



Introduction of IHEP and IHEP GRID CA

Sun Gongxing
Institute of High Energy Physics, CAS,
Beijing, China
Nov. 30, 2005



Outline

- Introduction of IHEP
- Introduction of IHEP CA operation



IHEP Introduction

- The major institute conducts high energy physics experiments in China
- Including HEP, cosmic ray, radiation, nuclear , theoretical physics, advanced accelerator technologies.

HEP experiments at IHEP

- BES upgrade to BESIII (5PB storage capacity, 2000+cpus computing power)
- ARGO-YBJ China-Italy collaboration at Tibet (PB + 500+CPUs)
- CMS + ATLAS/LHC (2 Tier2 RCs, 2000CPUs + 600TB Disk Buffer)
- AMS...
- Hundreds of physicists involve in these exp.
- BRSF for boi-medical, materials...

Current status of IHEP GRID CA

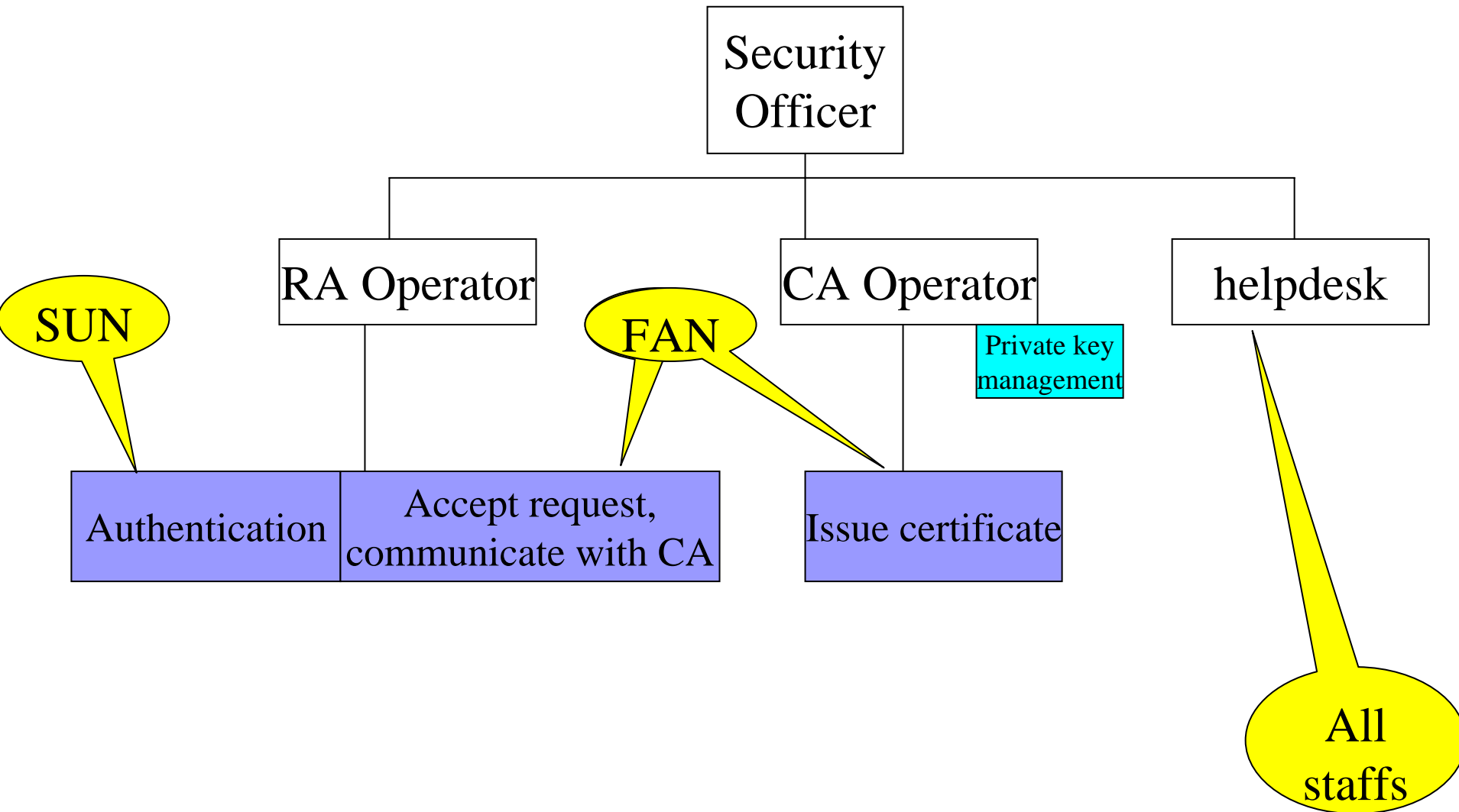
■ Number of issued certificates

Types	User	Host	Server	Total
Valid	23	12	3	38
Revoked	6	3	1	10

■ Subscribers

Org.	IHEP	PKU	SDU	other
number	15	2	1	1

Details of CA operation-staff



Details of CA operation – hardware / equipments / facilities / physical access

- CA Server
 - Intel(R) Pentium(R) 4 CPU 1.60GHz, 1 processors, linux redhat 7.3.
 - offline
- RA Server and repository are in the same machine
 - Intel(R) Pentium(R) 4 CPU 2.60GHz, 2 processors, linux redhat 7.3.
 - Connected to internet
 - RA Interface is restricted to specific IP and Port
 - Reasonable port filtering
- CA Room
- Physical access
 - Physical access to the hardware is restricted to personnel authorized to enter the computer room

