3D%20LHCBDIRAC%20AND%20fixVer>
- <https://its.cern.ch/jira/browse/LHCBDIRAC-260> (MC)
- <https://its.cern.ch/jira/browse/LHCBDIRAC-259> (MC)
- <https://its.cern.ch/jira/browse/LHCBDIRAC-258> (MC)
- <https://its.cern.ch/jira/browse/LHCBDIRAC-262>
- <https://its.cern.ch/jira/browse/LHCBDIRAC-191> (SetupProject LHCbDIRAC within the pilots)

Maybe to be in:

- <https://its.cern.ch/jira/browse/LHCBDIRAC-216> (use of new templates) - not done

Date	Status
01/08/2014	features definition freeze
13/08/2014	First pre-release on certification. trunk freezes: only fixes allowed
14/12/2014	Last pre-release on certification. Last round of tests launched
05/01/2015	Release is created and installed in production setup

## News and changes to be applied by hand

Refer to <https://github.com/DIRACGrid/DIRAC/wiki/DIRAC-v6r12> for DIRAC changes, especially follow the changes in DBs.

The SAMSystem disappeared. The last remaining agent of SAMSystem (SAMAgent) has been moved to ResourceStatusSystem.

Agents:

- New TransformationSystem/GridCollector agent, as a complement for indexing productions. This substitutes the old one that was running on volhcb02.
- New TransformationSystem/MCSimulationTestingAgent: it has to be installed
- We need special configuration, to be added in the CS, for WorkflowTaskAgent-MCSimulation: for complete instruction, please refer to certification section of the same agent
- The SiteDirectors are now LHCb specific. Nothing should be done, just check.

The following agents/executors should be run with CSEC\_MECH=ID (add to "run" file):

- All Optimizers
- All WorkflowTask- and RequestTask- agents
- TransformationAgent
- MCExtensionAgent
- ValidateOutputDataAgent
- DataRecoveryAgent

On the Transformation DB:

```
ALTER TABLE Transformations ADD COLUMN Hot BOOLEAN DEFAULT FALSE;
```

**On the StorageUsageDB:**

```
alter table DirMetadata add column Visibility VARCHAR(4) NOT NULL DEFAULT 'Y';
```

**And there are 2 new tables to add:**

```
DROP TABLE IF EXISTS StoredJobDescription;
CREATE TABLE StoredJobDescription(
  TransformationID INTEGER NOT NULL,
  JobDescription LONGBLOB NOT NULL,
  PRIMARY KEY (TransformationID),
  FOREIGN KEY (TransformationID) REFERENCES Transformations (TransformationID)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
DROP TABLE IF EXISTS RunDestination;
CREATE TABLE RunDestination(
  RunNumber INT(11) NOT NULL,
  Destination VARCHAR(32) NOT NULL,
  PRIMARY KEY (RunNumber)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

**Based on DIRAC v6r11:**

# LHCbDIRACv7r16

- Beware of some changes in UserJobFinalization: second replica should be done only on user request, and use directly the RMS

**Features to be included** with link to ITS if available, or with status Need to be in:

- <https://its.cern.ch/jira/browse/LHCBDIRAC-256> - OK
- <https://its.cern.ch/jira/browse/LHCBDIRAC-242> - OK
- <https://its.cern.ch/jira/browse/LHCBDIRAC-234> - OK
- <https://its.cern.ch/jira/browse/LHCBDIRAC-168> - OK
- <https://its.cern.ch/jira/browse/LHCBDIRAC-169> - OK
- <https://its.cern.ch/jira/browse/LHCBDIRAC-252> - OK
- <https://its.cern.ch/jira/browse/LHCBDIRAC-158> - OK
- <https://its.cern.ch/jira/browse/LHCBDIRAC-264> - OK

Date	Status
20/02/2013	features definition freeze
25/02/2013	First pre-release on certification. trunk freezes: only fixes allowed
04/04/2014	Last pre-release on certification. Last round of tests launched
07/04/2014	Release is created and installed in production setup

**Changes to be applied by hand** (dbod-lbprod)

<https://github.com/DIRACGrid/DIRAC/wiki/DIRAC-v6r11#few-changes-to-field-definitions-affecting-several-dbstab>

Stop the agent:

- BkWatchAgent (volhcb20)

And the services:

- ProductionRequest (lbvobox03)
- TransformationManager (volhcb19, volhcb24, volhcb29)

Then:

