Automated Identity Management and the Person Lifecycle

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High Level Objectives of the Identity Management Project (we're in the third year of a 15 month project)

- Implement both OAM and OIM from Oracle
- Automate the creation of the university NetIDs
- Automate the provisioning and deprovisioning of user accounts and the services to which those users are entitled (e.g.-Unix, AD, Public Search Directory, "LDAP" etc.) (working at Princeton is like dying and going to heaven-in reality, using our old system, some of our faculty did die and go to heaven but stayed active in our directories).
- Establish self-service user account claiming and password reset processes
- Support Single Sign On (SSO)
- Strengthen application security, starting with the 9.0 version of the PeopleSoft HR and Student systems, by using "banklike" functionality (second level authentication)



Key Considerations

- Each Step in the Life Cycle=New Affiliation and Status
- Affiliation=How You are Related to the University (High Level)
 - Student, Employee, Alumnus, Kin, Miscellaneous
- Affiliation Group=Further Defines the Affiliation
 - Student: Undergraduate, Graduate, Special Student
 - Employee: Faculty, Staff, Casual Hourly
 - Miscellaneous: Departmental Computer User, Docent, Trustee,
 Corporate Vendor etc.
- Status=Temporal and Relative Relationship
 - Active, Inactive, Deceased, Retired (High Level)
 - On Leave, Voluntary Withdrawal, Suspended (Granular)
 - i.e.-a student on leave is still considered active; a student who is suspended is considered inactive



