

## Banner & Luminis Web Tools For Helpdesk

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Edison State College  
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Session ID 0661

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### Session Rules of Etiquette

- Please turn off your cell phone/pager
- If you must leave the session early, please do so as discreetly as possible
- Please avoid side conversation during the session
- Feel free to ask questions at any time!

Thank you for your cooperation!

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### Session Agenda

- Our Technology Infrastructure
- Purpose of Presentation
- Our Helpdesk and Support Dilemma
- Getting Data from Boracle & Luminis
- Putting the Pieces Together
- Results & Benefits
- Screenshots! (demo)

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### About Edison State College

- Located in Southwest Florida, serving Lee, Charlotte, Collier, and Hendry counties
- Approximately full time enrollment of 18,000 students (7000 full time / 11,000 part time)
- Four year school offering 10 Baccalaureate, 34 AA and AS degrees, 14 certificate programs

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### Current Technology Infrastructure

- Outsourced technology helpdesk (local support center on main campus staffed during business hours)
- Blackboard CE8 LMS (hosted off campus)
- Banner 8.x running on Solaris platform
- Luminis 4.2.1 running on Solaris platform
- SunOne Calendar/Email (talks to migrate to Google?)
- Internet/Intranet Web Servers running Linux (CentOS) / Apache / MySQL / PHP

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### Our Helpdesk and Support Dilemma

- **ACCESSABILITY** –
  - Long hold times for helpdesk support – multiple apps to check
  - Escalation issues – no clear path to resolve account issues
  - Portal Admin GUI just didn't do it for us
- **PASSWORD RESETS!**
  - Main drive behind application.
  - Initially charged with creating self managed password reset
  - Script worked so well, rolled out to helpdesk
  - Wanted to provide an easy way to verify identify and process resets securely
  - 70% of all helpdesk calls (EXPENSIVE – we pay per ticket!)
  - Once a multi application process, now single screen

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### Our Helpdesk and Support Dilemma (cont)

- **SECURITY**
  - lack of helpdesk audit capability
  - Needed to remove VPN access, Banner access, and Portal admin (password reset) access
- **TRAINING**
  - High turnover at helpdesk
  - Record student enrollment led to employment of part time support personal to assist in admissions, financial aid, registration, advising, etc.
  - No time to train effectively on all Banner screens

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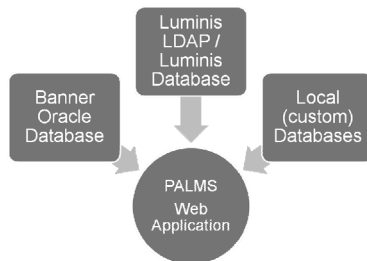
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### Bringing It All Together



Removed Helpdesk access to Banner & Luminis completely!

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### Boracle Integration Details

- Separate web server (Linux) running PHP 5+ with Oracle Instant Client libraries (why not JSP?)
- Queries made directly to Oracle database using custom written classes
- READ ONLY access to Oracle DB given to system user!
  - No writes to Oracle – select only
- Can execute any query or stored procedure
  - Pin resets / student holds / balance owed / etc..
  - only limit is your knowledge the database and SQL

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## Boracle Query/Result Example

- Display Financial Aid Holds

```
$fa_hold_q = "select rtvhold_desc, TO_CHAR(rorhold_to_date, 'Mon ddth, YYYY') as  
HOLDTODATE,  
TO_CHAR(rorhold_from_date, 'Mon ddth, YYYY') as HOLDFROMDATE  
from rorhold, rtvhold ' ' WHERE rorhold_hold_code = rtvhold_code and  
rorhold_pidm = :pidm AND rtvhold_info_access_ind = 'Y' AND rorhold_aidy_code =  
:yearcode ORDER BY rorhold_to_date DESC";  
  
$fa_hold_r = Oracle::query($fa_hold_q, array(["yearcode"=>$_POST["fa_year"],  
":pidm"=>$ACTIVE_BANNER_PERSON->getPidm()]);  
  
while ($fa_hold_d = $fa_hold_r->fetch())  
{  
    echo $fa_hold_d["RTVHOLD_DESC"];  
    \ ECHO OUT REST OF YOUR DATA HERE  
}
```

## Luminis / LDAP Integration Details

- Any cptool / configman / mbtool / or custom shell script can be easily executed from local or remote host using SSH

— NOTE: Unix/Linux required for remote ssh commands!