```
USE ProductionRequestDB;
```

```
ALTER TABLE ProductionRequests ADD RequestWG VARCHAR(128) DEFAULT '' AFTER RequestPDG;  
ALTER TABLE ProductionRequests ADD INDEX RequestWG (RequestWG);
```

```
USE TransformationDB;
```

```
CALL CopyBkQueries;
```

Update to version v7r16 and then restart the services and agents.

# LHCbDIRACv7r15

Notes: \* For this release we should if we want to use the new packaging (BeautyDIRAC v1r0), now under consideration: <https://indico.cern.ch/getFile.py/access?sessionId=2&resId=0&materialId=1&confId=267402>

\* The new steps will need to define the System Config. In case it is not defined (as it is the case for steps already created), "ANY" will be set

**Changes in DIRAC** to consider:

- New RMS everywhere
  - ◆ Needs replication and deletion tests, using FTS
- New Workflow Package
- little changes in LHCbDirac, usual tests for LHCb

**Features to be included** with link to ITS if available, or with status

Need to be in:

- Adaptable MC jobs
- <https://its.cern.ch/jira/browse/LHCBDIRAC-71>
- MCExtensionAgent: <https://its.cern.ch/jira/browse/LHCBDIRAC-141>
- New Productions State Machine machinery
- New TransformationFiles State Machine machinery:  
<https://its.cern.ch/jira/browse/LHCBDIRAC-192>
  - ◆ With <https://its.cern.ch/jira/browse/LHCBDIRAC-194>
- Space token information in LHCbDIRAC accounting

Date	Status
21/10/2013	features definition freeze
22/10/2013	First pre-release on certification. trunk freezes: only fixes allowed
13/01/2014	Last pre-release on certification. Last round of tests launched
19/01/2014	Release is created and installed in production setup

**Changes to be applied by hand**

- Remove table SLSSStorage from ResourceManagementDB
- install\_project: change in CS: move to NoSoftwareInstallation (as it is for certification and development)
- Change in CS: Add "Idle" to Transformation/Agent/WorkflowTaskAgent/UpdateTaskStatus
- Change in CS to enable the policies on the CE (copying from certification)



# v7r14

Note: this is fast track release. DIRAC v6r9 is based on DIRAC v6r8 and will contain only the new RMS system. LHCbDirac tags will be made starting from the v7r14 branch. **NB: the v7r14 branch will be created starting from the v7r13 branch!**

**Features to be included** with link to ITS if available, or with status

Need to be in:

- Only a change in the workflow to use the new RMS -> to be completed
- The LHCbTestDirac will contain some system tests that needs to be run during the certification

Date	Status
10/06/2013	features definition freeze
11/06/2013	First pre-release on certification. v7r14 branch freezes: only fixes allowed
20/06/2013	Last pre-release on certification. Last round of tests launched
24/06/2013	Release is created and installed in production setup

## Based on DIRAC v6r8:

# v7r13

Note: this is fast track release. DIRAC v6r8 is based on DIRAC v6r7 and will contain only fixes, nothing new. LHCbDirac tags will be made starting from the trunk as usual (anyway, there is not much to put it)

**Features to be included** with link to ITS if available, or with status

Need to be in:

- <https://its.cern.ch/jira/browse/LHCBDIRAC-109>
- <https://its.cern.ch/jira/browse/LHCBDIRAC-85>

Date	Status
07/04/2013	features definition freeze
08/04/2013	First pre-release on certification. Trunk freezes: only fixes allowed
11/04/2013	Last pre-release on certification. Last round of tests launched
15/04/2013	Release is created and installed in production setup

## Based on DIRAC v6r7:

# v7r12

**Features to be included** with link to ITS if available, or with status

Need to be in:

- Certification procedure second sprint:  
<https://its.cern.ch/jira/secure/RapidBoard.jspa?rapidView=801&view=planning&selectedIssue=LHCBDIRAC>
- Web portal first sprint:  
<https://its.cern.ch/jira/secure/RapidBoard.jspa?rapidView=961&view=planning>
- SAM code reviewed: <https://savannah.cern.ch/task/index.php?27069>
