

# Data Management

*Simplify and automate even complex data projects*



## ALCHEMIZE SKILL SET

- ▶ Archiving
- ▶ Data Mapping (Pre ETL)
- ▶ Data Transformation
- ▶ DBMS Conversions
- ▶ Application Conversions
- ▶ System Pre-configuration
- ▶ Migration to Cloud
- ▶ System Upgrades
- ▶ Mass Data Updates
- ▶ Data Scrubbing

## BUSINESS DATA CHALLENGES

- ▶ Mergers & Acquisitions
- ▶ Migration to Cloud
- ▶ Divestitures
- ▶ Regulatory Compliance
- ▶ Data Quality
- ▶ Cost Efficiency
- ▶ Resource Efficiency
- ▶ Projects on time & Under budget

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### White Paper Objective

This White Paper proposes to explain how Alchemize, developed by Maxis Technology will provide you with the opportunity to manage your customer's data with greater efficiency and precision accuracy at a lower cost. Alchemize is a software solution that automates the manual processes involved in complex data projects, increasing efficiency by 80%. Alchemize will provide you with a competitive advantage.

## Executive Summary

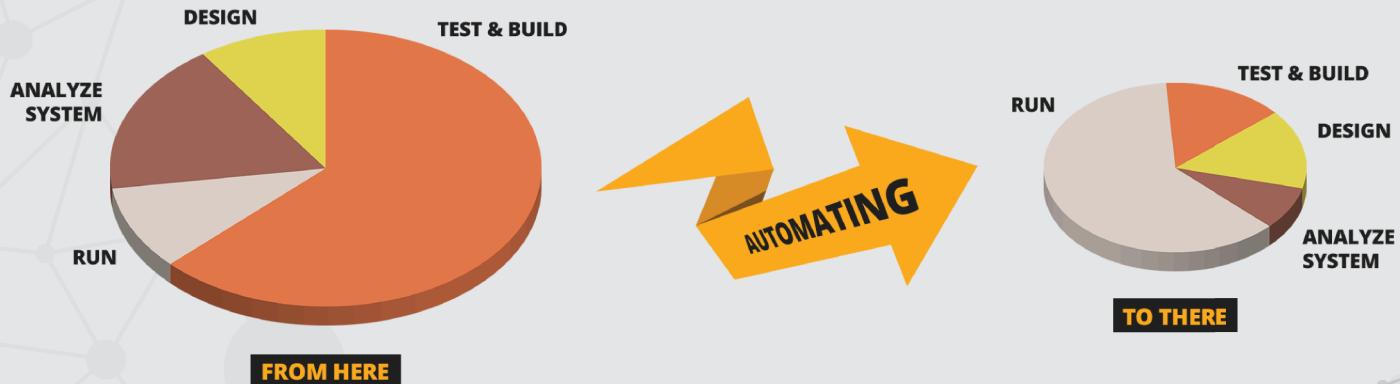
A merger, acquisition or divestiture is a major event in the life of any business, along with software upgrades and the retirement of legacy applications. When it's time to move data, merge systems, or extract/archive data, there will always be unforeseen hurdles along the way. With so many moving parts, the data management process is complicated by the fact that business can't always stop to implement the necessary changes.

It is now possible to tip the scales of the escalating growth of data and process complexity and come out on top of a data transition project. Through automation and self-reflection, the source and target data sets can be rationalized and processed so that no data is lost during the move. Automation can make the whole process faster than ever before.

Alchemize is a data management solution that intelligently automates the manual processes involved in data mapping, transformation and migration. The result is greater efficiency and agility throughout the process.

- ▶ Alchemize automates 80% of manual processes.
- ▶ Manage data at multiple phases throughout the lifecycle.
- ▶ Replace Excel based data mapping processes.
- ▶ Reduce the demand on IT resources with a proportional impact on project costs.
- ▶ Through automation, Alchemize simplifies, standardizes and reduces the time & risks involved in data projects.

