



Dynamic Enterprise Service Framework™

ProtoSOA™

ACCELERATE COMPETITIVE ADVANTAGE
THROUGH GREATER ENTERPRISE
EFFECTIVENESS, TRANSFORMATIONAL
AGILITY AND SPEED TO MARKET

Every business, regardless of industry, performs services by collaborating across departments and divisions, responding to customer needs and interacting with trading partners. The ability to effectively create, modify and reuse these services to achieve greater interoperability and “turn on a dime” when new opportunities arise is what distinguishes innovation leaders.

A Service-Oriented Architecture (SOA) can help you transform strategic information assets into distinct and clearly-defined services while leveraging existing information platforms.

With an SOA framework in place, you can create specific service components and then combine and reuse them to create elegant applications and support complex processes across the enterprise.



Introducing ProtoSOA™

ProtoSOA™ is ComFrame's pure SOA-enablement framework that uses Web service standards and principles to move organizations toward a true Service-Oriented Architecture. ComFrame created ProtoSOA to solve a common business problem – inflexibility. ProtoSOA provides the infrastructure and tools that enable business and IT professionals to quickly and easily add or modify applications, business logic, SOA services and information to reflect new business relationships and new ways of interfacing with customer systems in “real-time.”

Do You Really Need ProtoSOA?

If your answer to any of these questions is “yes,” you may be a candidate for ProtoSOA:

- ✔ Do you need to structure your organization to perform more effectively over the long term?
- ✔ Is it important to execute a business plan that incorporates continuous business transformation?
- ✔ Does your organization need more agility when responding to market demands and instituting change?
- ✔ Could “speed to market” improve or extend your advantage over competitors?



ProtoSOA Components

GOVERNANCE – Through the Governance Component, changing services, adding logic and scaling business objects to drive the right information can all be accomplished by using ProtoSOA's unique and powerful **life cycle** and **versioning** management. Life cycle and versioning allows your business experts and IT professionals to manage multiple service versions through your corporate-defined development life cycle.

PERFORMANCE – ProtoSOA's Performance Component uses policy-based **caching** to ensure rapid access to data. This technique enables you to determine which objects you want cached and how long each cached object is allowed to remain in memory. Caching policies can be specified on a per-object basis, either as a time-to-live value, as the number of reads allowed before a refresh is required or both. ProtoSOA caching works equally well in a clustered environment.

QUALITY – The Quality Component of ProtoSOA enables you to be confident your assets are doing what they were intended to do prior to moving them into a production environment. ProtoSOA's adherence to quality is centered around **testing**. Each asset can be tested against production-like systems, ensuring that services are accessing the correct objects and that logic is performing according to expectations. ProtoSOA lets you thoroughly test first, then deploy.

For more information on ProtoSOA, call 800.905.0293 or email info@comframe.com.

COMMAND CENTER - Command Center is your entrée into ProtoSOA, simplifying the management of every aspect of your SOA framework. Command Center offers a robust and secure user interface that enables you to dynamically control the components and behaviors of the system. It helps you quickly visualize and understand what information you have available, how it is structured and how it is being used to “service” your clients. It allows you to rapidly merge old and new information into new services as business needs change.

