

# Building & integrating administrative interfaces

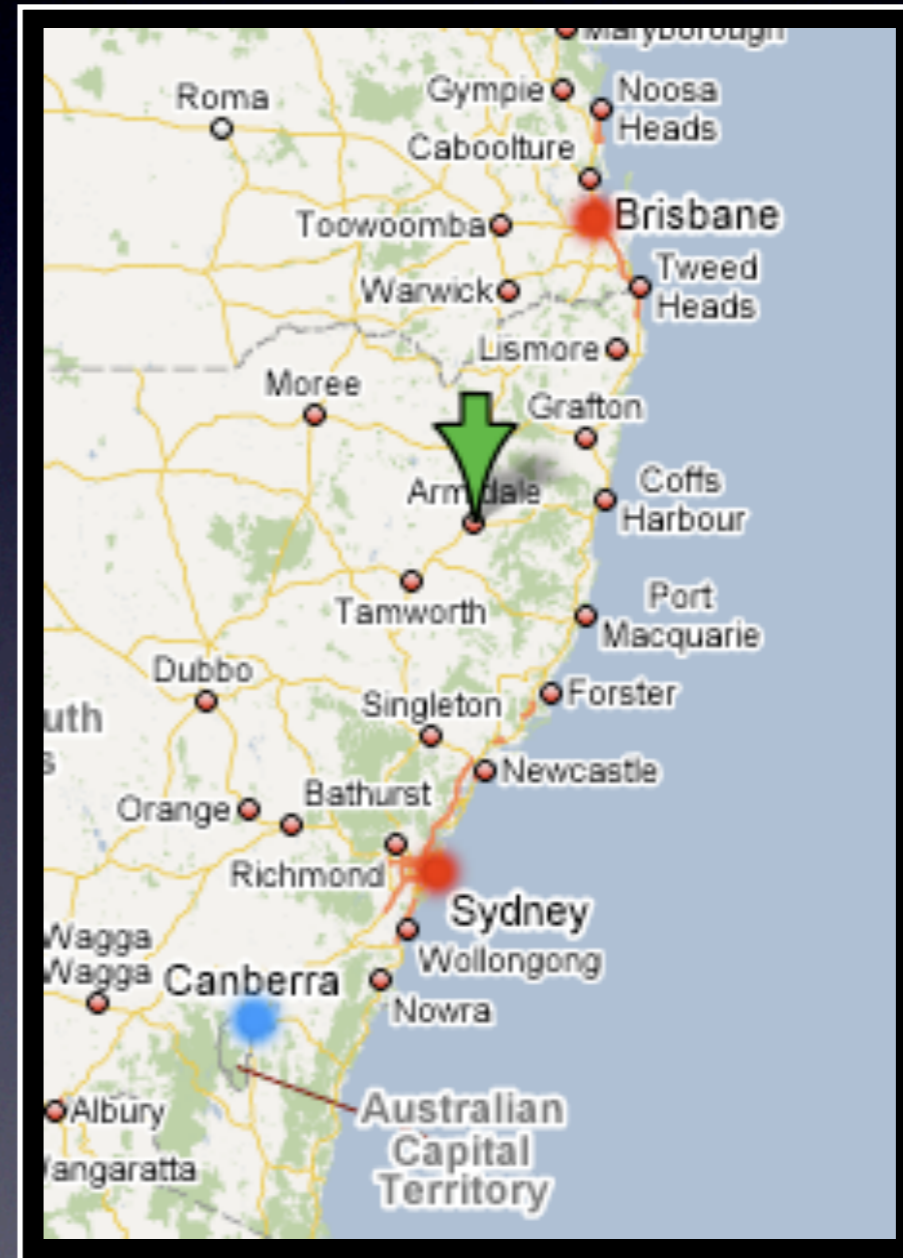
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# UNE - about

- Rural setting, midway between Sydney and Brisbane
- Predominantly distance education + other uni's
- ~20,000 students; ~5000 staff; thousands of additional clients and community users (UNE Partnerships, other PD programs, businesses, school students)





# UNE - present situation

- Currently a WebCT 4.1 institution ☹
- Have custom interfaces to manage WebCT
- Also have other systems, e.g., Media Server, built inhouse, manages A/V capture, conversion, delivery and podcasting.
- User management is difficult (extra users)
- Adding more systems = unmanageable!



