Banner Student Application Profile

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**Application Overview**

1.1 **Purpose of Application:**
The Banner Student application is a module in the University of Alabama’s primary Enterprise Resource Planning application (Banner). Banner Student encompasses Office of the University Registrar processes such as Registration, Course Scheduling, Grade Entry, Graduation, as well as Bama Dining. In addition there are numerous data feeds of student data to other systems such as Parking, Campus Mail, GradesFirst, etc...

1.2 **Business Drivers:**
This application supports many administrative business processes. The system also provides the ability to manage staff and students within the University.

1.3 **Roles and Responsibilities:**
- EDAS Development Team manages the Application Server Support
- EDAS Data Resources Team manages the Databases.
- EDAS Banner Student & HR Team manages the functional application support
- Other roles include
  - Data Stewards
    - Office of the Registrar: Ken Foshee
    - Bama Dining: Sylvia Fulgham puts in CSRS for Kristina Hopton-Jones
  - Business Owner
    - Office of the Registrar: Ken Foshee
    - Bama Dining: Kristina Hopton-Jones
1.4 Roadmap:
The University will continue to upgrade each module as requested by customers based on Ellucian release schedule. The updates are released typically twice per year as a bundle upgrade.

1.5 Components:
The two main components of Banner are:

- **Self Service Banner** - Pages linked from myBama that allow users (i.e. students) update information.
- **Internet Native Banner** - Tool utilizing Oracle Forms which allows UA faculty/staff to update data in the Banner system.

Additional Related Applications:

These include but are not limited to the following:

- Degree Works
- Maxient
- Banner Workflow
- Bama Dining
- APEX Applications

1.6 System Diagrams:
1.7 Process Documents:
Disaster Recovery Information

2.1 Disaster Recovery Overview
The Banner system is currently replicated at the Atlanta disaster recovery site. Data is transferred on average every fifteen minutes to the DR site as archive logs at UA fill up and "roll over" to the DR database. As well, the Banner system is backed-up via physical tape drive.

2.2 Administration and Authentication
In the event of a DR situation, the onsite LDAP authentication method will be switched to a CAS authentication server in Atlanta.
2.3 Notification System

**Banner DR Notification:** Emails and text alerts will be sent out to employees and system administrators that utilize the Banner system. This alert will inform users that the University is under a disaster recovery situation and current Banner processes will be running from the Atlanta DR site until a specified time.

**Applications Connecting to Banner:** Email and text alerts will be sent out to application users and administrators running systems that connect to the banner database. This notification will instruct application owners to point their applications to reference the DR Banner databases in Atlanta.

2.4 Switchover Plan

The Systems team will initiate the steps whereby ensuring all the necessary core dependencies are available for the Banner system. At this point the Data Resources team in Enterprise Development and Application Support (aka EDAS) will start the Banner database in Atlanta. Other EDAS staff will redirect all Banner dependent applications to the DR site. Tests will then be performed to ensure everything is working properly.

**Switchover Checklist**

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
<th>Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Systems will ensure all necessary core dependencies are available for the Banner system (LDAP, Firewall, Load Balancer)</td>
<td>Systems Team</td>
</tr>
<tr>
<td>2.</td>
<td>System team will ensure the storage is up and running correctly</td>
<td>Data Resources Team</td>
</tr>
<tr>
<td>3.</td>
<td>The primary database at UA will be switched to become the standby database. The primary database at the Atlanta DR site will be switched to become the primary.</td>
<td>DBA – Debbie Walsh</td>
</tr>
<tr>
<td>3.1</td>
<td>On Primary and standby: Verify Primary and Standby TEMP Files Match</td>
<td>DBA – Debbie Walsh</td>
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<tr>
<td>3.2</td>
<td>Verify redo is current on standby</td>
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<td>3.3</td>
<td>On primary: (Verify the Physical Standby Database Is Performing Properly)</td>
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<td>3.4</td>
<td>On primary: Verify it is possible to perform a switchover.</td>
<td>DBA – Debbie Walsh</td>
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<tr>
<td>3.5</td>
<td>Initiate the switchover on the primary database.</td>
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<td>3.6</td>
<td>Shut down and restart the former primary instance.</td>
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<td>3.7</td>
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<td>Switch the target physical standby database role to the primary role.</td>
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<td>3.9</td>
<td>Finish the transition of the standby database to the primary role.</td>
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<td>3.10</td>
<td>On new standby (old primary): (start receive of archivelogs)</td>
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<td>3.11</td>
<td>On new primary at DR: (start send of archivelogs)</td>
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AppWorx will be tested against the Banner System for functionality

Application Servers will be brought up and made live for production

Robert Harris

Systems Team
### 2.5 Failover Plan

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### 2.6 Verifying DR Switchover

1. Connect to the database in TOAD
   1. Check a table to see that data is current. (i.e. UA_SATURN.SWRTOUR_ENVER)
2. Connect to AppWorx
3. Login to Banner INB
   1. Check that the following INB Forms load data properly
      1. SFAREGS
      2. SOATERM
      3. SCACRSE
      4. SSASECT
      5. SIAINST
      6. SIAASGN
4. Check applicable SSB pages
   1. Check Student Detail Schedule or Week at a Glance under Student Services/Registration
2. Check Enrollment Verification under Student Services/Student Records/Order Current Enrollment Verification (If you check this you can skip step 5.1 below)

5. Check APEX Applications
   1. Run Enrollment Verification https://ssb.ua.edu/pls/APEX_PROD/?p=263
   2. Log into SWIS as a student and admin
      1. Student https://ssb.ua.edu/pls/APEX_PROD/?p=221
      2. Admin https://ssb.ua.edu/pls/APEX_PROD/?p=253

On switchback, verify that all of the data from the tests pulls back over.