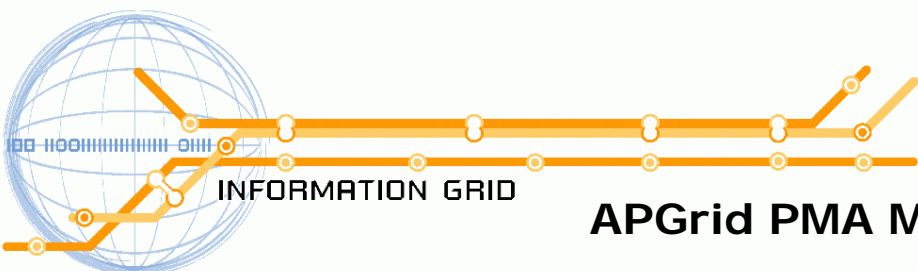


NECTEC GRID CA

Sornthep Vannarat
NECTEC

About NECTEC

- National Electronics and Computer Technology Center
- Government Research Institute
- Under National Science and Technology Development Agency (NSTDA), Ministry of Science and Technology
- Missions:
 - Research, development, design, and engineering of Electronics and ICT technologies
 - Technology transfer to industries
 - Human resources development for Electronics and ICT technologies
 - Technology-related infrastructure and policy development



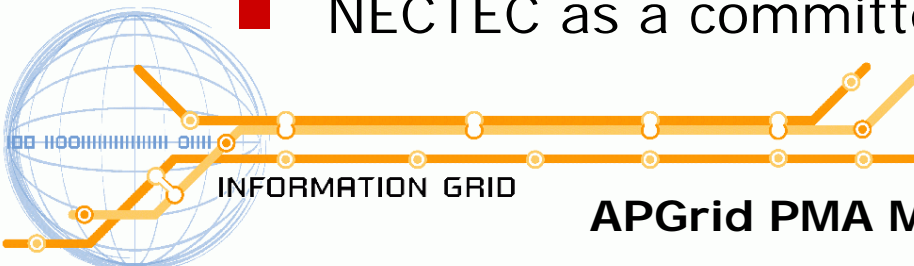
Grid Computing in Thailand

□ Thai Grid Group

- Started Dec. 2000
- Build researcher community for Grid applications
- Create Grid Computing infrastructure
- Lead by Kasetsart University and members include NECTEC

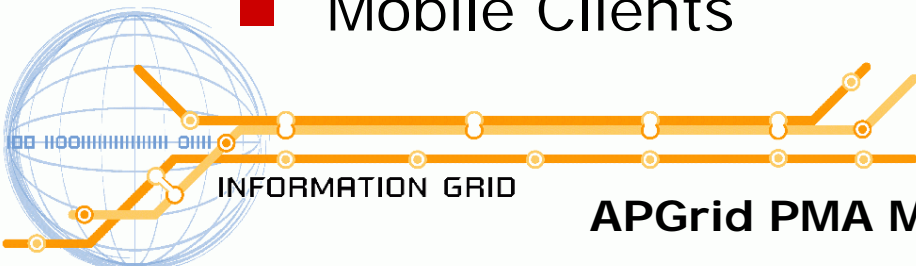
□ National Grid Project

- Proposed by KU's HPCNC to Min. of ICT. in 2004
- Approved with ~ \$US 5.5 M in 3 yrs
- Starting October 2005
- NECTEC as a committee member



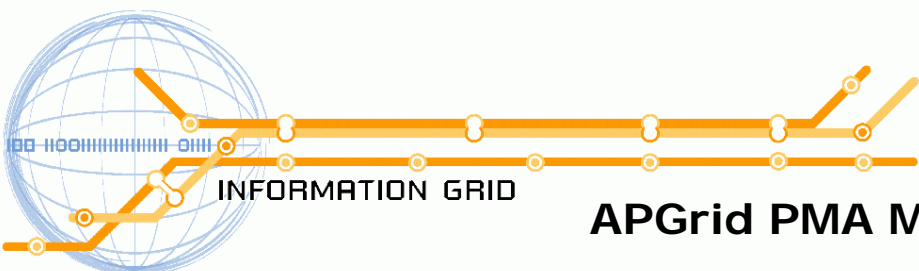
NECTEC Grid Infrastructure

- ❑ Main Cluster Computer
 - 32 node Rocks Cluster
 - 3.2 TB storage
 - ~200 GFlops
- ❑ Grid supporting systems
 - MDS (GT4 starting in Jan 2006)
 - Resource Broker (Starting in Apr 2006)
 - CA system (Started in July 2005)
- ❑ Access Grid System
 - Venue server
 - Bridge server
 - Mobile Clients



