

RC, Network and Grid Plans in Japan

I. Ueda

ICEPP, University of Tokyo



LCG Workshop, 13 mars 2002

Regional Center plan in Japan

- Tier1 at ICEPP, U-Tokyo
 - ATLAS specific
- Hardware Installation Plan
 - mini-farm: 2001 – 2002
 - Pilot model: 2003 – 2004
 - Full system: 2005 (possible delay due to LHC delay)
- Software for farm management and run
 - Not yet in use

Current Planning of Hardware for Tier-1 RC

Preliminary

	2002	2003	2004	2005
cpu	80 → 160 PIII 1.4GHz	14kSI95	28kSI95	200kSI95
disk	3TB	25TB	50TB	400TB
tape	8TB	50TB	100TB	1PB

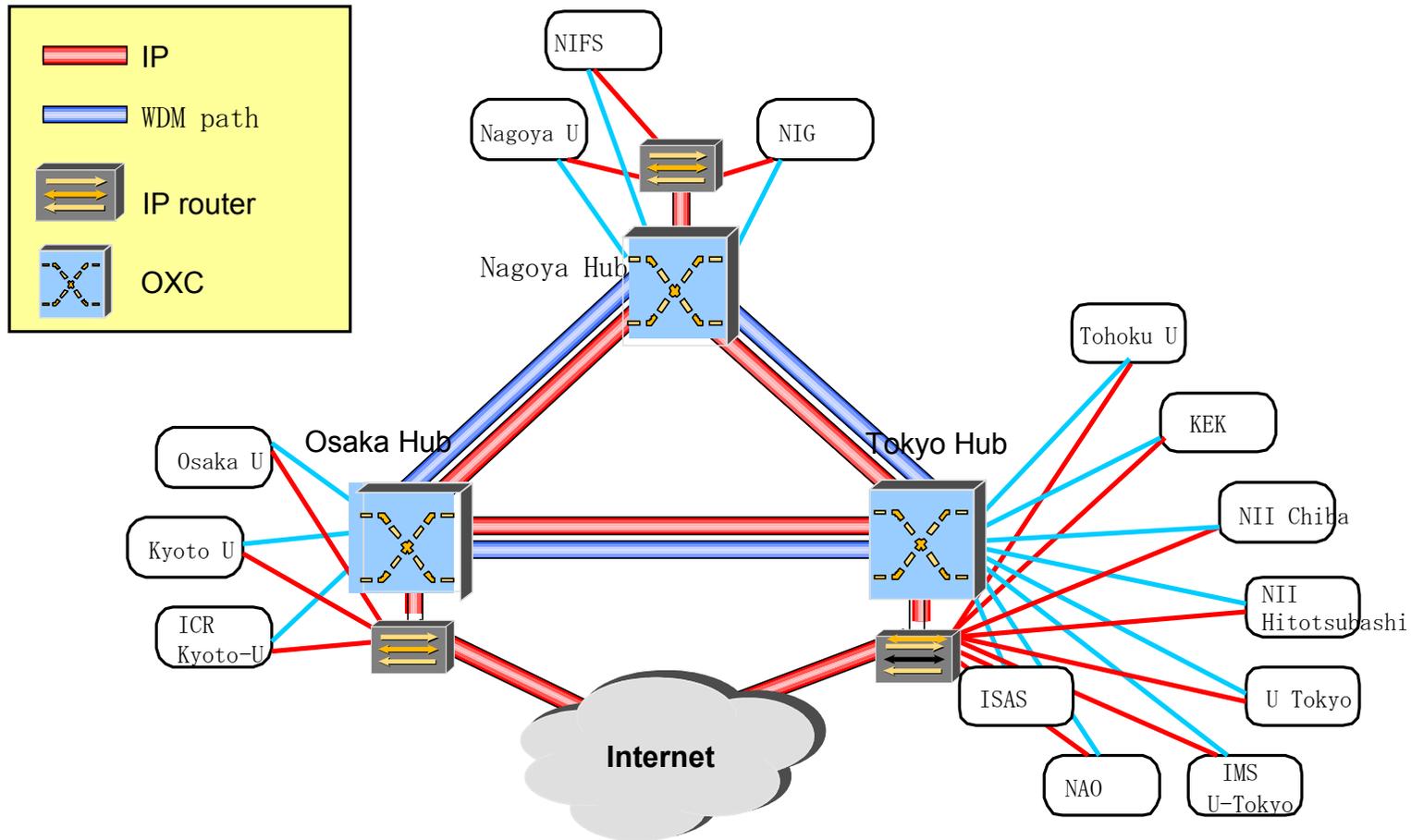
Network

NII (National Institute of Informatics) plans

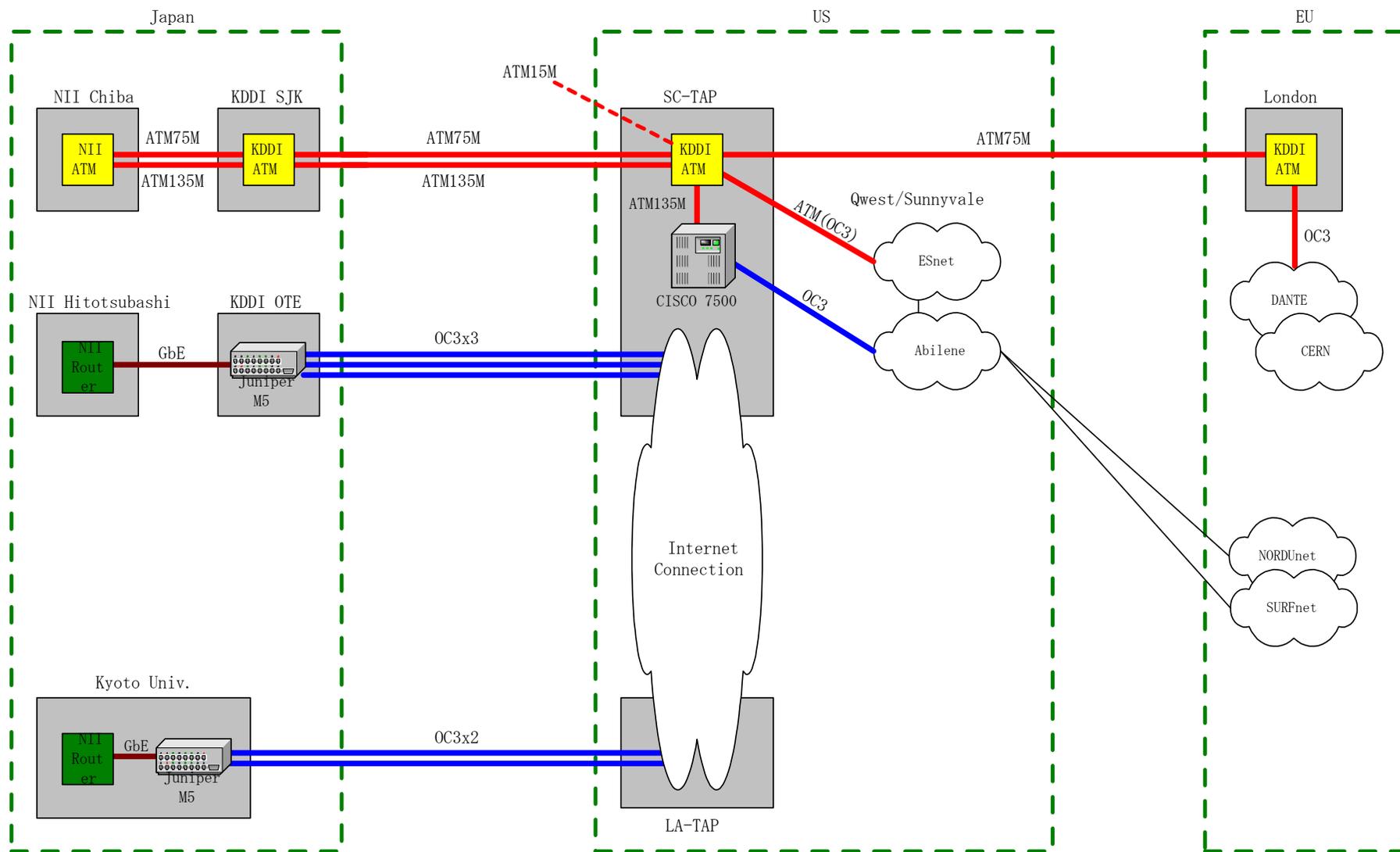
- Domestic : SuperSINET
 - 10 Gbps backbone
 - eg. KEK–Tokyo, 1 Gbps(2002) – 10 Gbps (2003)
- International :
 - to US: 3x75Mbps (currently), 2 Wavelengths (WDM) to west coast (2003), ~2Gbps
 - to Europe: via US

