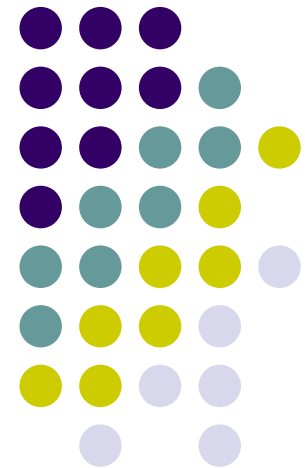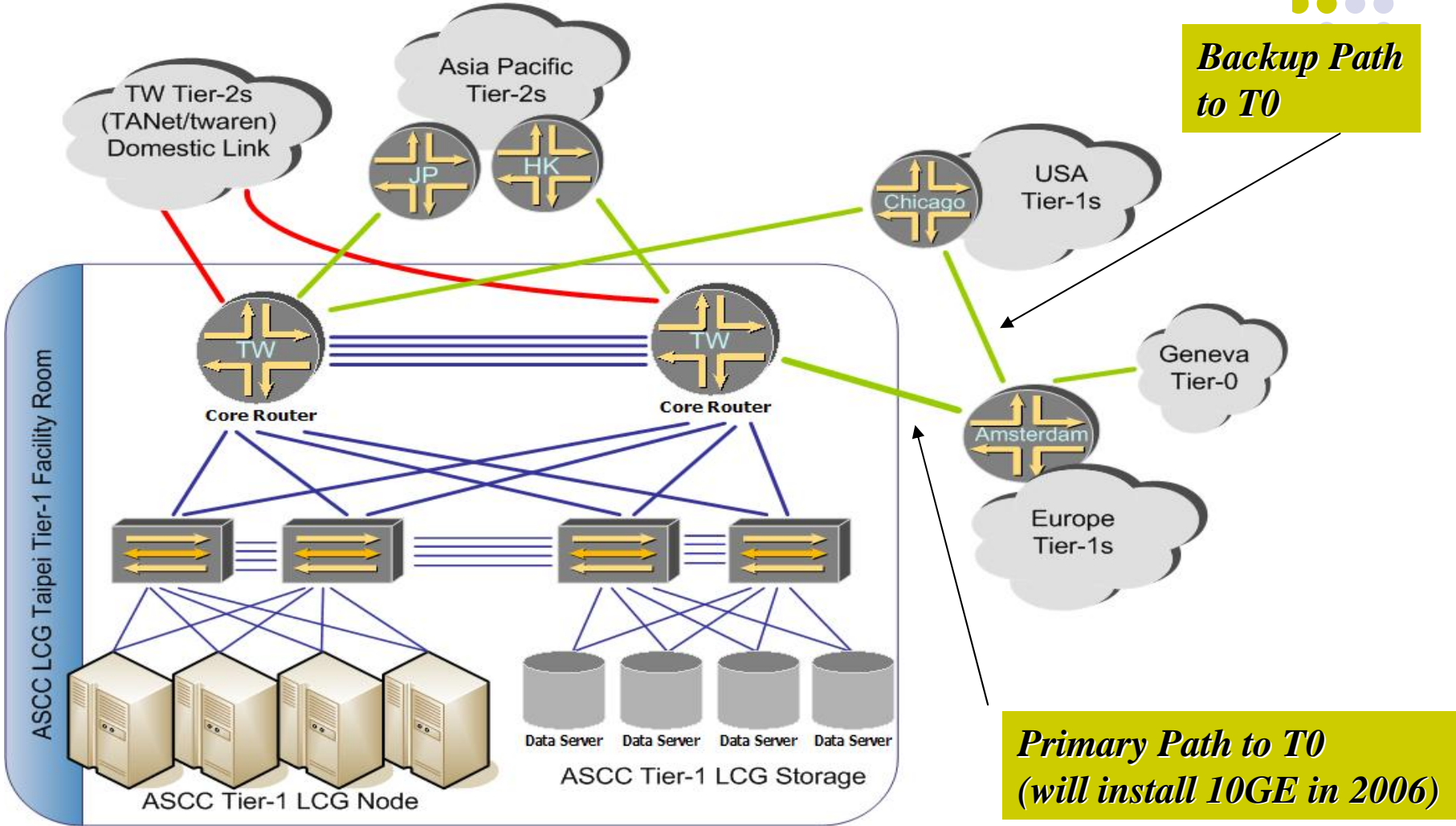# ASCC Site Report

