

Business Case

A leading multinational manufacturer of food products needed to migrate integrations developed in SSIS to Azure Data Factory (ADF) for one of its pet care businesses. The customer required an accelerated migration solution with minimum disruption to the live applications and enablement of disaster recovery.

Client Challenges / Requirement

- SSIS (IaaS) to Azure Data Factory (PaaS)
- Re-engineering approach (convert SSIS packages to native ADF components)
- Enabling Disaster Recovery (DR) – Run mock failover DR test
- Cloud Infrastructure setup inputs
- Solutioning challenges considering customer's private network policies
- Migrating live batch with ongoing code updates
- Need for custom DR solution

Bitwise Solution

- Infra assistance: In-depth analysis of infra topology to create optimal solution architecture compatible with customer's cloud infra policies and limitations.
- Auto conversion: Use of Bitwise ETL Converter for as-is migration of SSIS control flows to native ADF code.
- Smart solutioning: Efforts reduced by re-designing existing batch with metadata driven approach making it easier to maintain and support.
- Reduced Azure costs: Eliminated dataflows in ADF by relocating transformations in them to input SQLs. This also decluttered cloud infrastructure architecture.
- Automated data validations using Bitwise accelerator for comparing output feeds from both ETL tools resulted in quicker integration testing, also helping business users to sign-off on migration with confidence.
- Value add in existing design by uncovering system design flaws and fixing them.
- Custom DR solution to meet customer requirement for 24h RTO, 4h RPO.

Tools & Technology

- ADF
- SQL-MI
- SSIS
- Azure Services
- SSMS
- Custom utilities

Key Results

- 100% successful migration with reduced effort and cost through automation
- DR enabled solution with mock failover tests
- Established standard coding practices for customer's migrations to ADF
- Estimated \$170K annual savings in Azure costs with optimized application design

About Bitwise

Bitwise delivers technology solutions that leverage data to enable business insights. By deploying our breakthrough technology innovations, we help our global clients maximize their competitive advantage. We are the industry's most experienced and dedicated team of data professionals, focusing on Data Warehousing, Business Intelligence, Analytics, Big Data, Cloud Computing, QA Testing and Web/Mobile Application Development. We optimize value for our clients through our global-delivery model and with our proprietary technology tools that reduce the time, complexity, and cost of data initiatives. Together, our people and technology provide the insights clients need to continue to lead their fields. Bitwise is headquartered in Chicago, USA with office London, UK and delivery centers in Pune, India.