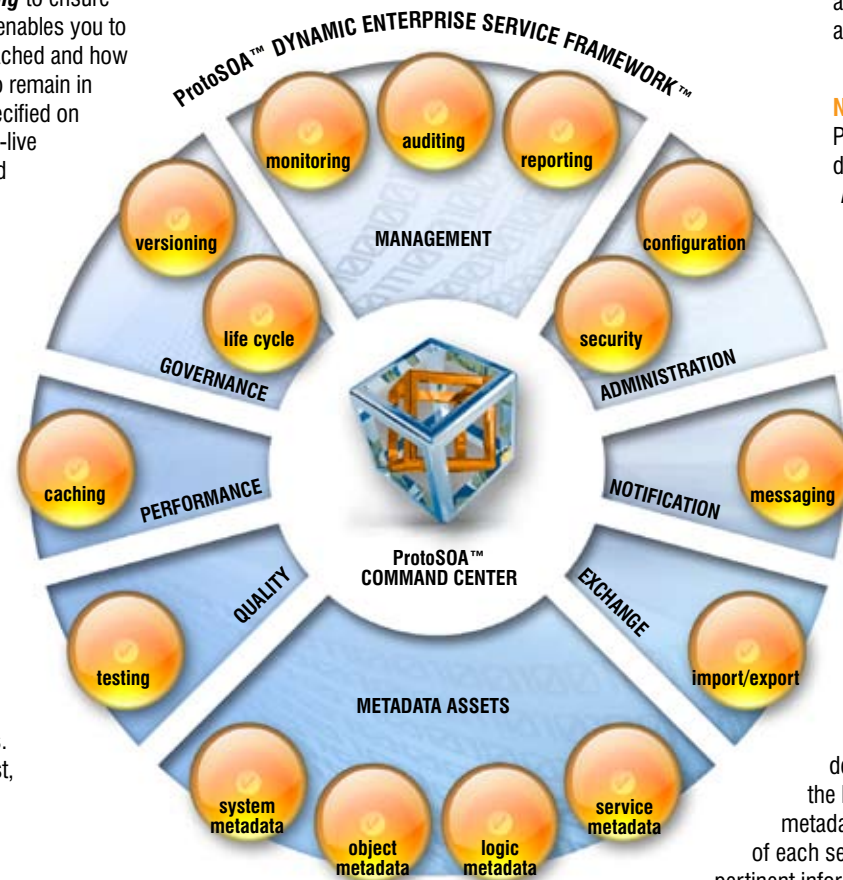
MANAGEMENT - ProtoSOA's Management Component provides detailed insights into the overall workings of your assets, enabling you to make decisions about viewing, controlling and managing them. **Health & performance** monitoring assists in the daily care of the system, helping support personnel, minimize issues and make sure all assets are fully utilized and integrated. An **auditing** component provides the necessary audit trail of an executed service, helping you make sure regulatory or organizational compliance requirements are quickly and completely checked for accuracy. **Reporting** provides information on activity by users and changes to assets as well as information on available or unnecessary assets.

ADMINISTRATION - ProtoSOA's Administrative Component provides complete, intuitive and straightforward administrative tools to enhance a business expert's interaction with the dynamic framework. **Configuration** settings let you control system features and functions that include auditing, exporting, importing, logging, monitoring, object generation, reporting, security, service execution and versioning. **Security** provides controls to manage authentication and authorization to both the system management components as well as the run-time execution of services and access to their supporting objects.

NOTIFICATION – Notification within ProtoSOA ensures the fast and accurate delivery of configurable **message information**. This includes the delivery of error, warning and informational messages to specific individuals when certain events occur.

EXCHANGE – ProtoSOA's Exchange Component enables the exchange of assets. The **import and export** functionality within ProtoSOA is used to import systems, objects, logic and services and to provide versioned component exports for inclusion into an existing ProtoSOA system.

METADATA ASSETS - **System, object, logic** and **service metadata** assets that describe enterprise business functionality are the key internal drivers of ProtoSOA. ProtoSOA metadata describes not only the characteristics of each service but also the objects containing pertinent information, the logic that drives the business and the systems where the information is stored. Many of your existing systems can be established easily through the robust **auto discovery** feature. All assets are controlled by appropriate personnel using the company's own proprietary terminology and can be changed dynamically in real-time.



Realizing the Promise of SOA with ProtoSOA

Based on more than a decade of cutting-edge, large-scale software development, ProtoSOA was developed “from the ground-up” by ComFrame architects, engineers and business professionals. ProtoSOA's dynamic SOA framework provides a new approach for accomplishing enterprise integration and data transformation, delivering a powerful logic engine that enables the end client to create “virtual” web services defined through metadata.

Results that can be achieved using ProtoSOA include:

DEVELOP NEW CUSTOMER, PARTNER AND SUPPLIER RELATIONSHIPS WITH MINIMAL EFFORT. ProtoSOA provides tools to create services from disparate sources. Your business experts can fully control enterprise information assets, including systems, objects, logic and services using ProtoSOA's System Management Console. Operating to support the metadata assets are administration, governance, management and notification components. These framework elements, coupled with the metadata design approach, enable new relationships to be built, managed and changed in real-time by business users with little or no reliance on IT.

SAVE MONEY, TIME AND EFFORT THROUGH ASSET REUSE. In a well-designed SOA environment, services become long-term strategic assets. Using the ProtoSOA System Management Console, your business experts can quickly understand what assets are available, how the assets are structured and how they can be reused. In addition, the capability to merge old and new services into new systems as business needs change, is realized. ProtoSOA's Versioning and Life Cycle Management component provides business experts with a “playground” for version and client-defined lifecycle changes before introducing them into production.