Eric Yen & Simon C. Lin

Academia Sinica
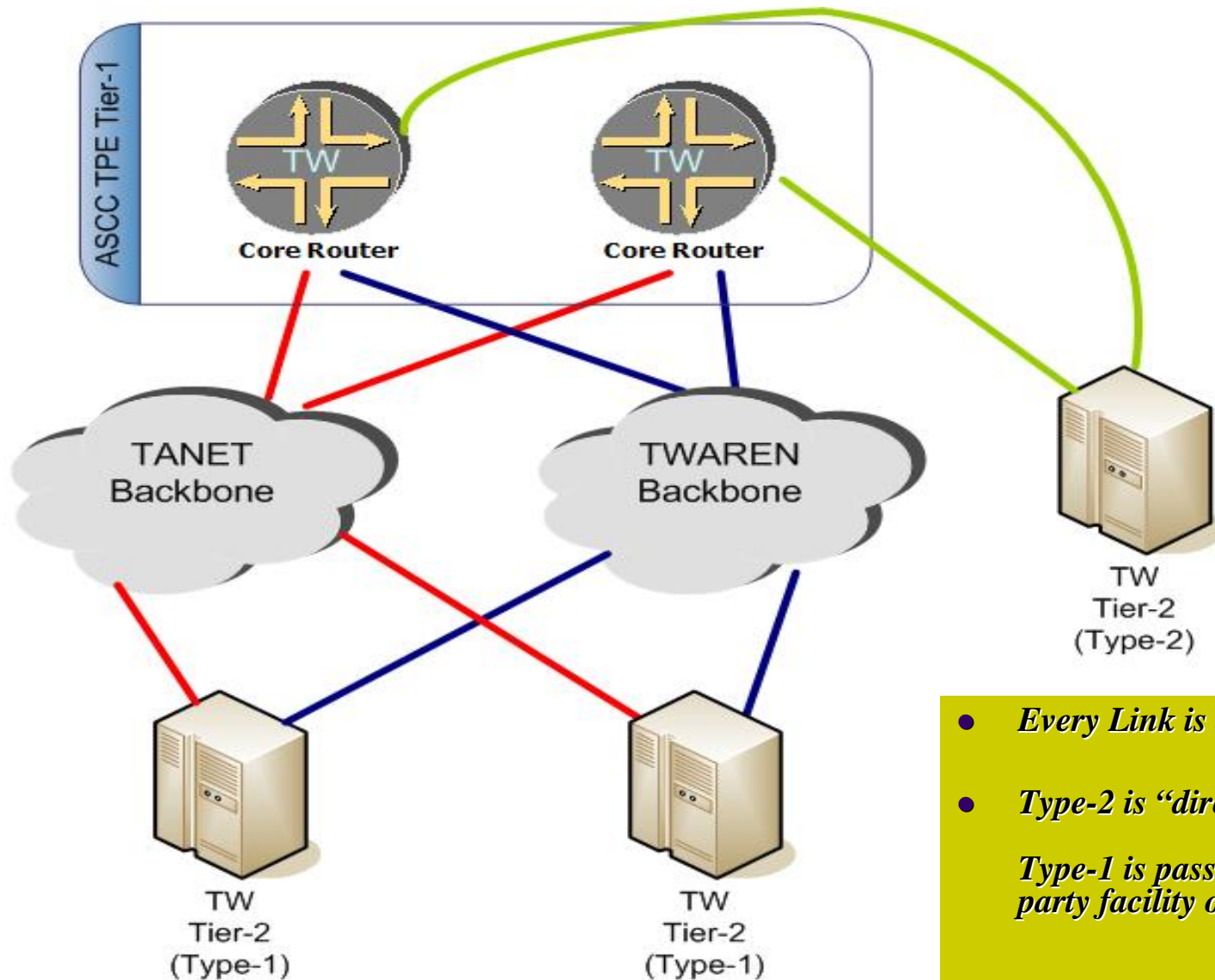