*All business move data, all the time*



*Aren't you a little curious?*

## Introduction

As a leader of a software consulting organization, you know that time is money. Run out of time on a project and you lose money. Finish a project early and it's money in your pocket. In most projects, the difference between success and failure is a direct result of hiring a team of capable consultants and providing them with the best tools to do their job.

Simple data transition projects don't exist anymore. Enterprise software solutions are a moving target, and the data behind them is doubling every two years.

Minimizing the impact of data management projects on the business is a critical consideration. Organizations operate 24x7 with little time for application downtime. You are under pressure to deploy methodologies that facilitate a non-disruptive migration, without significant performance delays.

Every patch and customization to an ERP or EAM software solution adds risk to the supportability of the system. If your project team is unable to deal with the complexities of the systems you manage, then your project is at risk of failure.

Every data migration project involves risks that dictate meticulous planning to:

- ▶ Clearly understand the project scope and dependencies to avoid data corruption and to maintain referential integrity of the data.
- ▶ Assess the value of data and determine what to cleanse, purge or archive while considering requirements for regulatory compliance or audits.
- ▶ Maximize performance of the application.
- ▶ Minimize the impact on production and system downtime.
- ▶ Manage roadblocks and ever-changing requirements.

This whitepaper will look at some of the ways that a data archival or data transition project can go sideways and a solution that will help your team automate the process, manage the risks and exceed your customer's expectations.

## USE CASE 1:

*Managing unexpected business pivots during a migration*

**Background:** A US-based, Fortune 500 company acquired another Mexico-based company necessitating the merge of systems, processes, and applications. The parent company shareholders had the expectation the merger would happen quickly, to take advantage of the benefits of the combined organization.

Every merger has its own challenges and this one was no exception. Due in part to their size and maturity, each company operated complex business systems. The acquired company had multiple instances of a particular application and the key was merging the dispersed source data into the existing application of the parent company, while maintaining data relationships and historical data in the combined database. The

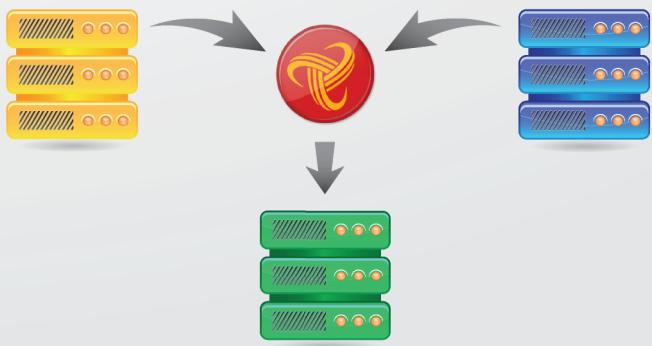
project involved complex data transformation and the desired outcome was a “lift and shift” of the acquired company’s data into the parent company’s systems without data loss.

#### Potential Barriers to Success:

- 1** The parent company required minimum downtime with a preference for zero downtime.
- 2** This was a complex object modeled architecture with highly constrained referential integrity spanning multiple systems. Moving the data without attention to system rules risked not only the loss of data but might have potentially broken the system.
- 3** The database was subject to locking, and a single lock held beyond its immediate need was known to bring the entire application down.

Near the end, the project team experienced a business pivot. Tax regulations for Mexico changed, so there were several tax codes that were no longer valid. This meant the project team had to change the Purchase Order rules configured in Alchemize to support the tax code changes. Normally this would be enough to throw a project into a tailspin.

Built with a convenient “undo” feature, this was a simple process for Alchemize to manage:



**Step 1:** Change the rules for the PO's.

**Step 2:** Press the “undo” button. (Resetting prior system state)

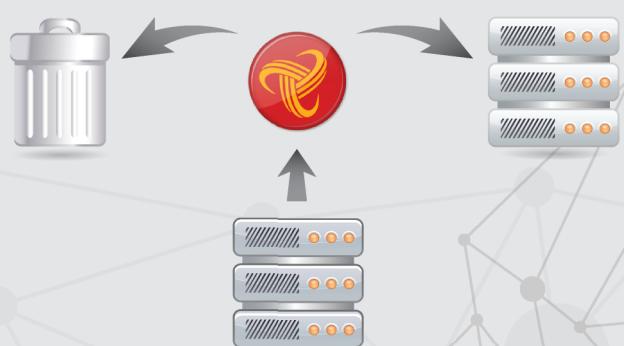
**Step 3:** Rerun Alchemize with the modified rules and complete the entire process in less than two hours.

