



Strategic Overview

- **Tasmanian Research & Education Network**
 - Partners
 - Bandwidth
 - CBD dark fibre
- **UTAS Network**
 - Current Status
 - Upgrades Planned
- **Faculty IT Managers Group**



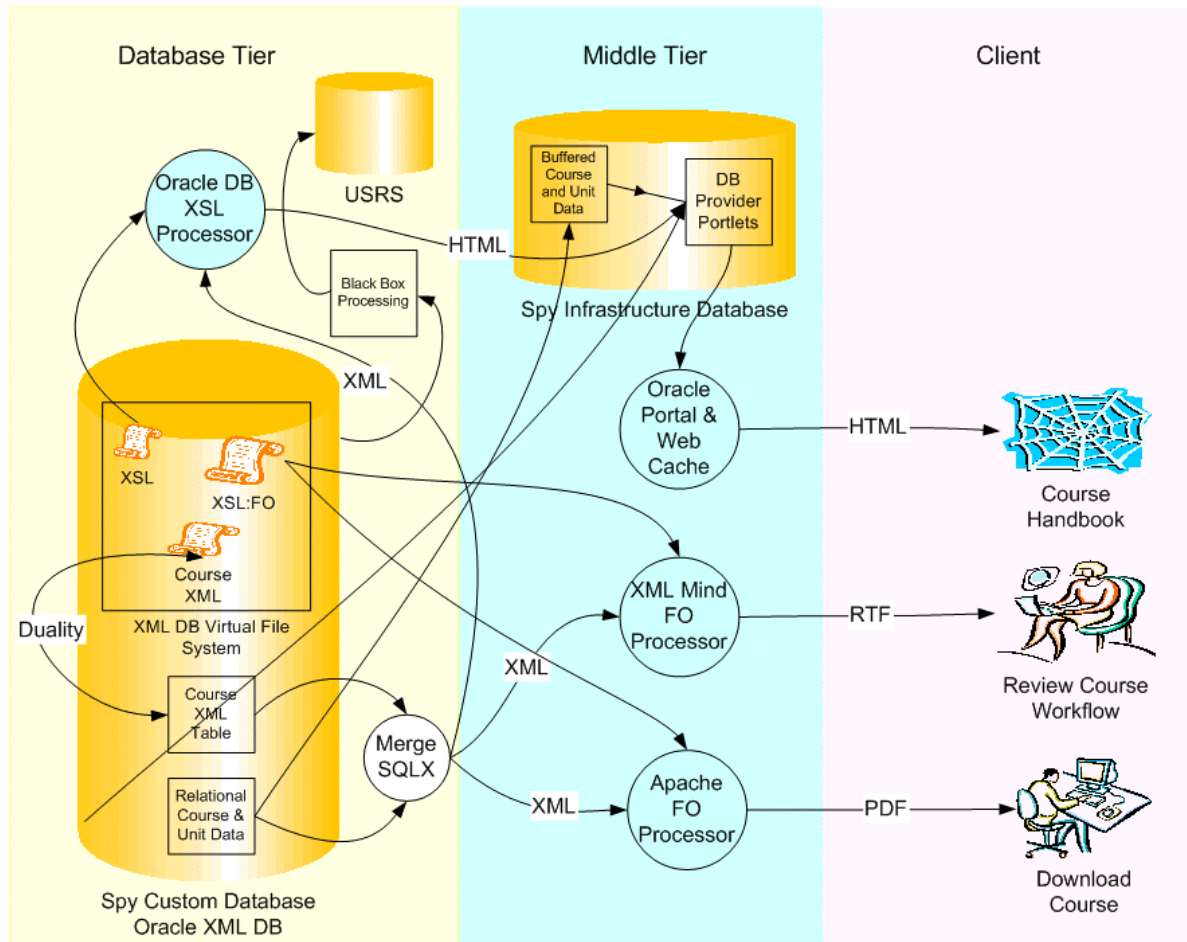
Management Information Systems

- **SCAPSE** (Student & Client Administrative Processes & Systems Enhancement)
 - Student Record System (USRS)
 - CASMAC, iSIS, BPR
 - 2 parts
 - Course & Unit Management
 - Fees Redevelopment
 - Authoritative source of Course and Unit information
 - Developed in-house, using Oracle XML Db structures and Oracle Portal



Management Information Systems

- Course and Unit Management System





Management Information Systems

- **Course and Unit Management System**
Data Stores
 - **XML Document Repository.** Oracle custom database on Spy used as a WEBDAV XML schema based document repository to manage semi-structured information describing courses, units and disciplines. XML documents are manipulated with the Authentic 2005 XML editor from Altova Corporation (demo).
 - **Relational Table Stores.** Course and Unit information based on simple and scalar data types are stored in relational tables in the custom database. Relational stores are manipulated with a rich graphic user interface using Oracle Forms.



