

For SOA-based Enterprise Integration



*Accelerating Business Services, Enabling Informed
Decisions, Aligning Enterprise IT Investments*

SOA-based Enterprise Integration

Over the years, organizations continue to add best-in-class point solutions to –

- Support their day-to-day business,
- Achieve strategic competitive leverage and
- Pursue excellence goals.

Many of these time-proven applications become indispensable. But in the long-run, legacy applications are unable to communicate seamlessly with newer applications leading to data silos. Substantial efforts also need to be expended to adopt evolving business processes. This hinders organizational agility and responsiveness.

Replacing these applications de novo is not practical and point-to-point connections are brittle. Therefore to protect investments, businesses typically add an integration layer on top of their applications. An Enterprise Integration layer built on open standards like Service Oriented Architecture (SOA) can provide powerful flexibility. Web Services orchestrated over a robust Enterprise Service Bus (ESB) provide real-time transactions and data availability. This in turn lays the plinth for a cloud platform – to support latest generation applications as well as ubiquitous computing devices, across the extended organizational value chain.

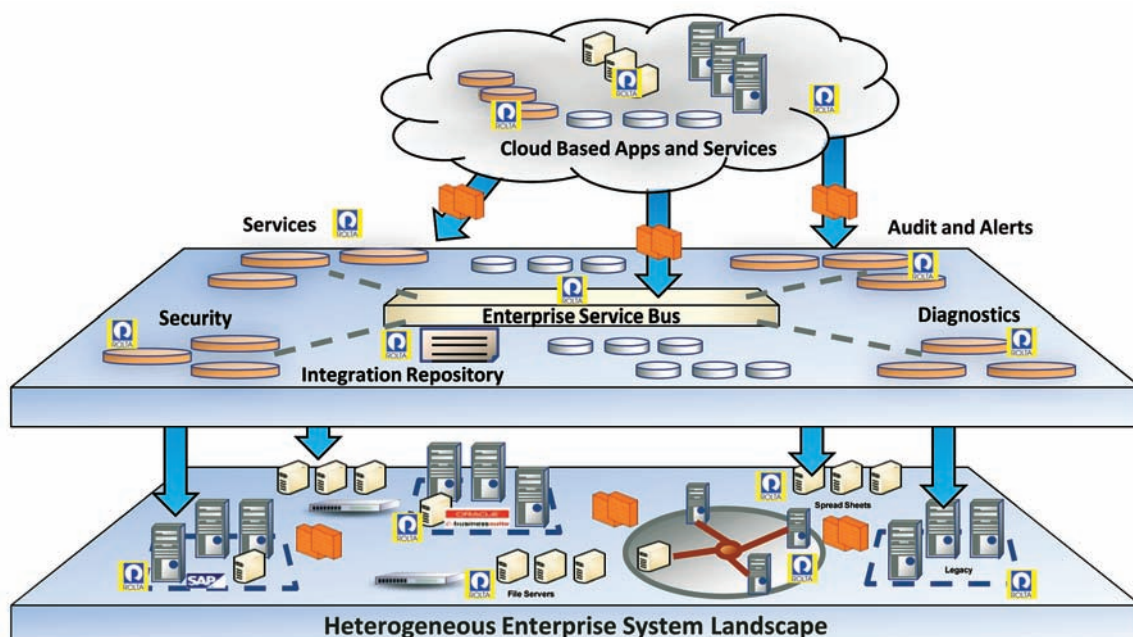
The recent decade has seen SOA promised as elixir-of-life for enterprise architectures. However real-life experience indicates – SOA is tedious to implement, despite availability of excellent products from umpteen vendors. Attributable factors include – business flux, numerous stakeholders

In the last ten years, managers have seen dramatic changes on what they focus on in building their businesses. They are in a constant search for business agility to meet the ever increasing demands arising from customers, investors and competition.

across multi-disciplinary teams, ever-changing requirements and limited ROI visibility to sponsors. Thus, even SOA implementation per-se requires nimble agile project approaches.

