

# Application Migration

## Business Challenge

Financially and operationally, there is often a compelling argument for the migration current, established applications to newer, more versatile, feature-rich, and cost-effective operating systems that it was not originally configured to operate on. As operating systems evolve and provide new functions and features that address specific computing and user needs, it becomes more favourable to migrate applications from older or proprietary systems. Migration also results in improved interoperability, reliability and manageability.

Independent Software Vendors (ISVs) may lose significant business if their products are not compatible with their potential clients' standard operating environment. In addition, a dependency on a limited, dependent and inflexible operating environment is a significant barrier to business.

For a company to sustain its healthy business growth and maintain a competitive-edge, it is insufficient for the in-house applications to be just able to handle the company's current daily business volume. Instead, the applications must be able to scale to meet the company's future expansion as well as take advantage of the performance and security improvements provided by new technologies.

TrekLogic provides a comprehensive suite of migration service offerings to transition clients' current applications to a new platform. Our ability to efficiently migrate customers' applications stems from the use of best practices, processes, methodologies and tools established and refined over many years of successful experience delivering migration projects. Our proven, cost-effective migration processes are designed to reduce risk, cost and time across the entire migration life cycle including assessment and analysis, implementation, QA testing, technical transfer, production deployment and post-migration support.

Typical application migration customers are:

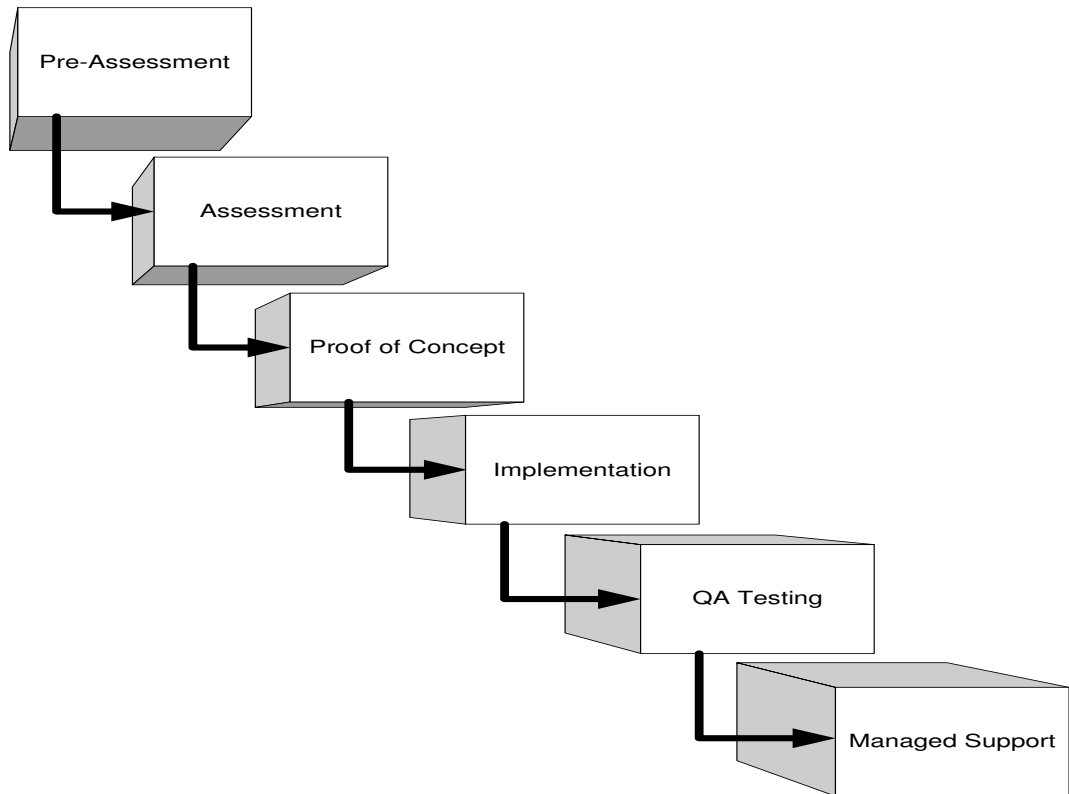
- Companies with a software product that they wish to offer to clients running a different OS than those currently supported, or with a software product that they wish to upgrade to be compatible with newer versions of an OS.
- Companies wishing to upgrade their applications to run on a newer version of an existing OS. The motivation here is to take advantage of new features in later OS versions or to maintain a supported version of the OS.
- Companies wishing to run their applications using servers from a different vendor.