# UNE in 2008

- Blackboard CE 6 as primary LMS ☹️  
Sakai will be run in parallel, many units will be run in Sakai 😊
- New stuff: HarvestRoad Hive, TurnItIn, eSubmission, eReserve, SOA, migration of all learning content + delivery in LMS's, complete rewrite of DEM (29 in total)
- Will need good management infrastructure!



# Enter the TLCadmin

- Teaching and Learning Centre running all development projects (29 for 2008 alone)
- Central administration interface to manage everything to do with every system
- Site management for both LMS's, user management for all systems, data management for TLCadmin itself.

All sites

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## All sites

Select a filter: [\(all\)](#) [a](#) [b](#) [c](#) [d](#) [e](#) [f](#) [g](#) [h](#) [i](#) [j](#) [k](#) [l](#) [m](#) [n](#) [o](#) [p](#) [q](#) [r](#) [s](#) [t](#) [u](#) [v](#) [w](#) [x](#) [y](#) [z](#)

or search:   search

Select a filter or search to view sites

# TLCadmin



# Site list

- Provides quick access to info about all sites
- Can launch directly to site or its profile (more later)
- Searchable

All sites

Select a filter: [\(all\)](#) [a](#) [b](#) [c](#) [d](#) [e](#) [f](#) [g](#) [h](#) [i](#) [j](#) [k](#) [l](#) [m](#) [n](#) [o](#) [p](#) [q](#) [r](#) [s](#) [t](#) [u](#) [v](#) [w](#) [x](#) [y](#) [z](#)



or search:

Total sites: **12** matching search string **staff**

siteID	title	lms	coordinator	t.p.	status	type
<a href="#">staff_bclarke6</a>	<a href="#">Bronwyn Clarke's Sandbox</a>	sakai	<a href="#">bclarke6</a>	2008Y	0	sandbox
<a href="#">staff_bcmull3</a>	<a href="#">Bruce McMullen's Sandbox</a>	sakai	<a href="#">bcmull3</a>	2008Y	0	sandbox
<a href="#">staff_btynan2</a>	<a href="#">Belinda Tynan's Sandbox</a>	sakai	<a href="#">btynan2</a>	2008Y	0	sandbox
<a href="#">staff_cclarke</a>	<a href="#">Catherine Clarke's Sandbox</a>	sakai	<a href="#">cclarke</a>	2008Y	0	sandbox
<a href="#">staff_cstewar3</a>	<a href="#">Cherry Stewart's Sandbox</a>	sakai	<a href="#">cstewar3</a>	2008Y	0	sandbox
<a href="#">staff_dtucker1</a>	<a href="#">David Tucker's Sandbox</a>	sakai	<a href="#">dtucker1</a>	2008Y	0	sandbox
<a href="#">staff_helpdesk</a>	<a href="#">ITD Helpdesk Sandbox</a>	sakai	<a href="#">astewa23</a>	2008Y	0	sandbox
<a href="#">staff_jreid3</a>	<a href="#">Jackie Reid's Sandbox</a>	sakai	<a href="#">jreid3</a>	2008Y	0	sandbox
<a href="#">staff_pfletch2</a>	<a href="#">Peter Fletcher's Sandbox</a>	sakai	<a href="#">pfletch2</a>	2008Y	0	sandbox
<a href="#">staff_pmathew</a>	<a href="#">Peter Mathew's Sandbox</a>	sakai	<a href="#">pmathew</a>	2008Y	0	sandbox
<a href="#">staff_rjames6</a>	<a href="#">Ros James' Sandbox</a>	sakai	<a href="#">rjames6</a>	2008Y	0	sandbox
<a href="#">staff_sswinsb2</a>	<a href="#">steve.sandbox</a>	sakai	<a href="#">sswinsb2</a>	2008Y	1a	sandbox