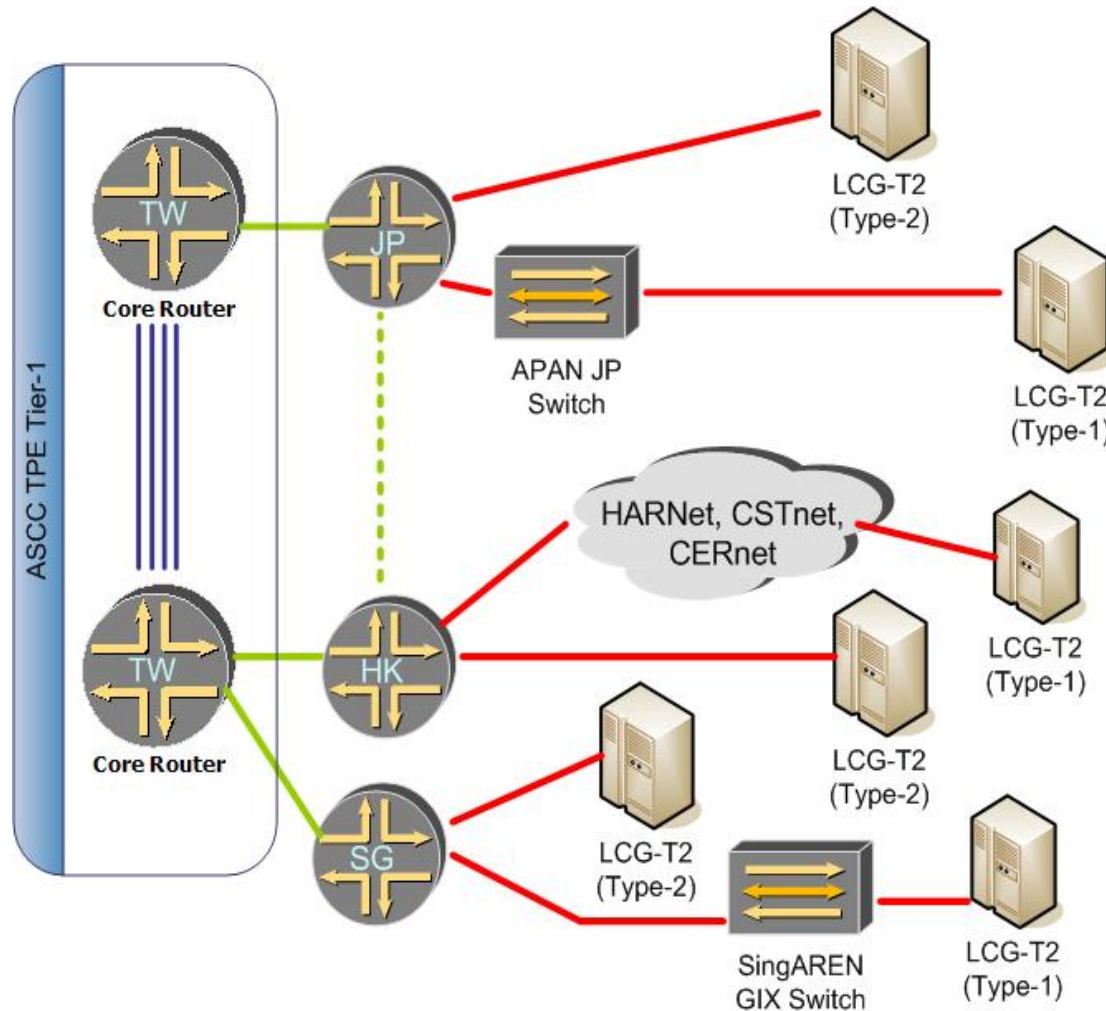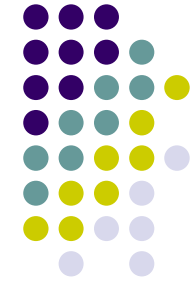GDB@CERN, 20 July 2005

