

TECHNICAL ARCHITECTURE

Technical architecture is the foundation to enable the agreed-upon solution.

In an enterprise solution such as Data Warehousing (DW) or Enterprise Application Integration (EAI), technical architecture is a significant consideration. It includes the **infrastructure** (hardware/software/network), the **data acquisition** (extract/transform/load (ETL) or realtime integration), and **data delivery** (access/distribution) design to support the solution defined by the Information Architecture.

You will have a great advantage if you are working within the preconceived framework of a long-term Technology Strategy.

WHAT SISG CAN DO FOR YOU

SISG has the necessary expertise for all phases of enterprise architecture. We will help you to develop a tactical approach as you reach each lifecycle and decision point within your long-term strategy.

At each juncture, we'll help you revisit the assumptions made in the long-term plan to confirm that the outlook is still appropriate. If you don't have a long-term plan, we can help you to develop one, or to make these lifecycle decisions with the future in mind.

The technical requirements resulting from **Facilitated Discovery** sessions and deliverables from the **Information Architecture** phase form the input for technical design:

Infrastructure design

SISG technical architects will design an infrastructure to enable the current solution, and advance the long-term strategy.

This begins with a detailed evaluation of the technical environment. We will present alternatives and guide you through purchase decisions, striving to optimize available hardware and software.

Our recommendations will diagram a fresh infrastructure of new *and* existing elements, including all hardware, software, and network components necessary to support and make the development work ahead more productive.

Data acquisition design

Our consultants are experts in data movement; that is, building detailed migration diagrams and architectures, analyzing and creating complex mapping specifications to fulfill business requirements. We are particularly well-versed in EAI and ETL tool architectures and efficiencies.

Information delivery design

We will help you determine the best means within the overall framework to satisfy the current functional requirements for online access to the solution, distribution of reports and notifications.

Our experts can show you how to design for multi-dimensional analysis and how to get the most mileage out of standard reporting. We will help you plan an interface with less maintenance and administration, and automate as much of the information delivery process as possible.

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TECHNICAL ARCHITECTURE

Clients who have taken advantage of our **Strategic Technology Planning** services will benefit from a more visionary project-level technical architecture, and a briefer, smoother design phase.

SISG offers **Development & Maintenance** services to assist you in implementation of all aspects of the proposed technical architecture.

DELIVERABLES

The primary deliverable for this service is the Technical Architecture document, which incorporates the

- Infrastructure diagrams and functionality/connectivity narrative
- ETL/EAI architecture diagrams and process flow narrative
- Information delivery diagrams and narrative

TIMEFRAME

The technical architecture is generally a 2-3 week effort, depending on whether or not the client has already developed a long-term Technology Strategy.

CLIENT BENEFITS

By allowing SISG to help design the enabling technology, clients of SISG enjoy the benefit of:

- Years of experience in enterprise architecture
- Sustainable technological choices
- Firm foundation to begin Development
- Foundation that allows the application to efficiently scale

LEADING TECHNOLOGIES

SISG can support these and other leading technology solutions:

SOURCE/TARGET APPLICATIONS	DATABASE MANAGEMENT	DATA INTEGRATION /ETL TOOLS	ANALYTICS PACKAGES	META DATA MANAGEMENT	DATA ACCESS & ANALYSIS	WEB INTEGRATION
Oracle Financials	Oracle	Informatica Data Integration Suite (PowerCenter, Connectors, etc.)	Informatica Analytics	Informatica SuperGlue	Informatica PowerAnalyzer	IBM WebSphere Application Server
SAP	DB2/UDB	MQ Series, MQ Integrator	Jaros Analytics	ERwin	Actuate	IBM WebSphere Portal Server
Siebel	Informix	SeeBeyond	PeopleSoft EPM		Brio	BEA WebLogic Application Server
PeopleSoft	SQL Server	Tibco	SAP Business Warehouse		Business Objects	IBM Directory Server
Other custom-built applications	Sybase	Other JMS-compliant messaging toolsets			Cognos	

Our consultants are also proficient in the following core competencies:

ARCHITECTURE	PACKAGED DATA WAREHOUSE	INFORMATION DELIVERY
Normalized Data Modeling	Customer Relationship Management	Standard Report Design
Dimensional (star schema) Data Modeling	Supply Chain Management	Design for Multi-Dimensional Analysis
Advanced Data Modeling	Financial Management	Real-time Alerts
Extract, Transform & Load	Human Resources Management	Portal Integration
Real-time Application Integration	Weblog Analysis	

For more information please contact:

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