FUJITSU Application Modernization Database

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Fujitsu Application Modernization - Database

Fujitsu is a leading provider of customer-focused information technology solutions for the global marketplace.

Fujitsu's Global Application Modernization Services enable organizations to leverage the years of investment they have made in their application assets, deliver more from IT budgets and reduce the risk of implementing new technologies.

Challenges

In today's business environment, it is vital to know when to adopt new technology and when to keep current applications in place. The challenge is to understand when maintaining business in an existing environment is more painful than migrating to an improved environment and when to modernize the applications in order to mitigate the risks and issues that the organization faces on a day to day basis.

Quite frequently organizations run into barriers imposed by the continued use of aging technology. What the organization may require is a partner that has a global practice dedicated to improving the longevity of application assets. A partner that can assist in modernizing applications which are functionally "fit for purpose" but are suffering from issues caused by the ageing of the base technologies.

This partner should be agnostic with regard to the target technology that the organization aspires to and not just be trying to sell their own vendor specific options. They should be able to bring to the table capabilities that don't just encompass migration options, but also cover modernizations which give benefits without necessarily requiring the movement of the underlying system and also provide the ability to move all (or part) of application assets into a cloud environment.

The partner selected should have a proven track record of success using a standard set of capabilities and skilled resources based around the globe, so that projects undertaken in one part of the world can gain from the experience of projects undertaken in other regions.

What are the benefits of Application Modernization?

A target application is any application developed in an older language, or running in an aging environment, that is currently in production and which the organization has the need to change.

Our view of Application Modernization is that it encompasses any action which mitigates the risks and issues of an application, where these issues have been caused by the aging of the technology.

In today's highly competitive world, with ever-changing market and customer priorities, your business needs to use every lever available to enable you to provide more efficient, consistent, and prompt services to your customers.

Unshackling the organization from aging technology
This benefit may include the removal of unwanted infrastructure, software, tools and platforms, the reduction in the skill base required to run the systems, the reduction on the reliance of increasingly rare and expensive skills, the removal of vendor lock-in licensing, the reduction in the Total Cost of Ownership of the systems and many other issues and drivers.

Integration of web
This can be a modernization where the base systems are either left untouched or fully migrated. This benefit can assist in mitigating the problem of new employees not being familiar with old screen technologies (green screen etc.), lack of validation, users having to handle many applications to undertake a single process, interaction with other systems, third party access to current systems, the inability of ageing systems to employ workflows and other front-end functionality.

Integration of mobile & tablet
Again the main application can remain largely untouched, and by integrating with mobile technology (iOS, Android and Windows mobile environments) application can be accessed from anywhere in the world, enabling your workforce and delivering a new and improved user experience to your customers.

Migration to cloud
Through the migration to a cloud environment (Fujitsu MetaArc, Microsoft Azure etc.) you can reduce your reliance on internal systems and flex the environment to suit the requirement peaks, only paying for what you actually use.

Reduction in cost
There are many ways in which cost can be reduced by undertaking an application modernization and when coupled with the faster development times and additional functionality in new development platforms, the outcome is that the organization can afford to do a greater amount of development work within the same budget.

Removal of unsupported technology
Running unsupported technology and even dead technology in production is a high risk strategy as the technology will eventually fail and may leave the organization with irretrievable data and processes.

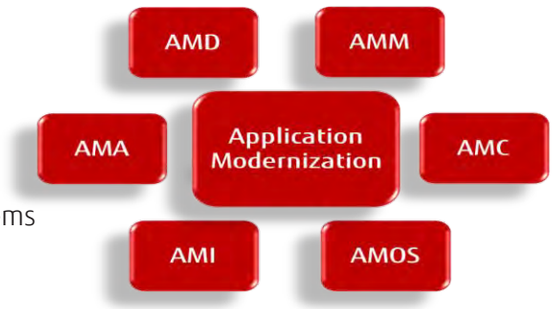
Reduced reliance on internal modernization projects
Sometimes an organization thinks that they will be able to undertake a modernization project internally because they designed and built the original system. However the skills and techniques involved in a modernization are quite different to development and maintenance. Internal one-off projects can hit many of the hurdles that experienced modernization teams are able to avoid, the outcome is that those internal projects often fail or become very expensive.