- Result can be customized in any manner

— example (from remote host):

```
<?php  
$class_crn = '11111'; //Normally posted in POST variable  
$result = escapeshellcmd(shell_exec(ssh <insert portal host &  
credentials> 'cptool list students " . $class_crn . "'));  
echo "<pre>" . $result . "</pre>";  
?>
```

## Benefits

- Helpdesk hold & assist times dramatically reduced
- Support staff training time reduced
- Empowered support staff to provide information outside their specific (banner) area
  - example: helpdesk could more efficiently troubleshoot admissions / account errors
  - example: Cashier's office could now quickly and easily check for financial aid disbursements
- What's Next?
  - cleanup banner classes (consolidate) to allow for multiple apps to consume (mobile, student)

## Screenshots

Home	Banner Data	Portal Data	Mail Data	Portal Admin	Configuration	Logout
General Banner Info	General Portal Info	Manage Your Email Group(s)	Message Broker Events			
Basic Re-Sync To Portal	Manage Password Reset Ability	Get Mailbox Info	View Logs			
Portal myStatus Summary	Disable / Lock Account	Manage Mail Forward	View TA Details			
Admissions Summary	Set/Restore Temp Password	Reconstruct Mailbox	Access Stats (GLOBAL)			
Courses (Current & Future)	Reset Password	Backup Mailbox	Password Reset Stats			
Course History (Past Terms)	Enable Locked Account	View Mail Logs	CPU Load Stats			
Course Transfer History	Account Lock History		Source ID -> User ID			
Student Holds	Access Stats (USER)		User ID -> Source ID			
Financial Aid	Password Reset Stats (USER)		TA Group Membership			
Account Summary (Cashier)	Full LDAP Entry		List Groups/Membership			
Transcript Summary			List Session Count			
Mailing Summary			Send Alert Message			
Class Enrollment (CRM)						

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## Screenshots (cont)

Banner General Person Info - provides quick way for helpdesk to verify

Current User: [EdContext AAAA](#) | UID: eaaaa | Banner ID: 000016900 | Immutable ID: 458006140827577 | PIDM: 36935 [CLEAR USER](#)

<b>Banner Data:</b>	
Full Name: EdContext AAAA	Accepted ASRP: Yes
Gender: M	Banner disabled? No - <a href="#">History</a> (Full PAMS history)
Banner POC: edcontext	Can reset password? Yes - <a href="#">History</a>
Email Address: eaaaa@edcon.edu	
Date of Birth: Oct 13th, 1951	
Address: 8291 College Pkwy SW, Fort Myers, FL, 33906	
Phone #: (239) 4899307	
SSN: ***-**-9999	
Banner Questions: edcon	
Banner Answers: edcon	
	<b>Emergency Contact Info:</b>
	Name: Gillen AAAA
	Address: ...
	Phone: 239-4899360
	Last Updated: May 07th, 2007

version 3.4.0 - user search edition | 10/10/2010 10:00:00 AM | 10/10/2010 10:00:00 AM | 10/10/2010 10:00:00 AM | 10/10/2010 10:00:00 AM  
this page was generated in 0.431 seconds | 8 queries executed in this process | user IP: 10.10.10.10 | 30 total active | 10/10/2010 10:00:00 AM  
Oracle Server: 10.10.10.10 | LDAP server: oracle-edcon.edu | Mail Server: oracle-edcon.edu | 10/10/2010 10:00:00 AM

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## Screenshots (cont)

Basic Portal information allows helpdesk / users to troubleshoot

Current User: [EdContext AAAA](#) | UID: eaaaa | Banner ID: 000016900 | Immutable ID: 458006140827577 | PIDM: 36935 [CLEAR USER](#)

**Basic LDAP Entry**

mail: eaaaa@edcon.edu
cn: EdContext AAAA
mailHost: oracle-edcon.edu
uid: 458006140827577
afac:
afac:
mail forward:
mail delivery: mailbox
mail alternatapp:
account status: enabled
account created: 05/07/2007 5:24pm (2007050712418Z)
credential expired: false
last login (good): 02/05/2010 9:31am (2010-02-05 14:31:00.093Z)
last login (bad): 02/05/2010 9:30am (2010-02-05 14:30:49.091Z)
last password change: 02/02/2009 12:05pm (2009-02-02 17:05:47.039Z)
portal roles:
prospectivestudent
equi@edcon.edu
student

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- **Diagnose and view Targeted announcement details**

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