Automating the MMAP Process - Examples from Pilot Colleges

Multiple Measures Assessment Project
September 6, 2017
Featuring:
Gerlie Jeltema and Loris Fagioli, Irvine Valley College
Sam Ballard, San Diego Community College District
Jesse MacEwan, Ohlone College

Connecting to sound via teleconference? Phone: 888-886-3951 Passcode: 340223

Overview and notes

• Today’s presentations use the MMAP Data Match process for new students as a leaping off point. Slides from the Implementation Webinar on that process will be included as a resource at the end of this presentation when posted.
• Additional resources (tools, sample code) referenced in this webinar will be made available at the MMAP webpage.
• Contact information for each of the presenters and the MMAP team are at the end.

• Upcoming webinars
  • September 26th - 1:00 p.m. to 2:30 p.m. - Implementing and Improving Your MMAP Process - Examples from Pilot Colleges
    Presenters: Cuyamaca College, Skyline College, and Imperial Valley College
  • October 6th - 12:00 p.m. to 1:00 p.m. - Maximizing High School Transcript Information for MMAP
    Presenters: Ken Sorey and John Hetts, EdResults Partnership/CalPASS Plus
Irvine Valley College

Gerlie Jeltema and Loris Fagioli

*Note – the slides that follow are placeholders/screenshots. Their portion of the presentation they will largely be screen sharing so watch the recording of the webinar to review.
Takes an assessment exam
Student Assessment Results imported
Assessment Placement data is persisted
Disjunctive Logic for Placement is executed
Student is notified of placement result
SIS Student Characteristic Placement Source is persisted
Preq Token granted when applicable

Multiple Measures Pilot Process Flow
(collect MM at Application, calculate Placement at Test Completion – for a Discipline)

We do NOT need to consider whether or not the student is required to matriculate. If they test, check for MMAP Placement.

MMAP Placement is discipline specific; Calculate MMAP placement only for the discipline the student took a test in;

*** We may need to recalculate the MMAP Placement on the self-reported data; Students reapplying may have conducted activities that support a change in MMAP Placement; There should only 1 MMAP Placement; This needs to reference to MM data source (Fall 2014 App self-reported MM vs. Fall 2011 App self-reported MM)

*** A student can appeal and get a different MMAP placement. This does not need to be systematized. Matriculation folks can manually set the student’s placement

Content is simple: “Your <discipline> placement is now available. Please visit MySite to view your placement information.”
### Placement List

**Student No.** 1092183-Jelma, Sophie Rae Caliday

<table>
<thead>
<tr>
<th>Source Type</th>
<th>Test ID</th>
<th>Test Description</th>
<th>Test Date</th>
<th>Score</th>
<th>Placement Code</th>
<th>Placement Course</th>
<th>Placement Date</th>
<th>Comments</th>
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<tbody>
<tr>
<td>SYS5</td>
<td>882000</td>
<td>MM CalPASS Math Placement</td>
<td>9/5/2017</td>
<td>5.00</td>
<td>Beginning Algebra</td>
<td></td>
<td>9/5/2017</td>
<td></td>
</tr>
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<td>SYS5</td>
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<td>MM Self-Reported Math Placement</td>
<td>9/5/2017</td>
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<td>9/5/2017</td>
<td></td>
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<td></td>
<td>9/5/2017</td>
<td></td>
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<tr>
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<td>Math Placement</td>
<td>9/5/2017</td>
<td>0.00</td>
<td>Beginning Algebra</td>
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<td>MM CalPASS English Placement</td>
<td>9/5/2017</td>
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<td>English 300, 390</td>
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<td>882005</td>
<td>MM Self-Reported English Placement</td>
<td>9/5/2017</td>
<td>15.00</td>
<td>English 1A; English 1AH</td>
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<td>9/5/2017</td>
<td></td>
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<tr>
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<td>882006</td>
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<td>9/5/2017</td>
<td>15.00</td>
<td>English 1A; English 1AH</td>
<td></td>
<td>9/5/2017</td>
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</tr>
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</table>
Please read the following test scores and placement recommendations.

<table>
<thead>
<tr>
<th>Test Description</th>
<th>Test Date</th>
<th>Raw Score</th>
<th>%ile Rank</th>
<th>Total Possible</th>
<th>Course Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Placement</td>
<td>9/5/2017</td>
<td>0.00</td>
<td></td>
<td></td>
<td>English 1A, English 1AH</td>
</tr>
<tr>
<td>Math Placement</td>
<td>9/5/2017</td>
<td>0</td>
<td></td>
<td></td>
<td>Beginning Algebra</td>
</tr>
</tbody>
</table>
Automating the MMAP Process
San Diego Community College District

September 2017
Create Timeline and Cohort

• Application deadline
• First day of registration
• Create Cohort
• Disjunctive approach
Upload Data to Cal-PASS Plus

• Process raw data into specified format (.txt)
• Upload to Cal-PASS Plus for matching
  • https://www.calpassplus.org/CalPASS/Home.aspx
• Create cohort
• Download matched file after notification
Process Matched Data

- Process raw data
  - Automated using syntax
- Compare placements levels
  - Accuplacer vs. MMAP
- Select transfer level placements
- Upload a student file into student information system
Notifying Students

• Students are notified via email and phone
• Counselors and VPIs notified
• Student list provided to colleges
Example Email

Dear {name_first},

Good News! Based on the information we received from your high school transcripts (e.g., honors English grades, GPA, and CST scores) we have re-evaluated your original placement level and upgraded it to eligibility for transfer level English (R5/W5), which means you may enroll in a transfer level English class. Please take advantage of this opportunity! If you have any questions, please see a counselor at the college you wish to attend.