Details of CA operation – events recorded and archives

- CA/RA machines
 - Certificates of all status
 - Requests of all status
 - All issued CRLs
 - Login,logout,shutdown log
 - Data exchange log
- Emails
 - Mails sent by CA
 - Mails received by CA

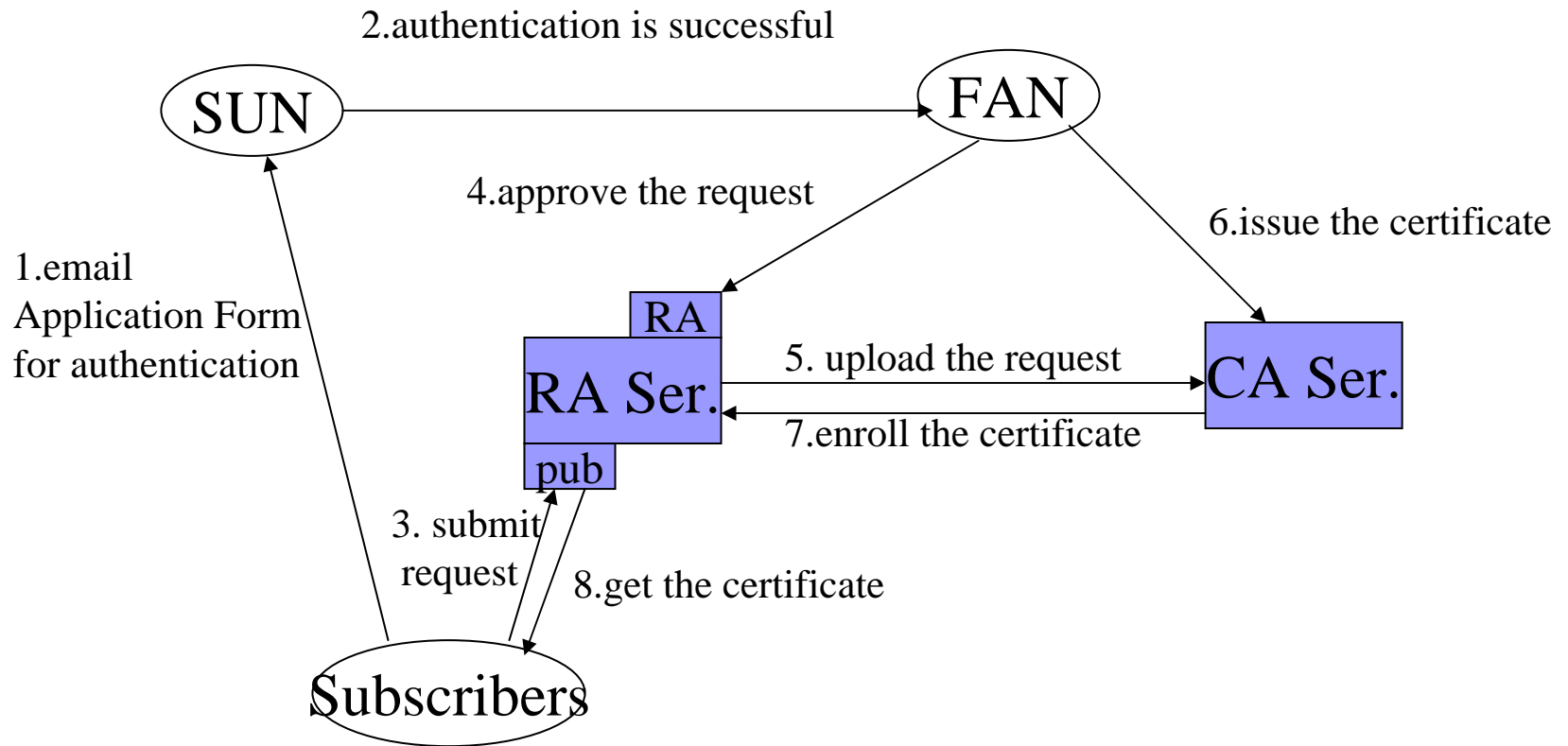


Details of CA operation – events recorded and archives(cont.)

■ Other documents

- Application Form for authentication.
- All versions of the CP/CPS

detailed workflow for issuing certificates





Thank you!