



Microsoft® Windows DNA

Windows Distributed interNet Applications Architecture

Development Lab

A unique Australasian Microsoft Windows Distributed interNet Application Development Laboratory ("DNA Development Lab") now exists for the development teams of corporate and government organisations plus ISVs (Independent Software Vendors) requiring a rapid path to measurable results. The DNA Development Lab is designed to facilitate application development and porting to the Microsoft Windows DNA architecture platform. The DNA Development Lab employs a proven and intensive process over a one week period of time, with a focus on tangible deliverables. It has been created through a unique partnership between Microsoft, Expert Software Services and Dell Computer.

PROVEN SUCCESS FORMULA

Microsoft established the first DNA Development Lab at their corporate headquarters in Redmond, WA. This first Lab was for ISVs who were interested in quickly porting their applications to the latest multi-tier architectures. The ISV Lab delivered such positive value to attendees, that demand continued to grow, requiring that other DNA Development Lab facilities be established for corporate, government and ISV development teams around the world.

The Australasian DNA Development Lab is strategically located in the central business district of Melbourne, Victoria. This DNA Development Lab is dedicated to serving corporate, government and ISV development teams requiring the same powerful value proposition — access to Microsoft resources and specialist developers with the most up-to-date real world knowledge and practical experience in utilising the Microsoft Windows DNA architecture framework.

Working cooperatively with Microsoft and Dell Computer, Expert Software Services is privileged to be the host site and experienced development partner for the Australasian DNA Development Lab.

DNA DEVELOPMENT LAB ENVIRONMENT — WHAT TO EXPECT

One of the most unique aspects of the DNA Development Lab is the environment itself. The DNA Development Lab has been tailored to meet the personal and professional demands of a rapid application development "boot camp". It provides optimum focus on deliverables and rapid knowledge transfer. Attendance is limited to a maximum of 6 client development team members.

The DNA Development Lab is equipped with the latest Dell PowerEdge Servers, Optiplex workstations and Latitude notebooks; plus Nortel Networks BayStack switch; Microsoft software; reference materials and highly skilled resources. Experts in architecture, development, support and installation from Microsoft Consulting Services and Expert Software Services staff the DNA Development Lab. We've considered everything down to the smallest details, even providing start-to-finish meal catering. Everything is done to ensure the sought after results are achieved.

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DNA LAB PROGRAMME SCHEDULE

The one week DNA Development Lab engagement is custom tailored to each client development team. Deliverables and educational needs are agreed upon before the DNA Development Lab engagement begins. The DNA Development Lab is then structured around a basic success template that will accomplish the mutually agreed upon goals. Normally, three segments are considered prior to accepting client development teams into the DNA Development Lab:

- 1) Pre-lab preparation and prerequisites;
- 2) the lab engagement week in Melbourne; and
- 3) Post-lab support.

PRE-LAB PREPARATION

Before a DNA Development Lab engagement begins, staff from the Lab will work with you to understand the business goals of your project, your goals for the lab and the educational needs of your development team. All DNA Development Lab attendees approve these goals prior to starting the lab engagement.

Pre-lab educational efforts are oriented towards levelling the playing field between the up to six developers that will attend the DNA Development Lab. Front-end training and/or consulting sessions assure that prerequisites for lab readiness have been met. Example prerequisites include:

- MTS, ActiveX and COM knowledge
- Knowledge of development tools/technologies
 - ◆ Visual Studio (VB, VJ, VC++)
 - ◆ VBScript, JavaScript or Active Server Pages
 - ◆ HTML, Dynamic HTML and/or XML
 - ◆ ODBC, RDO or ADO

LAB ENGAGEMENT WEEK

The DNA Development Lab engagement week is a compelling statement of partnership and support. Highly experienced Microsoft Consulting Services and Expert Software Services professionals staff the DNA Development Lab and work with the client's development team.