Check Student Web Services for complete hours of operations.

Thank you,

Student Services
Implementation

• Team: Counseling, Assessment, IT, and Research and Planning
• Goals:
  • Apply MMAP to as many students as possible
  • Automate the process where possible
• Student Information System (SIS)
  • Colleague
• Process
  • Take risks!
Testing Process

Research:
1. Upload student applications to Cal-PASS
   1. Applying MMAP to grads <5 years
2. Generate a file to load into Accuplacer

Assessment Specialist:
1. Loads file to Accuplacer using Student pre-registration under Student vouchers
2. Enter data for students who were not preloaded
Testing Center

- 2400 total testers
- 770 missing at least one MMAP placement
- 350 petitions - some never tested

- For students with no match need to enter User Defined Fields (UDF) under reports
Create a conversion table

<table>
<thead>
<tr>
<th>Math</th>
<th>MMAP Placement Level</th>
<th>Writing</th>
<th>Reading</th>
</tr>
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<tr>
<td>0 = No Data</td>
<td>0 = No Data</td>
<td>0 = No Data</td>
<td>0 = No Data</td>
</tr>
<tr>
<td>1 = Math 190/192</td>
<td>4 levels below college</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 = Math 191</td>
<td>3 levels below college</td>
<td>1 = See Counselor</td>
<td>1 = See Counselor</td>
</tr>
<tr>
<td>3 = Math 151</td>
<td>2 levels below college</td>
<td>2 = ENGL 151A</td>
<td>2 = ENGL 162</td>
</tr>
<tr>
<td>4 = Math 152/253</td>
<td>1 level below college</td>
<td>3 = ENGL 151B</td>
<td>3 = ENGL 163</td>
</tr>
<tr>
<td>5 = Math 156/159 (GE Math and Stats)</td>
<td>College level</td>
<td>4 = ENGL 101A</td>
<td>4 = No Reading required</td>
</tr>
<tr>
<td>6 = Math 167/181 (College Algebra and Trig)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 = Math 188</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 = Math 101A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Placement Rules

Accuplacer Higher

ENGL 151BW/RW

.5 RS > 74 and .5 RS < 91 and UDF W ≤ 3
and (R > 67 and R < 83) and UDF R ≤ 3

MMAP Higher

ENGL 151B/RW

(.5 RS ≤ 74 and UDF W = 3
and R ≤ 67 and UDF R = 3) or
(.5 RS < 91 and .5 RS > 74 and UDF W ≤ 3
and R ≤ 67 and UDF R = 3) or
(.5 RS ≤ 74 and R > 67 and < 83 and UDF R ≤ 3)
**MMAP Petition**

### High School Transcript

**Overall High School GPA:** 2.2

- [ ] weighted
- [ ] unweighted
- [ ] undetermined

**Transcript Grade level:**
- Completed 12th grade

**Highest Math completed with C or better:** IM 2/Alg 2
- [ ] B
- [ ] C+

**Grade in that Math class:**

**12th Grade English:**

### Multiple Measures Course Placements for English and/or Math

- **English Placement:** 1104 - ENGL 151B
- **Math Placement:** 2101 - Math 190/191/192
- **Reading Placement:** 3104 - ENGL-163
It’s worth it!

• Remain flexible
• Build relationships
• Trial and error
• Keep working at it!
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Contact Information for Presenters

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Access to Ohlone Excel File

<table>
<thead>
<tr>
<th>File</th>
<th>Owner</th>
<th>Size</th>
<th>Server</th>
<th>Progress</th>
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<tr>
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<td>JohnHettis</td>
<td>802 KB (100%)</td>
<td>Complete</td>
<td></td>
</tr>
</tbody>
</table>
Questions?
MMAP Research Team

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Slides on Data Match for Prospective Students from Implementation Webinar
Step 4: Placement recommendations using CalPASS Plus

- College staff creates file of incoming student/applicants
- Upload file to calpassplus.org
  - supplemented with any existing CCCApply data, when available

Receive back a file or files with:
- indicators showing recommended placements (CB21 levels) based on students’ high school data
- additional recommendations for eligibility for different transfer-level courses in math
- variables in dataset (parallel to retrospective data) to allow for local customization: http://bit.ly/MMAPDED

Translate CB21 recommendations to local courses/placements
- Use care with transfer-level math, especially if you have transfer-level

Import/integration with:
- assessment database/SIS*
- student support services protocols
Reading and ESL Placements Note

- Colleges vary in level of last course in discipline
  - Some have transfer-level course
    - If transfer-level course is required for completion of the sequence/satisfying graduation competency requirement, top-level course is transfer-level
    - If transfer-level course is not required/is optional and is taken by only a few students (e.g. courses like Power Reading), than top-level is one-level below
  - Other college sequences end at one or two or more levels below transfer-level

- For colleges planning to use CalPASS data for Reading and/or ESL placements:
  - Let Dan Lamoree dlamoree@edresults.org know
  - Correctly and clearly identify top-level course in each discipline
Welcome to Cal-PASS Plus, California's actionable system of data linking student performance from pre-K through 12, to college and the workplace.

