



## **Telamon™ Platform – Physical Architecture**

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For further information on Decision-Intensive Processes, or to learn more about the Acappella Software approach to the practice-driven, Real-Time Enterprise, please contact:

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## Table of Contents

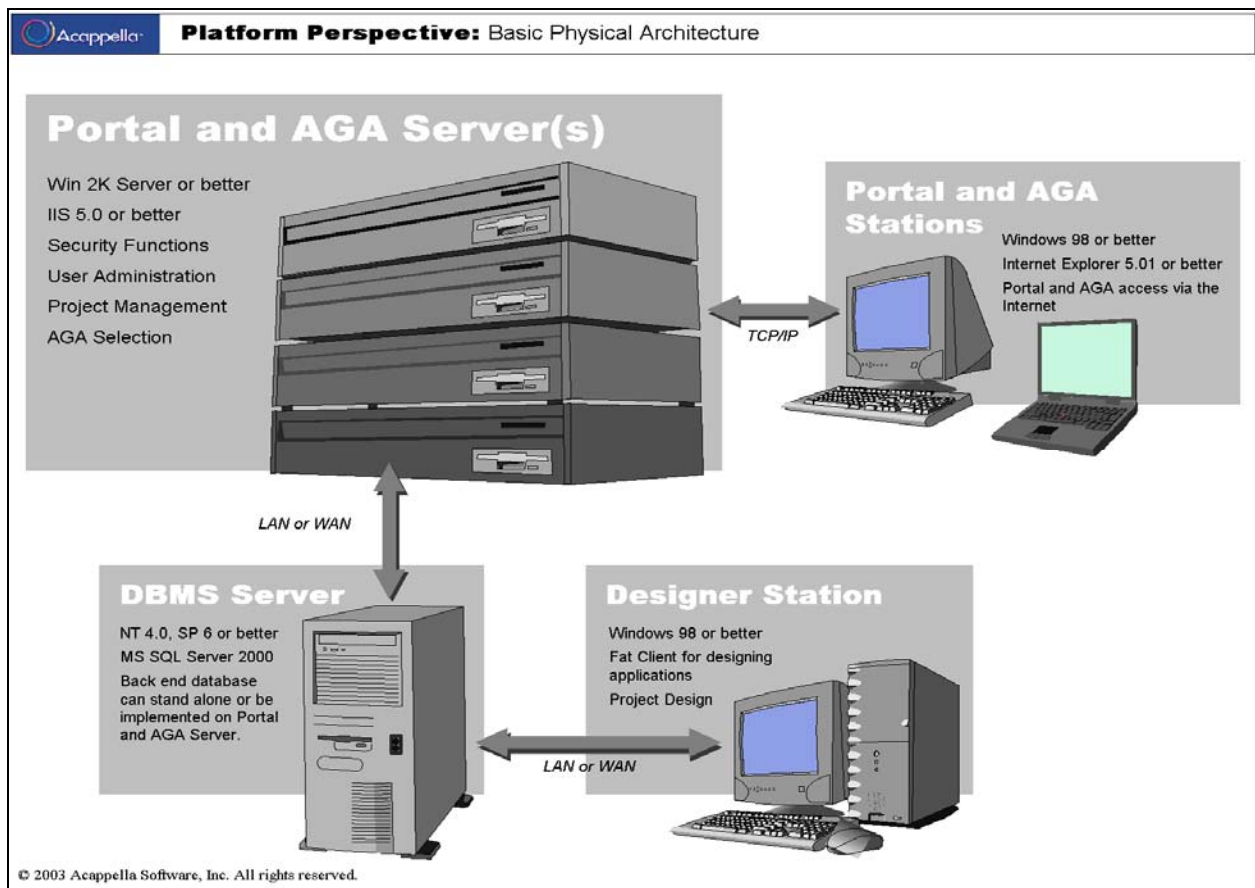
<b><u>BUILT ON STANDARD MICROSOFT TECHNOLOGY</u></b>	<b><u>3</u></b>
<b><u>A MULTI-TIERED, DATA-DRIVEN, OBJECT-ORIENTED ARCHITECTURE</u></b>	<b><u>4</u></b>
<b><u>THE ARCHITECTURAL FUTURE IS WEB SERVICES</u></b>	<b><u>5</u></b>
<b><u>NOTICES</u></b>	<b><u>5</u></b>

## Built on Standard Microsoft Technology

A clear advantage of the *Acappella*® technology is that it operates on existing computer systems that are generally in operation in most computing environments. New investment in systems is generally limited or not required to operate the technology.

