An Architecture Framework for Enterprise SOA

Capgemini has developed a unique approach and common language for all stages of architecture design called the Integrated Architecture Framework (IAF).

Transform how you do business with clients and suppliers. Transform your business processes. Evolve new revenue streams. Turn your business into a real-time enterprise. These are all promises of Service-Oriented Architecture. But how do you make them real?

SAP’s Enterprise Services-Oriented Architecture (ESOA) provides services-based, enterprise-scale business solutions that offer increased levels of adaptability, flexibility, and openness. Based on the SAP NetWeaver platform, ESOA moves IT architectures step-by-step to dramatically higher levels of adaptability.

Essential to realizing the promise of ESOA is an architectural framework to base it on. Since 1993, Capgemini has been developing just that, and this combined with its exceptional intimacy with SAP technologies such as NetWeaver™, makes it the obvious choice for helping you make SOA real. Capgemini has arguably the world’s strongest Enterprise, Business and IT Architects’ Community, with over 1,300 members and 380 certified architects.

- A knowledge base built on more than 12 years’ experience and hundreds of hands-on engagements.
- Proven, effective and pragmatic methodology, the Integrated Architecture Framework.
- Proven Service-Oriented Architecture model, the Services Architecture Framework™.
- Consistently rated as a leader in this market by analysts for SAP and non-SAP architecture.
“Capgemini stands out from the others as being more experienced at EA planning for SAP customers by a very large margin. Its Integrated Architecture Framework (IAF) EA Methodology has developed over the past 11 years, and is now a very mature and detailed product. By far, Capgemini provided the most insight from IAF engagements with SAP customers in Europe.”

How SAP Customers Can Manage Enterprise Architecture, Part 2: The Role of SAP's European Partners
Derek Prior and Natalie Burgess
AMR Research, April 24, 2006

Enterprise Architecture
An Enterprise Architecture translates the strategic objectives and vision of an enterprise into a realizable blueprint for business and IT change.

- Development: Capgemini's architects work collaboratively with key stakeholders to understand their business and technology challenges from which the Enterprise Architecture can be derived. Using our Integrated Architecture Framework (IAF), we provide a proven and pragmatic approach to developing the Enterprise Architecture with a common language, so that the Enterprise Architects can more effectively work together.

- Deployment: With the Enterprise Architecture defined, we ensure it is used to guide the Solutions Architecture, with an effective change program that recognizes that the Architecture will need to change over time as new pressures and opportunities from inside and outside the business.

- Governance: Capgemini helps organizations develop, design and create the governance model to ensure that the Enterprise Architecture is able to deliver value to the business, and continue to do so as circumstances change.

Solutions Architecture
Effective Solutions Architecture is essential to guide and govern the ESOA. By considering the individual projects in the context of the wider business needs and drivers, as well as the wider business and IT landscape, it can help structure the solution to deliver value, leverage appropriate systems and infrastructure, and identify (and mitigate) risks and complexity early.

- Development: Ideally, Solutions Architecture development should be part of a wider architecture capability, with Enterprise Architecture providing much of the framework and guidance for the Solutions Architecture. Again, our IAF provides the basic framework for our Solutions Architects to develop the architecture in a structured and consistent manner, ensuring easier and more effective communication and collaboration across Capgemini and with our clients.

- Governance: Having developed the Solutions Architecture, it is important to ensure that the architecture is realized through the design, and can be adjusted if specific project issues require changes that affect or impact the architecture. Our Architects and Technical Managers, working closely with the software and infrastructure engineers, provide this technical management through the delivery phase of the project.
Capacity Development

A coordinated Enterprise and Solutions Architecture capability is critical to improve business/IT alignment and improve delivery effectiveness. Capgemini has worked successfully with major blue chip and government organizations to help develop and implement an Enterprise Architecture capability.

- **Vision:** An Enterprise Architecture translates the strategic objectives and vision of an enterprise into a realizable blueprint for business and IT change. Without an Enterprise Strategy & Vision, which provide overall direction and principles, there is little opportunity for Enterprise Architecture to demonstrate tangible value.

