Database Architecture For Consortia

How it Effects Your Use of Aleph

SUNY View

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SUNY Libraries

- 64 institutions
 - 61 involved in Aleph migration
 - 54 in production as of March 2005
 - 7 to complete migration as of July 2006
- serving 413,000 students
- supporting 6,688 programs of study
- Collection sizes: 25,000 to 2.3 million
- 18 million volumes combined

Consortium-based Functionality

- Physical union catalog
 - bib and holdings data from each campus
 - to be maintained by weekly batch updates
- Unmediated borrowing across campuses
 - requires "UBC" software for circulation among the various campus ADMs
- Ability to share authority files
 - future consideration

Aleph Shared Servers Configuration

- 50 campuses housed on 3 shared servers
- For each campus on each server
 - shared "a" tree
 - separate "u" trees
 - separate "alephe"
 - separate 01,10,30,50,60 libraries
 - Oracle instances
 - separate for each campus with 300,000+ bibs
 - shared for smaller campus databases
 - 3 to 6 campuses (up to ~300,000 bibs total)

- Provide for campus autonomy within shared environment
- Central shared server support for hardware, OS,
 Oracle and Aleph system administration
- Server configuration and maintenance
 - multiple oracle instances
 - port management
 - maintain consistency across servers
 - aleph "a" trees, patches, fixes
 - processes (startup, shutdown, backups, downtime, etc.)
 - opening libraries, baseline templates for each campus
 - coordinate multiple campus processes across servers

- Separate campus Aleph environments
 - central planning/testing
 - initial testing to work out major bugs before working with campuses
 - flexibility in rolling out updates
 - server changes
 - patches updates and version upgrades
 - variations in campus schedules and campus staff availability
 - scheduling training
- Central updating for "system wide" changes
 - campuses responsible for local customizations
- Updates times 50+

- Each campus operates autonomously
 - web OPAC design, patron logons, circulation policies, budgets, cataloging practices, workflow decisions, etc.
 - requires wide range of troubleshooting skills
 - staff client, networking, log files, utils, etc.
 - local staffing needed for support
 - impact of local practice on SUNY wide initiatives
 - use of item status, borrower status and borrower ID codes?
 - non-unique patron IDs and varying circulation policies on SUNY wide universal borrowing

Aleph table editing support is distributed across each campus

- not dependent on others for updating
- requires knowledge of table structures and interdependencies
- server access and impact on security
- requires knowledge of Unix and vi
- opportunities for "oops" silly and serious
- impact on troubleshooting and problem resolution

Report Writing

- selected customized reports have been created and made available on Web Custom Services Menu
- requests are accepted centrally and addressed on case by case basis
- availability of oracle user account
 - 3rd party ODBC clients installed locally by local staff
 - local campus staff turn to local campus DBA support
 - read only
 - restricted by IP address
 - restrictions on account to minimize impact
- ARC?

- Aleph Support
 - SUNY Service and Support Portal
 - "Footprints" web-based problem reporting application (central staff assigned to address requests)
 - Ex Libris PRBs
 - SUNY Aleph Implementation Portal
 - SUNY Aleph list
 - ALEPH-NA list
 - Colleagues at other campuses

Thank You!