SYNTEL
Consider IT Done ®

INDUSTRY SERVED

Retail

TCO Reduction of $249 million with Private Cloud Implementation

PROJECT TYPE — Cloud Computing

OVERVIEW

Syntel helped a Fortune 500 company to undertake an enterprise-wide modernization initiative to migrate its application portfolio from legacy AIX to a Cisco UCS based private cloud. This lowered the customer's total cost of ownership over a 5-year period.

BUSINESS NEEDS

The client is a leading specialty department store with more than 1,500 stores. The client had two IBM RISC-based data centers, built to support seasonal peaks. These data centers utilized only 30% of their capacity, incurring large operational costs. They were also facing infrastructure reliability and scalability issues. The need was to reduce IT infrastructure costs through modernization. The client wanted to:
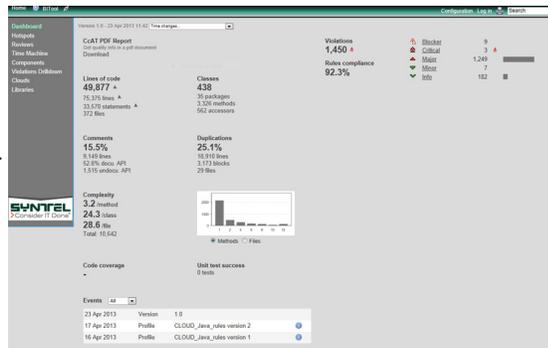
— Improve IT resource utilization, staff efficiency and productivity
— Enhance IT system availability and service levels
— Improve time to market for new offerings

SYNTEL'S SOLUTION

Syntel partnered with CISCO to implement the Cisco UCS-based private cloud solution for the retailer. Applications within the scope for modernization and migration to private cloud included a wide range of technologies, packages and across all retail domains. Agile wave-based migrations ensured move groups eliminated business downtime, while achieving ROI within 3 months from the end of life infrastructure.

The entire migration was completed in the following steps:

— Cisco UCS based private cloud
— A phase wise application modernization roadmap was developed using Syntel **Methodology for Applications to be Cloud Hosted (MACH),** which includes analysis to prioritize IaaS-PaaS decision
— Detailed Top down and Bottom up approaches for datacenter discovery ensuring low risk migration
— The program scope included technology standardization and refactoring of applications to a lightweight, scalable platform for functions like e-commerce.
— Syntel used **Cloud Code Automation Tool (CCAT)** based global migration factory for Reduced Instruction Set Computer (RISC) to x86 migration and PaaS modernization
— Syntel modernized the client's applications to leverage the scalability, availability and cost benefits of the private cloud

Syntel's CCAT enables seamless migration of apps to cloud by assessment and remediation solutions

Key Highlights

• Agile wave based migrations to ensure move groups, ROI and decommissioning

• Syntel's CCAT factory enabled the migration with 85% reduced analysis effort, 30% lower migration costs and 35% better quality in reference architecture compliance.
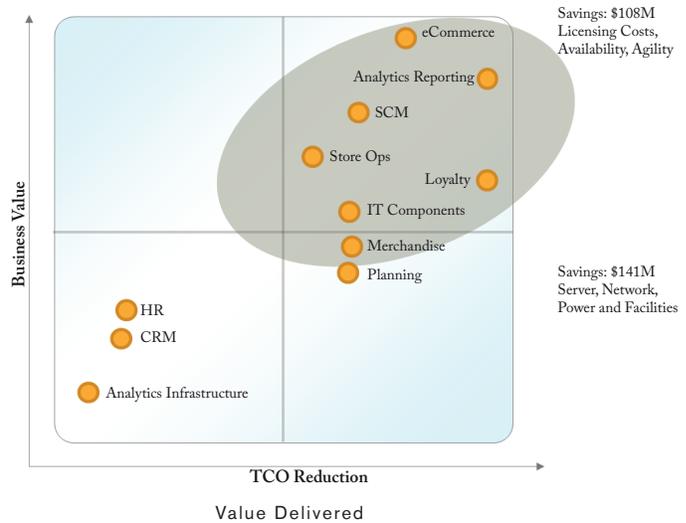
RESULTS

The private cloud solution is projected to deliver more than $249 million cumulative savings over a 5-year period. Syntel's CCAT-based solution has delivered:

— 6 weeks agile methodology deployment to deliver immediate ROI
— Over 90% analysis effort reduction through automated template based analysis
— Overall 30% cost reduction through automation factory approach
— 100% reference architecture compliance
— Benchmark of 32% better quality than a manual approach
— Limited SME bandwidth used because of objective rules and automation
— Automated validation of migration compliance

Savings: $108M
Licensing Costs,
Availability, Agility

eCommerce
Analytics Reporting
SCM
Store Ops
Loyalty
IT Components
Merchandise
Planning

Savings: $141M
Server, Network,
Power and Facilities

HR
CRM

Analytics Infrastructure

Business Value

TCO Reduction

Value Delivered

TECHNOLOGY ACCELERATORS

Today's dynamic business environment requires enterprise applications to be flexible to adapt to fast-changing requirements and scalable to meet business and economic volatility. Syntel's proven cloud accelerators provide an end-to-end solution to enable enterprise clients to leverage the cloud and drive ROI through maximum utilization.

MACH — Methodology for Applications to be Cloud Hosted	**CCAT–Azure**
A robust portfolio analysis methodology that delivers an ROI-based modernization path for applications to the relevant cloud platform.	Analyzes on-premises .Net applications and databases, identifies non-conforming code and changes required for Azure architecture. Substantially reduces time and effort while improving quality for Azure migrations.
CCAT — Cloud Code Automation Tool	**StorM** — Storage Manager
Automates cloud migration profiling with 600+ built-in rules for application cloud migration. Cuts analysis time for cloud on-boarding by over 90% and provides a risk-free cloud migration program through automation and profiled templates.	Migrates data from on-premises databases to on-cloud Azure Table Storage, speeding the Azure environment adoption.
COAP — Cloud Orchestration and Automation Platform	**Public PaaS framework**
Integrates orchestration and PaaS within your hybrid cloud. Unleashes the cloud's business ROI by making applications infinitely scalable and portable.	Enables deployment and management of applications on Public Cloud, including integration, application and data gating, Single Sign On, unified monitoring and auto scaling.

For more information, visit Syntel online at **www.syntelinc.com** or call us at US/ **+1 (248) 619-3503**
UK/ **+44 (0) 207-636-3587**

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