FUJITSU

FUJITSU Application Modernization

shaping tomorrow with you

FUJITSU
Application Modernization

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.

Fujitsu's Global Application Modernization Offering is based on a standard set of modernization capabilities which are available to our clients throughout the world.

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 or 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 ageing 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 can supply the ability to move all (or part) of application assets into cloud services.

To leverage the skills of their resources the partner they select should have a standard set of capabilities and skilled resources based around the globe so that projects undertaken, for example, in Australia and the UK can gain from the experience of projects undertaken in Brazil, Russia and the USA.

What are the benefits of Application Modernization?

Fujitsu's definition of a legacy application is any application that is currently in production and which the organization has the need to change.

Our view of Application Modernization is that it is any action which, to some extent, mitigates the risks and issues of a legacy application, where these issues have been caused by the ageing of the technology.

This definition means that our global application modernization offering not only covers the total migration of applications from one set of technologies to another; it also covers an array of other options which may be more suitable to an organization. Such modernizations may well mitigate the issues and supply the benefits at a lower cost and deployment timeframe. There are so many differing benefits in undertaking a suitable application modernization that it would not be feasible to document them all here. However there are some benefits which appear so often that they can be considered pervasive in organizations.

- **Unshackling the organization from ageing technology** – This benefit assists in mitigating 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.

- **Moving to a Web Browser front-end** – 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, 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.

- **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.

- **Removing 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.

- **Remove the 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.

Fujitsu Globalization of the Application Modernization Offering

Application Modernization is a global offering within Fujitsu.
This means that Fujitsu has the same capabilities available across the world. Our global teams have the combined knowledge and skills to undertake all of Fujitsu's Application Modernization capabilities.

A running theme through all of our capabilities is the requirement for high quality deliverables. We believe there is very little point modernizing a system if the quality of the new system makes it more difficult to maintain or develop, in fact that would lead to a reduction in the longevity and functionality of the system.

Fujitsu Application Modernization
Unique Selling Propositions

Fujitsu's Global Application Modernization Offering has three Centres of Excellence; these are based in America, Europe/UK and Australia

Fujitsu Global Application Modernization Unique Selling Propositions

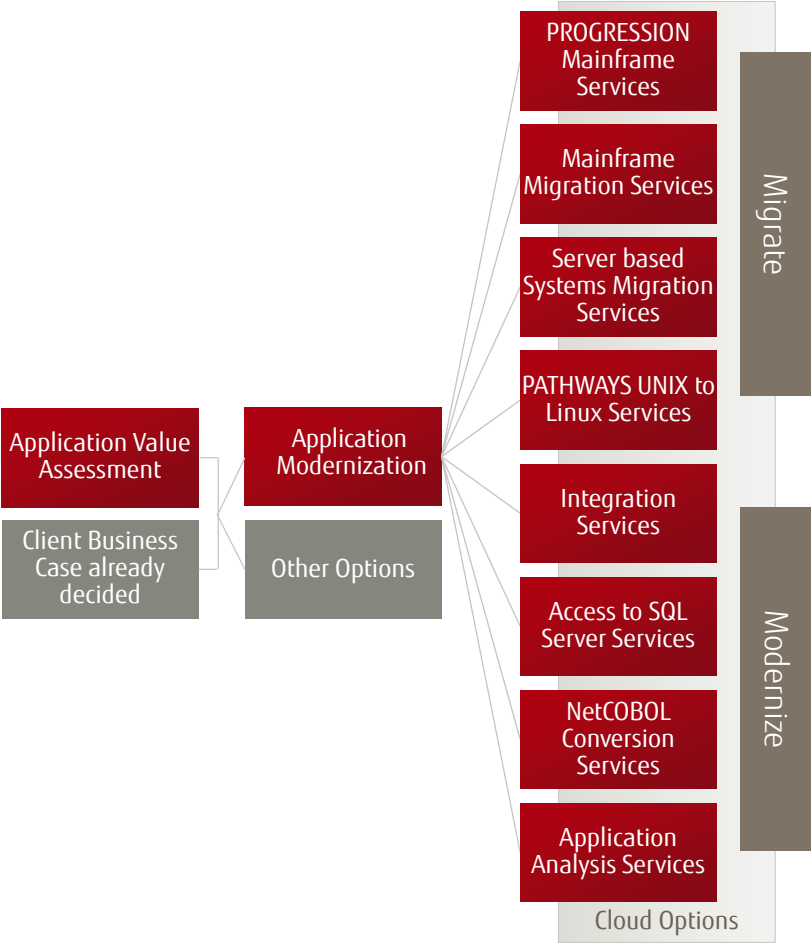Some of Fujitsu's major unique selling propositions are as follows:

- **Cloud services** – Fujitsu is a market leader in Cloud Services, with PaaS, IaaS and SaaS offerings available worldwide along with related consultancy and professional service capabilities
- **Agnostic** – Fujitsu do not attempt to lead a client to our own vendor specific solution, the options we recommend are to give the client the greatest benefit,
- **Tools and Partners** – Fujitsu has access to our own high quality toolsets and 'best of breed' partners, all of whom can work on a global basis whilst retaining an agnostic approach to technology targets
- **Resourcing** – Fujitsu has access to local delivery resources and various global delivery centres which can be utilized to reduce the cost without reducing the quality
- Modernization – Fujitsu's range of options covers a wide array of situations not just migration
- **Global Offering** – Bringing together the skills and knowledge of the entire Fujitsu organization
- **Standardization** – Fujitsu's application modernization capabilities are standardized across the world which reduces risk and cost
- **Size** - Fujitsu is the third largest IT Services company in the world, we therefore have the capacity and experience to undertake large multinational projects

