

## EXECUTIVE SUMMARY

This paper proposes to suggest that Alchemize alone, or in conjunction with Maxis Technology services, offers solutions and opportunities for Users to increase the efficiency of data management projects within a Maximo environment by 80% or more. By using Alchemize to automate system analyses, source to target mapping and scripting, a User can expect to benefit in two or more of the following areas:

- Decrease project time to completion.
- Decrease overall project costs.
- Decrease system downtime to near zero.
- Increase the efficiency of inhouse team.
- Increase skill set of in house team.
- Complete projects in house otherwise not technically within team scope.

### **Alchemize is best suited for the following enterprise data projects:**

System Consolidation/Merge  
System Division (Divestiture)  
Cloud Migration  
Mergers & Acquisitions  
Decommission / Retire / Archive

Business Rule Implementation or Change  
Regulatory Compliance / Change  
Data Cleanse / Purge  
Transformation / Normalization

### **The following is contained in this document:**

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## Who is Maxis

Maxis Technology, established in 2012 as a data services consulting firm, providing services to IBM Maximo customers. In 2015, Maxis began development on data management software (Alchemize) which very efficiently provides solutions to Maximo data projects. In 2017, Maxis expanded development with the intent of developing Alchemize to provide the same level of automated problem solving data challenges across an enterprise data management system. Today Maxis remains true to our strengths as a software developer and data services provider.

## Alchemize

Alchemize is guided by AI components which automate system learning, system to system data mapping and data transformation. As an Enterprise Data Management platform, Alchemize provides transparency and access to manage data with unmatched accuracy and efficiency.

*Alchemize increases the efficiency of Maximo data management projects by 80% OR MORE.*

- Automated System Analysis and Learning - Alchemize has spent years perfecting its ability to interrogate and learn a Maximo system. Regardless of customizations or database system used, Alchemize AUTOMATICALLY creates an interactive ERD and hierarchical rulesets perfectly describing the data structures within a system. Alchemize provides transparency and access to the data and relationships that exist within the system.
- Automated Data Mapping - Utilizing what it has learned from each a source and target system, Alchemize AUTOMATICALLY creates the scripting needed to transform and migrate the data from the source to the target.

## Alchemize Project Applications

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## When it becomes efficient to use Alchemize?

Alchemize is an enterprise database management tool that is designed to be used in large scale environments. Determining when it becomes efficient to use Alchemize requires close consideration of the system involved as well as business objectives. Is the goal to lower hours associated to more highly skilled techs, so that they can be freed for other work pending? Is the overall goal to decrease project time to completion? Is it to reduce production downtime to near zero? Assuming an inhouse tech team has the experience to manage non-recurring data projects

(such as a system conversion or consolidation) and excess resources to dedicate, the following benefits would be realized.

### **Benefits to using Alchemize:**

- Decrease project time to completion.
- Decrease overall project costs.
- Decrease system downtime to near zero.
- Increase the efficiency of inhouse team.
- Increase skill set of in house team.
- Complete projects in house otherwise not technically within team scope.

### **When it becomes efficient to use Maxis Data Services backed by Alchemize?**

With over 75 years combined experience in the Maximo space, Maxis is prepared to provide services that are both functional as well as technical. However, when it comes to technical services, Alchemize provides our team with the power to solve the most complicated data challenges. As the developers of Alchemize, our team has mastered the processes involved in non-recurring data projects. Projects such as those listed above are routine even though each system is unique. Combine the skill and experience of the Maxis team with the benefits as listed above and the level of efficiency achieved can not be matched!

### **Use Cases**

#### **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:

- The parent company required minimum downtime with a preference for zero downtime.
- 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.
- 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.



"MAKING DATA AGILE"

**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.

## Conclusion

In conclusion, Maxis would like to extend an invitation to those interested in learning more about Maxis Technology and Alchemize to contact us using the information listed below. We are interested in getting to know more about your organization and determine when Alchemize is the right fit for your organization. Your success is our success.

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