



# IBM's Living Architecture

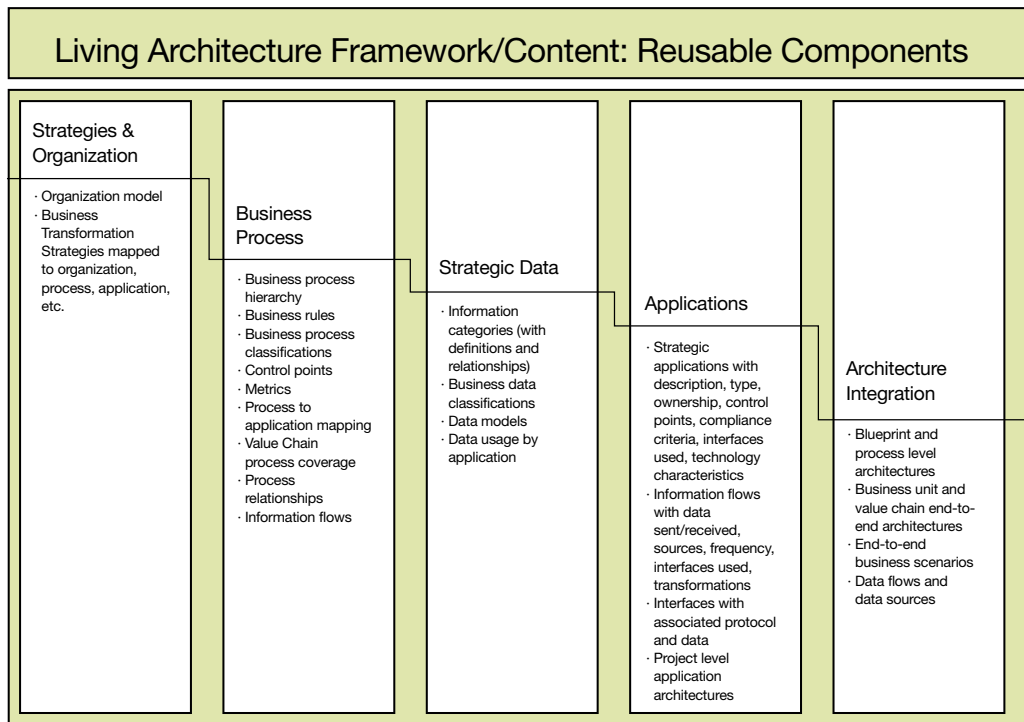
IBM is utilizing the QualiWare product suite in support of their business transformation activities. An IBM representative spoke about IBM's plans at a QualiWare IT Conference held in the Fall of 2001. Here are some excerpts from the presentation.

## Introduction

- "IBM's Living Architecture provides the capability to create, integrate, maintain, describe, and display architectures that are within and defined by the business blueprint. The Living Architecture brings business driven application, data and technology architectures together in a logically related and integrated fashion. The quality and consistency of the architectures, ease of access and dissemination of information, change analysis, and speed of

change are all key benefits to the company. QualiWare has provided the capability for IBM to deliver a business model that integrates business driven application architecture, and data architecture; all within one modeling software package."

IBM's Living Architecture establishes a framework and shared repository enabling integration, reuse and analysis across IBM's enterprise wide architecture. It defines IBM's enterprise wide application and data architecture. It





includes the business strategies, processes, rules, and control points which drive IBM's architecture deliverables.

The Living Architecture supports the definition of corporate wide or unit specific application and data architecture deliverables. It contains a meta-model or intelligent framework supporting the definition of architecture components and their relationships. This framework is designed to enable ease of use and flexibility in the definition, integration, formatting, and publication of the architecture deliverables used to manage IBM's business and its processes.

