



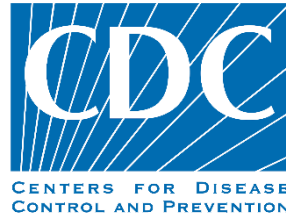
Use Case Title: HIV Aggregate Data Exchange

Overview: This interoperability showcase demonstrates how aggregate data for creating indicators is submitted automatically from OpenMRS at a health facility to DHIS2 at a national level. In many low and middle-income countries, aggregate data reports generated from EMRs are typically transported physically from health facilities for manual data entry at the subnational or national level.

Using the ADX profile for reporting helps improve completeness, accuracy, timeliness, and quality of indicator data and reduces the burden of manually entry of aggregate data. It also promotes rapid reporting scale-up of HIV aggregate data from health facilities using EMRs supporting the ADX profile.

Value: Improves completeness, accuracy, and timeliness of HIV indicator data reporting, and reduces the burden of manually entry. Promotes rapid scale up and consistent HIV indicator reporting from health facilities to district and national health authorities, and from national to international programs. Provides a way to harmonize and share aggregate metadata data required for reporting within a jurisdiction, facilitating data exchange from multiple patient level information systems to a central monitoring and evaluation system.

Scheduled times: Tuesday: 1-1:30
 Tuesday 4-4:30
 Tuesday 6-6:30
 Wednesday 1-1:30
VIP Tour: Tuesday 1:30-2