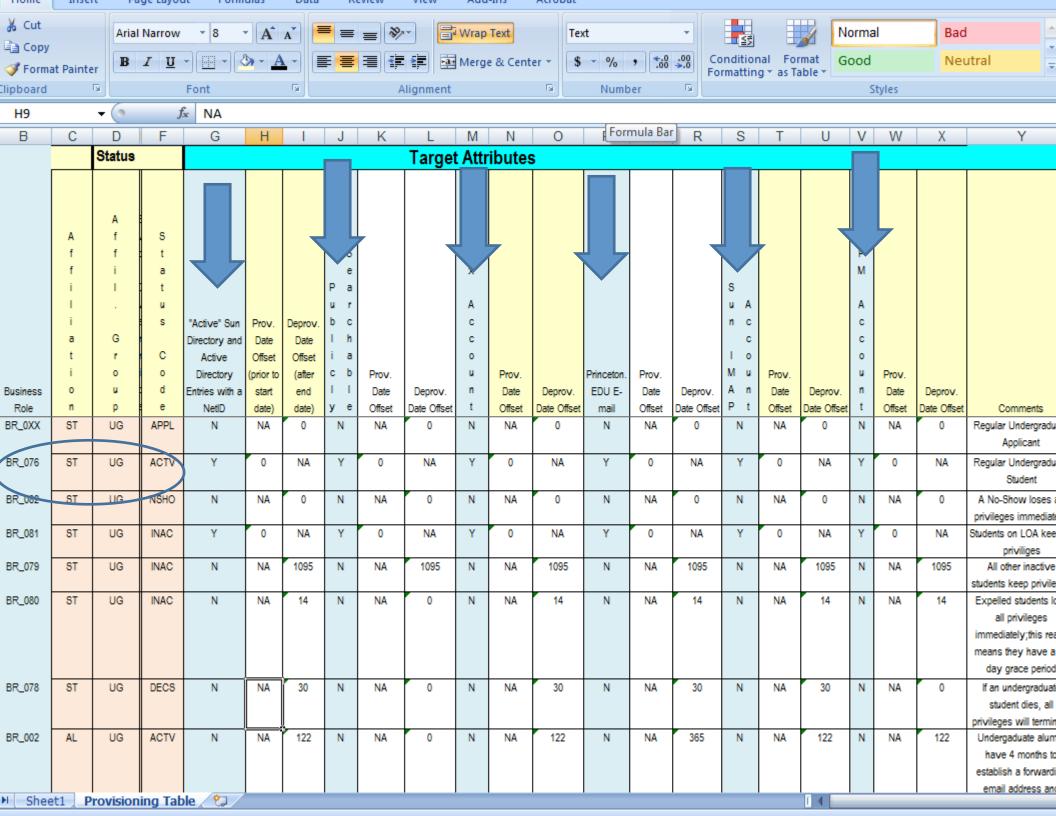
The Typical Employee Life Cycle

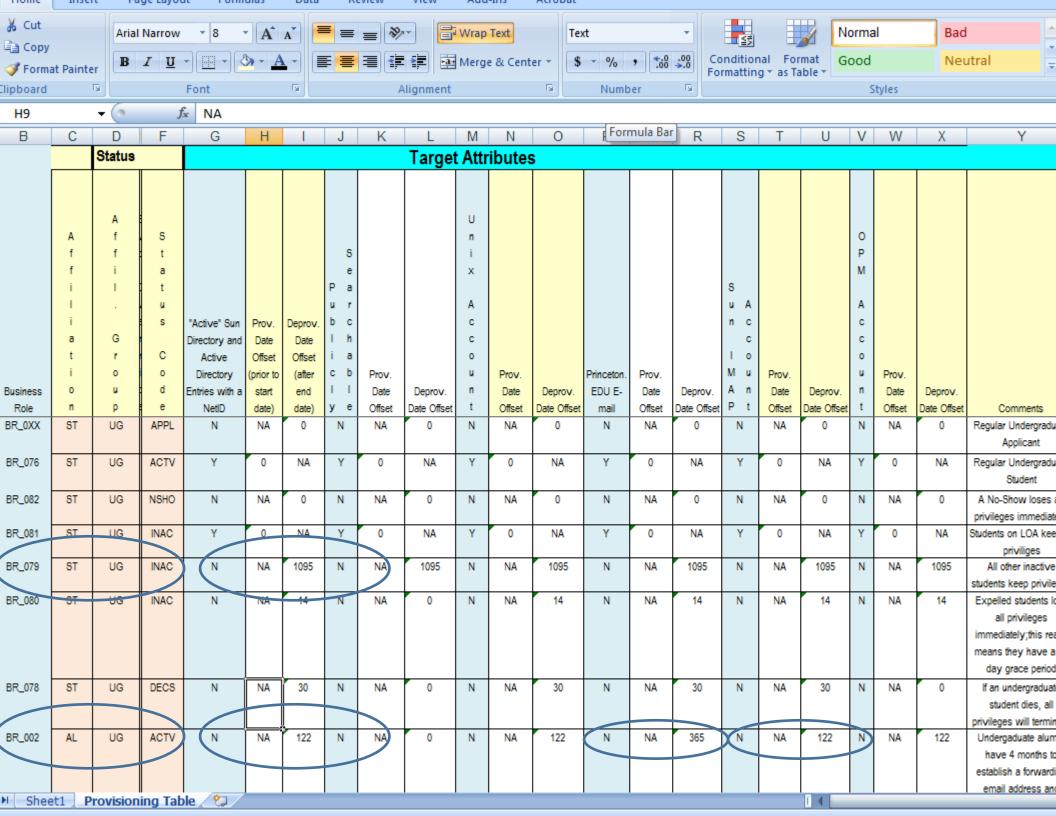
- ✓ New Applicant (does not create a person record in PeopleSoft)
- ✓ Pre-Hire (does create a record in PeopleSoft-only for faculty)
- √ Hire (does create a record in PeopleSoft)
- ✓ Change of Department
- ✓ Enrollment as a Graduate or Special Student
- ✓ Leave of Absence, Short or Long Term Disability
- ✓ Emeritus Status
- ✓ Termination
- ✓ Retirement
- ✓ Death



The Typical Student Life Cycle

- ✓ Prospect (creates a skeletal record in PeopleSoft)
- ✓ Applicant
- ✓ Admitted (we admit the student)
- ✓ Accepted (the student accepts our offer of admission)
- ✓ Matriculated (creates a student record)
- ✓ Progress Towards Degree
 - ✓ Change in Class Year; qualifying events for Graduate students
 - ✓ Stop In/Stop Out Events (leaves, withdrawals)
 - ✓ Graduation
 - ✓ Post Graduation Relationship(s)-(Second Student Career/ Employee/Trustee/Parent/Other)





IDM and Affiliates

Affiliate

- More than a guest
- Less than a Student, Staff and Faculty

Examples

- Affiliated ORU
 - UCSD School of Medicine and Childrens Hospital
 - Howard Hughes Medical Institute
- Public Service
 - Research Divers Registry
- Contractors

The Model

- Departmental Sponsorship
 - Sponsored for a specific period of time
 - Sponsored for a specific activity
 - Only required information collected

Different Levels

- Low level sponsorship
 - Non-sensitive systems
- High level sponsorship
 - Identity proofing
 - Access to sensitive/transactional systems
 - Departmental officer approval