Path-breaking Rolta iPerspective™ Enterprise Suite provides this flexibility and helps organizations achieve rapid ROI through agile SOA. Our vendor and technology neutral approach ensures 100% compatibility with popular technology stacks, diverse databases, seemingly incompatible programming environments and even 3rd party SOA suites. The powerful zero-code environment permits business users to dynamically add / modify business processes across heterogeneous IT systems, while underlying toolkits automatically handle technical intricacies.

SOA-Based Enterprise Integration and Cloud-Enablement



Cloud computing is about to explode! Mainstream adoption is expected within 2–5 years.

Rolta iPerspective™ Enterprise Suite



Rolta iPerspective™ Enterprise Suite features a comprehensive, robust, secure, flexible and scalable technology-agnostic Enterprise Integration Framework, with powerful underlying toolkits and specialized add-on extensions. Innovative out-of-box industry standards-based components include –

iPerspective Foundation

- Supports SOAP & RESTful architectural integrations
- Unique Point-n-Click / Drag-n-Drop 4GL Zero-Coding Integrated Development & Testing Environment for Business Extensions.
- Powerful Dynamic Introspectors & Dynamic Templates boost in-built learning and knowledge assimilation capabilities.
- Enterprise Security & Business Audits are closely interwoven in every aspect of the entire suite.

Runtime Platform

- Serves as the underlying integration fabric
- Customers can choose to deploy –
 - SOA Suite they may have already invested in, or
 - Selective components from different suites, or
 - In-built platform to maximize cost-savings
- Apps Server with Single Sign-on, Lightweight Security Directory, comprehensive Metadata Management & powerful Governance Repositories are in-built.
- Includes comprehensive SOA functionalities -
 - Enterprise Service Bus (ESB) for robust Transaction Management
 - BPEL Engine for seamless Process Orchestration

Service Builders

- Features pre-built adaptors to popular Enterprise Apps including major ERPs, Databases, 3rd party middleware components, File / Data formats, Google gadgets / Android Apps, etc.
- Mobile / Cloud Computing Accelerators
- Coupled with Foundation Suite & Runtime Platform, Service Builders allow customers to dynamically extend connector-frameworks to other applications.

Enterprise Management

- Uses revolutionary Rolta Intelligent Grid™ technology.
- Feature-rich Diagnostics Engines and Process Management capabilities are included.
- Robust Scheduling & Automation ensures enterprise-wide synchronization.

This versatile suite embodies years of rich experience accumulated across a wide spectrum of integration projects across the globe, including – Enterprise Application Integration (EAI), Enterprise Information Integration (EII), Middleware, Real-time Messaging, BI-DW, MDM, etc.

The innovative platform-enablers, accelerators and toolkits in the Rolta iPerspective™ Enterprise Suite reflect painstaking, invaluable lessons learnt and best-practices libraries assimilated by our experienced consultants in small-to-ultra-large engagements spanning technologies from leading commercial & open source Process, Application and Data Integration vendors. Thus, depending upon requirements, this suite can be deployed as a standalone end-to-end Enterprise Framework or can bridge critical gaps in any existing integration suites, providing accelerated implementation & ROI.

SOA implementation should be perceived as utmost priority by business owners, because IT infrastructure plays important role in successful business delivery.



Rolta iPerspective™ Offerings

Rapid Integration Platform

Rolta iPerspective™ follows a simple iterative agile mantra – Introspect, Design and Deploy.

- It introspects sources exposing underlying data / application structures (e.g. tables, views, packages, procedures, functions, spatial or hierarchical or mainframe formats, etc)
- Provides users with specialized point-n-drag solution modeling and design toolkits.
- Services are automatically generated and deployed to specified targets in minutes.
- Best use of software engineer's time is made to design systems and not worry about data structures, memory allocation, etc.
- Eliminates need to learn multiple programming languages / database technologies – C/C++, Java, .Net, CICS, PHP, Perl, Ruby, T-SQL, PL/SQL, etc

Architect services, without Technology Expertise

Rolta iPerspective™ brings you out of the box template-driven service builders which integrate major database systems, application software and the cloud services. This means your enterprise integration teams can function with clock-precision of robotized assembly lines. These extensible Service Builders are a smart approach to process integration across disparate systems present in any enterprise.

