Maintenance & Operation

Software, Computing Physics Analysis

	Dec	Fullsim (CMSSW2.2.x), then Fastsim
	Jan	Release CMSSW3_0 (limited validation, step towards 3_1)
Install ES1	**Feb**	End-Feb: Input for 3_1: CRAFT, Trigger Reviews etc.
Install ES2	**Mar**	**Release CMSSW3_1 (LHC Startup)**
Tracker Cooling Plant Operational	**Apr**	Full validation of 3_1 (incl. production and physics)
	May	Start Fullsim production 3_1
Close CMS Contingency on closure or CRAFT	**Jun**	Deploy 3_1 widely CMS gets familiar with 3_1
CRAFT **CMS READY for Beam**	**Jul**	Start Fastsim **CMS READY for Beam**
	Aug	
	Sep	

Draft "DAQ" Plans

"DAQ" activities

Resume activities at P5
Request for final CMSSW 2.X.X release
online release (includes all know fixes)
3.0 release **without** DAQ components
ransition to gcc4/SLC5: start testing 3.0

DAQ input to 3.1 (XDAQ etc.)
Test 3.1.X final release
Deploy 3_1 in Online Farm

CRAFT

READY for Beam

Jan
Feb
Mar
Apr
May
Jun
Jul
Aug

Software, Computing & Physics Analysis

Release CMSSW3_0
(limited validation, step towards 3_1)

End-Feb: Input for 3_1:
CRAFT, Trigger Reviews etc.

Release CMSSW3_1 (LHC Startup)

Full validation of 3_1 (incl. production and physics)

Start Fullsim production 3_1

Deploy 3_1 widely
CMS gets familiar with 3_1

Start Fastsim

CMS READY for Beam

Trigger

Software, Computing Physics Analysis

	Dec	Fullsim (CMSSW2.2.x), then Fastsim
3.0 Production for testing Review Menu	Jan	Release CMSSW3_0 (limited validation, step towards 3_1)
Finish Trigger Reviews **Validate Review Menu w/3_0** Submit final changes in RM for 3_1	Feb	End-Feb: Input for 3_1: CRAFT, Trigger Reviews etc.
Deploy 3_0 in Online Farm Run Review Menu w/3_1	Mar	**Release CMSSW3_1 (LHC Startup)**
Run Review Menu in Hilton w/3_1 Use Review Menu in GRs, CRuZeT	Apr	Full validation of 3_1 (incl. production and physics)
Trigger Validation of 3_1 Deploy 3_1 in Online Farm ın Review Menu in Online Farm w/3_1	May	Start Fullsim production 3_1
Physics Feedback on Review Menu	Jun	Deploy 3_1 widely CMS gets familiar with 3_1
Run Trigger in CRAFT **Trigger READY for Beam**	Jul	Start Fastsim **CMS READY for Beam**
	Aug	
	Sep	

Goals for CMSSW_ 2_2_x

- 2_2_0: Reprocessing of CRAFT and CRUZET (started)
  - involves a complete re-reconstruction at Tier-1s, including DQM, AlCaReco and skims
- 2_2_x: Re-digi and Re-reco of Summer'08 MC data
  - Improved reconstruction algorithms (Particle Flow)
- 2_2_x: Fast Simulation production (800M)
  - Many new features + latest PFlow, special RelVal samples helping validation
  - 'Good to excellent' agreement with FullSim, looking at a few remaining issues *
- Workflow for PAT-tuple production integrated for use in both the above *
- 2_2_x: Final reprocessing of CRAFT data with refined calibration and alignment constants (end Jan 2009)
- 2_2_x: production of MC cosmic samples with 2008 detector conditions - dead channels etc. (end Jan 2009)
- 2_2_x_ONLINE (end Jan 2009): for potential use in first mid-week global runs in 2009

CMSSW_3_0_x

- Originally foreseen as 2009 data-taking release
- Includes improvements in all CMSSW components e.g.
  - FullSim: geometry fixes, geometry DB, integration of forward detectors, Data Mixer, performance improvements
  - Reconstruction: tracking and muon algorithms, e/γ identification, Particle Flow, better handling of dead/hot channels in calorimeter
- Includes integration of new Geant4 release (available Dec 19th)
  - many improvements that give better agreement with testbeam data
    - EM and Hadronic physics processes, multiple scattering, hadron bremsstrahlung etc.
  - better performance - cpu improvement of ~10%
- Includes integration of new ROOT release (available Dec 18th)
  - Includes schema evolution, integration of CINT with Reflex
- Preparation of migration to SLC5
  - focused on validating slc4_ia32_gcc345 applications run on SLC5
  - also validating gcc4.1.2 on SLC5 - required to support CMS Online transition to SLC5 - need to be provided with a compliant version of xdaq

CMSSW_ 3_0_x

- 3_0_x is a special release mainly focused on validation of ROOT, GEANT4 and SLC5 (+ CORAL/POOL/Boost..)
- Will involve making regression tests with old and new versions of ROOT, GEANT4, as ewll as various SLC4/SLC5 + compiler combinations
- Goal is to support validation efforts without having to deal with production goals…
- .. and to produce a stable base for further development
- Deadline for new features is Dec 15th
- Aiming to have a stable release available for validation by mid-January.

Release 3_1_x

- THE release for 2009 data taking
- Allows more time for integrating improvements and fixes resulting from :
  - Feedback from analyses of re-processed CRAFT data
  - Latest improvements from POG's
  - Improvements in PAT resulting from analyses made with 2_2_x
  - Inputs from the on-going Trigger/Physics Reviews
- Final deadline for changes is February 28, 2009
- This release will need full validation to become production-ready and widely deployed
- Production release expected end of March

MC Production

- **Full Validation including pre-production period:**
  - **1 Apr - 30 Apr**
- **Full Simulation MC Production**
  - **15 May - 15 July 2009**
- **Fast Simulation MC Production**
  - **Starting 15 July**