Management Information Systems

- **Course and Unit Management System**
Data Processing
 - **XML from stored XML + Relational Data**. Using SQLX in the custom database to fabricate new XML streams based on scalar relational data and XML elements in stored course and unit XML documents. Structured data meets semi-structured data.
 - **HTML from XML**. XML streams are converted into HTML for presentation on the course and unit web site using XSL style sheets and the XSL engine in the Oracle XMLDB custom database.
 - **RTF from XML**. XML streams are converted into zipped RTF for editorial review by faculty staff, draft copies of unit, course and discipline printed manuals and for student download. Using XML Mind's XSL:FO java based engine and a java servlet developed by MIS.
 - **PDF from XML**. (future) XML streams will be converted into PDF using the Apache XSL:FO processor for student download of courses and units. Pre-processed files pulled from a content area.
 - **Integration of Course & Unit Data with USRS**. Unit only at this stage. A sequence of low level jobs run through the requests system to synchronize the units in the CU System with USRS units. Original goal of implementing an integration solution has not occurred.



Management Information Systems

- **Course and Unit Management System Oracle Portal Web Site**
 - **Portal Framework.** Portal provides us with session management, user context management, top level page design and web caching for performance and scalability. Portal also provides an intimate ability to source and display Oracle data and many other non-Oracle data-sources. Oracle Portal is provided standard as part of UTAS licensing of Oracle Application Server. Portal also provides a content management system with publishing workflow which at this stage we are not using.
 - **Web Page Design.** Top level design using Portal Pages.
 - **Database Provider Portlets.** A library of dynamic portlets was created using PL/SQL web tool kit to pass HTML calls from Oracle HTTP Server to the client web-browser. Each dynamic portlet would use PL/SQL web tool kit procedure calls to either wrap relational data in HTML or pass on HTML generated from XML using the database XSL engine.



Communication Technologies

- Network Upgrades
 - Firewall (155M) new code/syntax
 - Internet Router
 - Core Switches – July 04 temporary measure
 - Departmental Access Switches (10/100)
 - Further gigabit fibre between buildings
 - IPv6 still to be started
 - Multicast to Internet/AARNet still to be started
 - Needed for Access Grid technology
- WAN Link Upgrades
 - Hobart CBD – Completed! 2M now 28M each
 - 2M are still in place as backup links
 - Launceston new links to AB and Clarence House Planned
 - CCC new link to TAFE
 - 2M BDSL (VPN) links to Rural Health Hospital Sites (10)



- UTas-UANA
 - University Authenticated Network Access
 - 802.1x username/password on wireless AP
 - 802.1x username/password on selected wall sockets
 - UTas-UANA wireless SSID campus wide
 - Departments still can have their own hidden SSID but still used UANA for security
 - Lecture theatres (subnet 69) may go UANA to prevent unrestricted use – install client on images
 - Will be used in Student Residences 2005
 - Panther (10.3) or Win2000 or XP = \$0
 - www.utas.edu.au/itr/UANA



- Learning Hubs
 - Student personal laptops
 - Both wireless (5 AP) and wired (400 sockets)
 - Utilises UTas-UANA 802.1x security
 - Private Addresses (10.100.*.*)
 - » No direct firewall traffic (streaming etc)
 - Restricted traffic flows
 - » SMTP/POP/IMAP, WWW, HTTPS, Proxies
 - » File/Print via portal server
 - Access each other still
 - System deployable in multiple areas
 - Self-Registration of mac-address/username
 - One registration for all areas (3 months?)