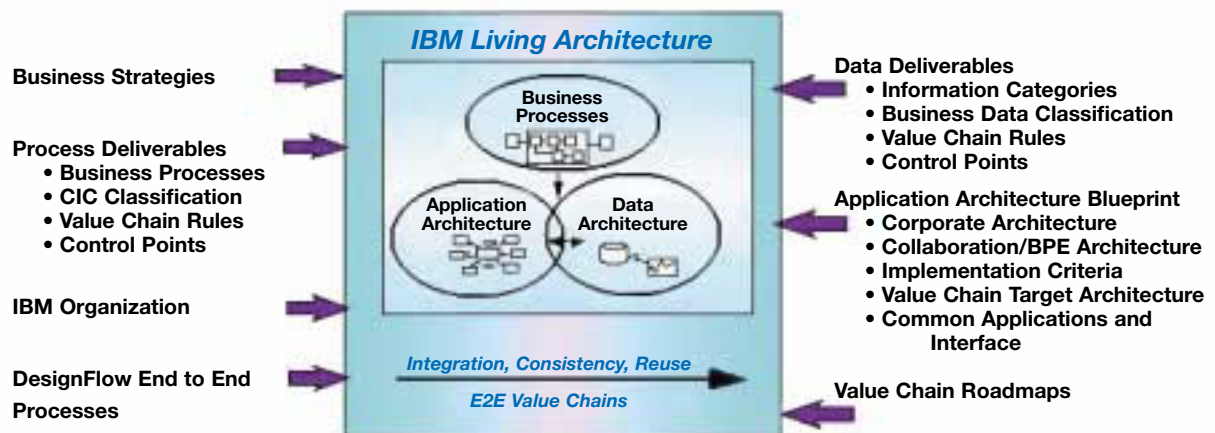
#### Objectives and Value

The Living Architecture accelerates the

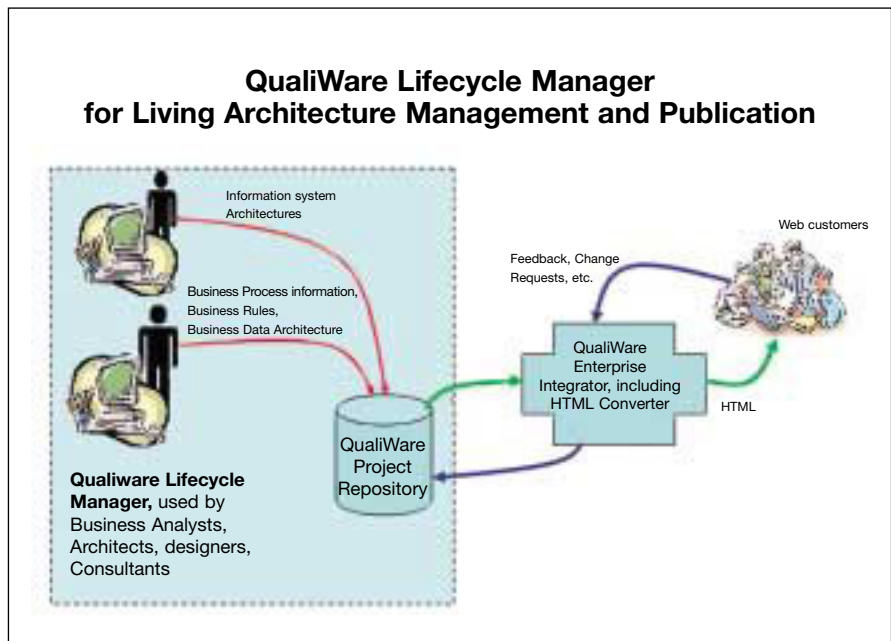
IT deliverables needed to support business transformation, by strengthening the linkage and relationship between enterprise business processes, business rules, data architecture, and application architecture. It ensures the integrity of these relationships, enhances the quality and consistency of the architecture definitions, and improves the productivity of the IT architects by providing:

- A consistent approach for defining architecture
- Reusable architecture definitions
- A complete understanding of the impact of business transformation and IT change
- Easy access to current and complete business transformation and information technology information

### The Living Architecture establishes a framework which enables integration and reuse of IBM's process, application and data architecture deliverables



The fundamental value of the Living Architecture is achieved through the definition and management of IBM's architecture deliverables in an intelligent tool which enables IBM to define the processes, data and application components of the architecture once, establish their relationships, and then reuse them as needed across the architecture deliverables. This enables IBM's Value Chains to reuse the corporate wide process and application definitions which enables the Value Chains to achieve their business objectives. The Living Architecture will result in greater consistency, quality, and integration of the overall architecture and will enable IBM to manage architecture change and change impact analysis more effectively.



The primary objectives of IBM's Living Architecture are to:

- Provide consistency, reuse, and navigation across all levels of enterprise architecture deliverables, through:
  - Conceptual or high level definition of corporate wide architecture deliverables.
  - Logical level definition of lower level business area architectures.
  - Operational level definitions of business processes and architecture deliverables.
  - Provide clear definition of process, data, and application architecture components and their relationships such that:
    - Components are defined once, by the appropriate owner, and reused.
    - Relationships are maintained across all levels of the architecture.
  - Enable effective change manage-

ment and evolution of the architecture.

- Support efficient management of architecture changes.
- Enable change impact analysis and architecture analysis reports.
- Enhance quality and speed of end-to-end integration across Value Chain architectures and end-to-end projects.
  - Provide Value Chain specific views of processes and common applications.
  - Enable efficient definition and management of Value Chain roadmaps and migration architecture definitions.

#### Implementation and Tool Support

IBM has selected the QualiWare product to support the Living Architecture. QualiWare offers flexibility in the defi-



inition of IBM's architecture content and deliverables, enables effective integration with other tools, provides an effective central repository and supports publication in multiple forms including the web.

QualiWare's software components provide the Living Architecture with flexibility in the definition and management of the metamodel supporting IBM's architecture deliverables. The software enables IBM to manage the integration of the required business and architecture components and to evolve the definition of these deliverables and the supporting metamodel as needed. The software also enables IBM to extend the Living Architecture to incorporate content developed in other tools and methodologies. The Living Architecture/QualiWare metamodel can be tailored so as to support the interpretation and integration of content from other tools and methods.

The QualiWare repository enables the storage and reuse of all architecture components. Its object based design

and presentation approach provides selectable and reusable views to existing objects in the enterprise architecture. The repository enables effective management of content access, updates, and integration. In addition, multiple revisions, configurations, and views of the content are supported.

QualiWare supports the publication and review of the Living Architecture content. The content of the repository may be published in multiple forms; e.g., documents, reports, or web based content. HTML conversion/creation, publication to the web, and hyperlinking to other web content or external documents is supported. IBM will have the added benefit of being able to 'click' on objects, view detail definitions, and navigate around the Living Architecture via their intranet. In addition, IBM personnel will have the ability to utilize intranet based templates for change requests, new requirements, feedback, etc. to better control and add value to the overall Living Architecture.

**For further information on how QualiWare may assist your company, please contact:**

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