- **Design:** Using teams of people drawn from around clients' business and IT operations, supported by appropriate tools and techniques, we develop an effective organizational and governance model, with clearly defined architecture roles and responsibilities to ensure maximum value is derived from everyone involved. We use our extensive knowledge and experience of Enterprise Architecture frameworks, tools and techniques to help our clients assess and document their particular needs.

- **Set Up:** We ensure that our client's core Enterprise Architecture team is fully equipped with all the necessary knowledge, skills, tools, processes and techniques to successfully deliver Enterprise Architecture work.

- **Test:** In our experience it is essential to test the potential of Enterprise Architecture before applying it across a client's enterprise project portfolio. By selecting the most appropriate pilot projects, we help our clients to demonstrate the benefit their Enterprise Architecture capability delivers.

Integrations Architecture Framework

For architecture to deliver true value, a comprehensive and holistic view is essential, one that can connect all of the different types of architecture through a common framework and common vocabulary across the various communities.

Capgemini has been developing its own architecture approach that covers business, information and technology since 1993. This approach, or framework, which is called the Integrated Architecture Framework (IAF), has been developed from the experience of practicing architects on projects for clients across the group. IAF is:

- Comprehensive framework that enables Capgemini to deliver market-leading solutions
- 100% adaptable to the specific needs of our customers
- Scalable from individual projects to enterprise wide transformation
- Recognized as leading the market by both analysts (Forrester, AMR, IDC) and major market players (Microsoft, HP, Cisco, SAP, etc.)

Services Architecture Framework

Capgemini’s Integrated Architecture Framework has been delivering service-based architectural thinking since its inception more that 12 years ago, successfully delivering agile, Service-Oriented Architectures once the technology started to mature in the late 1990s.

The Services Architecture Framework™ works alongside the Integrated Architecture Framework by providing a logical structure for the IT Architecture in a Service-Oriented Architecture, encapsulating the leading practice and though leadership that Capgemini has developed over the past 7 years.
Capgemini and SAP
Capgemini has collaborated with SAP for more than 15 years, implementing more than 3,500 SAP projects for more than 1,700 clients in all major industry sectors across the globe.

This partnership helps our clients implement customized, highly-functional solutions that add value to the enterprise. Capgemini's SAP consultants have an average of eight plus years experience with cross-industry SAP solutions. Using our five-phase approach, starting with our RapidStart program, they skillfully implement such solutions as NetWeaver, CRM, mySAP ERP, Manufacturing Ready-to-Run and FastPharma™.

Our Rightshore™ program dedicates 19 centers spanning 13 countries to supporting SAP projects, ensuring the quality of the client's investment while reducing their total cost of ownership.

Capgemini has been the first, and often only, implementation partner for many of SAP's strategic initiatives. SAP has designated Capgemini as a Leading Global Integration Partner since 1993 and we were the first to create a NetWeaver roadmap. Our partnership will be even more important as Service-Oriented Architecture becomes an increasingly integral part of the business process.

About Capgemini and the Collaborative Business Experience

Capgemini, one of the world's foremost providers of Consulting, Technology and Outsourcing services, has a unique way of working with its clients, called the Collaborative Business Experience.

Backed by over three decades of industry and service experience, the Collaborative Business Experience is designed to help our clients achieve better, faster, more sustainable results through seamless access to our network of world-leading technology partners and collaboration-focused methods and tools. Through commitment to mutual success and the achievement of tangible value, we help businesses implement growth strategies, leverage technology, and thrive through the power of collaboration.

Capgemini employs approximately 61,000 people worldwide and reported 2005 global revenues of 6,954 million euros.

More information about our services, offices and research is available at www.capgemini.com.

Harry de Boer
SAP NetWeaver Solution Center EMEA
SAP Alliance Manager
+31 (0) 30 689 62 37
harry.de.boer@capgemini.com

Andrew L. Macaulay
Global Leader of Architects Community
+44 (0) 870 904 5982
andrew.macaulay@capgemini.com

Renate Radon
Vice President,
Head of Global SAP Alliance
+49 (69) 95152909
renate.radon@capgemini.com

Jonathan Ebsworth
Technology Services
+44 (0) 870 904 4065
jonathan.ebsworth@capgemini.com