The *Telamon*™ Platform (see Figure 1) works on top of standard Wintel technology. Platform components are built with Microsoft® Visual Studio® and have been migrated to the Microsoft.Net® framework. Moreover, key functionality is in transition to run as Web Services. When deployed, the *Telamon* Platform works over the web and resides on a server running the Windows 2000® (or later) operating system. Microsoft IIS® 5.0 (or later) is required to serve up the web-based components to clients running Microsoft Internet Explorer® 5.01 (or later). The Secure Sockets Layer feature of IIS can be turned on to further secure communication between the server and a browser. For the document publishing facility, a single instance of Microsoft Word® 2002 (or later) is utilized. The Design Component remains a client/server application running on a personal computer running the Windows 2000 or Windows XP® operating system.

Figure 1: Basic Physical Architecture

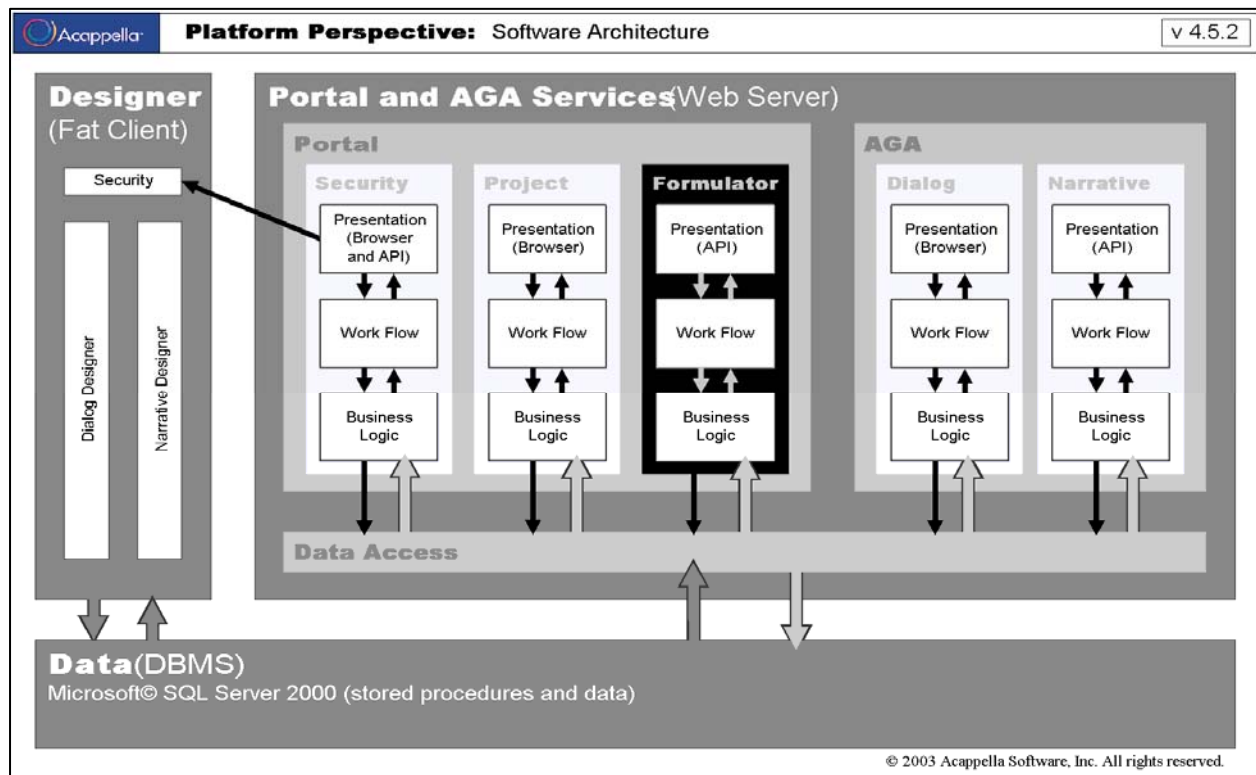


Installation of the *Telamon* Platform on a server with Microsoft SQL Server® 2000, Microsoft IIS, and Microsoft Word pre-installed requires no more than one hour of effort and less than 100Mb of available hard drive space. A web client machine with the Microsoft Internet Explorer browser pre-installed requires no installation. A Design Component client requires a manual installation time of 10-15 minutes and requires less than 40Mb of hard drive space. No more than a handful of persons use the Design Component in any organization. Once the *Telamon* Platform is installed and tested, it is ready to build and deploy applications.

## A Multi-Tiered, Data-Driven, Object-Oriented Architecture

The *Telamon* Platform is an object-oriented, data-driven software architecture. The architecture is based on a Decision Object Model (DOM) developed by Acappella Software that recognizes the objects, methods, properties and events associated with decision-making practices and behaviors.

The DOM architecture has been translated into a layered (n-tier) software design (see figure 2) with proven and tested user interfaces, business logic, and data structures. A significant commitment has been made to utilize XML as the communication medium between components of the platform. For instance, the browser-based interfaces are rendered using the XML/XSLT paradigm. The .Net framework, with the object-oriented approach, allows for external software processes to be woven into the Application Component business logic layer.



**Figure 2: Software Architecture**

Across its layers, the *Telamon* Platform is driven by data, using coded methods from the DOM to move, transform, and respond to data objects. Platform data resides in a repository built on top of Microsoft SQL Server 2000 or later database. The database uses a non-proprietary data layout that can be accessed, queried and updated by authorized individuals or processes via SQL (Structured Query Language) or XML. An application programming interface (API) for feeding data to or accepting data from external data resources is available thereby reducing the effort required to integrate an application into existing systems.