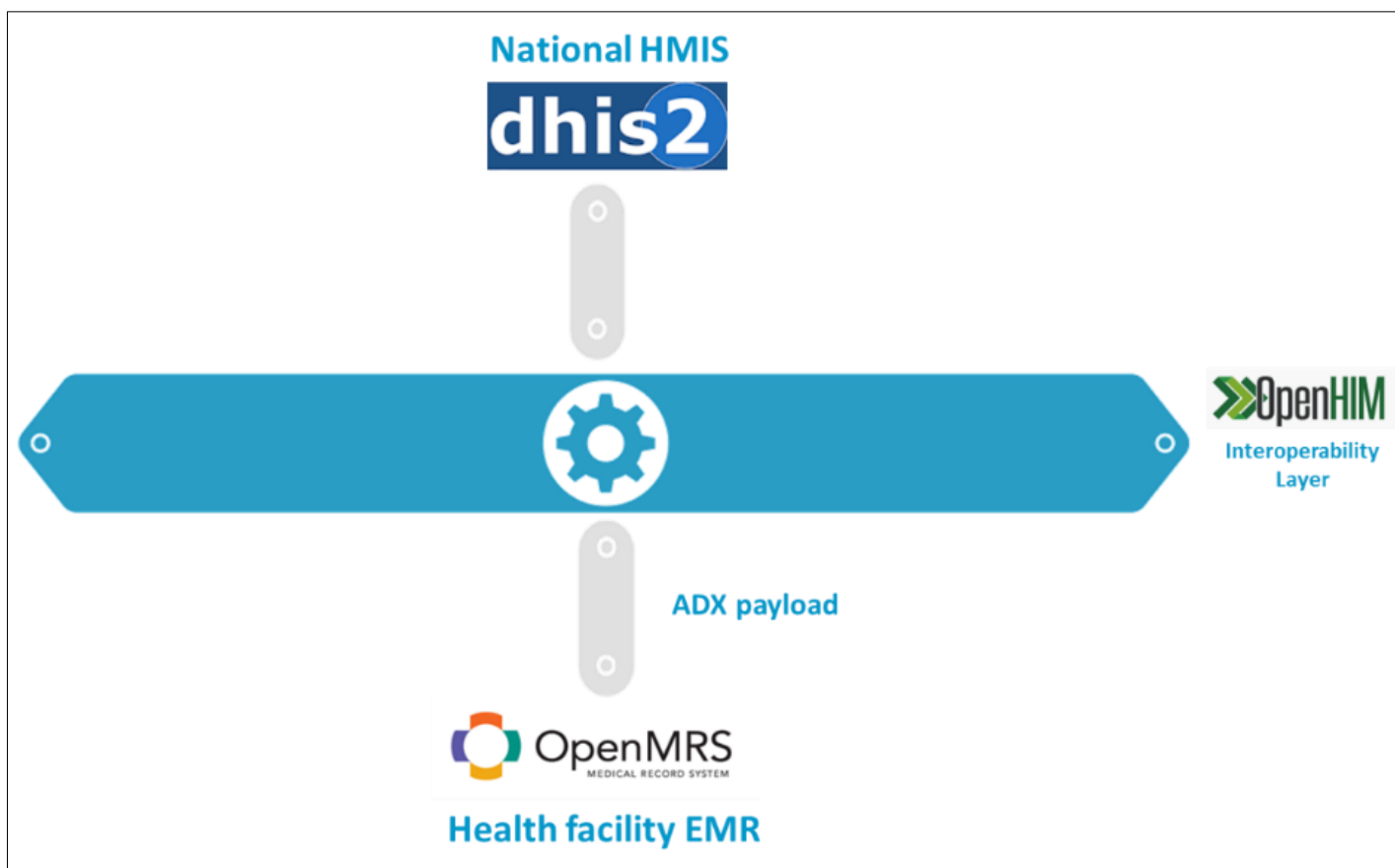


Scenario	Vendor	Products	Standards
<p>Background This interoperability showcase demonstrates how ADX-HIV, an IHE profile, is leveraged to support reporting of aggregate data for HIV indicators from an EMR to an aggregate data system. OpenMRS uses an add-on reporting module to provide functionality to 1) configure a connection between OpenMRS and DHIS 2, either as a point-to-point connection or through a health information exchange (HIE) layer; 2) upload an ADX data structure definition (DSD) containing indicator metadata; and 3) generate ADX-HIV aggregate data values for the defined aggregate data.</p>	NA		
<p>1. Monthly or Quarterly HIV Aggregate Data Generation and Transmission At the end of the reporting period, a user sends an aggregate report through the Manage Reports feature within the module. All aggregate reports for this OpenMRS instance are available in this page. Under Report Definitions, select the Post/Preview link for the ADX for HIV report. On the ADX for HIV Report Definition, select monthly for frequency, year and month for date, reporting for priority and Post to DHIS on the drop down then click the generate button. When you click on the generate button, an ADX message for HIV report is generated and sent to the HIE layer. If the message is sent successfully, a status report is displayed in OpenMRS with the values that were posted to DHIS2.</p>	Open Source	OpenMRS	IHE ADX IHE ADX-HIV
<p>2. Health Information Exchange Layer The HIE layer routes/forwards the ADX message to a DHIS 2 instance. On the HIE dashboard, there is a transaction log showing the status of the data exchange and the actual ADX message exchanged.</p>	Open Source	OpenHIM	

Scenario	Vendor	Products	Standards
3: Import of ADX-HIV Message by DHIS2 In the DHIS 2, the exchanged data can be viewed through the data entry application, or via the pivot table and data visualizer applications for analysis and visualization through the dashboard.	Open Source	DHIS 2	IHE ADX IHE ADX-HIV

Data exchange standards:

- **IHE Aggregate Data Exchange (ADX)** (Online at https://www.ihe.net/uploadedFiles/Documents/QRPH/IHE_QRPH_Suppl_ADX.pdf)
- **IHE Aggregate Data Exchange HIV Content (ADX-HIV)** (Online publication anticipated August 2018 at https://www.ihe.net/uploadedFiles/Documents/QRPH/IHE_QRPH_Suppl_ADX_HIV, Public comment version available online at https://www.ihe.net/uploadedFiles/Documents/QRPH/IHE_QRPH_Suppl_ADX_HIV_Rev1.0_PC_2018-05-29.pdf)



More details about the ADX and ADX-HIV profiles are available in the poster session.

Title: Leveraging an international standard development process to support interoperability for routine aggregate health data reporting in limited-resource environments

Poster number: 40 