xDComposer

The xDComposer provides the integration tools needed to start implementing a successful real time data system. The toolset allows IT staff to easily create complex data mappings using the power of T-SQL and an easy point and click interface. District IT staff use xDComposer to integrate data from nearly any data source in the district. Using T-SQL, IT staff can create even the most complex data mappings using many different incoming sources without the need to write code.

- **COLLECT DATA FROM NEARLY ANY APP IN YOUR DISTRICT**
  Using the xDComposer at your district makes it easy to collect data. Start with your core data – the Student Information System. After getting student data, add Staff data and HR data. Expand your collection to include assessment data – even if it comes from CSV files. With the xDComposer, you can map data into any standard to get up-to-date data easily. All of your connected applications – from the cafeteria systems to district reporting – stay up-to-date in real time.

- **WORK WITH ANY DATA STANDARD**
  The xDComposer supports a wide range of data formats and models by supporting XSDs – a common method of data standardization documentation. Harness the power of the XSD by using the xDComposer to take control of data standardization in your district. Use any XSD – such as SIF, CEDS, or Ed-Fi –to create a model to collect and store your data. You can even mix and match data standards in the many different layers of your system to meet your needs – such as SIF for data collection and CEDS for longitudinal reporting databases.

- **AUTOMATICALLY CREATE DELTAS TO COLLECT ONLY DATA THAT CHANGES FOR INCREASED PERFORMANCE**
  Some data is difficult to collect because there is no way to track just the changed data. This often happens when collecting data from legacy systems and flat files. The xDComposer has the unique ability to create and track record keys for data without a unique primary key. This allows the xDComposer to collect just the data that changes resulting in greatly improved data collection performance and efficiency.

- **INCREASE YOUR ROI ON SOFTWARE YOU ALREADY OWN**
  Link and standardize your data from all of your educational data systems, eliminating the need to purchase new applications or custom file exports to integrate your data.
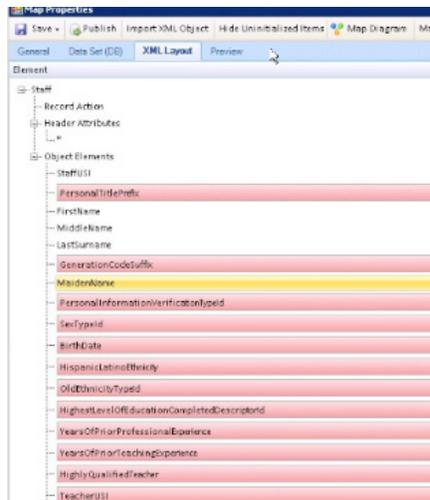
- **MAP COMPLEX DATA FROM MANY SOURCES INTO ONE**
  Build complex data mappings where data comes from many different tables and sources into one data object.

FEATURES

Build your mappings easily with real time data previews, on-screen XML previews, and a high-power SQL query generator.

The xDComposer is SIF certified and can be used to create SIF agents for nearly any system in your district.

xDComposer scales up through multi-threading technology and out through many instances to meet the needs of any size district.

Map data from any number of data sources in the xDComposer – including databases, files, and web APIs.

Validate data at the field level using regular expressions to ensure bad data does not pass to other systems.

Create queues and automatically fill them with data to be processed by other applications via SIF, Web Services, SFTP, and more.

Track changes in the source data without using triggers and complicated database scripts.

REQUIREMENTS

Microsoft Windows
Server 2008, Server 2012
Windows 7, Windows 8+

Microsoft SQL Server
Express Edition or better

RAM / Hard Drive
8GB RAM* or better / 4 GB Free HDD Space plus space for data*

CPU
Dual Core 2.0 Ghz 64-bit* or better

*Please note that some installs will require larger, alternate hardware and software. If your site has over 15,000 students, contact us for details.
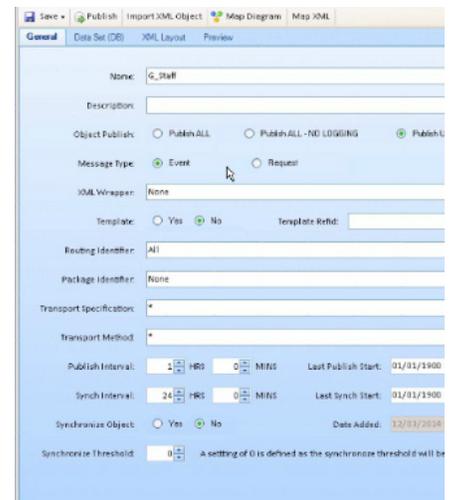
OUR SOLUTION

