

*“We Help  
Put America  
Through  
School”*

# **EAI Integration Monthly Meeting**

**February 7, 2002**

# EAI Integration Monthly Meeting Schedule



| Date              | Location   | Time        |
|-------------------|------------|-------------|
| December 6, 2001  | Room 221 B | 10:00-11:00 |
| January 10, 2002* | Room 221 A | 10:00-11:00 |
| February 7, 2002  | Room 221 A | 10:00-11:00 |
| March 7, 2002     | Room 221 A | 10:00-11:00 |
| April 4, 2002     | Room 221 A | 10:00-11:00 |
| May 2, 2002       | Room 221 A | 10:00-11:00 |
| June 6, 2002      | Room 221 A | 10:00-11:00 |
| July 11, 2002*    | Room 221 A | 10:00-11:00 |
| August 1, 2002    | Room 221 A | 10:00-11:00 |
| September 5, 2002 | Room 221 A | 10:00-11:00 |

 Completed

 Upcoming

\*These meetings will be held on the second Thursday of the month due to holidays.

# Agenda



## EAI Core Support Services

Interface Requirements

Status

Business Functions

Appendix A: How to get “On the Bus”

# Services provided to Application teams by EAI Core Support are comprehensive. They include:



## EAI Core Services Support

| Business Integration Design  | Architecture Design  | System Installation/ Admin  | Interface Development   | Performance Testing  | Operations Support and Maintenance  |
|--|--|---|---|--|---|
| <ul style="list-style-type: none"> <li>• How can applications integrate with the Enterprise Solution?</li> <li>• What are Application/ Trading Partner business needs?</li> <li>• If data transformation is necessary, what are Application/ Trading Partner data specifications?</li> </ul> | <ul style="list-style-type: none"> <li>• Determine application needs: Online &amp;/or Batch</li> <li>• Assess application needs</li> <li>• Propose EAI Solution</li> </ul> | <ul style="list-style-type: none"> <li>• Install EAI Products</li> <li>• Configure EAI Products</li> <li>• Administer EAI products</li> </ul> | <ul style="list-style-type: none"> <li>• Install MQ SW</li> <li>• Configure MQ SW &amp; Verify</li> <li>• Build Application Interfaces with or without application team assistance</li> <li>• SME support during application testing</li> </ul> | <ul style="list-style-type: none"> <li>• Measure message response time</li> <li>• Analyze Data Throughput rates</li> </ul> | <ul style="list-style-type: none"> <li>• EAI SME Support</li> <li>• EAI Architecture Upgrades /Patches</li> </ul> |



# EAI Key Points of Contact:

| System/Initiative  | EAI Lead   |
|--|--|
| <ul style="list-style-type: none"> <li>▪ eServicing</li> <li>▪ DMCS Replacement</li> <li>▪ CSID &amp; PEPS Replacement,</li> <li>▪ Financial Partners Data Mart</li> <li>▪ FARS Retirement</li> <li>▪ Enterprise Data Warehouse</li> <li>▪ NSLDS Re-engineering</li> </ul> | <p><b>Eric Suzuki</b><br/> <a href="mailto:Eric.N.Suzuki@accenture.com">Eric.N.Suzuki@accenture.com</a><br/>           (202) 962-0743</p>      |
| <ul style="list-style-type: none"> <li>▪ e-Campus Based</li> <li>▪ FAFSA on the Web</li> <li>▪ SFA Portal</li> <li>▪ Single Sign On &amp; Security</li> </ul>  | <p><b>Julian Ackert</b><br/> <a href="mailto:Julian.Ackert@accenture.com">Julian.Ackert@accenture.com</a><br/>           (202) 962-0734</p>    |
| <ul style="list-style-type: none"> <li>▪ Consistent Answers</li> <li>▪ Business Integration</li> </ul>   | <p><b>Bruce Kingsley</b><br/> <a href="mailto:Bruce.Kingsley@accenture.com">Bruce.Kingsley@accenture.com</a><br/>           (202) 962-0793</p> |
| <ul style="list-style-type: none"> <li>▪ FMS</li> </ul>  | <p><b>Lauren Brett</b><br/> <a href="mailto:lgbrett@rsgltd.com">lgbrett@rsgltd.com</a><br/>           (202) 962-0733</p>                       |
| <ul style="list-style-type: none"> <li>▪ LO Web</li> </ul>   | <p><b>Barnet Malkin</b><br/> <a href="mailto:barnet@bitSMART.com">barnet@bitSMART.com</a><br/>           (202) 962-0645</p>                    |
| <ul style="list-style-type: none"> <li>▪ COD</li> </ul>  | <p><b>Scott Gray</b><br/> <a href="mailto:sgray@rsgltd.com">sgray@rsgltd.com</a><br/>           (202) 962-0795</p>                             |

# Agenda



EAI Core Support Services

**Interface Requirements**

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Appendix A: How to get “On the Bus”

# Interface Requirements



Please see attached document: Interface Partners 020602.