Easy Maintenance & Extensibility

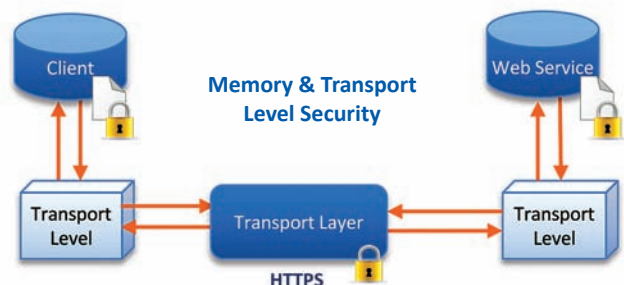
Services developed using Rolta iPerspective™ are based on pretested templates. The generated code is optimized, high performing and reusable. There is no room for errors due to manual interventions. Scope creep is avoided through end-user involvement and changing configurations using GUI-based component dashboards.



Business Security Management

Powerful in-built 360° Security includes–

- Federated Authentication & Authorization across diverse technology applications, directories, databases, etc.
- Fine Grained Access Control for filtering at row & column level, time-based filtering, geo-fencing for spatial data etc.
- Confidentiality and Integrity of payloads through Message-level Security (via Username Encrypted Password Token, .x509 based Token, SAML) supporting open standards, e.g., WS-Security
- Transport-level Security via latest Secure Sockets Layer (SSL) standards to securely handle data transformation, exchange across networking elements.
- Identity and Access Management via latest Single Sign-On (SSO) mechanisms
- Integrated event-driven alerts and warnings
- GUI-based multi-level Enterprise Audit Framework, which besides Security provides a unique mechanism for assessing, mapping, and improving business processes and applications
- Secure Meta-Data Management



Enterprise Management & Diagnostics

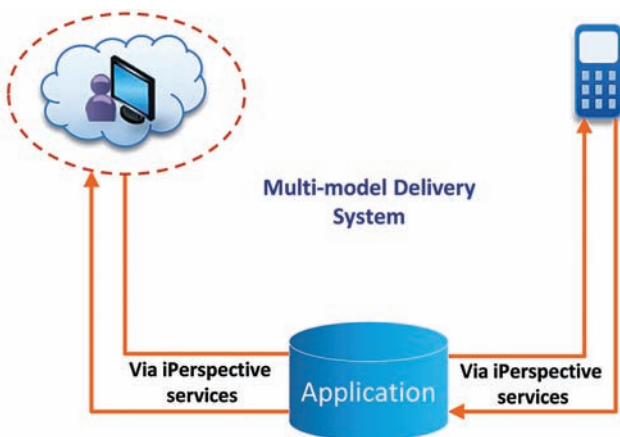
Rolta iPerspective™ can check the health of each and every system integrated within the network using self-generated services. Remote service requests can be issued to centrally manage systems.

43% Senior IT executives across geographies, perceive security threats as the most critical issue in implementing SOA. 57% admit to slowing or deferring adoption.

Rolta iPerspective™ Offerings

Mobile / Cloud Enablement

Rolta iPerspective™ Enterprise Suite features out-of-the-box template driven service builders, to integrate major database systems, application software and SaaS based applications using state-of-the-art automation techniques. iPerspective™ can either web service-enable legacy systems or enhance existing services with additional features such as 360° security, service level auditing, service abstraction to support platform independence, service transformation etc. Rolta iPerspective™ Enterprise Suite also features out-of-the-box templates to leading mobile development frameworks and platforms. Our customers put these capabilities to innovative use – including University Information Systems, Crime Information Systems, Online B2B & B2C, etc.



iPerspective™ enables you to mature your private or hybrid cloud strategy to generate better market penetration thus increasing the Return On Investment.

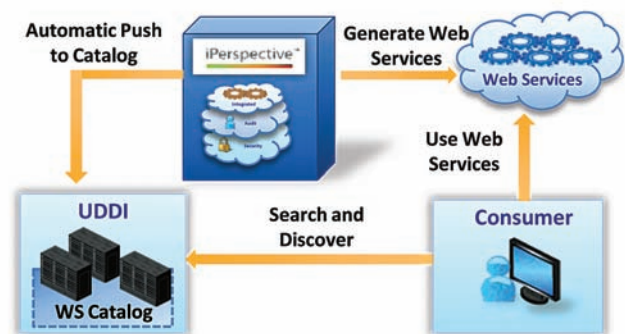
Enterprise Scheduler

Like a true-enterprise management software, this powerful web-based toolkit helps you automate jobs across heterogeneous systems including Service Oriented Architecture (SOA) based applications. These jobs can include – web services, database scripts, shell scripts, etc. These can be flexibly configured to run locally or remotely, instantly or at designated time frames.