UC Berkeley Guest Access Management

March 2010 JASig Conference Presentation

Dedra Chamberlin

Manager, CalNet - Identity and Access Management

Current CalNet Affiliates

- Variety of affiliations with varying levels of access
 - Contractor
 - Retired
 - Visiting Scholar
 - Volunteer
 - LBL/DOE Post Doc
 - LBLOP Staff
- Must be added to HR system by HR administrators
- One year maximum with option for renewal

Problems with Current Systems

- Affiliations have been created ad hoc over the years don't always meet access needs for particular guests
- HR administration creates a lot of overhead for establishing guest access
- Many departments have created their own standalone user account systems, with local administration and inconsistent de-provisioning (costly and insecure)

Sample Stand-Alone Guest Systems

- Guest Wireless Access
- Residential and Student Services Co-habitants
- Sakai (bSpace)
- Active Directory ! accounts
- The list goes on

Guest Account Management Project

Guest Account Taskforce created

Plan A

Quick project to centralize guest accounts for departmental apps - save the complicated stuff for later

Plan B

Oops.

- movement between guest and non-guest systems
- accounts vs. authorizations

Plan C

Just start integrating something!

Guest Wireless - AirBears

UC TERELE	Skip to main content Contact IST Search:	Go
IST Home > IST Services > Data Network	Logged in as: Dedra CHAMBERLIN vork Home > AirBears > AirBears/VPN Guest Account Service > AirBears/VPN Guest Account Manager	N Logout
	AirBears/VPN Guest Account Manager	
Navigation View/Modify Existing Accounts Reset Password(s) Modify Start Date(s) Modify Duration(s) Delete Account(s) Display Account Form(s) Create New Accounts Show Help	Note: Requests which result in a total number of guest accounts greater than 100 will be held for approval. You currently have 0 active or pending account(s) and may create 100 additional account(s) without approval. If you need to create more then 100 accounts, fill out the form below and click on Create New Account(s) after which you will be asked to describe why you need the additional accounts and provide an email address. If you do not need to create more then 100 accounts, fill out the form below and click on Create New Account(s) to create your accounts. Create New Account(s) Number of accounts to create: Date from which accounts are valid: (MM/DD/YYY) Duration of account(s): UC Berkeley UC Berkeley CIO Campuswide IT Services Copyright 2008 The Regents of the University of California. Site Map Contact AirBears Guest Account Help	Guest ce Wireless LAN

Guest Wireless - AirBears



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IST Home > IST Services > Data Network Home > AirBears > AirBears/VPN Guest Account Service > AirBears/VPN Guest Account Manager

AirBears/VPN Guest Account Manager

Navigation

View/Modify Existing Accounts

Reset Password(s)

Modify Start Date(s)

Modify Duration(s)

Delete Account(s) Display Account Form(s)

Create New Accounts

Show Help

Request Processed

Your account creation request is complete. New accounts may not be available for use for up to 10 minutes. Account forms for your new account(s) are below.

Below are account forms for your new guest accounts formated for easy printing and distribution.

UC Berkeley AirBears Wireless Network Guest Account

Username: quest-mimdj Password: BPLYQIY2Vh

Use of this account denotes acceptance of the terms and policies set forth in the following websites:

http://airbears.berkeley.edu/Notice.shtml - AirBears Notice http://technology.berkeley.edu/policy/ - Campus IT Policy https://security.berkeley.edu/MinStds/ - Minimum Standards for Networked Devices

Account valid: 03-04-2010 - 03-06-2010

UC Berkeley AirBears Wireless Network Guest Account

Username: quest-adifl Password: W7JNFNgPGN

Use of this account denotes acceptance of the terms and policies set forth in the following websites:

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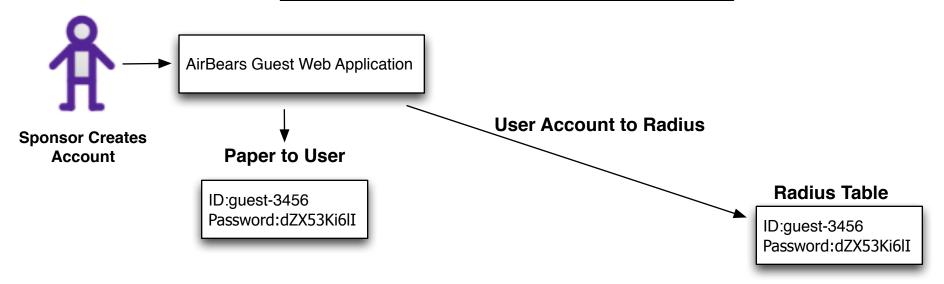
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Other Resources

