LMS Toolkit

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Overview

The LMS Toolkit helps school districts unlock, simplify, and use instructional system data. The Toolkit's initial use cases focus on student assignment completion and measurement, and on general student activity and "presence" in instructional systems. See Use Cases below for more information.

The Toolkit consists of several parts:

<table>
<thead>
<tr>
<th>Components</th>
<th>Available?</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extractors</td>
<td>Yes</td>
<td>Utilities that extracts data from important K12 instructional systems and merges that data into a common format (LMS Unifying Data Model). Note that these can be used independent of the Ed-Fi technology infrastructure and platform if desired.</td>
</tr>
<tr>
<td>Loaders</td>
<td>Underway / coming soon!</td>
<td>Utilities that push the data into the Ed-Fi platform or other compatible relational database store</td>
</tr>
<tr>
<td>Harmonizers</td>
<td>Future development</td>
<td>Utilities that help make the LMS data queryable alongside SIS data, by addressing problems such as entity identity mismatch, filtering of irrelevant MLS data, etc.</td>
</tr>
</tbody>
</table>

Which LMS systems are supported?

Tools are available for the following systems:

<table>
<thead>
<tr>
<th>Instructional System</th>
<th>User / Developer Info</th>
</tr>
</thead>
</table>

A LMS Unifying Data Model designed to aggregate data across systems is also available.

If you would like to help us build tools for your platform, please contact us!

Use Cases

The LMS Toolkit is use-case driven, and the primary use cases are

1. Providing the ability of school districts to mark attendance, especially in remote instructional contexts. That use cases is described in this analysis: [Instructional System Data to Support SEA 2020-21 Attendance Policies](https://example.com/attendance-policy)
2. Allow school districts to access student engagement data across multiple instructional products and combine that data with key data from student information systems (e.g. demographics, program participation, attendance, behavior, progress towards graduation, etc.) and assessment systems to allow teachers and administrators to make the best possible decisions about the needs of individual students. This use case is focused on 2 primary types of LMS data:
   a. attendance and participation data
   b. assignment completion and assignment measurement/grading data.

Where did the LMS Toolkit come from?

The LMS Toolkit came out of Project Fizz - the Ed-Fi community project to unlock data from instructional systems.

Unlocking this data is especially important the changes brought on by the COVID-19 pandemic. There has been a huge increase in the use of virtual and blended models of education, and giant increases in the use of online instructional systems in general. Instructional systems data is now more critical than ever to understanding student progress.

But as with all instructional and other school district tools, no one system tells the whole story of an individual student, so getting data out so it can be combined with other data is critical.

Able to contribute?

Great! We could use the help!

- **Developers**: The LMS Toolkit is ideal for community contribution and we would be happy to work with any members of the Ed-Fi community. The base repo is hosted on GitHub here: [https://github.com/Ed-Fi-Exchange-OSS/LMS-Toolkit](https://github.com/Ed-Fi-Exchange-OSS/LMS-Toolkit) Let us know if you would like to help!

- **Testers / feedback**: We also need school districts to help us try out the Toolkit and refine it. Please reach out if you would like to help in this fashion: Ed-Fi Slack: eric.jansson

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