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ESF.NET

Accelerated Framework for
Enterprise System Re-engineering



Legacy Application Issues

Application Centric Architecture has resulted in Monolithic Business Applications acting as information silos, with the following challenges:

- **High management cost** due to disparate technologies, architectures and designs
- **Lack of Flexibility and Adaptability** to meet the needs of ever changing business processes
- **Minimal room for reusability** and leveraging of existing assets during new application development due to design and architectural incompatibility among different system
- **Inability to incorporate modern high efficiency trends** like Workflow Automation, and SOA for improving flexibility, productivity, visibility and integration.
- **B2B or In-house Integration** with other systems further increases development and maintenance costs
- **Application Distribution Costs for Global Companies are higher** due to the necessity of additional third party technology like terminal servers

A Strategic application re-engineering initiative MUST envision a paradigm shift in IT architecture to eliminate these challenges in the future



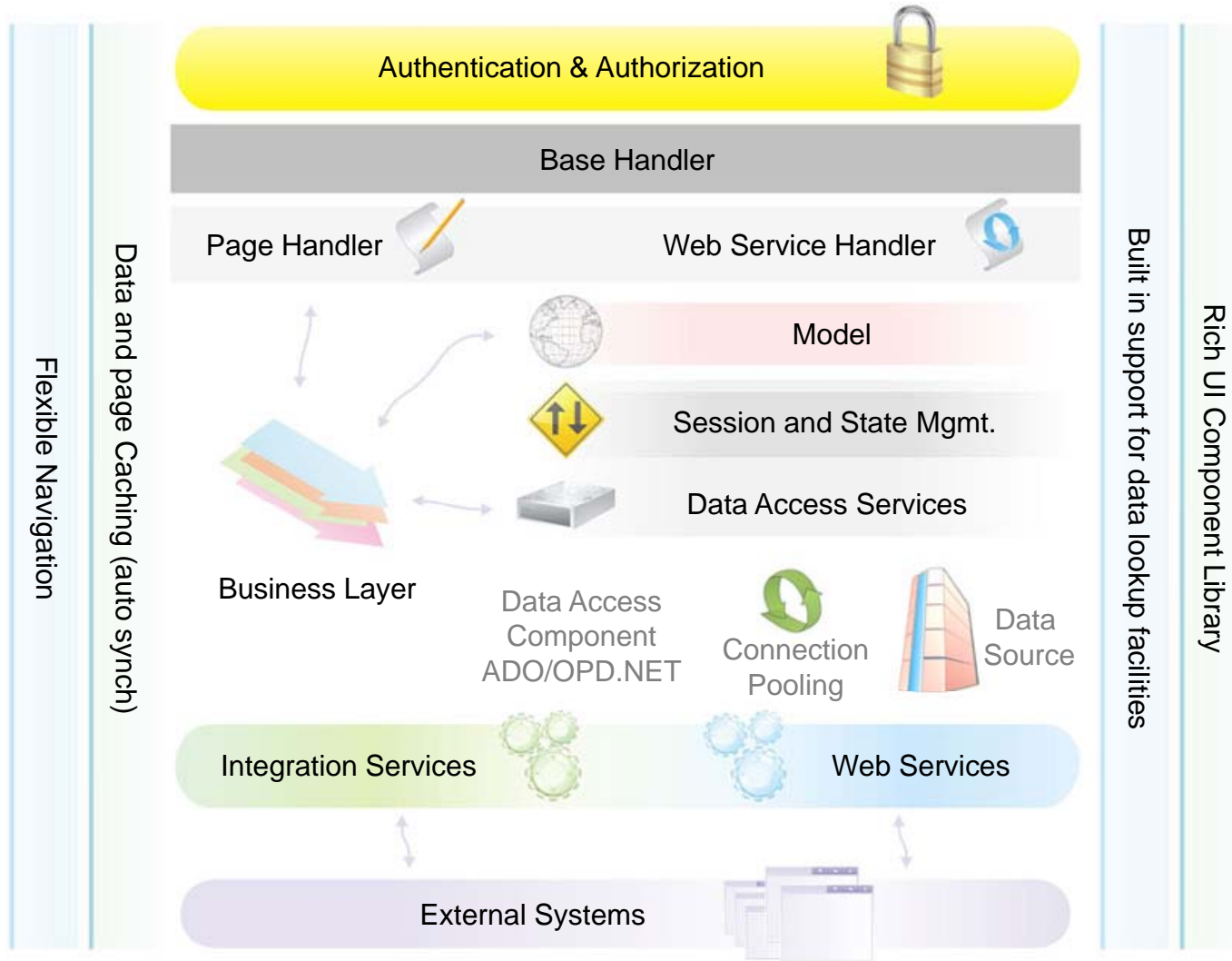
Challenges in Legacy Modernization Initiatives

- ❑ ***Lack of or Poor Documentation*** makes it difficult to understand the underlying systems architecture and design.
- ❑ ***Re-engineering Project Execution Timelines*** are high compared to the business expectations
- ❑ ***High Availability Requirements*** make it difficult to take the legacy system out of service
- ❑ ***Change Management*** re-learning a new system and achieving the previous proficiency level in usage would have a prohibitive attendant cost in lost time and money.
- ❑ ***Legacy Design*** legacy systems have older design concepts such as, coupling of software layers, repetitive code, difficult integration. Monolithic application design.