- AirBears/VPN Guest Account Service
- . AirBears: the Wireless LAN Project
- · Campus VPN Service

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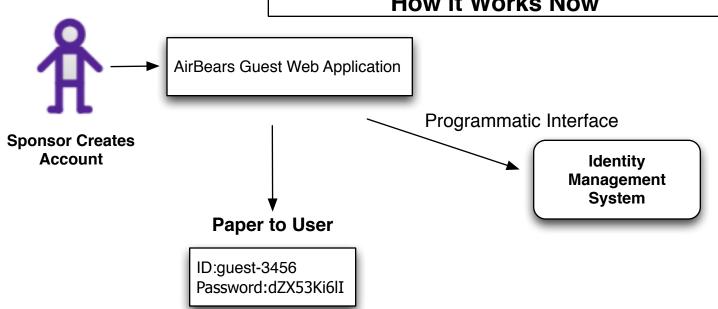
Guest Access Management - AirBears How it worked in the past

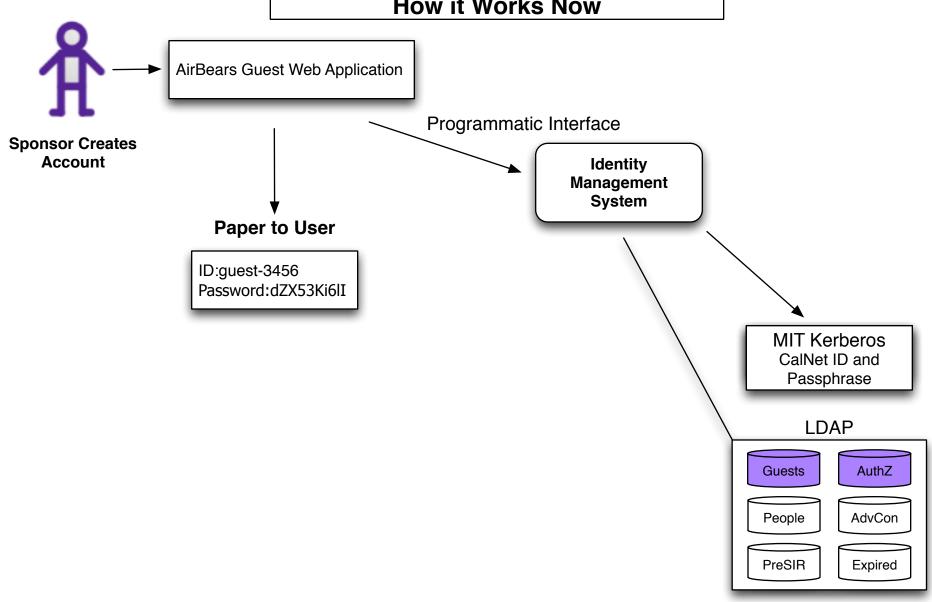


Guest Access Management - AirBears How it worked in the past

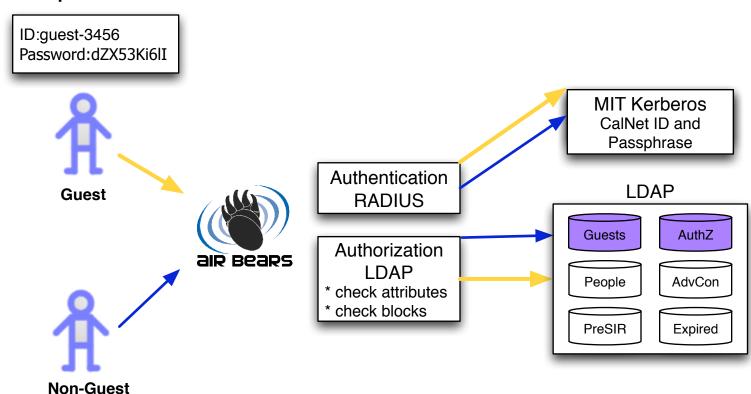
Paper to User Radius Table ID:guest-3456 Password:dZX53Ki6lI ID:guest-3456 Password:dZX53Ki6lI MIT Kerberos CalNet ID and Passphrase Authentication Guest **RADIUS** LDAP Authorization AdvCon air Bears People **LDAP** * check attributes **PreSIR** Expired * check blocks