Integration Repository

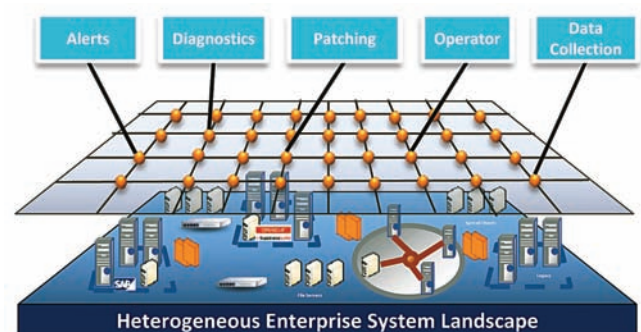
Rolta iPerspective™ can also work with any integration repository, e.g., Juddi allowing customers to leverage any

existing investments. Using iPerspective™, web services located within and across multiple clouds can be consumed at ease. It also provides feature-rich Change Management and Release Management capabilities allowing web services to be grouped, promoted or demoted at will by authorized users. SOA Governance capabilities are the hallmark of the Rolta iPerspective™ Enterprise Suite, allowing customers to progress rapidly on the SOA-Maturity Model.



iPerspective™ Intelligent Grid

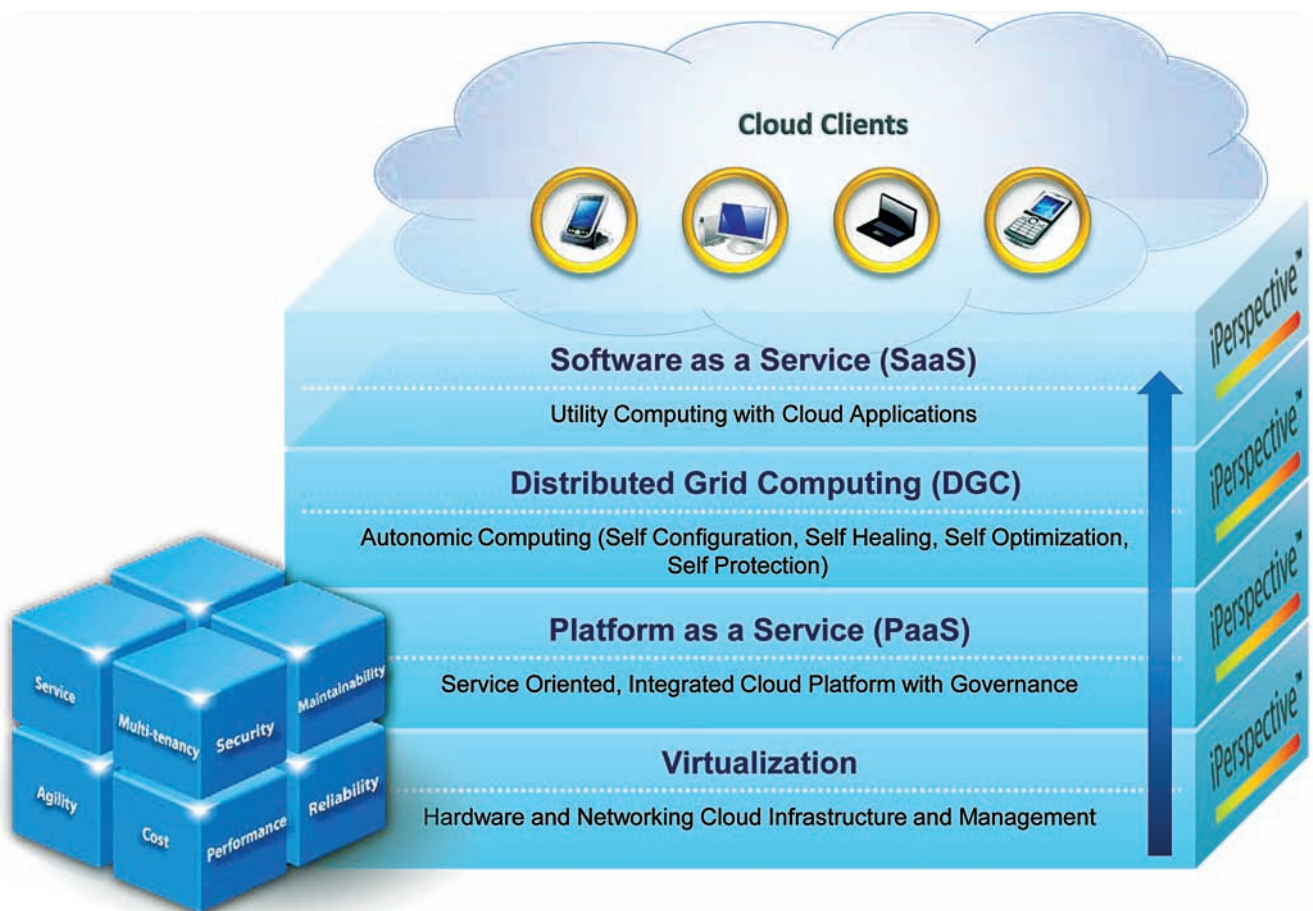
This revolutionary technology allows secure, authorized push-or-pull transactions across firewalls without disturbing prevalent security policies or exposing data externally. Enterprise Grid agents monitor source / target system's health and optimize network traffic, via single compressed payloads. The intelligent grid offers a scalable, distributed architecture for processing jobs. It brings automation and centralized control to execute business workloads and processes. It also helps support key IT and business priorities, including efficient operations, service-level provisioning, cost savings, application integration, and communicating status to users.