A feasible re-engineering initiative must cut down the project timelines and costs through out-of-the-box solution design

Salient Features

ESF.NET Framework



ESF .NET – Salient Features

- ❑ As opposed to other frameworks ESF .Net is designed for legacy migration
- ❑ Makes the work of refactoring the code easy
- ❑ Maintains complete separation of data, business from UI layers and other technology specific features
- ❑ Elaborate Security features addressing, user authentication, role level authorization and data level security based on organizational units
- ❑ Framework layers are modeled to ease conversion of client server/desktop application into web based
- ❑ Integrated XML serialization will ease web services integration and adoption. SOA friendly.
- ❑ Configuration Management Console
- ❑ Supports both client side and server side validations
- ❑ Flexible Error handling and logging

ESF .Net framework and VSI legacy migration service combine to optimize project delivery time-lines and with better quality



The ESF .NET Advantage

- ❑ ***Proven repeated success*** at multi-billion dollar clients in mortgage and apparel industries
- ❑ ***Reduce the overall project timeline*** by 6 to 8 months by re-using the over-arching framework, allowing developers to focus entirely on legacy code migration to ESF.NET.
- ❑ ***Current and Future system development cost reduction*** through leveraging of existing assets and development of reusable software components and services
- ❑ ***Future IT Maintenance Cost reduction*** through architectural and technological consistency across the enterprise
- ❑ ***Allowing cross application code usability and workflow integration*** through the use of browser based clients enabled by server side business logic components
- ❑ ***IT Strategy for gradual transition towards Services Oriented Architecture (SOA)***

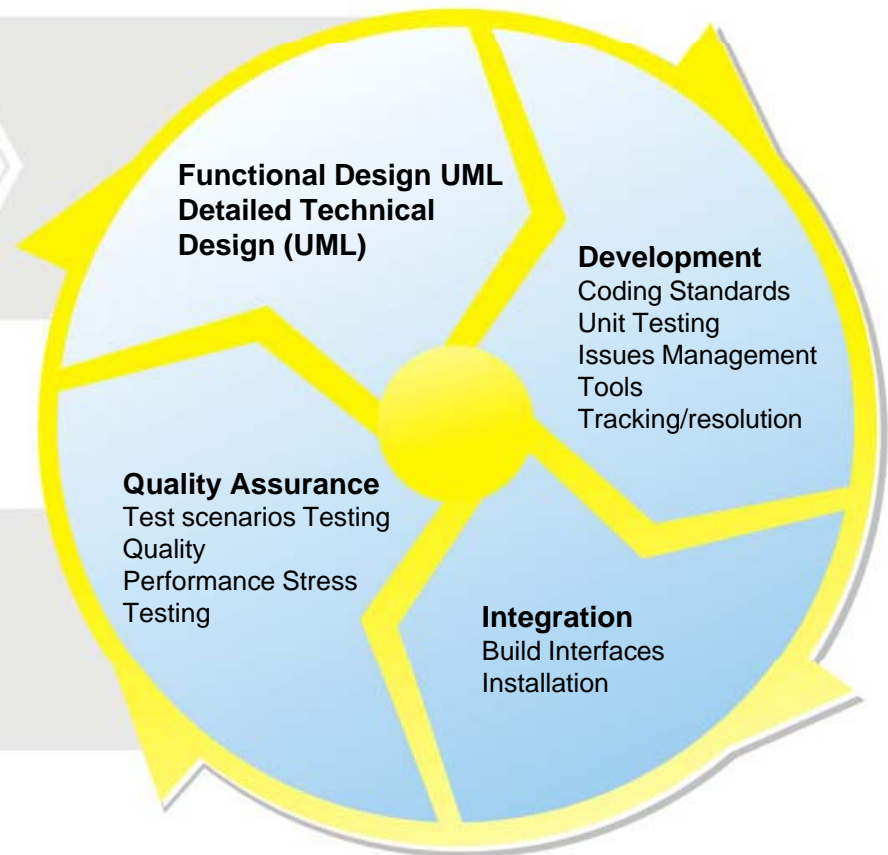
Visionet's Reengineering Development Process

Detailed Analysis

Assessment of existing software assets
Identification of design patterns in the system
Assessment of code reusability factor
Identification of UI layout and improvements for end user
Target System Architecture definition
Standardization of post migration code design
Establish standard operating procedure for legacy code migration team
Identify the deliverables and project roadmap
Capacity planning through simulation

Next
Incremental
Release

Incremental
Rollout to
Production





Visionet's Reengineering Methodology

- Abstraction of data and UI into generic model**
- Replacement of UI elements in the business layer by the model above**
- Removal of direct DML operations from the business layer.**
- Identifications of patterns in the business layer.**
- Refactoring of business layer to new design**
- Conversion of required business components in to compliant SOA modules**
- Removal of Business layer calls from UI**
- Binding UI elements with the generic UI model**
- Improving the user experience through custom developed rich UI controls**
- Maintaining the desktop hangover by employing client side caching and AJAX call.**