# Site creation

## Create a site

<b>LMS:</b>	<input type="text" value="Sakai"/>
<b>Site type:</b>	<input type="text" value="Normal Teaching"/>
<b>Site ID:</b>	<input type="text"/>
<b>Site Title:</b>	<input type="text"/>
<b>Site Description:</b>	<input type="text"/>
<b>Short Description:</b>	<input type="text"/> <small> Only for <b>templates</b> at this stage</small>
<b>Template:</b>	<input type="text" value="Template Common - A template with the most common toolset"/>
<b>Semester:</b>	<input type="text" value="2007 Semester 2"/>
<b>Skin:</b>	<input type="text" value="Default UNE"/>
<b>Joinable?</b>	<input type="checkbox"/> <small> This will make a site joinable by anyone. Useful for training sites. Default: <b>no</b></small>
<input type="button" value="✔ Create Site"/> <input type="button" value="✘ Reset"/>	



# Site profile

- All site management is performed here
- Site title, users & student groups, teaching period, release and expiry dates, site type, site skin
- Create own banner and site skin, manage the site tools.
- Endless opportunities for external course management - via web services!



# Site profile

Simple interface to manage everything to do with an online site, whether it be Sakai, WebCT, or any other LMS, so long as we can hook into it somehow

Centralises course management, ties into SIS integration (more later)

## Site profile

### site info

<b>site title</b>	steve.sandbox  <a href="#">edit</a>			
<b>site users</b>	<b>name</b>	<b>username</b>	<b>role</b>	
	Stephen Swinsburg	 <a href="#">sswinsb2</a>	coord	
	Soo Kim	 <a href="#">tlc_kimsooil</a>	coord	
	Stephen Swinsburg	 <a href="#">sswinsbu</a>	student	
	 <a href="#">Add a person</a>			

### student info

<b>offerings</b>	<b>offering</b>
	 <a href="#">Add an offering</a>

### unit info

<b>lms</b>	sakai
<b>t.p.</b>	2008Y (2008 Year Long)  <a href="#">edit</a>
<b>release</b>	tp default  <a href="#">edit</a>
<b>expiry</b>	tp default  <a href="#">edit</a>
<b>status</b>	1a (Awaiting approval for release)  <a href="#">edit</a>
<b>type</b>	sandbox  <a href="#">edit</a>
<b>skin</b>	Default UNE  <a href="#">preview</a>    <a href="#">edit</a>

 [Go to site](#)



# Site deletion

## Delete a site



### Warning!

This will permanently delete a site from the selected LMS. Use with caution!

Site ID:

LMS:



Delete Site



Reset



# Site tool management

## Site tool deployer (Sakai only)







This utility allows you to deploy a specific tool to a group of sites within Sakai.

### Step 1: Choose the tool

Tool:

[Next step](#)

### Step 2: Choose sites to populate

- All sites:**   All sites will be populated with this tool
- All normal sites:**   All normal teaching sites will be populated with this tool
- All special access sites:**   All normal teaching sites will be populated with this tool
- All sandbox sites:**   All sandbox sites will be populated with this tool
- All testing sites:**   USE THIS FOR TESTING
- Only these sites:**   Enter a comma separated list of sites to populate, no spaces.

[Go back](#)

[Next step](#)