- New implementation of StorageHistoryAgent <https://savannah.cern.ch/task/index.php?28022>

Date	Status
15/02/2013	features definition freeze
18/02/2013	First pre-release on certification. Trunk freezes: only fixes allowed
06/03/2013	Last pre-release on certification. Last round of tests launched
11/03/2013	Release is created and installed in production setup

**Based on DIRAC v6r6:**

# v7r11

**Features to be included** with link to ITS if available, or with status

Need to be in:

- ShiftDBAgent adding GEOC to eGroup and sending email to Prod shifter  
<https://savannah.cern.ch/task/index.php?28462>
- Exploiting fully the possibilities given by the production steps:  
<https://savannah.cern.ch/task/index.php?22859>
- Enable popularity reports from WG productions: <https://savannah.cern.ch/task/index.php?27709>
- Steps creation - "Option format" field from free text to drop down menu  
<https://savannah.cern.ch/task/?32788>
- Certification procedure first sprint:  
<https://its.cern.ch/jira/secure/RapidBoard.jspa?rapidView=801&selectedIssue=LHCBDIRAC-35>

Possibly in:

- The steps that are 24 months old can be marked as 'obsolete' automatically:  
<https://savannah.cern.ch/task/index.php?27679>
- Put private DQ scripts in LHCbDirac, plus revision: <https://savannah.cern.ch/task/?31931>

Date	Status
23/11/2012	features definition freeze
27/11/2012	First pre-release on certification. Trunk freezes: only fixes allowed
05/12/2012	Last pre-release on certification. Last round of tests launched
07/01/2013	Release is created and installed in production setup

## Based on DIRAC v6r4:

# v7r10

**Features to be included** with link to Savannah task if available, or with status

- Script for setting up merging production of RAW (MDF) files
- Popularity agent should not process users files: <https://savannah.cern.ch/task/index.php?32894>
- Put private DQ scripts in LHCbDirac, plus revision: <https://savannah.cern.ch/task/index.php?31931>  
<https://its.cern.ch/jira/secure/RapidBoard.jspa?rapidView=603&selectedIssue=LHCBDIRAC-11>
- BKK client calls: <https://savannah.cern.ch/task/?35101>

Date	Status
11/10/2012	features definition freeze
12/10/2012	First pre-release on certification. Trunk freezes: only fixes allowed
16/10/2012	Last pre-release on certification. Last round of tests launched
17/10/2012	Release is created and installed in production setup

# v7r9

**Features to be included** with link to Savannah task if available, or with status

- Using the ByRunFileTypeSizeWithFlush plugin (single merging prod):  
<https://savannah.cern.ch/task/index.php?23192>

Date	Status
10/09/2012	features definition freeze
10/09/2012	First pre-release on certification. Trunk freezes: only fixes allowed
11/09/2012	Last pre-release on certification. Last round of tests launched
12/09/2012	Release is created and installed in production setup

# v7r8

**Features to be included** with link to Savannah task if available, or with status

Need to be in:

- tasks from 28372 to 28377 - use of Operations helper
- Application Status containing LFN value: <https://savannah.cern.ch/task/index.php?27995>
- Creation of datafile for parametricInputData: <https://savannah.cern.ch/support/?128061>
- start run and end run <https://savannah.cern.ch/task/?28392>
- CARTESIAN product in the sql command of getFileSummary <https://savannah.cern.ch/task/?28400>
- section to be reshuffle <https://savannah.cern.ch/task/index.php?28173> <- DELAYED, this change must be done in DIRAC.
- LCHb TaskManager: adapting to v6r4 <https://savannah.cern.ch/task/index.php?28417>
- ShiftDBAgent adding GEOC to eGroup and sending email to Prod shifter <https://savannah.cern.ch/task/index.php?28462>
- Reducing the number of BKK calls: <https://savannah.cern.ch/task/index.php?30195>
- Correct handle of Logs in failover: <https://savannah.cern.ch/task/index.php?30567>

Date	Status
12/06/2012	features definition freeze