Conversion to other databases from alternative vendors has been anticipated by the Acappella Software development team. The data access layer allows for calls to be made to any DBMS. The data layer uses procedures written in Transact SQL which is readily transported and translated into procedure calls for any major DBMS that the customer should require.

This sophisticated architecture provides tremendous power, scalability, and flexibility to the enterprise. The platform is tested to support 256 concurrent users on a minimal server configuration that separates the *Telamon* Platform components onto 2 servers, each with a 1.5 Ghz processor and 1 GB of RAM. If more performance is necessary, components can be separated out or clustered onto additional servers. The demands on throughput and network bandwidth are not a bottleneck to performance. Network metrics are available upon request.

## Web Services

At the architecture level, the next generation of the *Telamon* Platform will continue the evolution of the object model as objects, properties, events, and methods are further refined and defined. The technology already has a growing internal XML-based messaging service based on application events. These events and associated messaging are to become fully exposed as Web Services with all communication within the platform being XML based.

Once a transaction management layer (e.g., SOAP) is implemented, customization or extensions to support integration and communication with applications, databases or other external technologies, is readily available. With this, the platform becomes a standard front-end for context-rich applications that overlay and expose legacy and other data stores.

Finally, as these features mature, applications built on the *Telamon* Platform will be easily and readily, if not automatically, linked to each other. As a result, decision-making applications will start to connect to each other in a decision network.

The Acappella Software design team is committed to open standards, allowing our architecture to be highly extensible, extremely flexible and very powerful so that it seamlessly fits into existing and future technology infrastructures within any business environment.

## Notices

*Acappella* is a registered trademark of Acappella Software, Inc.

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The *Telamon* Platform is a patented technology in the U.S. Patent #6,529,889 and #6,910,027 with corresponding foreign patents. Additional US and corresponding foreign patent applications are pending.