### Step 3: Enter tool properties

**Title:**   Enter the title for this tool

**Source URL:**   Enter the URL

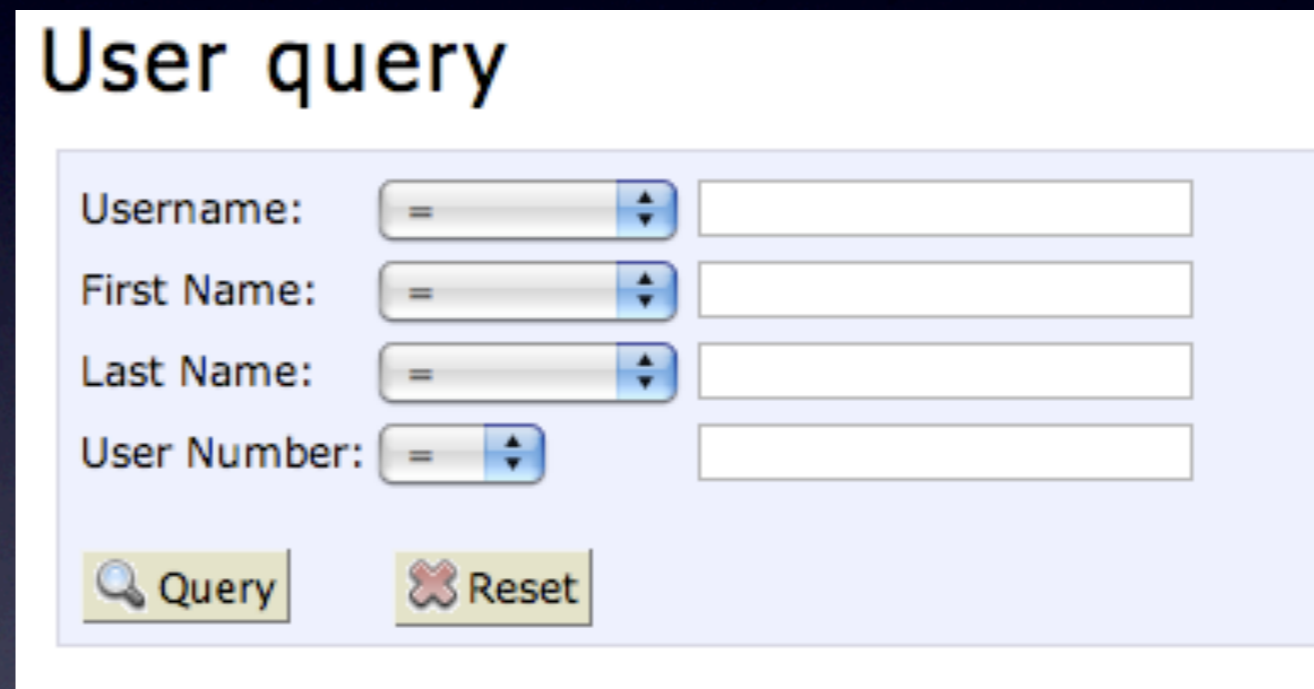
[Go back](#)

[Next step](#)



# User query

- Able to query LDAP, Sakai/WebCT via webservice, SIS (Callista).
- Returns tailored data for that particular user, ie enrolment details for a student, site access for a staff member, etc.






The screenshot shows a web interface titled "User query". It contains four input fields, each with a dropdown menu and a text input box. The fields are labeled "Username:", "First Name:", "Last Name:", and "User Number:". Each dropdown menu has an equals sign (=) and a blue arrow pointing up and down. Below the input fields are two buttons: "Query" with a magnifying glass icon and "Reset" with a red 'X' icon.



# Pending promotes

## Pending promotes

Sites awaiting promotion: **1**

siteID	title	lms	coord	t.p.	status	type	release	expiry	promote
 <a href="#">staff_sswinsb2</a>	 <a href="#">steve.sandbox</a>	sakai	 <a href="#">sswinsb2</a>	2008Y	1a	sandbox	default	default	




































- Information about a unit that is ready to be promoted (released to students).
- Existing practice to do quick QA then promote the unit



# Admin users

## Admin users


Users on this list are able to login to this facility and administer TLC systems

name	user	sakai?	webct6?	hive?	
Ben Funnell	 <a href="#">bfunnel</a>				
Catherine Mitchell	 <a href="#">cmitch2</a>				
Gerwood Stewart	 <a href="#">gstewar8</a>				
Gwenda Williams	 <a href="#">gwillia1</a>				
Rupert Collister	 <a href="#">rcollist</a>				
Rosalind Ellen James	 <a href="#">rjames6</a>				
Stephen Swinsburg	 <a href="#">sswinsb2</a>				

### Add an admin user

Username:

System:





