



information . database . security

Engagement Summary

Gary McClign

Title: Principal Consultant,
Architecture and Advanced Services, EMEA
Home Office Location: London, UK

Profile: Gary has extensive experience in J2EE technologies and is well grounded in the principles of object-oriented design and Java's position in the global marketplace. He has participated in numerous architectural reviews that have made use of key technologies such as J2EE and XML, and has held various technical leadership positions. During his career he has conducted various different consulting and mentoring engagements relating to these and other technologies as outlined below.

Technical Capabilities: Java 1.0.2-1.4; WebLogic Server (WLS) 4.0.3-7.0; WebLogic Commerce and Personalization Server (WLCS/WLPS/WLP) 1.7-4.0; WebLogic Integration (WLI) 1.0-2.1; Jolt 1.2; J2EE 1.2 – 1.3 (EJB 1.0-2.0, JSP, Servlets, JMS, JNDI, JDBC, JAAS, JTA); XML; Web Services (JAX, UDDI, WSDL); Java Swing; Object/Relational persistence technologies (e.g. TopLink); SQL (Oracle, Sybase, DB2, Cloudscape); HTML; UML

Selected Recent Engagements (2000-2002):

Customer:	Multinational European bank	Project:	Integration Project
Role:	Architect	Dates:	January, March 2002
Products:	WLS, WLP, WLI	Services:	Architectural Review

Description:

This bank has recently merged with banks from at four other countries, and they are trying to both integrate their internal processes and present a unified face for their customers. Since there is much overlap in process and design, Gary was tasked with reviewing their proposed architecture for both feasibility and J2EE compliance. Reviews were conducted in 2-week blocks in two different countries.

Customer:	Danish Internet provider	Project:	Order System
Role:	Architect	Dates:	February 2002
Products:	WLI	Services:	Quick Start Mentoring

Description:

This Internet service provider interacts with various telecoms and hardware manufacturers to provide services for their customers. Their current system is based on a homegrown wrapper around Oracle, but they see the limitations in this approach and are planning to implement WLI as their integration hub. Gary delivered a one-week WLI Quick Start to this company, instructing them on the relevant J2EE technologies and, through review of their architecture, suggesting designs for their enterprise.

Customer:	International petroleum company	Project:	Records System
Role:	Architect	Dates:	December 2001 – January 2002
Products:	WLI	Services:	Proof of Concept, Mentoring

Description:

This customer is integrating their processes across Italy, UK, Denmark, among other countries. Different systems all have different procedures, and need to be integrated into one set of processes. The only common integration point is each system's interactions with SAP; they are using J2EECA adapters for this communication. Also challenging are the high volume of batch processes and data transfers, and various data mappings necessary to combine disparate information.

Customer:	A European national telephone company	Project:	Billing System
Role:	Architect	Dates:	September, November 2001
Products:	WLI	Services:	Proof of Concept, Mentoring

Description:

This customer is revamping their customer billing system with WLI as its workflow hub. They were interested in pushing a large volume of Workflows through their system (100,000/day) and needed to prove that WLI was stable and scalable, with 100% reliable JMS message delivery. Gary's work included tuning large BPM Workflows to be performant and reliable, and give sizing and architectural advice for this large system.

Customer:	International Electronics Manufacturer	Project:	Dealer Access System
Role:	Architect	Dates:	July 2001
Products:	WLCS/PS	Services:	Architectural Review, Mentoring

Description:

This customer is building a new European-wide dealer portal, with WLCS at its core. Gary provided architectural advice in integrating with Divine, Inc.'s (formerly OpenMarket) content management system, and integrating with the customer's single-sign-on framework.

Customer:	A European national telecom	Project:	Business partner ordering system
Role:	Architect	Dates:	March 2001
Products:	WLC, WLPI, WLS	Services:	Proof of Concept, Mentoring

Description:

This telecom is looking toward its future as a hub of B2B transactions and conversations with business partners who are currently inter-corporate departments. They required proof that WLC is ready now to provide XML message routing and conversation management peer to peer. Gary's work included building a sample application for this customer's engineers to learn from and expand. WLC XML conversations were modeled and managed by WLPI enablers, via Xpath and DTD, with business logic residing in custom Java classes.

