What to Expect from ETDs: PART 2

Library Issues and Responsibilities

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Sept. 22, 1999

ETD Server

- Library
 - provides, maintains, backs-up
 - upgrades hardware/software
 - NeXt 3.3 (running HP: 1989-1997)
 - Sun dual-processor Enterprise 250 running Solaris 2.7
 - other
 - training
 - information for NDLTD partners

VT's ETD Server: Sun Netra

- 2 300 Mhz Ultrasparc processors
- 384Mb of RAM
- 9 Gb of disk space for OS, related tools
- ETDs on 9 Gb partition
- Apache, Apache SSL
- Perl 5.004_01
- CGI.pm
- Sun 8mm Ultra Wide SCSI tape drive
 - 170m tapes; 40 Gb compressed storage



Library Provides Access

Internet workstations

- for authors/creators
 - computer labs and classrooms
 - New Media Center (software, hardware, and assistance)
- for library users: local and remote
 - OPAC
 - World Wide Web



Library Internet Worstations-for Student ETD Authors (and others)

New Media Center -- Newman Library

- 22 Macs
- scanners, digital video/audio production, etc.
 - Netscape, Acrobat, Word, PowerPoint, Photoshop, and much more
- helpful staff
- http://www.nmc.vt.edu



Library Internet Workstations-Public, On-Campus Access to ETDs

- locate ETDs through
 - OPAC and World Wide Web
- circa 350 workstations (mostly Macs)
- throughout University Libraries
 - Newman (main) Library
 - TechConnect (50), throughout the building
 - Branch libraries



Library Introduces Faculty to ETDs

- Overview of process and access
 - from student's submission to public access
 - virtual tour of ETD web sites
- Faculty concerns
 - Now: Future publication potential, copyright
 - Previously:
 - Does the Library have enough server space?
 - Network response time might be too slow



Library Issues: Cataloging

Current Improvements and the Outlook for the Future



ETD Cataloging

- Professional catalogers developed policies and procedures
- Catalogers' workstations
- Cataloging from submission form
- Copy/paste and direct keying
- Input in OCLC, download to OPAC



VT ETD Cataloging

- same as current cataloging policies, except:
 - author-assigned keywords (not LCSH)
 - generic (not LC) call no.
 - fields/subfields as required for computer files
 - full abstracts
- time savings
 - cataloger familiar with computer files
 - equipment, software for word processing
 - 5 minutes avg. (10-15 minutes for paper TDs)



Cataloging completed (OCLC>>OPAC)

ETDs available on the Web

- Programmatic notification e-mailed to UMI
- Browsable author and department
 - all access points available through search
- InfoSeek's ULTRASEEK search engine



Library Costs

- \$12/vol. for paper thesis processing
 - catalog, bind, security strip, label, shelve
 - @950 vols./yr. = \$11,466
- \$3.20/vol. ETD processing
 - cataloging @950 vols./yr. = \$3040
- \$.07/vol. shelving
- \$.04/vol. circulation



Library Savings: Processing New Titles

- 73.3% savings NOW (\$8360/yr.)
- Future: cataloging costs = \$0/title
 - to generate MARC record
 - \$3.65 credit w/OCLC for original bib record contributed
 - OCLC access costs remain
- Generate MARC from ETD
 - Use tagged elements within e-text to generate bibliographic record: SGML ETD DTD>>MARC



Savings for Libraries can be Realized when ETDs are Available

- Circulating from the general collection
 - /month: 1997
 - 148/month: 1996 (16% from Storage)
- Retrieved from off-site storage (pre-1984)
 - 57/month: 1997 (19% fewer)
 - 70/month: 1996
- TDs out through interlibrary loan
 - 79/month: Jan. 1998 (45% fewer)
 - 175/month: Feb. 1996



Archiving ETDs

- Every 15 minutes back-ups made of notyet-approved submissions
- Hourly back-ups of newly approved ETDs
- Weekly back-ups of entire ETD collection
- Copies stored on-site and off-site



Availability of Library Resources

- In a typical month
- 80% of VT ETDs available
 - 53% available without restrictions
 - 27% available to VT only
- 20% unavailable



New Concerns for Libraries

- Authors limiting access to some ETDs
 - VT ETDs unavailable through InterLibrary Loan
 - Contact authors for copies
 - Distribute authors' e-mail addresses
- Multiple formats approved
- URLs >> PURLs and Handles
 - maintaining links to VT ETDs
 - maintaining links to external sites



(Anticipated) Changes for ETDs

- Redesign of submission form (completed 8/99)
 - data for analysis and to generate bibliographies, etc.
- ETDs in dual formats: PDF and SGML
 - Portable Document Format
 - Standard Generalized Markup Language
- MARC derived from SGML (ETD DTD)
 - MAchine Readable Cataloging
 - ETD Document Type Definition
- Distributed searching of NDLTD (available)
 - Networked Digital Library of Theses and Dissertations

Join the Networked Digital Library of Theses & Dissertations

- Browse
 - http://scholar.lib.vt.edu/theses
 - www.ndltd.org
- Share your ideas, questions, concerns, experience: Contact
 - John Eaton, Graduate School (eaton @vt.edu)
 - Ed Fox, Computer Science (fox@vt.edu)
 - Gail McMillan, Library (gailmac@vt.edu)



The VT ETD Library

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