13/06/2012	installation on development machine, tests will aim at stable system
15/06/2012	First pre-release on certification. Trunk freezes: only fixes allowed
21/06/2012	Last pre-release on certification. Last round of tests launched
25/06/2012	Release is created and installed in production setup

## Based on DIRAC v6r3:

# v7r7

**Features to be included** with link to Savannah task if available, or with status

Need to be in:

- Runs for BKK queries: <https://savannah.cern.ch/task/?27295>
- Bulk queries for getting run informations: <https://savannah.cern.ch/task/index.php?27717>
- Augmenting the XML job description with run metadata:  
<https://savannah.cern.ch/task/index.php?27721>
- Template for swimming productions: <https://savannah.cern.ch/task/index.php?27296>
- Agent for closing the MC replications: <https://savannah.cern.ch/task/?26849>
- Updated dependency: LCGCMT 62b

Possibly in:

- The steps that are 24 months old can be marked as 'obsolete' automatically:  
<https://savannah.cern.ch/task/index.php?27679>

Date	Status
13/03/2012	features definition freeze
16/04/2012	installation on development machine, tests will aim at stable system
18/04/2012	First pre-release on certification. Trunk freezes: only fixes allowed
19/04/2012	Last pre-release on certification. Last round of tests launched
23/04/2012	Release is created and installed in production setup



# v7r6

**Features to be included** with link to Savannah task if available, or with status

Need to be in:

LHCbDIRAC (tagged from the v7r5 branch):

- Fixes for DIRAC-RSS compatibility - on the branch and trunk, tagged: wo\_2012040301
- Templates update for production requests page update (see below) - on the branch and trunk, tagged: wo\_2012040301
- Fix for Failover upload log files - on the branch and trunk, tagged: wo\_2012040301
- run number to be added to ProdConf: <https://savannah.cern.ch/task/index.php?27671>

LHCbWeb: (tagged from the trunk of LHCbWebDIRAC):

- Discrete DQFlags in an input data request of a production request: <https://savannah.cern.ch/task/index.php?27712>

Date	Status
03/03/2012	features definition freeze
04/04/2012	First pre-release on certification. Branch freezes: only fixes allowed
04/04/2012	Last pre-release on certification. Last round of tests launched
05/04/2012	Release is created and installed in production setup

## Based on DIRAC v6r2:

# v7r5

**Features to be included** with link to Savannah task if available, or with status

Need to be in:

- Use of ProdConf: <https://savannah.cern.ch/task/?22861>
- Wider possibilities to concatenate steps in a request: <https://savannah.cern.ch/task/?27216>
- Two more options in the production step: <https://savannah.cern.ch/task/index.php?26793>  
<https://savannah.cern.ch/task/index.php?26794>
- Popularity for user jobs: <https://savannah.cern.ch/task/?26841>  
<https://savannah.cern.ch/task/?26836>
- StepAccounting: <https://savannah.cern.ch/task/?16839>
- Dual access to RSS and / or CS for Status ( Storage Element ) :  
<https://savannah.cern.ch/task/index.php?25481>
- Banning of SEs: <https://savannah.cern.ch/task/?17879>
- ParametricInputData for user jobs: <https://savannah.cern.ch/support/?127102>

Possibly in:

- Runs for BKK queries: <https://savannah.cern.ch/task/?27295>
- Porting SLS and ConditionDB tests to DIRAC: <https://savannah.cern.ch/task/?21239>
- Unify SLS Tables: <https://savannah.cern.ch/task/?27009>

Date	Status
16/03/2012	features definition freeze
19/03/2012	installation on development machine, tests will aim at stable system
22/03/2012	First pre-release on certification. Trunk freezes: only fixes allowed
29/03/2012	Last pre-release on certification. Last round of tests launched
02/04/2012	Release is created and installed in production setup

-- FedericoStagni - 16-Mar-2012

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This topic: LHCb > LHCbDIRACReleaseSchedule

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