Schools and districts use data that comes from many different applications and sources. The problem is that the data must be re-entered many times into each application via manual data entry. Without some way to integrate the data, keep it up to date, and check it for accuracy, the data the teachers and staff uses every day becomes stale and inaccurate. This wastes time in the classroom for teachers, extra tech support tickets for IT, and frustrated administrators who are trying to analyze and report on the data.

CPSI helps districts overcome these difficult challenges. Our solution collects data from the many different applications in real time, checks the data for accuracy, and standardizes the data for reporting, BI and analysis. We help schools and districts finally leverage all kinds of data – from rosters to assessments to attendance and more—across the entire district.
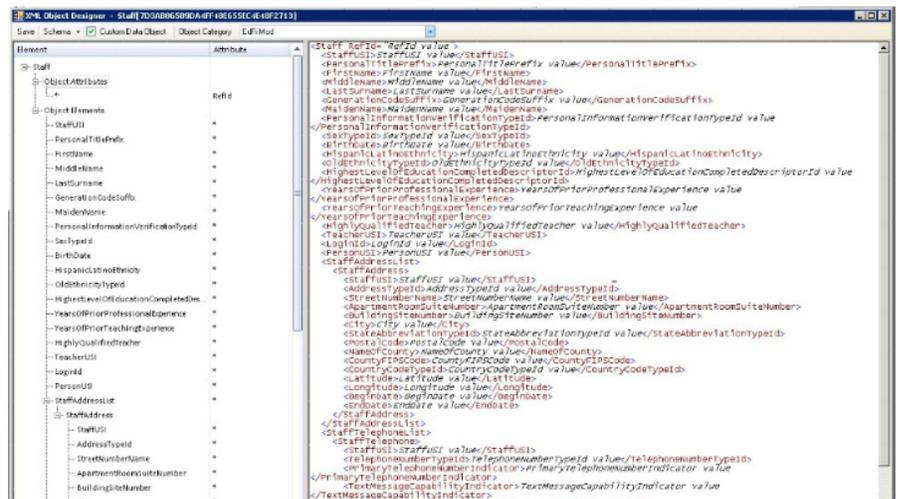
With CPSI, all of the school and district staff can be confident that the information on their computer or device always reflects the true "picture" of the data in the district. Our solution provides everyone in the district – from students to teachers to superintendents – with the underlying foundation to provide up-to-date and trustworthy information in all of the applications they use.
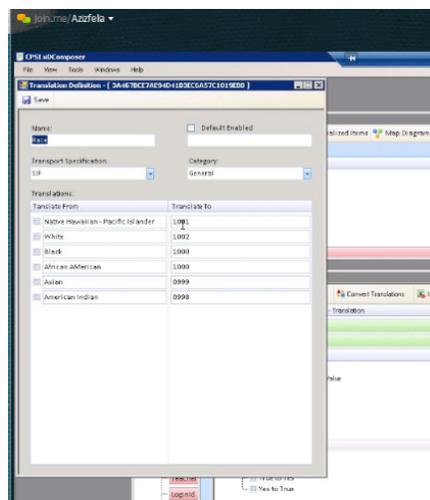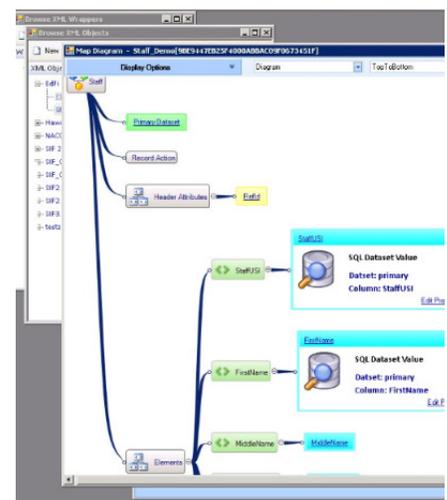

Data Mapping Object

Data Mapping Properties

xDComposer IDE Environment - Real-Time XML Mapping

Code Set Management

Relationship Visualizer