IMS OneRoster certification as a door-opener to the European EdTech market

Vigilo is a Norwegian SIS-vendor for schools, after-schools and kindergartens. In this presentation we tell why and how we use API’s to provide SIS-data from Vigilo to a variety of data consumers within the Digital Learning Ecosystem. We will demonstrate how an IMS OneRoster API-based integration via few clicks supports a seamless and automated flow of rostering data from SIS to LMS, and how this has a direct impact for students and teachers in the digital classroom.

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9.nov. 2020
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https://vigilo.no/en/om-oss/
https://site.imsglobal.org/certifications/vigilo-as/vigilo-api#certPane_nid_402736
• 2008: A communication tool for kindergartens
• 2018: We need to share class rosters!
The Vigilo OneRoster timeline

1. Implementing Norwegian national standard for data exchange in school sector (called «Pifu»), based om IMS Enterprise from 2002
2. Start implementation of OneRoster API, based on REST/JSON.
3. Start implementation of OneRoster 1.1. CSV (file export / import)

You ain't compliant until you're certified!
Oslo, 31.oct 2019, Colin Smythe, IMS Global

Summative and formative assessments in Vigilo available via IMS OneRoster API
Demo – kind of...

How to Use OneRoster API and Microsoft School Data Sync to populate and maintain groups and members in LMS
Step 1: We have class rosters/enrolments for a given school year for a set of schools.

<table>
<thead>
<tr>
<th>Last name</th>
<th>First name</th>
<th>Birth date</th>
<th>Phone number</th>
<th>Email</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>KL</td>
<td>Larsen</td>
<td>4/22/2007</td>
<td></td>
<td></td>
<td>8A</td>
</tr>
<tr>
<td>OI</td>
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<td>9/19/2007</td>
<td></td>
<td></td>
<td>8A</td>
</tr>
<tr>
<td>IP</td>
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<td>Ingrid</td>
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<td></td>
<td>8A</td>
</tr>
<tr>
<td>AJ</td>
<td>Johansen</td>
<td>Anne</td>
<td>1/7/2006</td>
<td></td>
<td>8A</td>
</tr>
<tr>
<td>LN</td>
<td>Nilsen</td>
<td>Liv</td>
<td></td>
<td></td>
<td>8A</td>
</tr>
<tr>
<td>MA</td>
<td>Andersen</td>
<td>Marie</td>
<td>5/25/2007</td>
<td></td>
<td>8A</td>
</tr>
<tr>
<td>EK</td>
<td>Kristansen</td>
<td>Eva</td>
<td>5/28/2006</td>
<td></td>
<td>8A</td>
</tr>
<tr>
<td>AJ</td>
<td>Jensen</td>
<td>Anna</td>
<td>3/26/2007</td>
<td></td>
<td>8A</td>
</tr>
</tbody>
</table>

- **Homeroom class**: 8A
- **Contact teacher**: Helen Andersen
### Engelsk 8A

**Class:** 8A  
**Subject teacher:** Helen Andersen  
**Subject name:** Engelsk  
**Room:** -  
**Number of students:** 14  
**Subject code:** ENG0008

### Students

<table>
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<tr>
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<td>Karlsen</td>
<td>Maria</td>
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*Scheduled class (Subject group)*  
*Subject teacher*
Step 2: We configure School Data sync with a few clicks

Sync Dashboard

To begin syncing your school data, set up a profile.
Choose connection type

Before you begin you need to choose a set of options that defines how your data will be synchronized. These options are stored in a Profile. Most organizations just need one profile to sync all the students, teachers and roster data.

By making school data available, you represent that you are authorized to share this data with Microsoft.

Enter a name for your profile

Hauge Skole

Choose your sync method

- Upload CSV files
  - Upload CSV files created from your SIS.

- Connect via an API ✓
  - Make a direct connection and sync your schools' data directly with your SIS

Please choose service you use

- PowerSchool API
  - Make a direct connection to PowerSchool and sync your schools' data directly with your SIS.
    - Learn more

- OneRoster® API ✓
  - Sync your school data directly from your SIS through OneRoster® APIs.
    - Learn more

Other (OAuth 2)
Step 1: Sync options

Select new or existing users

- **Existing users** - Selecting this option matches students and teachers in your source data with users already existing in Office 365 / Azure Active Directory, and adds more attributes to those users.