# Agenda



EAI Core Support Services

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Appendix A: How to get “On the Bus”

# Status



| Application | Status   |
|-------------|--|
| FMS         | <ul style="list-style-type: none"><li>▪ Completed performance testing for FMS-COD interface between FMS and the EAI Bus.</li><li>▪ Planning System Integration Testing between COD and EAI (2/25).</li><li>▪ Planning Integrated Systems Test between COD, FMS, and EAI (3/6).</li></ul> |
| eCB         | <ul style="list-style-type: none"><li>▪ Finalizing interface between eCB and the EAI bus for file transfer to FMS. (3/15 go-live date)</li></ul>   |
| PEPS        | <ul style="list-style-type: none"><li>▪ PEPS interface to the EAI Bus went live in the production environment.</li></ul>   |
| DLSS        | <ul style="list-style-type: none"><li>▪ EAI Architecture was approved for Production deployment on DLSS by ACS.</li><li>▪ Deployment date is 2/8.</li></ul>  |
| eServicing  | <ul style="list-style-type: none"><li>▪ MQ and DataIntegrator configuration complete.</li><li>▪ Initial communication testing begins 2/6.</li></ul>  |



# Major Issues

| Issue   | Status  |
|---|---|
| <p>EAI is working with ACS to develop a strategy and schedule for upgrading OpenVMS and MQSeries.</p> | <p>The proposed strategy is to wait to implement the OpenVMS upgrade. Current software versions of the EAI architecture will be deployed to Production. Once the new version of the Data Integrator product is released, then upgrades for DataIntegrator, Open VMS, and MQSeries will be tested and implemented at once.</p>   |
| <p>MQSeries problems on the DLSS development environment.</p>   | <ul style="list-style-type: none"> <li>•The DLSS development environment is required for FARS Retirement and COD testing.</li> <li>•Additional physical memory has been installed.</li> <li>•Per ACS's request, conducted stability testing to verify that the problem has been resolved.</li> <li>•The file creation performance issue a characteristic of the operating system (OVMS) and MQSeries 2.2. Upgrading to MQSeries 5.1 should improve performance.</li> <li>•The interface based on the current development configuration (MQ Series 2.2) will be migrated into production on Feb 10, following a reboot on Feb 8.</li> <li>•The current version of Data Integrator does not function with MQ 2.2. Commerce Quest will provide a rebuilt version certified to operate with MQ 5.2 on Feb 22. This will provide adequate time for testing prior to upgrading production to OVMS 7.2. and MQ 5.1.</li> <li>•Mod Partner and ACS have coordinated a migration plan for the upgrades.</li> </ul> |

# Agenda



EAI Core Support Services

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**Business Functions**

Appendix A: How to get “On the Bus”

# Business Functions Installed



| Function                       | System | Description  |
|--------------------------------|--------|--|
| Direct Loan Exit Counseling    | NSLDS  | Provides NSLDS-based loan status information to Direct Loan holders during web-based exit counseling.  |
| Ombudsman Case Resolution      | NSLDS  | Provides automation of the NSLDS-based loan information to Ombudsman caseworkers.  |
| Direct Loan Portfolio Analysis | CMDM   | Provides Direct Loan transaction details and demographic data to the Credit Management Data Mart (CMDM) to support Direct Loan portfolio analysis. |



# Business Functions In Progress

| Function                         | System                 | Description   |
|----------------------------------|------------------------|---|
| School Eligibility Verification  | PEPS                   | Provides School Eligibility data to eCB. Scheduled to provide School Eligibility data to COD when COD goes live.  |
| Student Eligibility Verification | TBD                    | Validates student eligibility for Direct Loan, Pell Grants, and Campus-Based awards. The Direct Loan and Pell data are provided to COD, the Campus-Based data are provided to eCB.                |
| Direct Loan and Pell Accounting  | COD                    | Posts financial and non-financial accounting events for Direct Loans and Pell Grants.   |
| Direct Loan Tracking             | COD                    | Provides loan Bookings to DLSS to record Direct Loans as soon as they are booked to enable repayment and deferment calculations.  |
| Promissory Note Information      | Imaging System or eMPN | Provides Promissory Note Information to COD.  |
| Pell Grant Notifications         | COD                    | Notifies NSLDS daily of changes in status of Pell Grants.   |
| Originations and Disbursements   | SAIG                   | Disbursement requests from Schools for individual Pell Grants and Direct Loans are sent through SAIG to COD, either in the new Common Record format, or the current Direct Loan and Pell formats. |