Assumptions

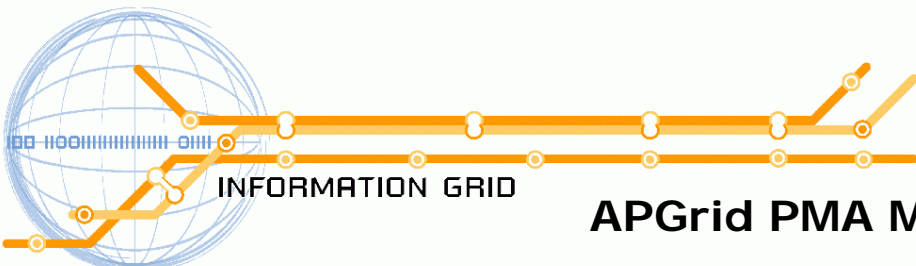
- ❑ Grid Computing Sites ~10x
- ❑ Number of users: ~100 or 5/month
- ❑ Number of transactions: 5/week



NECTEC-Grid CA Team

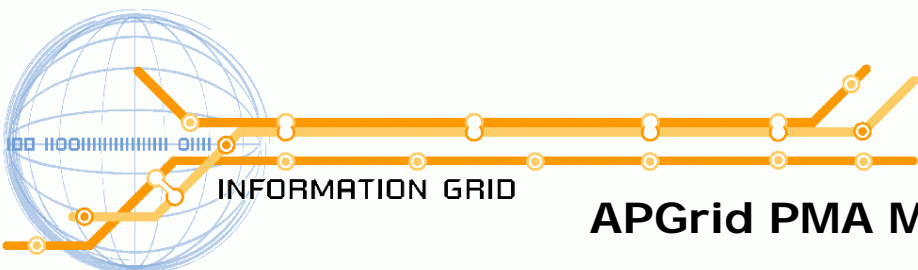
- Piyawut Srichaikul (Division Director)
 - Sornthep Vannarat
 - Supakit Prueksaaron
 - **Suriya Uruekolan (main CA developer)**
 - Pitsanu Laosangpha

Staff	Roles					
	PMA	User Admin.	RA	IA	OS	Help Desk
Piyawut	x	x				
Sornthep	x	x	x			x
Suriya		x	x	x	x	x
Supakit					x	
Pitsanu					x	

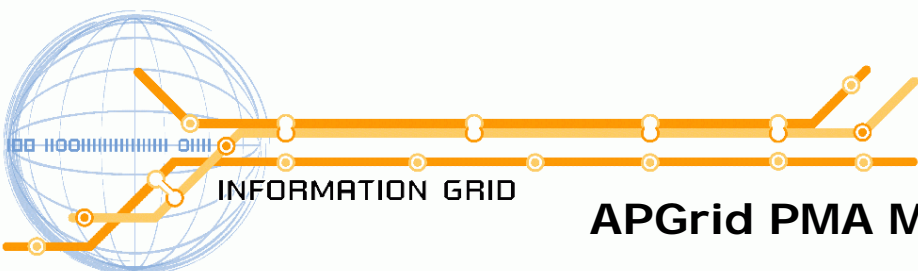
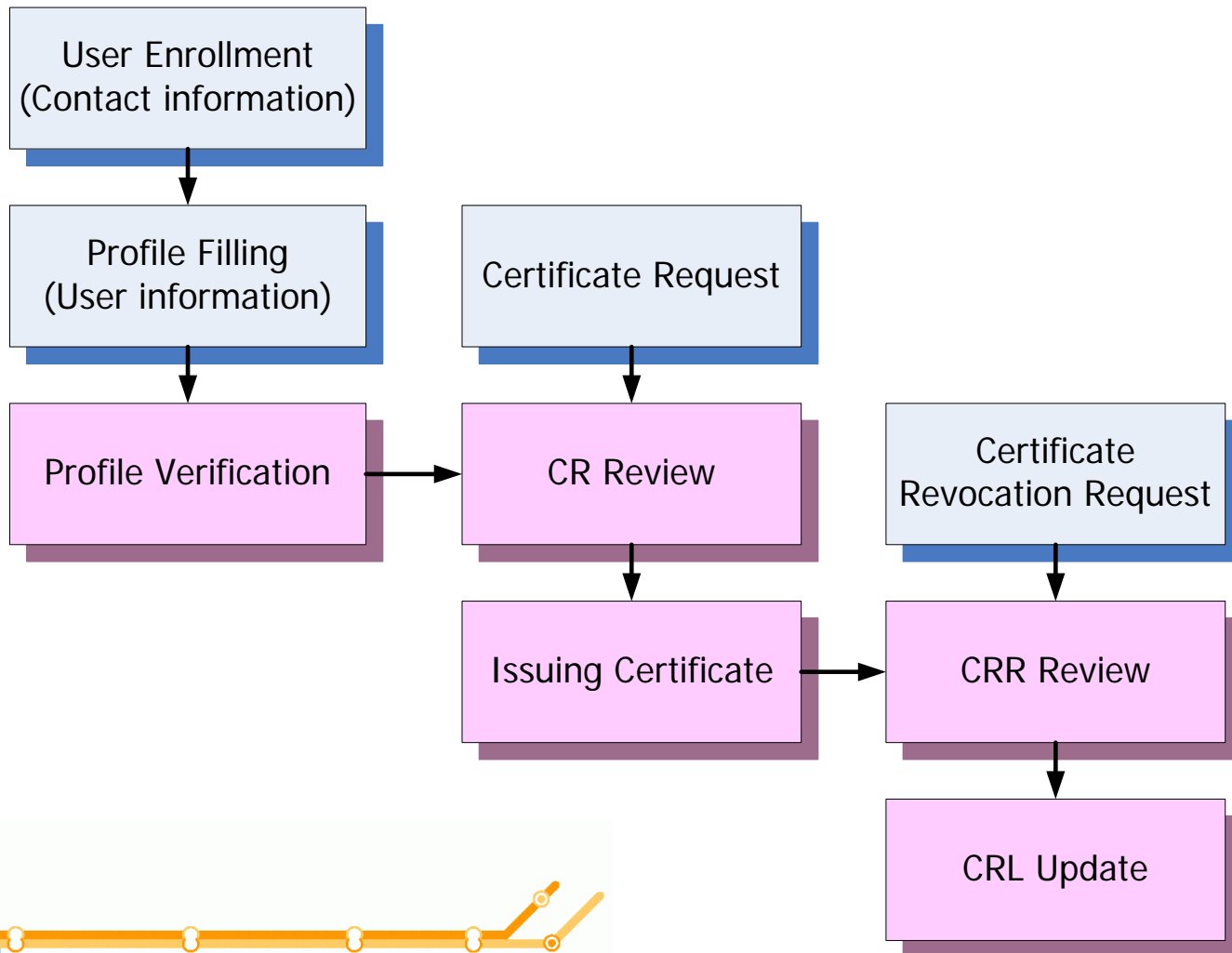