TrekLogic's migration services portfolio includes:

- Upgrade existing applications from earlier operating systems to current operating environments
- Migrate existing applications from competitive platforms including:
  - Sun Solaris
  - HP-UX
  - Tru64

- HP3000
- MPE/iX
- IBM AIX
- IBM AS400
- IBM SCO-UNIX
- Dynix/PTX (IBM - Sequent/Numa-Q)
- SGI IRIX
- Data General DG-UX
- Open VMS
- IBM MVS
- IBM VM and 390
- Linux
- NCR UNIX
- SUN SUNOS
- Sequent
- Tandem
- Microsoft Windows
- Mainframe application rehosting

## TrekLogic's Application Migration Service Offerings



## ***Application Migration Pre-Assessment Service***

### **Service Overview**

The Pre-Assessment Service comprises a high level analysis and initial feasibility study of the application architecture, source code dependencies and build environment, and provides a budgetary scope for the migration of the customer's application to the target operating system.

The Pre-Assessment Service is a fixed scope, fixed duration service at no cost to the customer.

### **Benefits**

- Provides a high-level assessment of your application – allows informed decisions to be made.
- Presents a non-partisan overview of your readiness for migration.
- Identifies major risk areas at the earliest possible stage.
- No charge – the Pre-Assessment Service is free of charge.
- No risk – the Pre-Assessment Service is performed with no customer obligations.

## ***Application Migration Readiness Assessment Service***

### **Service Overview**

TrekLogic can help by initially conducting an assessment that determines obstacles to performing a migration, strategies for moving forward and the potential return-on-investment by migrating.

Drawing from many years of experience, TrekLogic consultants utilize proven methodology and project management expertise to provide an efficient and effective readiness assessment in a timely manner. The Assessment Service includes an in-depth examination of the customer code base and build environment in order to provide a migration plan and detailed proposal for the migration of the customer's application to the target operating system.

Through a combination of tools-based and consultative discovery and analysis, TrekLogic provides clients with a detailed report that assesses risks and client impact recommendations related to a migration. Based upon a detailed analysis of the code base, architecture and environment, this provides a detailed assessment report covering:

- Identify Baseline – Clearly state the vision and objectives for migration. Provide a baseline inventory of your current application, both hardware and software.
- Utilize tools to scan the source code, review the build log information, analyze 3rd party software dependencies, identify compliance of in-house software applications with the target operating environment.
- Identify potential migration issues and resolution approaches; develop risk and mitigation plans associated with the migration.
- Prepare and Plan for Migration – Establish a migration strategy; validate sizing and performance assumptions; integrate your migration plans with your support teams; document the final migration plan; confirm your plan through pilots and proofs-of-concept.
- Develop a Work Breakdown Structure with a Level of Effort estimate for the migration project effort.

The Assessment Service is a fixed price, fixed duration service depending upon the complexity of the customer's application and any relevant software dependencies.

## **Benefits**

- Provides a thorough assessment of the application migration.
- Presents a non-partisan view of your technical, operational and organizational readiness for migrating.
- Provides baseline comprehensive inventory - includes a complete account of your current application.
- Enables rapid implementation - prepares you to move forward confidently with an optimized design for migration.
- Reduces risks - highly skilled consultants mitigate risks by utilizing best practices and outlining the challenges that could occur and strategies for avoiding them.
- Lowers cost of migration - leveraging our wealth of experience, engagements are accurately scoped and staffed, which helps drive down costs and risk, and decrease time to delivery.

## ***Application Migration Proof-of-Concept Service***

A popular follow-up to the Migration Assessment Service is the Proof of Concept (PoC) service. The PoC is a subset of the Migration Implementation service, with a reduced scope and duration.