Data Migration as part of Application Modernization

Fujitsu and our global database migration partner Datalynx, provide a wide selection of capabilities to assist client undertake Database Migration, Database Management and Database

Fujitsu Application Modernization Capabilities

- AMA - Application Modernisation Analytics
- AMD – Application Modernisation Database
- AMM - Application Modernisation Mainframe
- AMOS – Application Modernisation Open Systems
- AMC – Application Modernisation Cloud
- AMI – Application Modernisation Mobility



The key benefits of Application Modernisation are that it:

- Allows an organisation to take advantage of new capabilities and efficiencies offered by newer technologies
- Provides the opportunity to address deficiencies and problems in the existing solution, for example missing functionality or poor data quality.
- Provides the mechanism for exiting high-cost or unfavourable support arrangements and the ability to adopt more attractive pricing models.

For more information on these services, see our **Playlist** of videos on YouTube or scan this QR code.

Database Migration

Dynamic organizations require responsive technologies that can quickly adapt to support evolving business needs. Mergers & acquisitions, business unit consolidation and information technology renewal are common activities that generate the need for data migration.
Fujitsu and Datalynx data migration solutions help to minimise business disruption when organisations undergo change. We provide clients with the certainty that their high-value historical data will be successfully transitioned to its new destination, ready for ongoing business use.

PCTM Methodology - a simple solution to a complex challenge

The transfer of data into organisations, within enterprise systems and out to external parties is a business-critical activity undertaken on a regular basis. The Datalynx Data Management Suite (DMS) is an agile software technology for migrating datasets of any size and complexity. Providing standard connectivity to virtually any structured data, DMS inbuilt productivity features greatly simplify technically challenging tasks. Complemented with outstanding performance capabilities and fully integrated process auditing and reporting, the DMS provides the ideal route for migrating data to its new destination.

Developed and proven over many years of application in solving real-world challenges, the PCTM Methodology is a practical and effective approach for successfully migrating large, complex datasets.

Support for business initiatives

Data Migration is a key element of any legacy modernixation project and a standard operational activity for bringing new data into enterprise systems.

The Datalynx DMS supports a broad range of business initiatives, including:

- Introduction of new applications and upgrades of existing systems Platform and infrastructure modernisation
- System and platform rationalisation
- System retirement and data archiving
- EDW / BI solution implementation
- Transition to the cloud
- Integration with Big Data repositories

Risk Management

Legacy data migration is commonly a high-risk component of any new system implementation and has been shown to be a key cause of failure in more than 40% of projects. Our tightly integrated data migration solution comprising the DMS software and PCTM Methodology takes data migration off the project's critical path, significantly reducing business risk.

Data migration and much more..