Plan for Taiwan Tier-1 Network

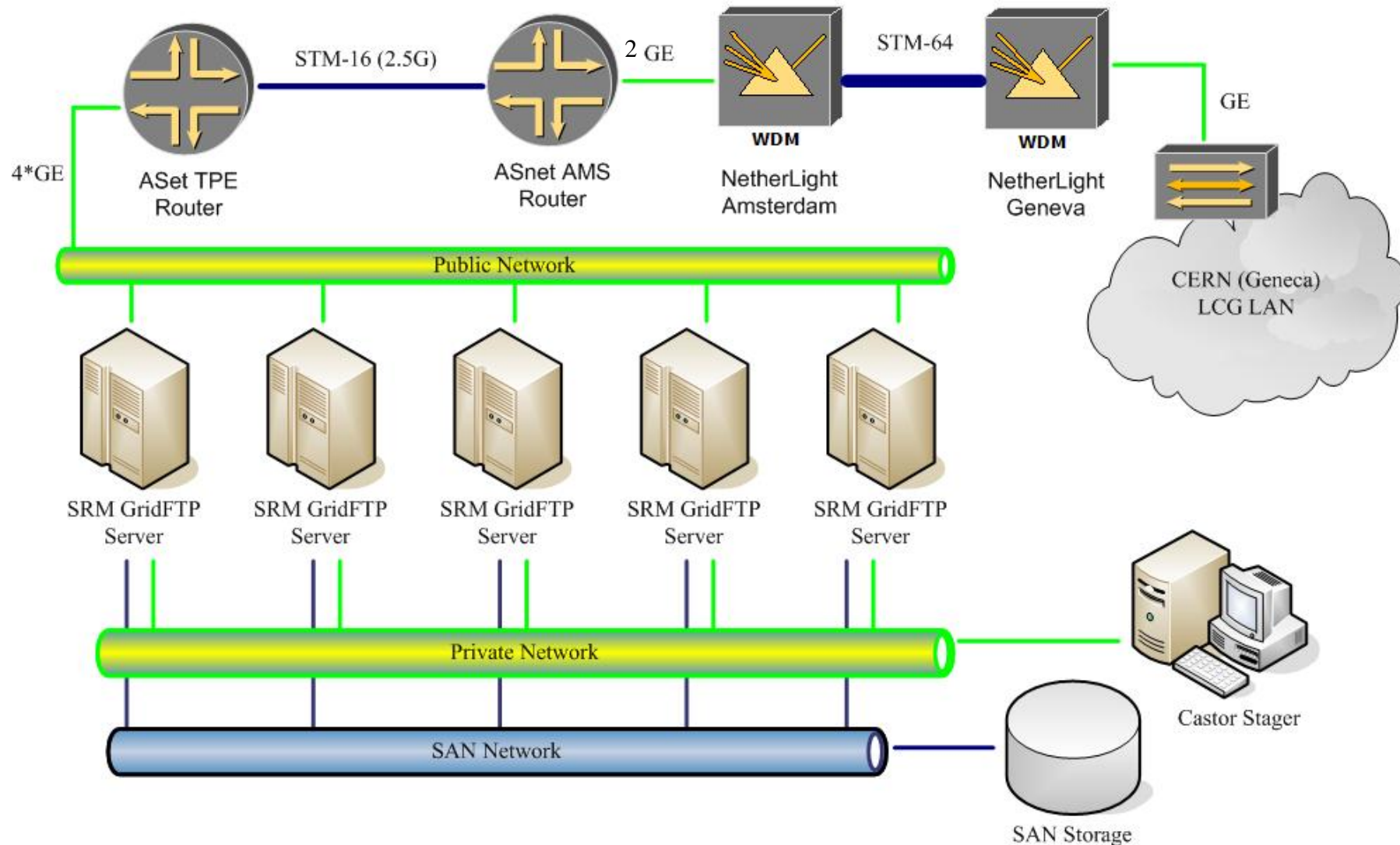# TW LCG Domestic Network (current)