## **Service Overview**

The PoC will follow all of the same tasks and activities of the Implementation Service with a representative subset of the full migration. The main objective of the PoC is to focus on the identified areas of risk, empirically test the recommended approaches and to prove that the full migration can be completed successfully. In this way, the major potential migration risks identified during the Assessment can be addressed in a controlled environment and the optimum solution selected and proved.

The service targets the areas of issue and risk, proves that the optimal resolution methods have been selected, and provides a “recipe” to be applied during the full migration project.

## **Benefits**

- Enables rapid implementation - prepares you to move forward confidently with an optimized design for migration.
- Reduces risks – by practically demonstrating the success of the mitigation strategy.
- Lowers cost of migration – reduces the impact of problems by addressing the issues in a controlled environment.

## ***Application Migration Implementation Service***

This service focuses on implementing the application migration following the approach and methodology defined during the Assessment and/or Proof of Concept stage.

## **Service Overview**

This service centers on moving the applications currently running on other operating systems, or closed proprietary operating systems, and is the actual porting of an application including: code transformation, build environment transformation, and application integration.

Modifications are made to the application source code and build environment.

The Implementation Service migrates the customer application and build environment to the target operating system, resulting in an environment that is ready for hand-over for QA test, followed by production deployment. The deployment is managed using tools-based methodologies to mitigate risk and increase efficiency, and utilizes proven communications, metrics management and delivery methodologies.

The Implementation Service includes:

- Modified application source code as required to ensure that the application will run on the target OS.
- Modified application build files and scripts as required to ensure that the application will compile and run on the target OS.
- Converting the application from 32 bit to 64 bit if needed.
- Upgraded or replaced third party software installation and configuration information, addressing third party software issues.
- Final report detailing the work done.

## **Benefits**

- Building on the Assessment and/or Proof of Concept service, implements the migration following a well defined strategy.
- Leverages proven methodologies and techniques to reduce risk.
- Technical transfer – Through a detailed technical report documenting all changes made to the application and build environment, the necessary information is transferred to the technical staff that will be responsible for maintaining and supporting the application.

## ***Application Migration QA Testing Service***

### **Service Overview**

The QA Testing Service is offered as a follow-on step to the Migration Implementation Service. The purpose of performing a formal test service is to provide objective evidence that the pre-defined set of test objectives is verified and the customer test requirements are validated on the target operational environment.

The QA Testing Service uses an eight-stage milestone approach to complete the Migration Test activities. It starts with planning and documenting the Verification and Validation (V&V) strategy, and concludes with a Migration Test V&V Report:

- Plan and document V&V strategy.
- Setup and maintain a target testbed and test tools.
- Schedule and train testbed maintainers on the testbed and test tools.
- Write or rework any required test scripts or test procedures.
- Execute tests and analyze test results per build.

- Build reporting for test results, defect summaries and bug verifications.
- Complete a V&V report.
- Conduct Go/No-Go review.

## **Benefits**

- Provides objective evidence of the success of the migration.
- Validates the readiness for production roll-out.
- Documented baseline verification suite.

## ***Application Migration Managed Support Service***

### **Service Overview**

The Managed Administration and Support Services provide ongoing system administration and maintenance activities to manage the health of your servers following production deployment of the migrated systems. Governed by a rigorous Service Level Agreement, TrekLogic will carry out routine maintenance duties to ensure that all servers and OS software are available and operating correctly, including operating system upgrades and patches when new versions become available. TrekLogic will set up and configure service packs and manage user accounts. Beyond the routine maintenance activities, the TrekLogic Call Centre will be available up to 24/7 to provide on-call support.

Offered as a range of optional services selected to meet specific business needs, the service can provide complete coverage to give total peace of mind, supplemented by a set of automated tools including proactive and predictive server monitoring, online call logging and monitoring, secure remote access facilities and rigorous support processes.

### **Benefits**

- Professional System administration without additional staff.
- Documented incident reporting and change control.
- Sophisticated problem escalation.
- 7/24 system monitoring from our Network Operations Center (optional).
- Proactive event detection and remote diagnostics allow faster problem detection and resolution.
- Monthly report of all activities, including requests, changes, and incidents.
- Client system status views via TrekLogic portal, including archived reports.