Data Management Services (DMS)
for Education Enterprises

ProActive School
Education Data Management

"Enabling Data Management for Enterprise Standards, Sources, Quality, Consolidation and Use in one integrated solution"

To enable successful Data Interoperability implementations, DMS provides processes and tools to manage enterprise data standards, sources, quality, consolidation and use utilizing education industry standards including SIF® and CEDS. DMS clients realize measurable benefits through process improvements with respect to data governance, change management, data quality, compliance management and production assurance, enabling better decision making based on quality data use across the education enterprise.

PROCESSES

- **DATA STANDARDS**
  - SIF® and CEDS Pre-Loaded
  - Configurable
  - Customizable
- **DATA SOURCES**
  - Capture
  - Certification
  - Communication
  - Correction/Analysis
- **DATA QUALITY**
  - Performance Metrics
  - Validation
  - Business Rules
- **DATA CONSOLIDATION**
  - Consolidation
  - Mapping
  - Deposition
- **DATA USE**
  - Application Access
  - Use Policies
  - Business Impact

STANDARDS SUPPORTED

- SIF® US: 2.0r1 through 3.0
- SIF® AU: 1.0 through 1.3
- SIF® UK: 1.0 through 1.4
- CEDS 2.0, 3.0
- REST
- ED-FI 1.1, 1.2

BENEFITS

- Promotes better understanding and management of data standards across the education enterprise
- Helps eliminate business process interruptions
- Provides greater assurance as to the accuracy, security, privacy and usability of enterprise data
- Reduces manual tasks such as ad-hoc reports, rework, extracts, custom programing/scripts and visual data inspection
- Provides information to enforce Data Governance policies and procedures
- Shortens cycle time for defect elimination and production use of quality data
- Reduces help desk calls
- Enables data ownership and accountability—tracks data offenders
- Improves visibility, tracking, communication and measurement of data quality performance
- Results in faster delivery of quality data to the enterprise users

ADVANTAGES

DMS addresses the challenges of managing data for an education enterprise from the data source through data use.

DMS assures the data sources are certified to enterprise data standards, informs the data source administrator of non-compliant data issues and provides a closed loop correction process to manage the identified data issues.

DMS virtually eliminates manual tasks such as producing ad-hoc reports/queries, creating spreadsheet extracts and visually inspecting data. The review process is streamlined by focusing on defects and categorizing them for easy analysis as to the root cause.

The DMS detection and correction process facilitates elimination of the root cause of defects. Automation and process efficiencies result in improved cycle time to identify and resolve data discrepancies, reduced rework dealing with issues resulting from data problems, and less time spent by staff managing the quality of data for your education enterprise. All of this contributes to cost savings, and the ability to reallocate valuable resources to enterprise critical activities.