- *Every Link is already 10GE*

- *Type-2 is "direct-connect"*

  Type-1 is passing through 3rd party facility or 3rd party network

AP Regional LCG Network (proposed)

- **Solid lines between routers (circle) and switches (box) and networks are already exist.**

- **Solid lines between T2 and routers /switches /networks are already exist and/or proposed.**

- **Dashed line are currently planned by ASnet and will be installed in 2006.**

- **Type-2 is "direct-connect"**

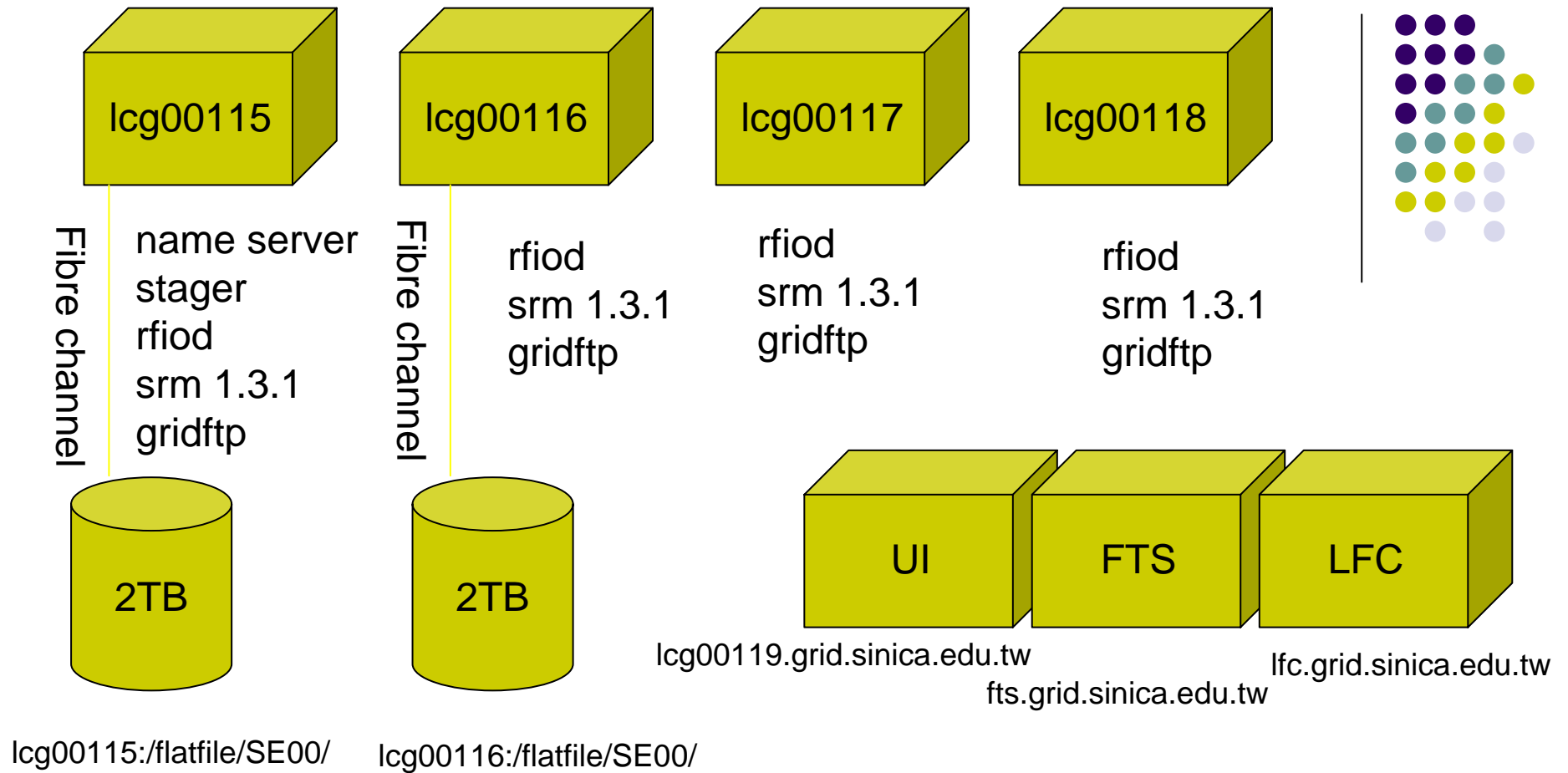 **Type-1 is passing through 3rd party facility or 3rd party network**