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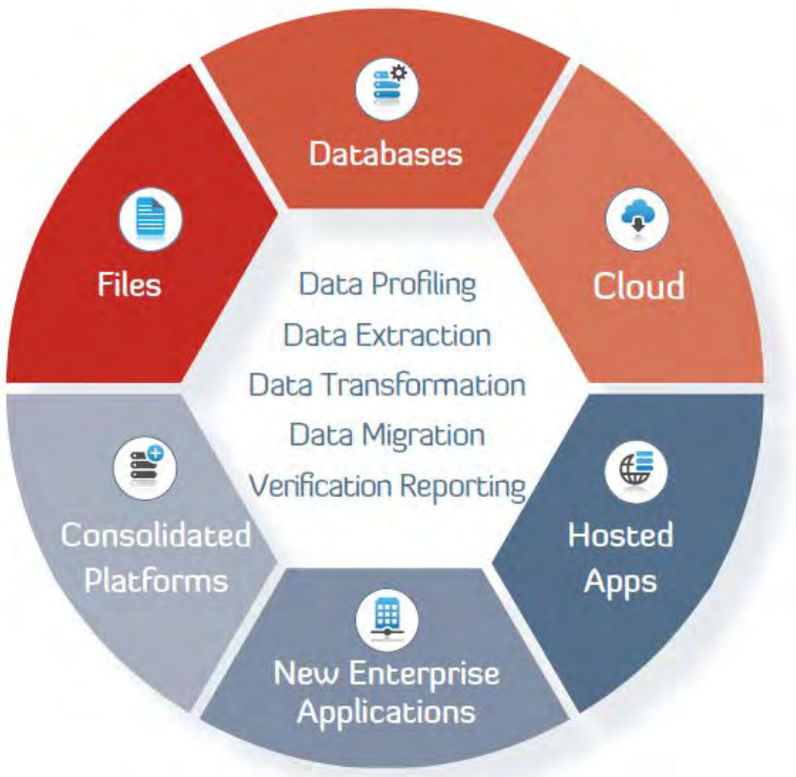
The technology underpinning our data management solutions is the Datalynx Data Management Suite (DMS). The DMS is an agile software platform for migrating datasets of any size and complexity. Providing standard connectivity to virtually any structured data, DMS inbuilt productivity features greatly simplify technically challenging tasks. Complemented with outstanding performance capabilities and fully integrated process auditing and reporting, the DMS provides the ideal route for migrating data to its new destination.

The DMS can be configured as a Data Migration Hub to extract data from various types of legacy sources, perform a range of processing functions (profiling, cleansing, transformation etc.) and migrate to a new system.

The Hub can subsequently be used to provide ongoing integration capabilities between enterprise systems, as well as between the enterprise and external data sources.