Day 1: Installation & Microsoft Transaction Server (MTS) Programming Model Review

A custom software development hardware and software environment is configured prior to the DNA Development Lab engagement week. During the first day the client development team reviews the DNA Development Lab configuration paying special attention to major software components, such as MTS, SQL Server, Message Queue Server, Internet Information Server, Exchange, Visual SourceSafe, Visual Studio etc.

After configuration review, the DNA Development Lab begins a detailed how-to discussion on COM and MTS development. Presentations include the MTS components and programming model, ActiveX scripting and Active Server Pages, ActiveX Messaging components, and Microsoft Message Queue (MSMQ) components. An in-depth review of sample code (MTS, MSMQ, Active Server Pages, and ActiveX Messaging objects) reinforces discussion topics.

Day 2: Application Architecture Review

During the second day, focus shifts to application design and planning. DNA Development Lab attendees work with the DNA Development Lab staff to design selected application services using an MTS-based architecture.

The team works together to determine the best component architecture for agreed upon solution modules. Using Visual Modeler, the team documents this architecture and related component interfaces. The team then subdivides the work into manageable tasks and deliverables.

Day 3-4: Application Development

DNA Development Lab attendees work together with DNA Development Lab staff to write application components for MTS. The team's focus is on the most important proof-of-concept components in the application: key business logic, database access code (to test performance), key user interface elements etc. The Lab staff coach the development team, provide code examples when necessary, plus document the architecture and design of the prototype.

Day 5: Development and Deployment Concepts

On the final day, the DNA Development Lab attendees learn how to package the prototype for installation and distribution at their site. Throughout the week, relevant code samples and white papers are tagged for retention, as requested by the participants. At the end of the week each DNA Development Lab attendee is provided with a customised CD-ROM disk of these tagged reference materials. A session on "Application Deployment Concepts" shows the client development team how they can quickly recreate the development environment and continue developing the application.

DNA DEVELOPMENT LAB DELIVERABLES

The key deliverables from the DNA Development Lab include:

- Functional application prototype
- Key components, code and scripts
- High-level application/component architecture definitions and documentation
- High-level project plan
- Relevant reference materials

POST DNA DEVELOPMENT LAB CONSIDERATIONS

Further Application Development assistance is available from Expert Software Services for a wide-range of follow-up consulting alternatives, depending on your planning, architecture, design, development, integration and support requirements. We can assist in the replication of the DNA Development Lab concept at your site. Evaluation copies and pilot programmes for appropriate Microsoft products are also available.

EXPERT SOFTWARE SERVICES CLIENT PARTNERSHIP

Expert Software Services Pty Ltd is a leading provider of software application solutions, technologies and services. Our software development and maintenance solutions enable organisations to transform software into an efficient, cost-effective process.

Expert Software Services offers a full range of consulting services from strategic and tactical assessments, to education, design, deployment and support of Microsoft Windows DNA and COM based application initiatives throughout the business enterprise.

HOW TO GET STARTED

If you are interested in more information on the DNA Development Lab, please visit our web site at www.expert.com.au, or contact Expert Software Services by calling on +61 3 9320 6100. E-mail inquiries can be directed to devlab@expert.com.au.

For additional information on COM and Microsoft Windows DNA, please visit the Microsoft web sites at www.microsoft.com/com/ and www.microsoft.com/dna/ respectively.

Microsoft Windows DNA — Leveraging Investments

Microsoft Windows DNA is an architectural framework for building modern, scalable, multi-tier distributed computing solutions that can be delivered over any network. The strategy behind Windows DNA is to offer a unified approach for integrating the Web, client/server and host computing models. The benefits are flexibility and speed in delivering Internet solutions based on existing PC & mainframe computing investments.

The architecture addresses all tiers in a distributed application, from user interface and navigation, to business processes and data storage. With Windows DNA, developers have a framework to build tightly integrated applications by accessing a set of application services in the Windows platform, using a wide set of familiar tools. These services are exposed in a unified manner through Component Object Model (COM). By taking advantage of modern component-based development methods and standard implementations of networked services, developers can more rapidly deliver the innovative solutions their businesses need.

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