Enterprise mobility is driven by need for seamless access to information anytime, anywhere and from any device.

Rolta iPerspective™ Industry Solutions

Rolta iPerspective™ Enterprise Suite has been used by customers across numerous verticals for solving amazing business problems. Rolta's Global Collaborative Product Development Teams and Centers of Excellence (CoEs) continue developing this innovative framework based on feedback from customers across the world and ensure incorporation of leading-edge technologies.

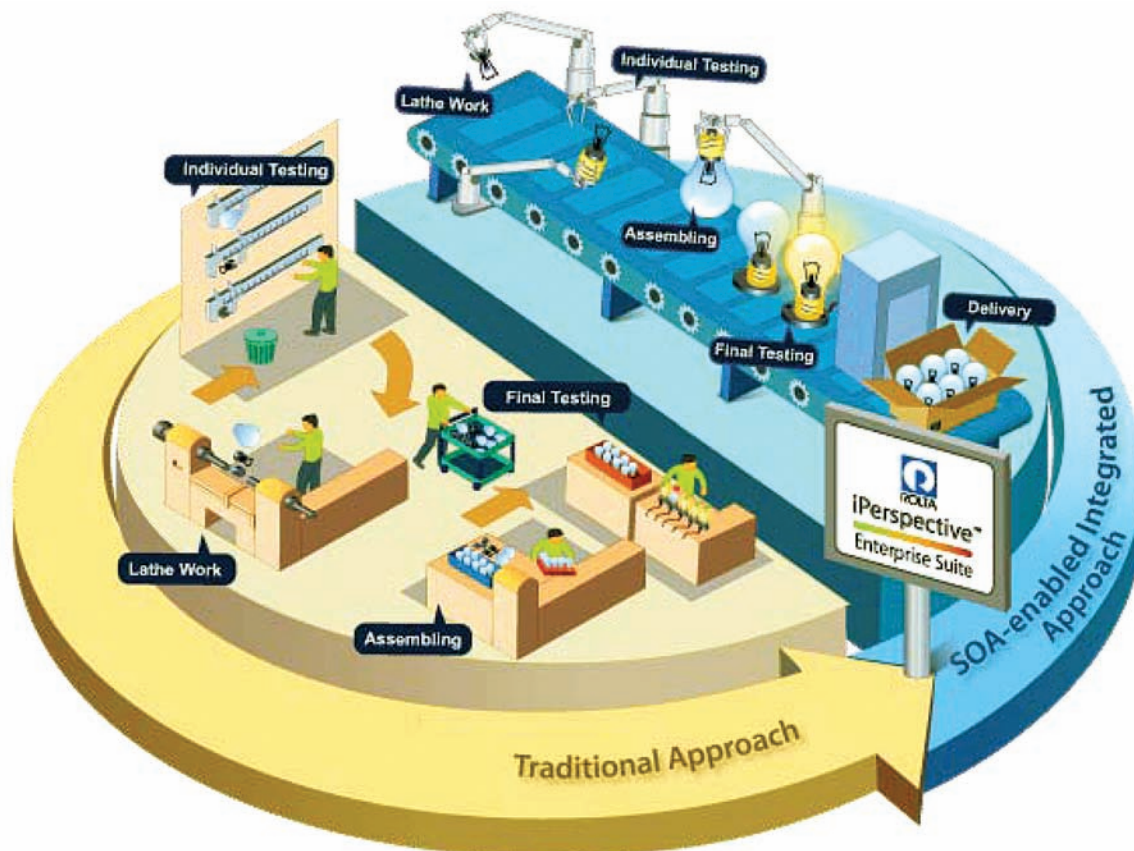


Cloud Enablement

Rolta iPerspective™ Enterprise Suite features powerful accelerators to boost organizations' move to Private, Public or Hybrid Cloud Computing. By protecting existing IT investments, Rolta iPerspective™ reduces Total Cost of Ownership (TCO). Accelerated deployments provide Rapid Return on Investments (ROI). Inbuilt levers like Dynamic Introspection and Dynamic Templates with Run-time Abstraction provide technology and vendor agnostic Virtualization. Zero-coding Web Services enablement fuels Service Orientation, while features like Repository-integration strengthen SOA Governance. In-built powerful Intelligent Grid™ technology boosts diagnostics and reliability in distributed high-availability environments. Versatile Business Process Management (BPM) and Enterprise Service Bus (ESB) enables secure cross-functional workflows and transactions. Configurable Enterprise features allow deployment of pay-as-you-go utility model, with service-level accounting and business audits.

Cloud Computing – Amongst Top 10 Strategic Technologies for 2011

Enterprise Integration Transformation



Bridging the Worlds