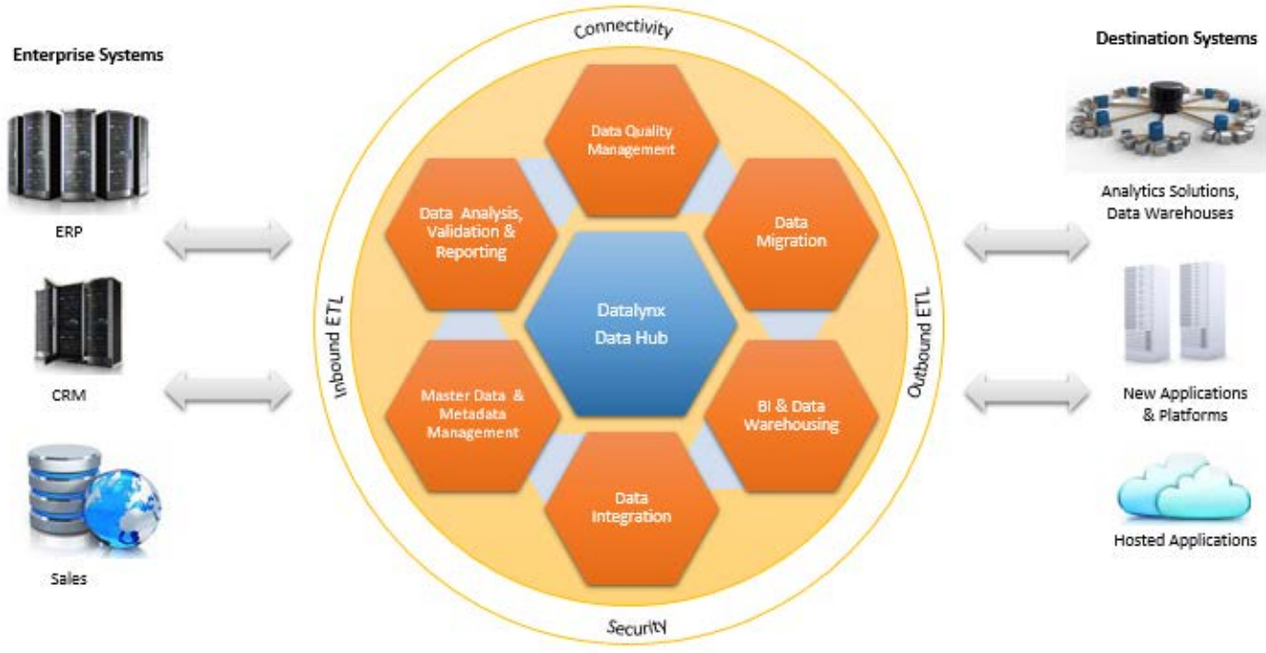


Data Management

A key element and challenge of many Application Modernisation initiatives is the transition of valuable business data from its historical platform to its new destination.
Fujitsu and our global database migration partner Datalynx, provide a wide selection of capabilities to assist clients undertake Enterprise Data Management including Database Migration and Database Modernization.

Data migration and much more..

Our solutions can cater for both project-based and operational needs, providing a standard, controlled and verifiable framework for managing large-scale data migrations, as well as operational / recurrent data transfers. Furthermore you have the option of incorporating data quality management, master data management, data integration and data archiving, without the need to undertake custom programming or purchase additional software modules.



Platform Independence

Our Platform Independent Data Management capability overcomes the challenges of migrating data between disparate platforms and databases. This enables data management solutions to be delivered independently of variables in the technical environment such as:

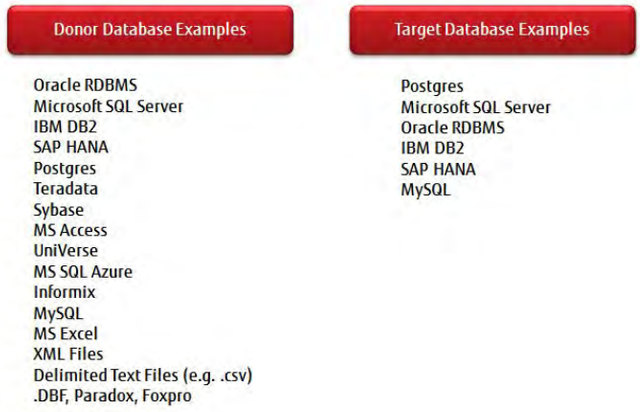
- Hardware configuration
- Operating systems
- Applications operating on the data

Data processing is performed in isolation from how the underlying physical storage and hardware has been configured for performance & capacity management or redundancy. Similarly, the Datalynx technology does not need to navigate application APIs or operating systems to access, process and migrate datasets

Data migration donors and targets

The Fujitsu / Datalynx offering can handle most Databases as donors and all the enterprise relational database variants as targets. There are many reasons that a migration from one database to another may be considered by any organizations below are a number of the reasons that we come across most often.

- Removal or reduction of an expensive licensing liability
  For example, migration to Postgres to reduce costs by up to 80%
- Inability to find resources that are capable of managing the database
  For example, Adabas Database Adminstrator
- Part of a larger business reorganization
  For example, Merger or Aquistion
- Part of a data quality improvement program
  For example, de-duplication and single client view programs
- Enhance ability to access data by external systems
  For example, Big Data, Internet of Things and Digital Enablement
- Retirement of a platform or operating system
  For example, Mainframe retirement programs
- Database/Platform consolidation
  For example, centralization of master data
- Need for enhanced functionality, not available on current database
  For example, migration from an already out of support version
- Move to a more secure Enterprise quality solution.
  For example, Removal of mission critical data Access DB instances



Initial Planning and Scoping Analysis

Fujitsu's Data Migration Project Scoping Analysis offers clients a systematic approach to effectively preparing for a data migration project, including accurately estimating costs & duration, defining the delivery approach and identifying project risks.

This exercise is undertaken over a period of weeks and enables Fujitsu and our client to have a clear and common understanding of project objectives, scope, business requirements and timeframes for delivery.

The Datalynx DMS software is used to obtain an overview of data quality and derive a range of key metrics that support subsequent project planning and solution design.

The Scoping Analysis is a powerful risk management tool and a recommended 1st step for a successful data migration project

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