



# Interoperability Solutions

## MOVE TOWARDS INTEROPERABILITY AND GREATER COLLABORATION – SOA MAKES IT POSSIBLE

Providing public services often involves a multitude of departments using highly-specialized applications. Service-Oriented Architecture (SOA) lays the foundation for implementing automated processes and information sharing, not only through organizational domains but also through agency boundaries. With a solution from Software AG based on the Business Infrastructure Software Suite, your agency can start internal and external collaboration fast – using existing IT assets.

### New requirements for new times

The more technologically-advanced governments are changing their focus from the basic provision of services to the offering of optimized and more efficient public services.

To achieve this, agencies re-engineer their business on an individual basis by implementing smarter, quicker processes enabled by ICT and by leveraging the use of internal data and information.

On a higher level, the increasing internationalization of the world and common topics on national political agendas – like border control and tax evasion – require the cooperation and collaboration among agencies and among governments and the private sector.

Initiatives like the FEA in the United States and the European Interoperability Framework in the European Union aim at leveraging technology to facilitate information sharing, reduce redundancy, enable integration and support citizen-centric e-Government.

### The hurdles of interoperability and information sharing

In a technical sense, interoperability means the ability of IT systems and applications and of the business processes they support to exchange data and to enable the sharing of information and knowledge. From an organizational point of view, interoperability is concerned with modeling business processes and bringing about the collaboration of administrations that wish to exchange information.

With most government departments still operating in silos, core processes and systems act as a barrier to effective automation and integration. Siloed data and information is often stored in different formats and scattered

*“Service-oriented architecture (SOA) is the hottest three-letter acronym in government IT circles. Forrester’s survey data shows that government agencies’ adoption of SOA is strong and getting stronger. Why? SOA directly addresses government agencies’ most pressing goals: integration of program functionality and information across organizational boundaries in a heterogeneous technology environment. And using the approach of wrapping legacy systems in SOA environments means agencies can transform their processes without funding huge, risky rip-and-replace projects for legacy applications.*

- “Why is SOA hot in Government”, Forrester Research, Inc. December 12, 2006

across many systems within the agency, making the creation of unified access a next-to-impossible task. All this results in limited levels of service and hinders both the internal collaboration and the cooperation with external entities.

### Start collaboration today

Your agency's long range strategy foresees sharing information and processes, both internally and externally. But how can you reuse core systems and siloed data to collaborate internally and externally? And how do you make the most out of existing IT assets and available data with the limited public budget at your disposal?

The answer is SOA. With SOA you can extract existing functionality and data to be reused in streamlined business processes. And open standards vouch for the interoperability with external systems. Software AG makes it possible for your agency to rise to the collaboration challenge - faster.

Any government agency needing to synchronize and share data (both internally and externally) and to streamline and integrate processes can highly benefit from an interoperability solution built with Software AG's Business Infrastructure Software Suite. A customized solution from Software AG, deployed with minimal IT impact, allows your agency to:

- Work seamlessly across systems, departments, agencies and borders
- Automate business processes through organizational and physical boundaries
- Integrate data in several formats and languages
- Automatically synchronize internal data from disparate sources without human interaction
- Integrate information across applications, departments and agencies with strong security and authenticated access features

Let us help you comply with new collaboration requirements without having to invest in new infrastructure.

## AT THE CORE OF SOFTWARE AG'S INTEROPERABILITY SOLUTIONS

Do you have core systems that were never designed to work with each other? Business processes with many interfaces and manual steps? Incompatible data? With help from SOA and Software AG, your agency can overcome these challenges and use available data, systems and tools to govern smarter, collaborate across organizational boundaries and deliver state-of-the-art public services.

**Application Modernization** – Extract data and functionality from core systems and integrate them in automated processes – all without touching source code. Core application transactions (user session, program logic) are made available as modular services for re-use in business processes through an SOA.

**Information Integration** - Centralize the management of your agency's master data and expose consolidated master data via Web services to be reused by internal applications and shared with external entities.

**Enterprise Service Bus** - A truly service-oriented Enterprise Service Bus allows you to easily integrate systems and information as your organization and data volumes grow. And thanks to open standards, like BPEL and XML, you can integrate Web services from external agencies and extend collaboration beyond your organization.

**Business Process Management** - Align people, data, processes and existing and new IT systems with your business strategy to coordinate and optimize all processes across your government organization, which will allow your agency to deliver better service to citizens.

**SOA Governance** - Manage and govern your SOA environment from the start to ensure manageability, transparency and full control of your SOA initiative. SOA Governance allows you to catalog descriptions and dependencies to enable maximum re-use of Web services within and across organizations.

Take the next step to get there - faster.

To find the Software AG office nearest you, please visit [www.SoftwareAG.com](http://www.SoftwareAG.com)

### ABOUT SOFTWARE AG

Software AG is the world's largest independent provider of Business Infrastructure Software. Our 4,000 global customers achieve business results faster by modernizing, automating and improving their IT systems and processes to rapidly build measurable business value and meet changing business demands. Using our solutions, organizations are able to liberate and govern their data, systems, applications, processes and services – achieving new levels of business automation and transparency.

Our industry-leading product portfolio includes best-in-class solutions for managing data, developing and modernizing applications, enabling service oriented architecture, and improving business processes. By combining this proven technology with industry expertise and best practices, our customers improve and differentiate their businesses – faster.

Software AG – Get There Faster.

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