Hardware & Software Stack

- ☐ Pentium4 3.0GHz, RAM 512MB, RAID1 SATA 120GB
- ☐ Slackware10.1
- ☐ OpenSSL 0.9.7e
- ☐ MySQL 4
- ☐ PHP5 + CMS
- ☐ Logging systems
 - Unix Log is recorded in a separated system
 - MySQL + Apache logging system to be developed
- ☐ Backup system to be developed

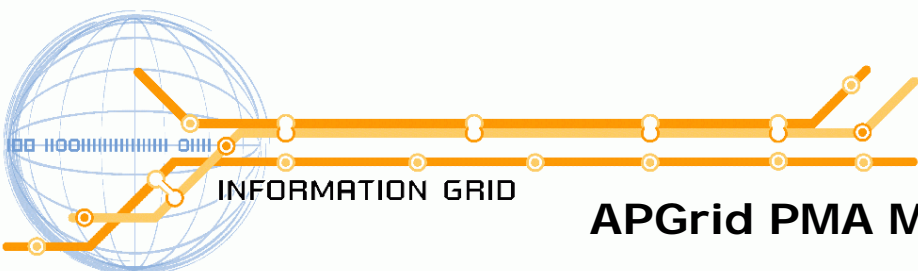


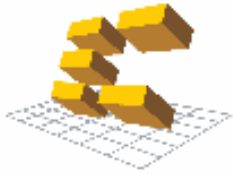
RA+CA Operation



Current status

- CA is relatively developed
- RA still need significant improvement
 - User information verification and management
 - User official document management





NECTEC-GRID Certificate Authority

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Welcome to NECTEC-GRID Certificate Authority

NECTEC-GRID Certificate Authority provides X.509 certificates to support GRID Computing Research and Development.

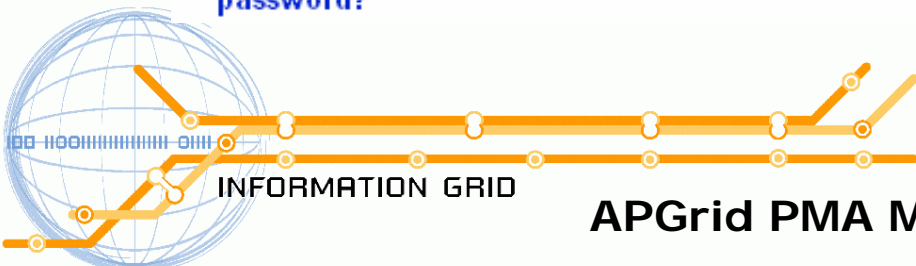


We issue :

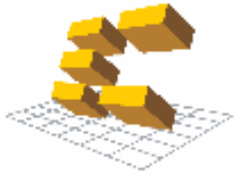
- Grid Computing Certificates
- Access Grid Certificates

NECTEC-GRID Certificate Authority is operated by Computing Research and Development Division ,National Electronics and Computer Technology Center.

Last Updated (Thursday, 24 November 2005)



APGrid PMA Meeting, Nov. 2005, Beijing



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All fields are required. Support Host and Service Certificate (eg.FTP or LDAP).

Grid Service Certificate Request Form

Fully Qualified Domain Name :

Organization :

Certificate Type : ☒ Host Certificate
☐ Service Certificate

[Submit Request](#)