Rolta iPerspective™ Enterprise Suite bridges gaps between legacy and next generation applications fostering an environment of change and growth. Seamless process and data integration across the enterprise helps organizations leverage on time-proven wisdom, while moving towards latest technology advances and benefits. This protects existing investments and builds a robust platform for the future. Automated and optimally coupled Business Processes ensure significantly enhanced productivity. Tightly coupled Security enforces Accountability and Compliance. Information Technology is seen at its best powering Business Agility and Responsiveness.

It is not necessary to change. Survival is not mandatory. – W. Edwards Deming

About Rolta

Rolta is a leading provider of innovative IT solutions for many vertical segments, including Utilities, Governments, Transportation, Process, Power, Banking and Insurance. These enterprise level solutions are built around Rolta's intellectual property and domain expertise to offer unique business intelligence for impactful insights for effective decision making. Rolta's solutions framework includes Geospatial Fusion™, a suite to integrate disparate spatial and business data; Rolta OneView™, a BI solution for operational excellence; and Rolta iPerspective™, a unique platform for SOA and "Cloud" enablement. Rolta's intellectual property repository contains cutting-edge software for mapping and earth sciences, providing the foundation for Defense and Homeland Security solutions including C4ISTAR information systems, Military Communications, Digital Soldier, and Vehicle Systems. Rolta is a multinational organization headquartered in India, which has executed projects in over 40 countries. Rolta has a countrywide infrastructure and international subsidiaries across the globe. Forbes Global ranked Rolta amongst the "Best 200 under a Billion" four times in six years. The Company is listed on the Bombay Stock Exchange and National Stock Exchange in cash and F&O segment, and forms part of various indices on BSE/NSE. The Company's GDRs are listed on the Main Board of London Stock Exchange and its FCCBs are listed on the Singapore Stock Exchange.

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