Explore Data and Collaborate

Pre K-12 Schools
Community Colleges
Universities
Regional Learning Councils

Education-to-Work Pipeline

Select Region OR Select Your County

Upload Data
Download Data
STEM Dashboard

Early Childhood Education
School Readiness
Elementary Education
High School Readiness
High School
College Readiness and Access
Certificates and Degrees
Community College
Baccalaureate Completion
University
Employment Living Wage Jobs

If you haven't already, please complete the pilot college status survey: [http://goo.gl/31UJnw](http://goo.gl/31UJnw)
File Submission

This page is for submitting your data files. **We have created a new, simple process so you can upload your files without using the old "validator" system.**

This file submission takes place over SSL-encrypted protocol and files are never stored on our web servers (not even temporarily). They are immediately deposited into the secure storage, not accessible via Internet. It is more secure than FTP (SFTP, or FTPS).

**File Purpose**

- **Select purpose**
  - Help Desk
  - CALPADS
  - CAHSEE
  - STAR
  - Legacy Cal-PASS K-12 Submission
  - University Level Data Submission
  - MMAP Student Cohort File

**Links to the data descriptions and definitions found under File Purpose:**

- **CALPADS:** Submit all end of year files. Click link for more details. **Note:** For ODS Extracts made after July 2014, be sure to include the SELA file in your submission.

- **Legacy K-12:** (Pre-CALPADS) Submit Cal-PASS student, course and award extract files

- **STAR:** Submit all

- **CAHSEE:** Submit all

- **University Level Data:** All requested,
## MMAP Student Cohort Upload File

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<th>Type</th>
<th>Source</th>
<th>Description</th>
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<td>GI01</td>
<td>COMIS DED</td>
</tr>
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<td>SB00</td>
<td>COMIS DED</td>
</tr>
<tr>
<td>student_identifier_status</td>
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<td>SB01</td>
<td>COMIS DED</td>
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<td>student_birth_date</td>
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<td>SB03</td>
<td>COMIS DED</td>
</tr>
<tr>
<td>student_gender</td>
<td>X(01)</td>
<td>SB04</td>
<td>COMIS DED</td>
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<td>COMIS DED</td>
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<tr>
<td>student_first_name</td>
<td>X(30)</td>
<td>SB31</td>
<td>COMIS DED</td>
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<tr>
<td>student_last_name</td>
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<td>Amalgam of SB01 (S, C) and CCC_Apply (A)</td>
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<td>(see file for more information)</td>
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<td>Recommended For Y;A;B;C;D</td>
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<td>Recommended For Y;A;B;C;D</td>
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</tr>
<tr>
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<td>Y;NULL</td>
<td>A=Recommended For Geometry; NULL=Not Recommended</td>
</tr>
<tr>
<td>math_alg</td>
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<td>Y;NULL</td>
<td>A=Recommended For Algebra; NULL=Not Recommended</td>
</tr>
<tr>
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<td>char(1)</td>
<td>Y;NULL</td>
<td>Y=Recommended For Gen. Ed. Math; NULL=Not Recommended</td>
</tr>
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<td>Y=Recommended For Statistics; NULL=Not Recommended</td>
</tr>
<tr>
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<td>Y;NULL</td>
<td>Y=Recommended For Precalculus; NULL=Not Recommended</td>
</tr>
<tr>
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<td>Y=Recommended For Trigonometry; NULL=Not Recommended</td>
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<td>Y=Recommended For College Algebra; NULL=Not Recommended</td>
</tr>
<tr>
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<td>Y;NULL</td>
<td>Y=Recommended For Calculus I; NULL=Not Recommended</td>
</tr>
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</table>
# Student course output file

<table>
<thead>
<tr>
<th>Variable</th>
<th>Data Type</th>
<th>Values</th>
<th>Description</th>
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<tbody>
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<td>Grade Points</td>
</tr>
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<td>Grade Points</td>
</tr>
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<td>pre_alg</td>
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<td>Grade Points</td>
</tr>
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<td>alg_ii</td>
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<td>Ready for CSU or participating CCC college-level English courses</td>
</tr>
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<tr>
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<td>math_eap_ind</td>
<td>int</td>
<td>1;0</td>
<td>Ready for CSU or participating CCC college-level mathematics course</td>
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<tr>
<td>esl_ind</td>
<td>int</td>
<td>1;0</td>
<td>Selected &quot;English learner (EL)&quot;</td>
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</table>