Customer:	Scandinavian wholesaler	Project:	Product Catalog
Role:	Architect	Dates:	February 2001
Products:	WLCS/WLPS 3.2, WLS	Services:	Technical Aid, Project Mentoring

Description:

A Scandanavian software house is building for one of Scandinavia's largest wholesalers a catalogue shopping cart portal for their retailer business customers. Due to extreme time-to-market constraints, Gary provided architectural guidance, technical leadership and some project management to jump start their project, steering them toward the most effective usage of Personalization, Commerce and J2EE technologies. Gary introduced CVS and Ant to more efficiently manage development processes, and provided both real and sample InputProcessor and PipelineComponents to aid in their WLPS Workflow and Pipeline chaining.

Customer:	Dutch Internet portal	Project:	New Portal Version
Role:	Architect	Dates:	December 2000, April 2001
Products:	WLPS, WLS 5.1	Services:	Troubleshooting, Mentor

Description:

This company, in conjunction with its national telephone carrier, maintains a very high-profile high-volume web and WAP portal in The Netherlands. Over the New Year's holiday season, Gary provided architectural guidance and code troubleshooting, keeping their portal up and running over busy periods in spite of its inherently poor design. Subsequently, Gary has performed extensive architectural reviews and made business and technical analysis of potential future directions for the application, helping them make better use of WLS and J2EE design principles in general.

This customer makes extensive use of J2EE technologies, including JMS, JSP, EJB and JDBC. Poor integration of these components led to drastic design modifications on the fly, and eventually to the re-positioning of these components for more effectual use.

Customer:	A European national bank	Project:	WLS Migration
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Role:	Architect	Dates:	November 2000
Products:	WebSphere Integration Kit 1.0, WLS	Services:	Architecture Review

Description:

Gary reviewed this customer's implementation of IBM's WebSphere application server, and provided architectural guidance for migration from WebSphere to WebLogic Server. Especially important was the integration of IDE and deployment methodology, and the porting of existing JSP's and EJB's.

Customer:	A European national telecom	Project:	Internet Banking Portal
Role:	Architect	Dates:	July 2000
Products:	WLS	Services:	Troubleshooting, Architectural Review

Description:

Gary performed an Architectural Assessment of an Internet banking application designed, written, and hosted by a European national telephone company. Initially, Gary debugged and fixed the existing application, and made design recommendations. Ultimately, Gary contributed to the future architectural direction of the portal. This customer also designed their own socket pool to legacy systems, which was introducing a level of complexity of dealing with data streams. Gary modified their EJB and JSP designs to more effectively make use of proper J2EE design patterns.

Customer:	European produce wholesaler	Project:	Commodity Exchange
Role:	Architect	Dates:	May 2000 – June 2000
Products:	WLS	Services:	Architecture Review

Description:

This customer is an international produce distributor based in Ireland. Gary performed an architectural review of their B2B auction portal, which was at the midpoint of development. Poor positioning of EJB relationships led to performance difficulties, which Gary diagnosed and corrected, with better object-oriented design in mind. Object-relational mapping tools were discussed, as a better solution to their current needs.

Other Technologies

WebGain Products	TOPLink Java-RDBMS mapping tool Visual Café Dreamweaver StructureBuilder
Programming Tools	Emacs ant xalan xerces TogetherJ
Other Products	Contivo Analyst Excelon Stylus Studio
Project Management Processes and Tools	BEA's Accelerated Processes Microsoft Project Visio StarTeam CVS ClearCase Rational Rose

Education

School:	University of Denver	Degree:	BA, 1986
School:	University of Colorado	Coursework:	Advanced Java Programming, 1997
Organization:	Sun Microsystems	Certificate:	Java Programmer, 1.1.x, 1998