SuperSINET

As of 2002.1.1



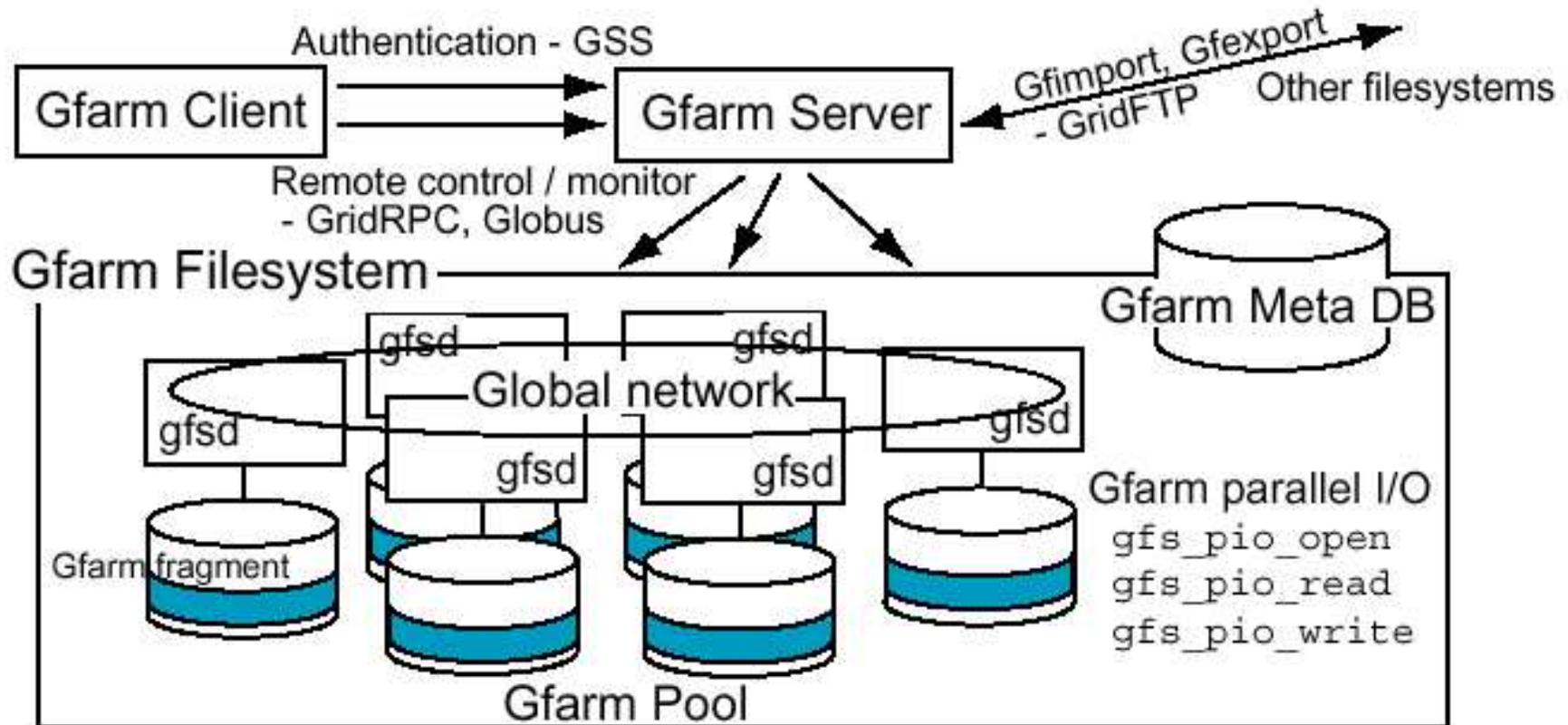
NII's US/Europe link as from Jan. 2002



Grid activities and plans

- HEP GRID deployment planning in Japan
 - Fabrics at KEK and Tokyo
 - Joint R&D
 - No CA in service, setup local one when needed
- Involvement in Japanese GRID activity
 - [Gfarm](#) (TITECH/AIST/KEK/U-Tokyo)

Grid Data Farm (Gfarm)



Distributed Data Parallel Filesystem