SC test bed @ ASCC

Tier-1 ASCC Taipei

- User Interface (for CMS PhEDEx)
- File Transfer Service
- CASTOR
  - Software installation(lcg00115, lcg00116, lcg00117, lcg00118)
    - gridftp ready
    - rfio ready
    - srm installed
  - Hardware installation
    - 4TB Storage Resource available
    - No Tape library available at this moment
  - namespace
    - /castor/grid.sinica.edu.tw/sc3/

lcg00115

lcg00116

lcg00117

lcg00118

Fibre channel

name server
stager
rfiod
srm 1.3.1
gridftp

Fibre channel

rfiod
srm 1.3.1
gridftp

rfiod
srm 1.3.1
gridftp

rfiod
srm 1.3.1
gridftp

2TB

2TB

UI

FTS

LFC

lcg00119.grid.sinica.edu.tw

fts.grid.sinica.edu.tw

lfc.grid.sinica.edu.tw

lcg00115:/flatfile/SE00/

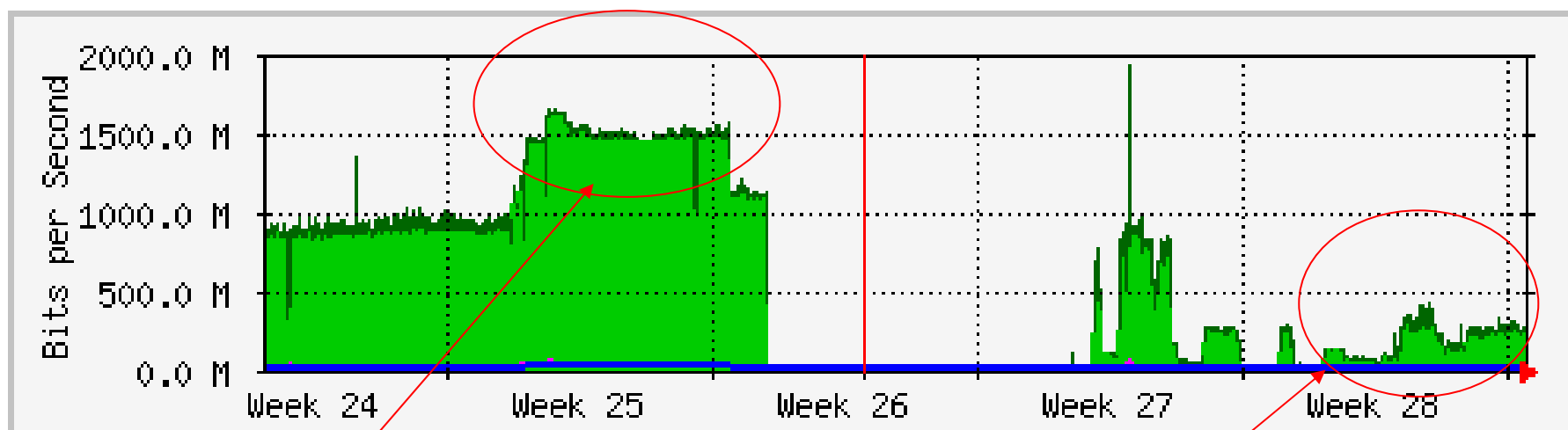lcg00116:/flatfile/SE00/

Note:
 Stager server@lcg00115 will manage following disk pool
      lcg00115:/flatfile/SE00   2TB   disk array
      lcg00116:/flatfile/SE00   2TB   disk array
      lcg00117:/flatfile/SE00   nx250G   local disk
      lcg00118:/flatfile/SE00   nx250G   local disk
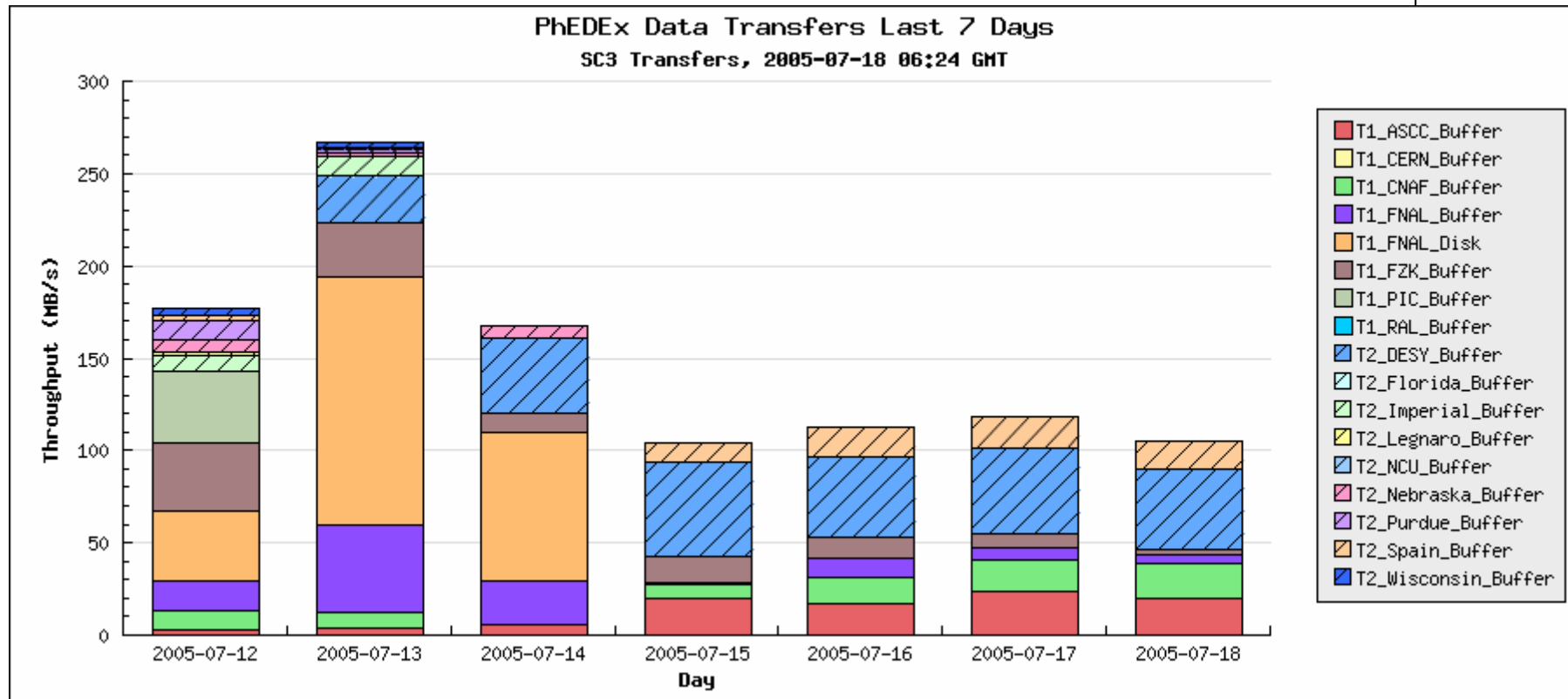
Data Transfer Test