## Additional Business Function Planned

| Function  | System | Description  |
|---|--------|--|
| Campus Based Summary for FISAP                        | COD    | Summarizes Campus Based results each year for each School, providing eCB with pre-populated fields on the FISAP. Saves schools from tracking/calculating the annual statistics themselves. |
| Direct Loan and Pell Status for an Individual Student | COD    | Provides transaction information regarding current award status for an individual student for both Pell Grants and Direct Loans to SFA systems requiring this data.                        |
| FAFSA Status for an Individual Student                | CPS    | Provides status of the FAFSA for an Individual Student in response to a request.   |
| Student Aid Record for an Individual Student          | CPS    | Provides the results for an individual student of its eligibility determination, including the Expected Family Contribution for need based aid.  |



## Additional Business Function Planned (cont'd)

| Function  | System | Description  |
|---|--------|--|
| Direct Loan Repayment Status for an Individual Student  | DLSS   | Provides the Direct Loan Repayment Status for an Individual Student in response to a query with the student identifier data. The Status includes current loan balance, payment history, and recent transactions. |
| Debt Collection Status for an Individual Student        | DMCS   | Provides the Debt Collection Status for an Individual Student in response to a query containing the Student's identifying data.  |
| Campus Based Award Status for an Individual Student     | eCB    | Provides the award status for an individual student in response to a query containing identification data for a particular student.  |
| Student Aid Financial History for an Individual Student | NSLDS  | Provides a complete history of financial aid for an individual student in response to a query containing the identification data for a particular student.   |



# Proposed Business Functions

| Function                  | System   | Description   |
|---------------------------|----------|---|
| Individual Authentication | PIN Site | Provides identification data about a particular individual, including a PIN. The PIN Site responds with an indication of whether or not that individual was authenticated. (Proposed capability under discussion.)  |
| Student Address Update    | TBD      | Captures student address update information from any one of multiple SFA systems, validates the update with the System Owner of the student address, and distributes the update to the other SFA systems that keep student addresses.<br>Provides all subscribing SFA systems with the most current student address data available. |
| Imaged Document Data      | ERM      | Provides data about documents that have been imaged. The data are provided either in response to a query containing document identifier, or published to applications that have indicated an interest in particular types of documents.   |

# Next Meeting



March 7, 2002

# Agenda



EAI Core Support Services

Interface Requirements

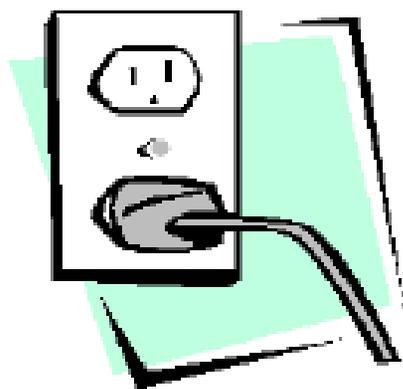
Status

Business Functions

**Appendix A: How to get “On the Bus”**



## Building an EAI Interface



- **EAI provides services to application teams.**
- **The EAI Core Team implements the EAI products on the target system platforms and validates the ability to process system functionality.**
- **Application development teams plug into these services and develop application interfaces.**



# Building an EAI Interface Is a Joint Effort

| <b><i>Task</i></b>  | <b><i>EAI Team Responsibility</i></b> | <b><i>Application Team Responsibility</i></b> |
|---|---------------------------------------|---|
| Identify target machine   | Support                               | Primary                                       |
| Assess Target Machine (HW Capacity, OS Versions, etc.)  | Primary                               | Primary                                       |
| Install MQ Software (MQ Series, Data Integrator, MQMon)   | Primary                               | Support                                       |
| Configure MQ Software and Verify (May include building an interface for test purposes)  | Primary                               | Support                                       |
| Identify Application Interface Functions (Define functional requirements, formats, layouts, Prepare Interface Control Document) | Support                               | Primary                                       |
| Build Application Interfaces  | Support                               | Primary                                       |
| Test Interfaces   | Support                               | Primary                                       |
| Migrate Into Production   | Primary for Infrastructure            | Primary for Application Interface             |



# Steps to implement Interfaces.