 Add

# LDAP

- Main LDAP managed by ITD
- Another LDAP branch managed by us - for extra users
- Different search bases
- Wrote own chained LDAP provider for Sakai to search multiple LDAP's with different search base's

## LDAP management

The following users are defined in the TLC LDAP branch

name	username	email	group	edit	delete
test user	test	<a href="mailto:test@fake.com">✉ test@fake.com</a>	jcu		
Soo Kim	tlc_kimsooil	<a href="mailto:kimsooil@gmail.com">✉ kimsooil@gmail.com</a>	tlc		

### Add a new user to the TLC LDAP branch

Username:

First Name:

Last Name:

Email:

Notify user?   This will send an email to the user with their access details.

Create New Password:   Generate password


Verify New Password:


Group:

 Add  Reset

### Upload a file to load users

Select a file:  no file selected

 The file you upload must be a text or CSV file and be in the format:  
**username,firstname,lastname,email,password,group**

 Upload



# Data management

- Data that our systems use is managed through the TLCadmin
- Semester data, centre/faculty data, even internal list data, all managed through TLCadmin
- Self contained, no need to get hands dirty with database work



# TLCadmin summary

- Have had a similar app for WebCT management for years. But only manages WebCT
- Bringing more systems online is problematic
- Built to be modular and handle any number of systems relying on similar data
- Centralised, web service based, access controlled



# UNE migration utility

<http://confluence.sakaiproject.org/confluence/x/SAAo>

- WebCT 4.1 to Sakai
- Based on code by Rutgers
- Code was heavily customised for Rutgers.
- Needed to modify for UNE anyway, made it more generic and much easier to use.
- Does not require WebCT or Sakai to run, only uses exported data.
- Imports into Melete, Samigo & Resources



# UNE migration utility

<http://confluence.sakaiproject.org/confluence/x/SAAo>

- Executable Java class + opt. Config.java
- Can be instantiated from other classes/apps
- Optional JSP wrapper for web deployment

## Sakai migration tool

Select exported WebCT course:

Export content modules?


Yes (An IMS compliant package will be created which can be imported into **Modules** within a Sakai site.)


Export quizzes?

Yes (An IMS-QTI compliant package will be created which can be imported into **Test & Quizzes** within a Sakai site.)

Export MyFiles?

Yes (All files that were in MyFiles in the WebCT course will be packaged up as well.)

 Convert course

 Reset



# SIS (Callista) integration

- Existing data exchange via DB dumps and file transfer. Slow, archaic, data immediately out of date
- All of UNE eventually moving to SOA for data exchange and many successes already
- Web service frontend to Callista SIS
- Combined with site profile in TLCadmin, user management in Sakai is so simple!



# SIS (Callista) integration

Coordinator  
adds student  
group to site

Integration  
script runs.

Reads DB  
and Callista  
WS.

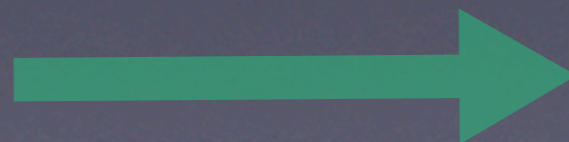
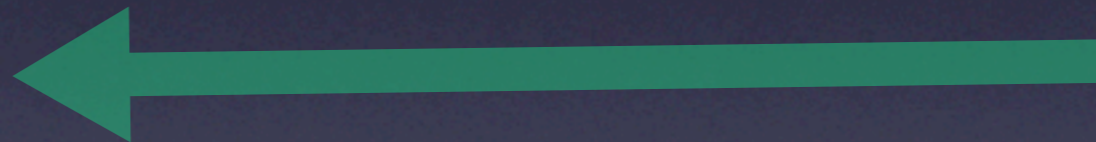
Injects Sakai

TLCadmin  
database

Callista  
webservice  
layer



Sakai





# SIS (Callista) integration

- Perl, SOAP::Lite, custom webservices, very fast to run. 10 min for ~20,000 users.
- Have saved loads of time by not creating user accounts in Sakai and letting LDAP handle it. Hours of processing time per day!



Thank you and  
questions