Monthly Graph

Iperf test – reach to 1600Mbits

FTS / CMS data transfer – functionality test
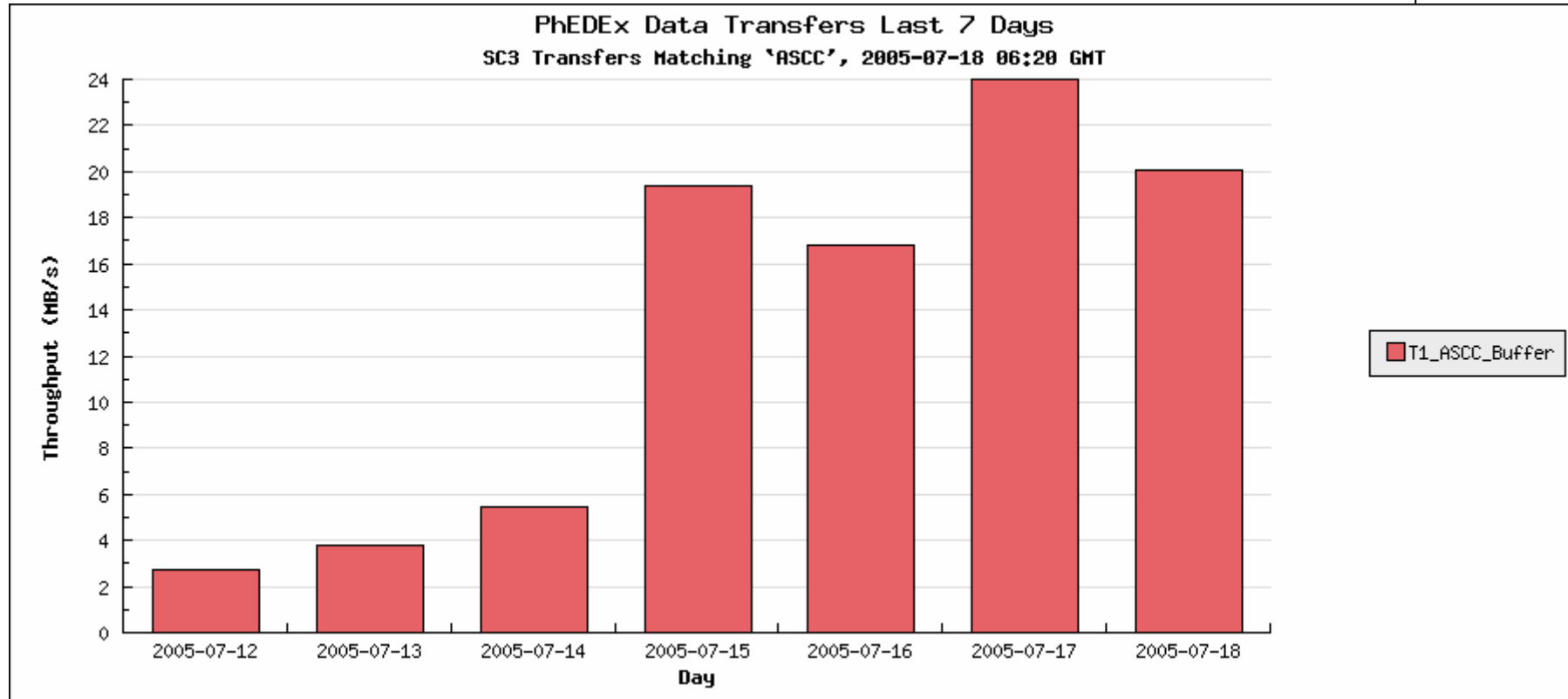Gridftp work, but some problems with SRM
(Solved early this week)
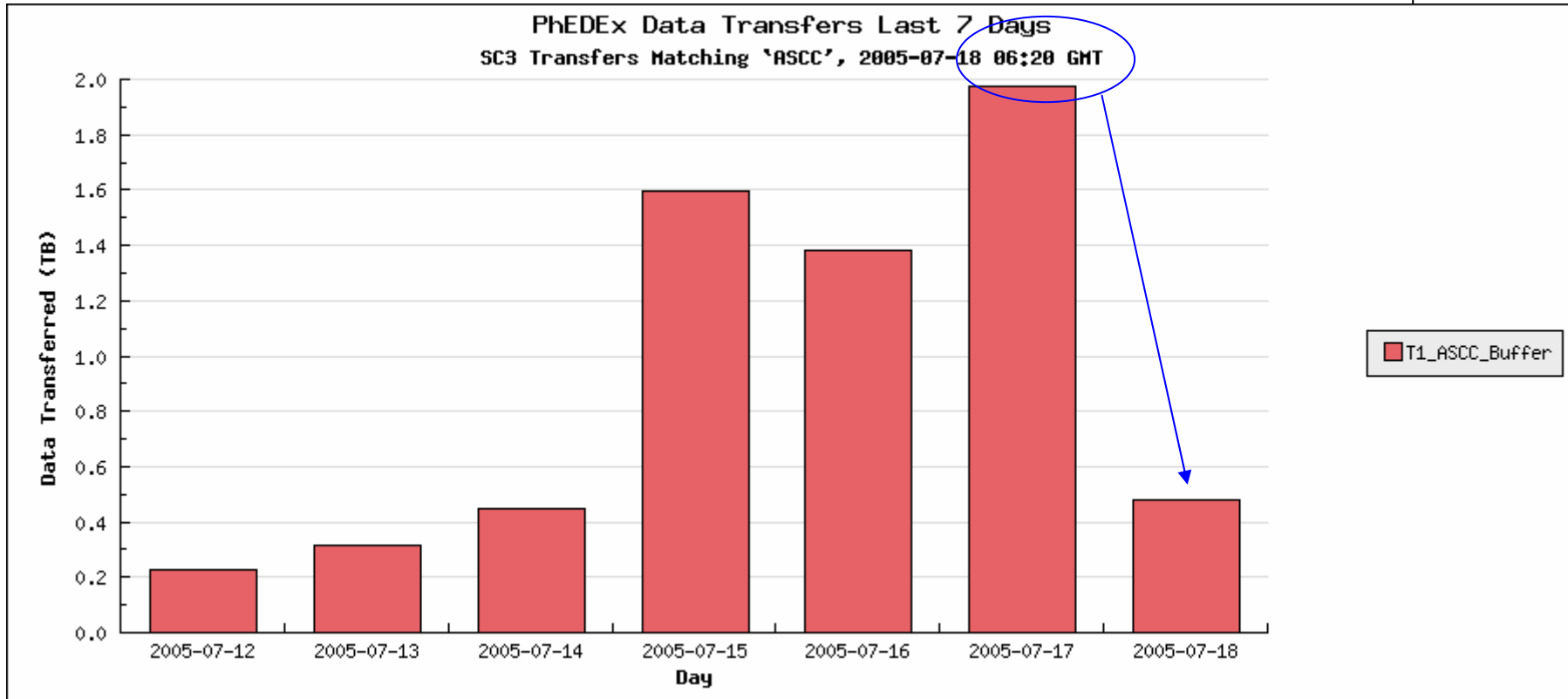
PHEDEX (Successful) Transfer Rate