SIF® COMMUNITY SOLUTION
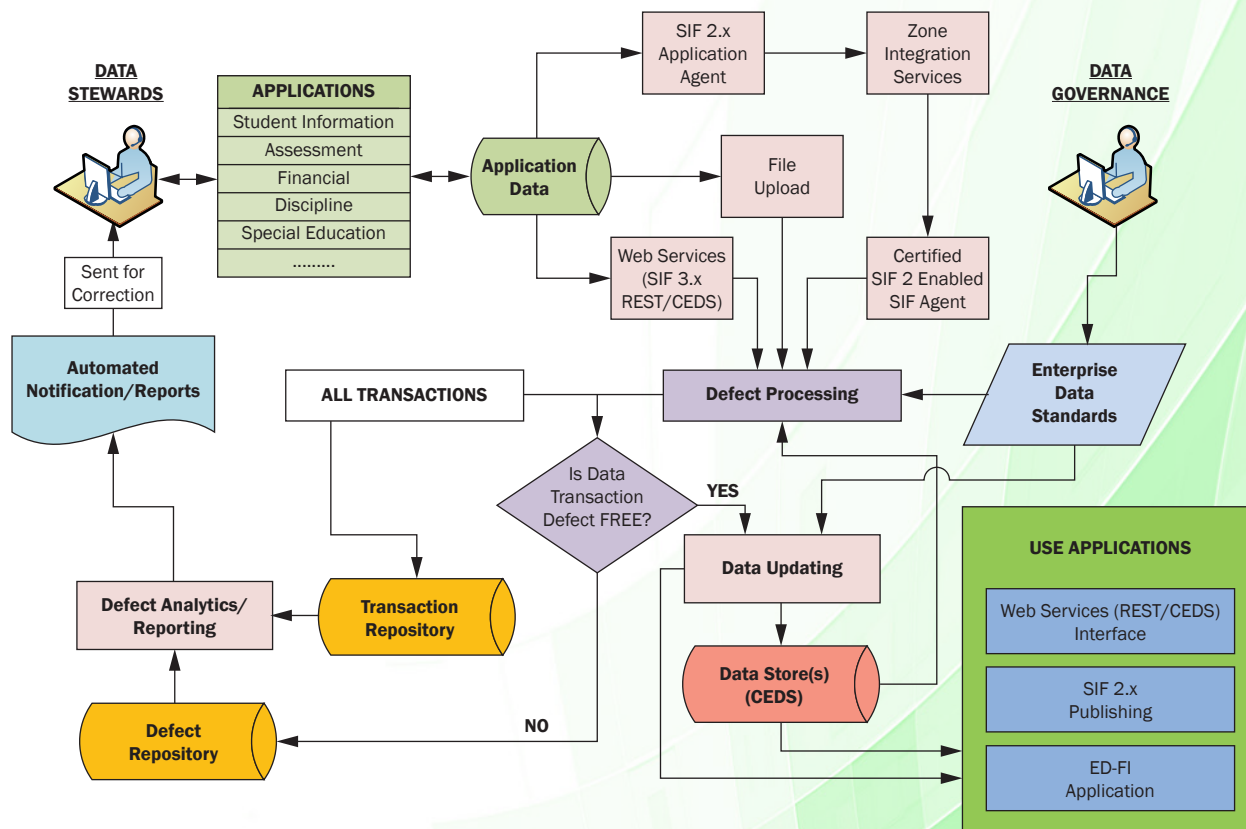
DMS is certified as a SIF® 2 Enabled Application and is preloaded with all supported versions of the SIF® Specification.

SIF CERTIFIED
SIF 2 Enabled Application

PROCESS FLOW

CAPABILITIES

DMS is engineered specifically to support ongoing data management needs. DMS processes and tools are efficient and effective, whether performing change management or production assurance activities.

- **Passive or Active** – The service can function as either a passive service focusing on "Detection Monitoring" or as an active service that enables "Enforcement Updating" to multiple data stores and/or applications.
- **Data Capture** – Seamlessly captures data from SIF® Agents, Web Services and File Uploads while enabling a Certified SIF® 2 Enabled Agent front-end for data store(s) updating.
- **Data Standards** – Custom data standards can be created and managed to conform to the specific enterprise data standards. Data standards for the supported versions of the SIF® and CEDS standards are preloaded for use.
- **Process Object Transactions** - Process data synchronizations, add, change and delete transaction event types in real time.
- **Data Store Updating** – Enables configurable updating of data stores based on data consolidation standards.
- **Assure Transaction Quality** – Assure the quality of the transactions published based on conformance to the enterprise data standards - version compatibility, metadata definitions, object format, validation rules, intra- and inter-object relationships and business rules.
- **Identify Defects** – Identify nonconformities to the enterprise data standards.
- **Categorize Defects** – Categorize defects by defect type and maintain a repository of defects.
- **Send Defect Notifications** – Automatically send defect reports to designated staff based on an enterprise established notification schedule.
- **Analyze Defects** – Drill-down reports provide logical views of the details of a defect, leading the user to the root cause of data issue.
- **Eliminate Defects** – Eliminate defects by correcting the root cause of problems. Correct the problems at the source to prevent reoccurrence.
- **Verify Corrections** – Reprocess the transactions to verify that the defects have been eliminated.
- **Track and Report Performance** – Track and report performance levels and trends using data quality reports. Reports include Six Sigma performance metrics, defect summaries, aging charts, and trend charts.

ABOUT PROACTIVE SCHOOL

ProActive School, founded in 2005, is a leading provider of education data management services utilizing global education data standards and best practices. ProActive School education data management solutions enable real-time integration of existing applications, standardization of disparate data, and propagation of event-driven communications and notifications through secure, easy to use, web-based interfaces. For additional information, visit www.ProActiveSchool.com or email DMS@ProActiveSchool.com