- **New users** - Selecting this option creates a new teacher or student account in Office 365 / Azure Active Directory for each user specified by your source data.

Import data

You've chosen to sync your data via OneRoster® API : Other (OAuth 2).
In order to proceed, please enter your API connection details.

**web access URL**

https://integrations.prod.vigilo-oas.no/api/5dc30f123/ims/oneroster/v1p1/

**client id**

5dc30f123

**client secret**

------------------------

token endpoint URL

https://integrations.prod.vigilo-oas.no/oauth/token

**Test Connection**

Looks good
Step 4: Review

Profile name: Haige Skole

Data source: OneRoster® API

OneRoster® Provider: Other (OAuth 2)

New or existing users: New users

Profile expiration date: 07/01/2021 at 00:00 UTC

Domain for teachers: vigilocas.onmicrosoft.com

Domain for students: vigilocas.onmicrosoft.com

SKU to assign licenses for teachers: STANDARDWOFFPACK_FACULTY (97 of 100 licenses available)

SKU to assign licenses for students: STANDARDWOFFPACK_STUDENT (97 of 100 licenses available)

Filter inactive entries: Enabled

Team Creation Option: Enabled

Replace unsupported special characters: Enabled

Sync option for section group display name: Section display names are synced only on first sync

Delay student access: Students will be enrolled in classes immediately

When does your school year end? 2020

Selected schools to sync

Schools

Selected properties to sync

School Properties

Section Properties

Teacher Properties

Student Properties

If everything looks right, create your profile to begin sync.

Back  Create profile
## Hauge Skole

- **Sync is complete and ready for more data**
  - Last updated: 03/16/2020, 11:29:34

### Data options

<table>
<thead>
<tr>
<th>Option</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data source</td>
<td>OneRoster API</td>
</tr>
<tr>
<td>OneRoster Provider</td>
<td>Other (OAuth 2)</td>
</tr>
<tr>
<td>New or existing users</td>
<td>New users</td>
</tr>
<tr>
<td>Domain for teachers</td>
<td>vigilecas.onmicrosoft.com</td>
</tr>
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<td>Domain for students</td>
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<td>Section display names are synced only on first sync</td>
</tr>
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<td>Delay student access</td>
<td>Students will be enrolled in classes immediately</td>
</tr>
<tr>
<td>Intune for Education</td>
<td>Intune for Education licenses will not be assigned to teachers and students</td>
</tr>
<tr>
<td>When does your school year end?</td>
<td>2020</td>
</tr>
<tr>
<td>Profile expiration date</td>
<td>01/07/2021 at 00:00 UTC</td>
</tr>
<tr>
<td>Profile Id / Instance Id</td>
<td>416994</td>
</tr>
</tbody>
</table>
Step 3: Teacher log into M365 Education and verify that Teams-groups and Teams members are synchronized
Helen Andersen
Why does this really matter?

To be IMS OneRoster certified as first SIS-system in Europe to deliver rostering data by «REST Data Provider Core» means:

- Complex implementation
  - Non-compliant API’s

- «Out-of-the-box» implementation
  - IMS OneRoster API

Integration software / 3rd party integrator / “project-based integration”

Ease of use for school administrators
- Integrity, confidentiality and availability to the digital learning ecosystem for teachers and students

School Data Sync OneRoster API
Automatic group and class site creation

Class info

SSO
Class info
Edu API

Sync tools for School IT

Powering an Education Aware Platform

Microsoft Teams

OneNote

Microsoft Intune

3rd Party Apps

Azure Active Directory & Office 365

Student Information System

Class Rosters

Students

Teachers

Classes

Final remarks

✓ It’s doable
✓ OneRoster 1.2 Europe profile seems to fit even better – and fix some issues
✓ OneRoster has a practical approach
  ➢ Good documentation and relevant examples with JSON payloads
  ➢ Good validation tools
✓ Helpful supporters
  ➢ IMS Global
  ➢ Norwegian Directorate for Education
✓ The relevance in Europe is dependant on the market adoption – data providers as well as data consumers
✓ National standards and regulations can still be a challenge...
✓ IMS Global is not ISO – challenge for adoption in Europe?
  ➢ ISO/IEC 19788