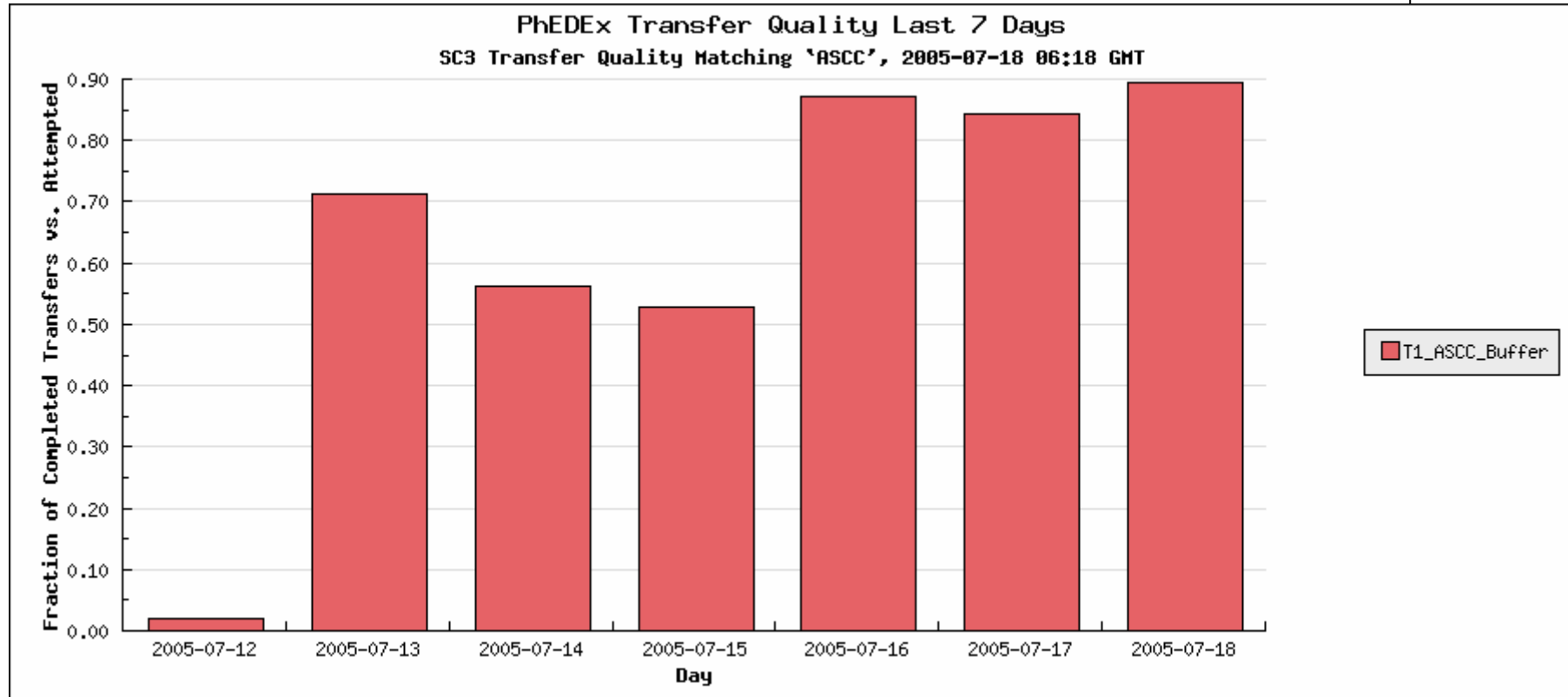Castorgridsc → All sites

Castorgrid → All sites

PHEDEX (Successful) Transfer Rate

Total amount of data successfully transferred

PHEDEX Transfer Quality

Summary

- Functionality testing is good. Need to find out the baseline parameters.
- Not enough storage space with SRM.
  - Only one box is used for SC between CERN and Taiwan
  - How much storage space is needed for SC? Will have 6 TB this week, and 10TB by September.
  - Should the production resources could be integrated for SC? The Tape Library will be used.
- Resource Contention of Experiment and the general SC
- Improve the utilization of bandwidth
- Procurement of more storage is underway
- Preparation for ATLAS, CMS SC, and other AP T2 sites