Communication Technologies

- Network Resilience/Security/Performance
 - DHCP/DNS servers to smaller campuses
 - Sandy Bay broken into smaller zones, multiple fibre feeds
 - Duplicate RADIUS/UANA servers
 - Removal of non-managed hubs, minimum speed 10/100 switched
- NAM (Network Analysis Module)
 - Traffic Flows, jitter, latency, losses
- IDS (Intrusion Detection System)
 - 600 Mbit module
 - Sited near FW and most WAN links
 - Report suspicious behavior – leading to possible automatic disabling of devices (what about little hubs?)



Tender for Supply of PC Desktop, Portable and Server Equipment

Appointed to Dell Computer in October 2004 for 2 year period

Pricing – Available on Leasing/Lease without support/purchase
www.utas.edu.au/itr/procserv/leasescheme

Decrease in pricing

Standard desktop models include 17” Ultrasharp monitors



IT Procurement Services

Laptops (pricing includes):

Gold Technical Support – Phone Number:

Laptops include: Complete Cover – on central processing unit, keyboard, mouse, internal hard drives and computer's original monitor (not casing). Dell Complete Cover Service Agreement available on request.

Service:

Any warranty or service problems with Dell – contact Glenda Wardlaw (email or phone)

Staff Purchases:

Set up from January 2005

Models from Lease Web Page plus GST

Payment via Cashier upfront prior to ordering

No support provided on system



Online Ordering:

Dell – proposed for all support staff to quote from the on-line Premier Page and orders will be placed centrally by ITR

Apple – I now have on-line ordering. Proposed for all support staff to have access to the quoting page and orders will be placed centrally by ITR



Computing & Distributed Systems

- Enterprise Backup
 - Generic SLD Developed
 - Initial Clients: Faculty of Art and School of Architecture
- AntiVirus
 - Internet Gateway (Trend Micro) & Desktops (McAfee)
 - Evaluation of products saw McAfee subscription renewed
 - McAfee 8.x
- Learning Hubs
 - Quarantine subnet
 - Novell ‘Virtual Office’ Portal
 - Access to student’s P: Drive
 - IPP through CAPS
 - Creation of Virtual team areas for collaboration



Computing & Distributed Systems

The screenshot shows a Microsoft Internet Explorer browser window titled "Virtual Office - Microsoft Internet Explorer". The address bar contains the URL: <https://ifoldersrv.its.utas.edu.au/nps/servlet/portalservice?NPSservice=iManagerContainer&gotoNPS=true>. The page content includes a "Virtual Office" header, a "Login" section with "Username:" and "Password:" labels, two input fields, and "Login" and "Reset" buttons. Below the login form is the copyright notice: "Copyright 1999-2003 Novell, Inc. All rights reserved." The browser's status bar at the bottom indicates "Local intranet".



Computing & Distributed Systems

Virtual Office - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://ifoldersrv.its.utas.edu.au/nps/servlet/portalservice?NPService=AuthenticationService&NPServiceDataType=PortalData>

Virtual Office ADILLON Logout Help

Search...

Virtual Team Tasks:
 Create Virtual Team
 Join Virtual Team
 Manage Virtual Team

Home

eGuide

Last Name: Search

First Name:

[Advanced Search](#)

Email

Folder: INBOX

From	Subject
Jesse Penfold	RE: Tas Audit IT reviews 2004-05 - University of Tasmania
listmaint@mail.idg.com.au	Computerworld Today PM Edition Qld child protection unit gets \$9m apps overhaul / UNSW inks quantum computing pact
Julie.Wills@utas.edu.au	Cancellation of UNlaccess meeting
David.Rayner@utas.edu.au	Fw: Article From A 1954 Popular Mechanics]
Christine.Bayley@utas.edu.au	Memo to Service Desk re Raiser's Edge - PLS READ AND COMMENT

Total Messages: 7341

My Bookmarks

- ★ Novell
- ★ Vista

Virtual Office Company Info

Welcome to Virtual Office

Virtual Office allows administrators to bring iFolder, iPrint, eGuide, eMail, and personal bookmark services together in a personalized portal for corporate users.

Virtual Office also allows corporate users to create virtual teams to collaborate with others and share information within the corporate environment. To create a new team, click **Create Virtual Team** in the left navigation area. View the shared information of a virtual team by selecting a team from the left navigation frame.

