



Create, Manage, and Automatically Publish Unique IDs

HIGHLIGHTS

Unique IDs - An Essential Element in Longitudinal Data Systems

The xDUID provides the foundation for Statewide Longitudinal Data Systems. It is highly sophisticated and manages student identification data, conducts accurate probabilistic matching, and manages duplicate student records through its deduplication engine. The xDUID is designed for seamless integration into state education administration systems and is fully SIF compliant. The application's intelligence tracks students using multiple demographic attributes throughout their academic career within a state.

Robust Match Engine

The xDUID Match Engine is used to evaluate selected attributes to determine if a student already exists in the system or if the student is new. The Match Engine uses a two-pass system to quickly eliminate dissimilar records, while the remaining records are examined in detail. Once through the system, the Match Engine determines a normalized match score and applies the result to the customizable pre-set thresholds for confidence limits. Configurable weighting factors are used in calculations.

Automatic Near-Real-Time UID Assignment

When using SIF, the assigned Unique ID is sent back to the district's Student Information System in near-real-time. When a student is entered into the SIS, that data is sent to the xDStore in real time, and the data is sent to the xDUID. Here, it is matched against an existing record or the student is assigned a new UID. Once assigned, the UID is sent immediately to the SIS through the SIF data communication process. This process can take as little as 5 minutes from student entry to the write-back of the UID in the SIS.

MORE FEATURES

-  Customizable and configurable by the organization
-  De-duplication functions built in for maintenance and initial assignment of UIDs
-  Provides a linking mechanism to link students to accommodate duplicates while maintaining historical records
-  SIF Certified (through xDIntegrator)
-  Security restricts access to UIDs and attributes based on user role and organization to protect PII data
-  Attributes are configurable and can be standard or customized
-  Accommodates up to 19 attribute fields in the aggregate
-  Seamless integration with xDStore and xDValidator
-  Weights applied to the matching calculations are configurable
-  Three attribute types - key, comparison, and helper
-  UIDs can be assigned online using a web-based user interface for individual students, using a batch upload method, & through SIF interoperability
-  Fields can be type string, number, or date
-  Makes best use of open standards, component architecture, on-demand scalability, and built-in security
-  Highly granular, loosely coupled, service-oriented, and component-based
-  Supports extensibility, scalability, clustering and load-balancing
-  UID generation configurable from 7 and 12 digits and randomly generated