Capability	Description
Application Value Assessment	A consulting capability that examines the organizations current application portfolio with the view to identifying the most suitable and feasible options to ensure that the client can gain from the investment already made in the applications well into the future.
Progression Mainframe Services	This 100% Fujitsu owned capability allows us to migrate mainframe and midrange systems into .Net based systems that can be run on premise or in Cloud Services.
Mainframe Migration Services	This capability allows Fujitsu to migrate mainframe systems into Open Source based systems that can be run on premise or in cloud services.
Server Based Systems Migration Services	This capability allows Fujitsu to migrate 4th generation languages such as Oracle Forms, Lotus Notes, PowerBuilder, Visual Basic Classic, Centura and Delphi to either Java or .NET that can be run on premise or in Cloud Services.
Access to SQL Server Services	This is a highly automated capability to move Access Databases and logic to SQL Server so that mission critical data can be kept in a suitable environment. The capability will also take Access DB and SQL Server to SQL Azure whilst ensuring the connections in the applications link to the new data store..
Integration Services	This capability allows for the production applications to stay as they are. Fujitsu then build front ends which can incorporate new functionality, new workflow, new validation, Web Services for further integration and Mash-ups (where several applications from various systems look as if they are just one application).
NetCOBOL Conversion Services	This capability allows Fujitsu to re-host systems based on COBOL to COBOL on .NET including the data stores, TP Monitors, utilities and JCL.
Pathways Unix to Linux Services	This capability allows Fujitsu to move a client's systems from UNIX based operating systems (most often Solaris) and place them on a RHEL (Red hat Enterprise Linux).
Cloud Services	This is a compilation of the cloud aspects of the above capabilities so that clients can gain the advantages of cloud services which may or may not include a total migration. This includes cloud readiness specific evaluation to ensure systems will use the cloud to the best of their ability..
Application Analysis Services	This 100% Fujitsu owned capability allows us to examine a clients' source code. Generating a city view map of an application is the start. The capability includes further examinations of the application such as complexity of each program, similarity (duplicability) between them, finding dead code, and correlation analysis between business logic and data.

Fujitsu Standard Modernization Roadmap

Fujitsu Standard Modernization Roadmap starts with either an Application Value Assessment where Fujitsu assists the client to identify the suitable of options, or the client organization may already have decided on a course of action. The Application Value Assessment may discover that the best options available to the client are not part of the Application Modernization offering, in which case Fujitsu would be happy to discuss offerings that are in line with the assessment recommendations.

If an Application Modernization capability is the desired option, either with or without deployment in to cloud services, then the actual project would be undertaken to ensure that the project removes the issues and supplies the benefits that have been identified.

Depending on the capability, Fujitsu may also suggest the use of onshore/off-shore models and partner organization involvement.

Value Add Offerings from Fujitsu
Although not part of the Global Application Modernization Offering, Fujitsu have other related offerings which can be of value to clients considering this course of action. Some of these offerings are listed below:

Value Added Offerings
■ Fujitsu Cloud Services (International and Domestic),
■ Fujitsu Data Centre Services,
■ Fujitsu Application Managed Services – this is where Fujitsu take over the development and maintenance of your applications,
■ Fujitsu Consulting Services – this is where Fujitsu consultants assist the client with the strategic direction of the organization,
■ Fujitsu Managed Services – Managing your entire IT services,
■ Fujitsu Infrastructure Services – Fujitsu and Third Party Infrastructure Supply,
■ Fujitsu Sustainability Services – Green IT Considerations and Actions,
■ Fujitsu Enterprise Services – ERP deployment, configuration and management.

Please tell me more
Fujitsu would be pleased to talk to you further about how we can work together to help you leverage the investments your organization has made in production applications. If you would like to talk to us in person please send an email to the Application Modernization global team at the addresses on the end page of this brochure or visit our website and take an online survey.

Diagram:
- Application Value Assessment
- Client Business Case already decided
- Application Modernization
- Other Options

Migrate:
- PROGRESSION Mainframe Services
- Mainframe Migration Services
- Server based Systems Migration Services
- PATHWAYS UNIX to Linux Services

Modernize:
- Integration Services
- Access to SQL Server Services
- NetCOBOL Conversion Services
- Application Analysis Services

Cloud Options

About Fujitsu

Fujitsu is the leading Japanese information and communication technology (ICT) company offering a full range of technology products, solutions and services. Approximately 170,000 Fujitsu people support customers in more than 100 countries. We use our experience and the power of ICT to shape the future of society with our customers. Fujitsu Limited (TSE: 6702) reported consolidated revenues of 4.4 trillion yen (US$47 billion) for the fiscal year ended March 31 2013. For more information, please see http://www.fujitsu.com.

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