

**Campus Infrastructure Survey
Directories/Repositories and Certificate Authorities
NSF/CREN Seminar June 6-8, 2001**

Please fill in your name, title, and institution and return the completed survey to seminars@cren.net and jboettch@cren.net. Thank you.

P.S. Please return either by fax (202 293 2853) or by email. If you send it back via email, please include your institution's name in the name of the file.

Name:

Title:

Institution:

Dear Workshop Participant,

We are looking forward to your participation in the two-day workshop to be held in Minneapolis, MN on Thursday and Friday, June 7th and 8th with welcoming reception June 6th.

As you know, we are fortunate to have support from NSF for this workshop. Part of the goal of this workshop is to provide an informal report to NSF on the state of directories/repositories and certificate authorities on campuses.

The following survey is designed to solicit data for this informal report to NSF and also to ensure that the content of the workshop can best meet the needs of the participants. *It is very probable that you will have knowledge of some of these areas on your campus and not of others.* The goal of the survey is to solicit what is known and to plan for both future direction and strategies. As you are completing this survey, you may want to check with your other campus colleagues. This survey was designed to be completed in about 15 to 25 minutes.

There was an earlier workshop in January of 2001 and the summary of those surveys is also now available. That summary is attached for your review.

We thank you in advance for sharing the "state of your campus" in these areas. The resulting summary will help our community as we move forward in building the next level of campus wide services.

Judith Boettcher
Executive Director

Section One: Directories/Repositories

1.1. How many directories and repositories do you have on your campus?
Approximately?

Number?

1.2. What types of directory formats are you using on your campus?

LDAP

ph

x.500

Novell

Active Directory

Other _____

Other _____

1.3. Who manages your directory(ies)?

Dept /College System Administrators

Central IT organization

Other _____

1.4. Do you have any applications linked into your directory/repository?

Yes No

1.5. If Yes, what are the applications? Please check all that apply.

Remote access authentication and authorization for library users

Remote access authentication and authorization generally

Email services, such as account creation, maintenance and email re-direction

Telephone directories

Account/billing applications

Other _____

Please describe in more detail here any additional useful information.

Section Two: Campus Environments for Email and Computer Accounts

2.1. What processes are you using for initially registering students, faculty and staff for computers and email accounts? Please check all that apply.

- Users request their own email accounts via a web application
- Accounts are generated automatically for faculty, staff and students from:
Human Resources or Registrar data
- Manual request forms
- Other method _____

2.2. How many forms and what type of identification are required for initial activation or input into systems?

- How many?
Types. Please check all that apply.
- Driver's License
- Birth certificate
- PIN
- Password
- Other interesting information _____

2.3. Do your users sign, read or accept a policy statement on the use of their computer account or e-mail access (i.e. a subscriber agreement)?

- Yes No

2.4. If Yes, please Check:

- Users "click through" agreement to acknowledge acceptance
- Users are directed to URL containing subscriber agreement
- Users read statement of use that refers to a more detailed policy
- Users read on-line statement and take on-line quiz to ensure reading and understanding of agreement
- Other interesting/useful information, please include below, such as url of your agreement:

Section Three: Campus Environments and Uses of Digital Certificates

3.1. Has your institution made plans for first uses of digital certificates on campus?

- Yes No

3.2. If Yes, what are some of your planned first uses for certificates? Please check and rank #1, 2, and 3 for top three priorities.

- Remote access authentication and authorization for campus network services
- Remote access authentication and authorization for remote content services
- Secure Email
- Email signing
- Email encryption
- Server certificate signing for various IT services
- E-commerce/on-line purchasing
- Trusted access to medical information over the web
- Others _____

3.3. Has your institution implemented a process to initially issue certificates to students, faculty and staff?

- Yes No

3.4. If yes, please describe process.

3.5. If no, when do you plan on issuing the first certificates in a pilot? Or for wide deployment?

3.6. Please describe the process that you plan on using.

3.7. If you have implemented or are planning to implement a registering process, which office(s) within the university will have responsibility for approving the issuing of certificates?

- IT/Technical Services
- Directory Services
- Registrar's Office
- Student Services
- Human Resources
- Other _____

3.10. Do you have an existing subscriber agreement for the use of digital certificates?

- Yes No

3.11. How will you modify it for the use of Digital Certificates? Please Check.

- Will not modify
- Revise or create an addendum to existing agreement s
- Update subscriber agreement annually as appropriate
- Other _____

3.12. Do you have policies and procedures to protect the private key of your institution's certificate?

- Yes No

3.13. If Yes, Please check all policies/procedures that apply:

- Private key is stored with multiple physical security safeguards
- A minimum of dual control person access is in place to activate private key usage of the institution
- Other _____

Section Four: Technical Implementation

4.1. Do you have an infrastructure that you are setting up for your certificate authority?

- Yes No

4.2. If Yes, Please check all that apply:

- Separate hardware for certificate authority and registration authority
- Set up a root CA and subordinate CAs with the root private key stored in hardware and activated when required
- Use CREN institutional certificate as the higher- level CA service

- Use Windows 2000/Active Directory on a stand-alone system in a physically secure area
- Active Directory Service-based with some information registered in SQL server
- Please provide more detail here, if you have it.

4.3. What is the software you are using, or planning on using, including version number? Please check all that apply.

- IPlanet Certificate Management System 4.2
- Windows 2000
- Microsoft SQL server 7.0
- Open SSC 0.9.6
- Apache
- ModSSL
- PERL5+
- Windows and Exchange 2000
- Others, please list or provide additional info

4.4. What hardware is being used or planned? Please Check all that apply. (If not certain, please check what hardware is planned for use).

- Netra and 3 SUN E-250 Servers
- ES250 (SPARC) server running Solaris 7
- SUN E250 with Solaris 8
- Firewall appliance from Watchguard
- Dell Power Edge 4400 and 6300 servers
- Others, please list or provide additional info

4.5. Where and How do you secure your CA server? Please check and describe.

- One Level of Access Only (Describe where/how here):
- Two levels of Access (Describe where/how here):
- Three levels of Access (Describe where/how here):
- Please provide additional info here

4.6. Which office(s) within the university has or will have responsibility for the secure CA environment? Please check.

- Information Technology
- Network Services
- Others, please list or provide additional info

Section Five: General Planning and Issues

5.1. What are some of your biggest issues in the short term, in the next 4 months? Please check all that apply.

- Developing a plan for PKI implementation
- Migrating away from existing directory systems configurations to structuring directory information to prepare for PKI by moving to the use of the LDAP protocol
- Securing buy-in for digital certificate technology services from administration and staff
- Educating users
- Other _____

5.2. What are the top outstanding issues regarding the CA service that you see in the future?

- Campus/system-wide buy-in for CA service
- Cost issues
- Educating Management
- Integrating disparate systems effectively and at the same time leaving management of local systems to those most capable and motivated to solve local problems.
- Other _____

5.3. What barriers, if any, are impeding your implementation?

5.4. What help can CREN or others provide to help your implementation?

Thank you!