

STUDENT DATA

	1	2	3	4
Data Quality	Linguistic student identifiers (e.g. first name, last name)	Linguistic plus numeric student identifiers (e.g. last name and grade level)	Unique numeric student identifiers used over time (e.g. one permanent product-assigned ID)	Integrate or import unique numeric student identifiers used by schools and other tools (e.g. SIS ID)
Data Granularity	1 unit of data (e.g. section) is available for immediate export or import	2 units of data (e.g. section, school) are available for immediate export or import	3 units of data (e.g. section, school, district) are available for immediate export or import	4 or more units of data (e.g. section, school, district, student) are available for immediate export or import
Export Process	No export; or export a non-editable, non-machine-readable file type (e.g. PDF);	Manually download a machine-readable file (e.g. CSV, XML, Excel)	Scheduled SFTP to a shared location; or direct database access; or third-party product integration with industry aligned data descriptors (CSV, XML, Excel, API access)	Industry standard aligned API with certification of APIs from appropriate industry standards body (e.g. Ed-Fi, Access 4 Learning, or IMS)
Export Security	Unencrypted transfer with minimal data restrictions (e.g. limited account permissions and data filters)	Encrypted transfer with minimal data restrictions (e.g. limited account permissions and data filters)	Encrypted transfer with data restrictions (e.g. several account permissions and data filters)	Encrypted transfer with data restrictions and procedural safeguards (e.g. VPN, authentication)
Export Frequency	On request	Weekly	Daily	Real time
Export Format	No file format; or a non machine-readable file format	Custom, consistent file format unique to the tool	Custom, consistent file format unique to the tool with updated documentation	Industry standard file format (e.g. QTI, Ed-Fi, OneRoster) with certification of APIs from appropriate industry standards body (e.g. Ed-Fi, Access 4 Learning, or IMS)
Import Process	No import; or email a file	Manually upload a machine-readable file (e.g. CSV, XML, Excel)	Scheduled SFTP to a shared location' or third-party product integration	Industry standard aligned API with certification of data formats from appropriate industry standards body (e.g. Ed-Fi, Access 4 Learning, or IMS)
Import Security	Unencrypted transfer with minimal data restrictions (e.g. limited account permissions and data filters)	Encrypted transfers with no data restrictions, account permissions, and/or data filters.	Encrypted transfer with minimal data restrictions (e.g. limited account permissions and data filters)	Encrypted transfer with data restrictions and procedural safeguards (e.g. VPN, authentication)
Import Frequency	On Request	Weekly	Daily	Real time
Import Format	No file format; or an inconsistent file format	Custom, consistent file format unique to the tool	Custom, consistent file format unique to the tool with updated documentation	Industry standard file format (e.g. QTI, Ed-Fi, xPress Roster and IEP, OneRoster) with certification of data formats from appropriate industry standards body (e.g. Ed-Fi, Access 4 Learning, or IMS)
Technical Descriptions and Examples	<p>Vendor-defined data is extracted from a tool using tool-specific interfaces (tool-specific file, database, or programmatic interface)</p> <p>Example: Downloading a PDF file of assessment data from a LMS or Assessment tool</p>	<p>Vendor/Client-defined data is extracted from a tool using tool-specific interfaces (tool-specific file, database, or programmatic interface) that may or may not leverage standards-based formats across products</p> <p>Example: Downloading/uploading a CSV or XML roster file from/to a third party app</p>	<p>Data is exchanged securely via a documented file format and/or via an API, but not in real time (ie, once a day, once a week, etc.).</p> <p>Example: Using OneRoster Gradebook Services with periodic sync or Ed-Fi summative Assessment Outcomes composite</p>	<p>Data is exchanged using standards-based formats and APIs in real-time</p> <p>Example: Using LTI gradebook and assignment services or Ed-Fi formative Assessment Outcomes composite and/or SIF specification for K12 application ecosystem)</p>