



CMS Production NCP Status

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Current Hardware Resources

- CMS Production Setup
 - Local Farm
 - 08 CPUs dedicated
 - LCG Node
 - Currently 05 CPUs, 01 CPU being used
 - 20 more High End Branded CPUs have been ordered for LCG Node



Current Connectivity

- Currently using 128 Kbps off shore facility for the LCG Node
- 512 Kbps coming soon to NCP Premises



Current Manpower

- Currently two people are working
 - Usman Ahmad Malik
 - Regional Centre Manager
 - Ateeq Haider Baig
 - NCP Production Centre Manager
- Two more people to be added soon
 - Hiring underway

Current Software

■ Local Farm

- CMKIN 3_2_0, 4_1_0, 4_4_0
- OSCAR 3_6_5
- ORCA 8_7_1
- COBRA 7_8_5
- McRunJob fin_050211b
- Shahkar 2_5

■ LCG

- McRunJob fin_050211b
- Shahkar 2_5
- COBRA 7_8_5



CMS Production at NCP

- Total events produced by Pakistan **1.38M**.
- NCP's share in these produced events is **0.956M**.
- Total data generated corresponding to these events is almost **280GB**.
- Data produced by NCP is almost **170GB**.
- All **280GB** has been uploaded back to CERN.

CMS Production at NCP

- Resources (CPUs+Storage) dedicated to CMS by NCP and other PCs are:

Production Centre	CPUs	Storage (TB)
NCP	08	0.64
NUST	08	0.60
PAEC-I	14	0.32
PAEC-II	14	0.952
PAEC-III	05	0.38
TOTAL	49	2.892



Events Produced (Summary)

Production Centre	GEN. K	SIM. K	Digi w/o PU K	Digi with PU/Hit K
NCP	715.7	204.7	10	21.8/4.5
NUST	50.1	20.1	--	--
PAEC-I	93.7	53.7	10	35/--
PAEC-II	30.1	10.1	--	--
PAEC-III	34.2	44.2	10	10/4
TOTAL	930.30	332.80	30	66.8/9.5



Events Produced (Summary)

Events	NCP	PAEC- I	PAEC- II	PAEC- III	NUST
Test	338.7K	38.9K	40.2K	86.4K	70.2K
Real	618K	153.5K	--	16K	--



Production at LCG at NCP

Events	Assigned (Million)	Produced & Updated (Million)
CMKIN	7.14	4.3
OSCAR	5.14	Started Running



Certification Authority (CA)

- Sajjad Asghar & Usman Ahmad Malik are managing the operation of PK-Grid-CA
- Issued user and host certificates to almost all Production Centres
 - NCP (Two User Certificates)
 - Ateeq Haider Baig & Usman Ahmad Malik
 - PAEC-I (Two User and Two Host Certificates)
 - Naheed Batool, Asif Osman, CE, and SE
 - PAEC-III (One User Certificate)
 - Imtiaz Ahmed Sajid
 - NUST (One User Certificate)
 - Adeel Zafar



Bottlenecks

- High speed network at NCP Premises (coming soon)
- Installation of CMS software at NCP LCG Node