**The Result:** The project was delivered on time and within budget, even with the complications.

#### USE CASE 2:

*Archiving 10 years of data to the cloud improved performance for pharmaceutical company*

**Background:** Using an enterprise asset management system with a DB2 database, a highly-regulated pharmaceutical company managed 10,000 assets. With 12 years of data in the system, application performance degraded and the company decided to do two things: (1) delete expired data and (2) archive inactive data. Knowing data would continue to propagate, the company desired to implement a re-usable system for ongoing governance of their data to sustain the performance of the system.



The company chose the Alchemize solution for this project. Alchemize is able to interrogate the database and build rule-sets to govern the migration of objects from the database, while protecting the integrity of the data. Alchemize can intelligently navigate the object structure, treating each object and its dependencies as a single unit of work under a single transaction spanning the related systems.

With the inherent ability to throttle and schedule the archive/purge process, Alchemize operated without disruption to production systems. Alchemize moves data as fast or as slowly as necessary. The company was astounded that the process ran so transparently, without interruption, and without error.

**The Result:** The company achieved higher performance, faster backups, and improved reporting, while reducing compliance risk. The company is confident they can enforce and document regulatory compliance and can reliably access the archived data for reporting with the tool they select.

## The Solution

Data archiving, reconciliation and migration are key elements of any merger, acquisition or divestiture project. You have to manage many moving parts for the project to be a success. With enough time and resources anything is possible. But when is the last time you ran a project with unlimited time and resources?

Scoping data management projects and managing all of the project risks are where you earn your paycheck as a consultant. The “BIG” in “big data”, implies that it’s no longer possible to *manually* execute projects of this scope. Automation is now a part of any viable solution for moving big data.

It's possible, through discovery and self-reflection, for a solution to automatically extract metadata from target and source systems to build the complete data model. By automating this part of the process, the system is self-learning, which eliminates human error.

Once the data model is accurate, all of the other elements of the specific project can occur. The key advantage is the speed at which an automated system can complete the necessary tasks. Processes that used to take days when done manually, are now done in minutes.

### Migration Process at-a-glance:

- 1 Digest both sets of systems automatically and map cross-system relationships.
- 2 Map out the cross system relationships in Alchemize.
- 3 Script any required transformations.
- 4 Create and launch jobs for each of the major services.

## The Alchemize Solution

Our stories had a happy ending, thanks to the automation capabilities of the Alchemize solution.

Alchemize is a powerful, new software solution backed by the experienced team at Maxis. This team of skilled professionals will augment your project team with the management tools and services necessary to make data transitions safe, reliable and efficient. Alchemize has the ability to learn any system, interrogate it, map it and homogenize it. All you need to do is decide how you would like your data served.

## What sets Alchemize apart?

- ▶ Over the last 5 years, Alchemize has mastered the process of managing large data transitions.
- ▶ With Alchemize you can prepare your system at least 50% – 80% faster than other commonly used methods.
- ▶ The Alchemize differentiator is its ability to interrogate, extract and map your system in order to design and develop reusable scripting which then automates the process.
- ▶ The Maxis team is an agile group of professionals who work closely with your team. Together, they work to provide you with management tools that simplify the responsibilities of the developers and managers.

### The Alchemize Advantage:

- ▶ Real world best practices
- ▶ Comprehensive reporting
- ▶ Ability to UNDO operations
- ▶ Testing with the business user
- ▶ Audit tables and language pack

## Next Steps:

Are you ready to see Alchemize in action? Call and schedule a demo today and see for yourself how Alchemize accelerates data management projects.

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