ProtoSOA enables business experts and IT professionals to work collaboratively in supporting the business, while ensuring the assets they create can be used effectively today and in the future.

MINIMIZE FRICTION BETWEEN BUSINESS AND IT THROUGH FLEXIBLE SOLUTIONS AND RAPID TIME TO DEPLOYMENT.

ProtoSOA supports the way business and IT professionals need to work together in a service-oriented and event-driven world. With ProtoSOA, altering the underlying applications, processes and services is a matter of configuration, not programming. A business expert can use ProtoSOA's Logic Manager to make changes to business information in real-time, helping your organization accelerate the process for deploying new products and services to the marketplace.

CREATE AND MODIFY SERVICES INCREMENTALLY, REDUCING DEVELOPMENT TIME AND RISKS.

ProtoSOA's design enables you to retain your investment in legacy systems, helping you gradually and methodically modernize operations one project at a time. Services can be based on existing systems, operational data stores, mainframe applications or even more modern applications. With ProtoSOA, you can mix-and-match solutions within your SOA environment. For instance, ProtoSOA makes it possible to wrap a legacy system API with objects and services which are configurable by the end user and accessible through a standard Web Service protocol. ProtoSOA helps you move your organization in the right direction, without to the need to rewrite entire legacy applications.



ProtoSOA Adoption Success Roadmap

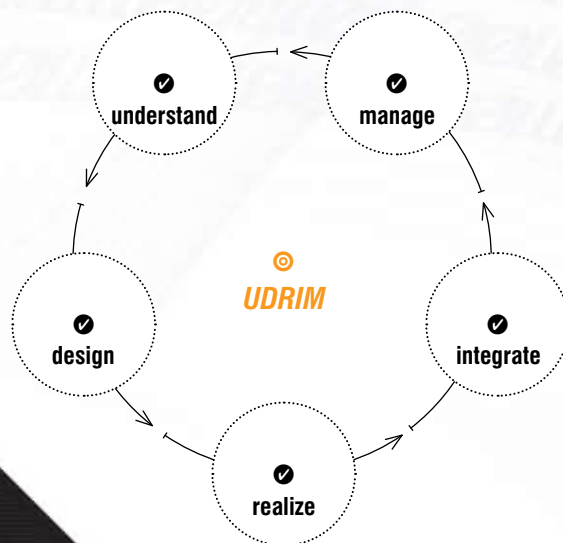
Like any SOA initiative, the success of ProtoSOA depends on how well it is adopted by the organization. The ProtoSOA framework is typically built and implemented based on the unique needs of each ComFrame client. While ProtoSOA can be purchased as a standalone framework, ComFrame highly recommends consultation services to ensure correct application and full interoperability realization.

UDRIM™ is ComFrame's proprietary process for ensuring successful adoption and long-term benefits for both business and IT users.

The UDRIM methodology is designed to help all ProtoSOA stakeholders:

- ✓ Understand business objectives
- ✓ Design and create business scenarios that meet objectives
- ✓ Realize a services approach to business agility and transformation
- ✓ Institute programs for making sure integrations are successful and continually managed

Applying the UDRIM methodology to your ProtoSOA implementation will give you ongoing insights into how well ProtoSOA capabilities and results are meeting your expectations for business value and IT excellence.



ProtoSOA Advantages

ProtoSOA addresses the shortcomings of other SOA approaches, helping companies finally narrow the gap between business and IT. Using ProtoSOA, organizations can:

- ✓ Accelerate construction of new applications and services
- ✓ Reuse services across the enterprise, drastically reducing development time and costs
- ✓ Dynamically run and modify applications using configurable metadata assets
- ✓ Integrate disparate applications and information with minimal effort and expense
- ✓ Effectively mix-and-match solutions within an SOA environment
- ✓ Wrap legacy system APIs with business domain objects and services that are configurable by the end user and accessible through a standard Web Service protocol
- ✓ Empower business experts to make real-time process changes with less reliance on IT
- ✓ Become modernized while sustaining investments in existing legacy platforms
- ✓ Realize a real-time, global view of the enterprise
- ✓ Continually expand the enterprise using a single SOA framework

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