Local intranet



Computing & Distributed Systems

Virtual Office - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://foldersrv.its.utas.edu.au/nps/servlet/portalservice?NPService=AuthenticationService&NPServiceDataType=PortalData>

Virtual Office ADILLON Logout Help

Home

Search...

Virtual Team Tasks:
 Create Virtual Team
 Join Virtual Team
 Manage Virtual Team

NetStorage - Microsoft Internet Explorer

NetStorage

Location: /NetStorage/iFolder/ELMS

Name	Size	Modified
CAUDIT Streaming Media Survey ...	28K	06/01/200
Digital audio mtg_recommendati...	26K	10/20/200
ELMS Project Status Report 200...	46K	06/22/200
ELMS Status Report 20040827.do...	180K	09/03/200
ELMS Status Report 20040831.do...	180K	09/03/200
ilecture - Passport to Learnin...	354K	06/03/200
iLecture.pdf	737K	06/03/200
iLectureCosts_v2.0.xls	25K	10/27/200
iLectureImplementationCosts v1...	22K	06/23/200
matrix2.xls	18K	08/04/200
matrix3.xls	22K	09/03/200
metrics-combined.xls	36K	10/27/200
N.McKinlay - staff feedback.do...	37K	06/16/200

Home to Virtual

Office allows operators to bring Print, eGuide, eMail, personal bookmark together in a virtualized portal for end users.

Office also allows the users to create virtual teams to collaborate and share information within the virtual environment. To create a new team, click on the Virtual Team in the navigation area. View the information of a virtual team by selecting a team from the navigation frame.

Local intranet



Computing & Distributed Systems

- **Enterprise Email/Calendaring/Groupware**
 - Finalise requirements/evaluation criteria
 - Undertake closed RFI
 - Select and undertake pilot implementation
- **ELMS**
 - Automated Lecture Recording/Streaming
 - ‘Pilot’ in 5 Lecture Theatres Semester 1
 - Extend rollout to 10 Lecture Theatres, if successful



Computing & Distributed Systems

- LDAP project – Phase 2
 - Identity Management Infrastructure (Whole of organisation approach)
 - Goal of achieving more than same username & password
 - Key Benefits and Business Priorities
 - Synchronise identity data across the organisation and link user accounts to that identity information.
 - Administer access by applying rules that reflect business priorities and policies in a way that prevents the unauthorised disclosure of private and sensitive information.
 - Efficiently manage changes to both the information and accompanying rights (effectively implement a security policy), which forms the basis for access decisions, self-service, authorisation and personalisation.
 - Deployment of a metadirectory (bi-directional feeds to/from applications/databases/directories as appropriate)
 - Authoritative data sources read-only



Computing & Distributed Systems

– Recent Activity:

Overview and Planning Aspects white papers have been prepared and forwarded for consideration of the LDAP Steering Committee

Planning Aspects outlines a number of keys milestones to be achieved, namely:

- Discovery
- Requirements and Design Analysis
- Proof of Concept
- Data Validation and Preparation
- Production Pilot
- Production Rollout Planning
- Production Deployment



Computing & Distributed Systems

– Currently status:

- At the *Discovery* stage of authoritative data sources within ITR.
- Followed by a discovery process of administrative systems (HR, USRS, etc)
- Then a discovery process within the faculties, schools and departments.

Results of Discovery will feed into the next stage.

Current (and future) requirements will be accommodated in the *Requirements and Design Analysis* (with additional or more complex requirements factored into future development).



Computing & Distributed Systems

- CAPS

- Application Manager
- Overview of system
- Current Status
- Cost Recovery Business Case: ICT Cttee to consider
 - Transparent costing model that details cost per sheet dependant upon printer/photocopier hardware

- Service Level Agreements

- Commerce, AgSci/TIAR, TAFI, SciEng Faculty Office
- Two new SLA's: ACE CRC/TPAC and School of IS
- Services offered: server hosting to full IT management



Computing & Distributed Systems

- Mini Projects (DMS)
 - PDA Standards (inc. server synchronization infrastructure)
 - ADSL Solutions
 - Zen 6.5
 - Web Kiosk (email only) Desktop
 - Patch Management Solution
 - Virtual PC / Virtual Server



Questions ?