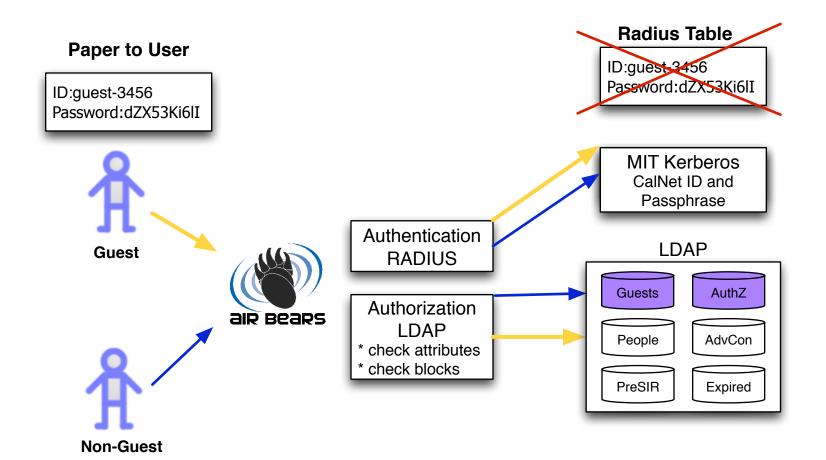
Non-Guest



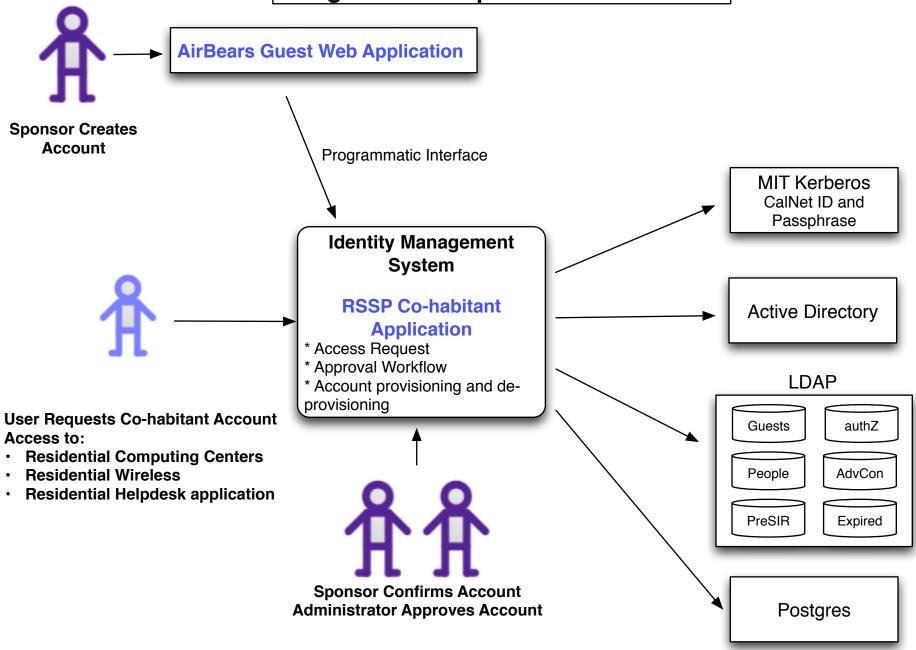


Paper to User





AirBears and RSSP Co-habitant Access Programmatic Input vs IMS Interfaces



Thoughts on Overall Guest Account Design

Role: Short-Term Guest

Guest types:

- Wireless access
- Conference Guests
- AFS document sharing

Account Parameters:

- Duration Maximum 1 month
- Namespace defined by required prefix: "guest-"
- Sponsorship required
- Level of Assurance None
- De-provisioning one year after sponsorship expires

Role: Extended Guest

Guest types:

- Guest lecturers
- Visiting Scholars
- Co-habitants
- Auditors
- Current CalNet affiliates?

Account Parameters:

- Duration Maximum 1 year (allow renewal)
- Namespace use standard CalNet ID to facilitate migration of account and associated authorizations if person obtains non-guest status (gets hired or becomes a student)
- Sponsorship required
- Level of Assurance: Tiered
- De-provisioning one year after last sponsored authorization expires

Questions and Discussion