

IRFU SITE REPORT

Pierrick Micout
CEA/DSM/IRFU/SEDI

WHAT'S NEW IN IRFU SACLAY SINCE 2013?

- Apache
- Networking
- CC-IN2P3
- IRFU Grif sub-site
- IRFU local computing
- Windows news
- News on the infrastructure

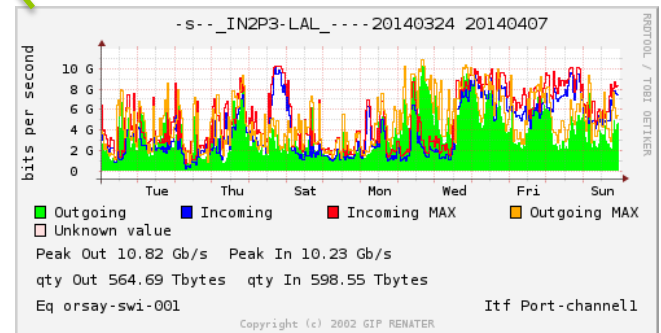
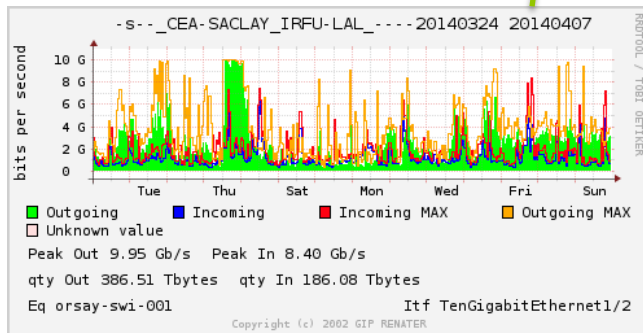
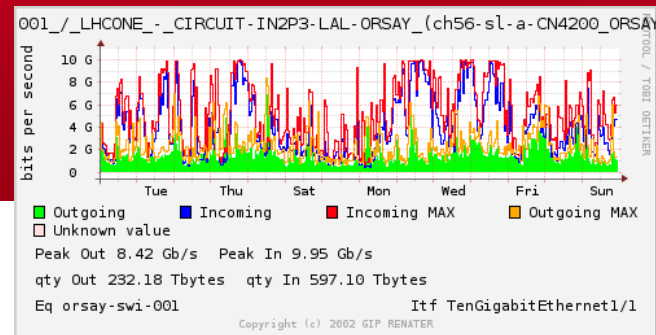
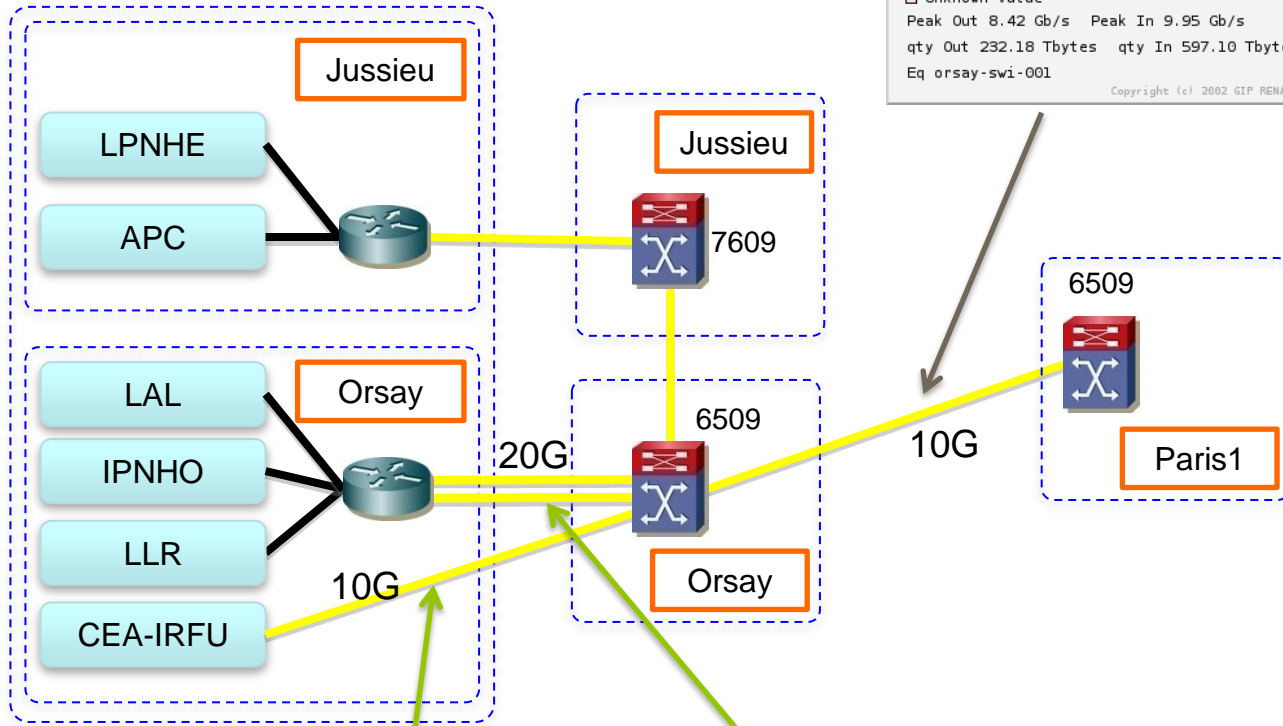
APACHE: THE NEW CEA SECURITY SCHEME

- It has been decided to enforce the security on the CEAnet network (see the presentation of Joël SURGET later this week).
- First impact on Windows servers and clients on the internal network!

- Eduroam available on the CEAnet WiFi network for external users.
- Also available for CEA users from external sites but not in Saclay !

- Some work on the LHCOne link ...

GRIF - Distributed T2



CONVENTION WITH IN2P3

- The convention between DSM, IRFU and IN2P3 has been signed !
- Since 1993 the CC-IN2P3 is the main computing center used by the HENP community of searchers of IRFU!



- **New computing resources :**
 - 7 DELL C6220 : Intel(R) Xeon(R) CPU E 52 670 with 64 gbit memory
- **New storage facilities :**
 - 19 DELL PowerEdge R720xd
 - 12 disks 3TB per server
- **New machines for Grid services:**
 - 5 DELL R 610
 - 2 DELL R 720XD for database service

- Migration from Quattor based installation to Puppet (see the presentation of Frédéric Schaer).

- Installation of a new cluster “Synergium-Intensité” :
 - . Computing on accelerator cavities
 - . 256 computing cores
 - . Infiniband network
 - . 30 Terabytes storage

- Windows 8.1 clients by default!
- Windows 7 (64 bits) supported
- Update of Hyper-V cluster (news servers)
- Windows XP machines on a restricted network!

NEWS ON INFRASTRUCTURE

- Third “water cooled” room installed :
 - . New racks
 - 5 new 20 KW racks (schroff LHX20) in 2013
 - 4 * 40 KW racks (schroff LHX30) in 2014
 - 6 more next year
 - . + **220 KW** Water cooled in 2013
 - . + **220 KW** in 2015
 - . Need to update the low voltage panel of building :
 - new 400 A module in June
 - New 600 A low voltage panel next year
- Backup : New Robot *Oracle SL 3000*
 - . 4 LT06, 1 LT04
 - . 500 slots