From Enrollment to Transcript: Rostering in K-12 and HED

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The Core Use-case (s)

• It starts with:-
  – To make it easy to exchange information about the student enrollments on a course and/or attending a class

• It then becomes:-
  – To exchange information about the assignments and grades for a student enrolled on a course/class
Historic Perspective

• Enterprise
  – Starts with simple support for rostering in HED
  – Release original Enterprise 1.0 data model in 2000
  – Enterprise Services in 2004
  – Learning Information Services (LIS) in 2011
    • First appearance of grade exchange

• OneRoster
  – K-12 version of LIS
    • Simple rostering for K-12
    • LIS is too complex
    • Move from WSDL/SOAP to REST/JSON data exchange
    • Allow CSV-based data exchange
  – Versions
    • 1.0 – June 2015
    • 1.1 – April 2017
    • 1.2 – April 2018 (planned)
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OneRoster Key Objectives

• Support information exchange between a Student Information System (SIS) and a Learning Management System (LMS) in K-12

• Support data exchange for:
  – Rostering
  – Resource Allocations
  – Gradebook
OneRoster Data

• Rostering
  – People and Organisations (inc. Schools)
  – Courses, Classes and Enrollments
  – Academic Sessions (inc. Grading Periods)

• Resource Allocations
  – Resources required for a course/class

• Gradebook
  – Results (inc. score)
  – LineItems (grouping of results)
  – Categories (grouping of LineItems)
  – ScoreScales (alignment of scores – added in OR 1.2)
OneRoster Interoperability

System (LMS, SIS, Assessment, etc.)

OneRoster Web Services

CSV Files (Import/Export)

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Many Data Flows

- Student Information System (SIS)
- Learning Management System (LMS)
- Competency Framework Repository
- Learning Standards
- Competencies
- Rubrics
- 3rd Party Tools/Apps
- Web Hosted App/Content
- Launch Rostering
- Gradebook Transcript
- Rostering Gradebook
- Content
- Gradebooks

Diagram showing data flows between the systems.
Next Steps

• Specification Work
  – Internationalization
  – One K-12/HED Solution
  – Assignment and Grade Services
    • LTI/OneRoster
  – Integration with other IMS specs

• Adoption
  – ORCA Libraries
  – With IMS Japan Society - develop OneRoster Profile for Japanese K-12
  – With IMS Europe?
OneRoster Consumer API (ORCA)

- Make available off-the-shelf code libraries that implement the OR standard (1.1 & 1.2)
  - Simplifies and reduces cost of adoption
- Based upon OpenAPI 2 definition of the OR standard
- Already under development
Summary

• OneRoster 1.0/1.1 has undergone rapid adoption for K-12 in USA
• OneRoster 1.2 scheduled for public release in April 2018
• OneRoster adoption in Japan now being planned by Japanese Government
• How can IMS Europe advocate/support OneRoster adoption in Europe?
Questions & Comments