



TURKSTAT IMPROVES DATA ACCESS AND DEVELOPS SERVICES THREE TIMES FASTER

Challenge

TURKSTAT is responsible for Turkey's official statistics on everything from business and economy to crime and labor. As part of its corporate e-transformation, the institute aimed to provide fast, easy and secure access to statistics needed by different interest groups. Manual methods of sharing this information were insufficient. TURKSTAT needed to provide data to outside groups categorically, according to user needs, and in a dynamic and sustainable way.

Solution

TURKSTAT implemented the webMethods Enterprise Service Bus (ESB) because it composes fast, efficient and reliable Service-Oriented Architecture (SOA) layers, and it produces and consumes Web services in a few steps. FTP, file and calendar functions can be developed with simple interfaces. With a new service-oriented data exchange platform, TURKSTAT can now securely and easily share data and develop data consuming/sharing Web services.

Benefits

- Safer, faster access to information—internally and externally—on a single platform
- Establishment of a portfolio of re-usable and traceable services
- Average service development time reduced from three days to one
- Average time and cost savings up to 60 percent per service
- Access to information is now dynamic—not static
- Administration of the services is faster—without coding



The Turkish Statistical Institute—TURKSTAT—was established to respond emerging information needs, improve administrative records and produce statistics consistent with international standards. The organization is responsible for official statistics production and coordinating official statistics produced by other agencies. Through 26 regional offices, TURKSTAT collects information from the individuals, households, public institutions and organizations, compiles this information using scientific methods and makes it available to public.

Get There Faster.™



“We selected the webMethods Enterprise Service Bus due to the product’s internationally proven technology, ease of use and extensive support. Practicality of application development is ensuring significant labor and time savings. Now, we can provide accurate, consistent, re-usable and traceable statistical data thanks to Software AG’s SOA tools.”

Ramazan Çelikkaya | Head of Information and Communication Technologies | TURKSTAT

Gathering statistics—now more players are in the game

Since 1926, TURKSTAT has endeavored to develop a modern statistical structure for Turkey. The institute’s main objective is to produce data comparable with international standards, to increase confidence in official statistics and to spread the use of official statistics. As such, TURKSTAT plays an important role in the country’s decision-making process.

Rapidly changing social knowledge, new policy requests and new technology, however, have put new demands on trusted providers of official statistics like TURKSTAT. As Ramazan Çelikkaya, Head of Information and Communication Technologies, said: “Institutions that produce official statistics are bound to be responsive more than ever.”

In the past, gathering, evaluating and presenting statistical data was TURKSTAT’s core business. The institute was the only producer of official statistics based on public and administrative data. Because digitized data makes it easier to gather statistics, other organizations now also produce them. As a result, TURKSTAT has become the “connector” between these national and international organizations. In fact, one of TURKSTAT’s most important jobs today is coordinating the production of official statistics at national level while keeping up with related international developments.

Needed: fast and secure data exchange

As more organizations needed to share data, TURKSTAT found using manual methods or writing code was inadequate. The institute urgently needed a high-speed data exchange platform. Additionally, security was a key concern. TURKSTAT has always been a trusted institution. Decision-makers are confident in statistical information published by TURKSTAT, and providers of data are certain that their privacy is well-protected. That level of trust could not change.

Moreover, stable security measures were needed to assure data objectivity and integrity. As accurate decision-making depends on timely and secure access to statistics, access to it must comply with defined security policies and be deployed with special mechanisms.

Given these requirements, TURKSTAT needed to provide easy, timely and secure access to statistics needed by various interest groups. It was crucial for TURKSTAT to provide data to these outside interest groups categorically, according to user needs, and in a dynamic and sustainable way.

webMethods proves the right choice

“As a result of thorough research and workshops, we selected webMethods Enterprise Service Bus due to the product’s internationally proven technology,” Çelikkaya said. “The product’s ability to produce and consume Web services in a few steps, to create fast, efficient and reliable SOA layers and its simple interfaces were main factors in our choice.” TURKSTAT also deployed Secure-Span Gateway from Software AG, an XML appliance that provides advanced security and accelerates securing Web service communication at the edge of the network.

Software AG’s expertise in SOA proved a real advantage. “Working with experienced companies and master consultants was the right decision for us to quickly solve the problems that may have arisen throughout the project,” Çelikkaya said.

Using mediation tools, TURKSTAT can provide accurate, consistent, up-to-date and traceable statistical data. Services produced in this context were designed as Web services, and interest groups with any platform can use them.

The process—from statistical data configuration to comparison with similar data on hand and from cross-checking to communicating to those who will make conclusions based on these statistics—has been handled for a sample set. In this context, TURKSTAT has studied process analysis and modeling, defining the roles and players in the process, and operating the modeled process.

As from the beginning of the project, priority services have been identified. Analysis, design and development stages of these services have been executed. Bi-directional services enable TURKSTAT to both receive and send data to external institutions and agencies.

In all, TURKSTAT has established a secure service-based data-exchange platform. The institute has developed approximately 60 data consuming/sharing Web services that serve different needs as part of its Address-Based Population Registration System, National Address Database System and Education Registration System.

Developing three times faster

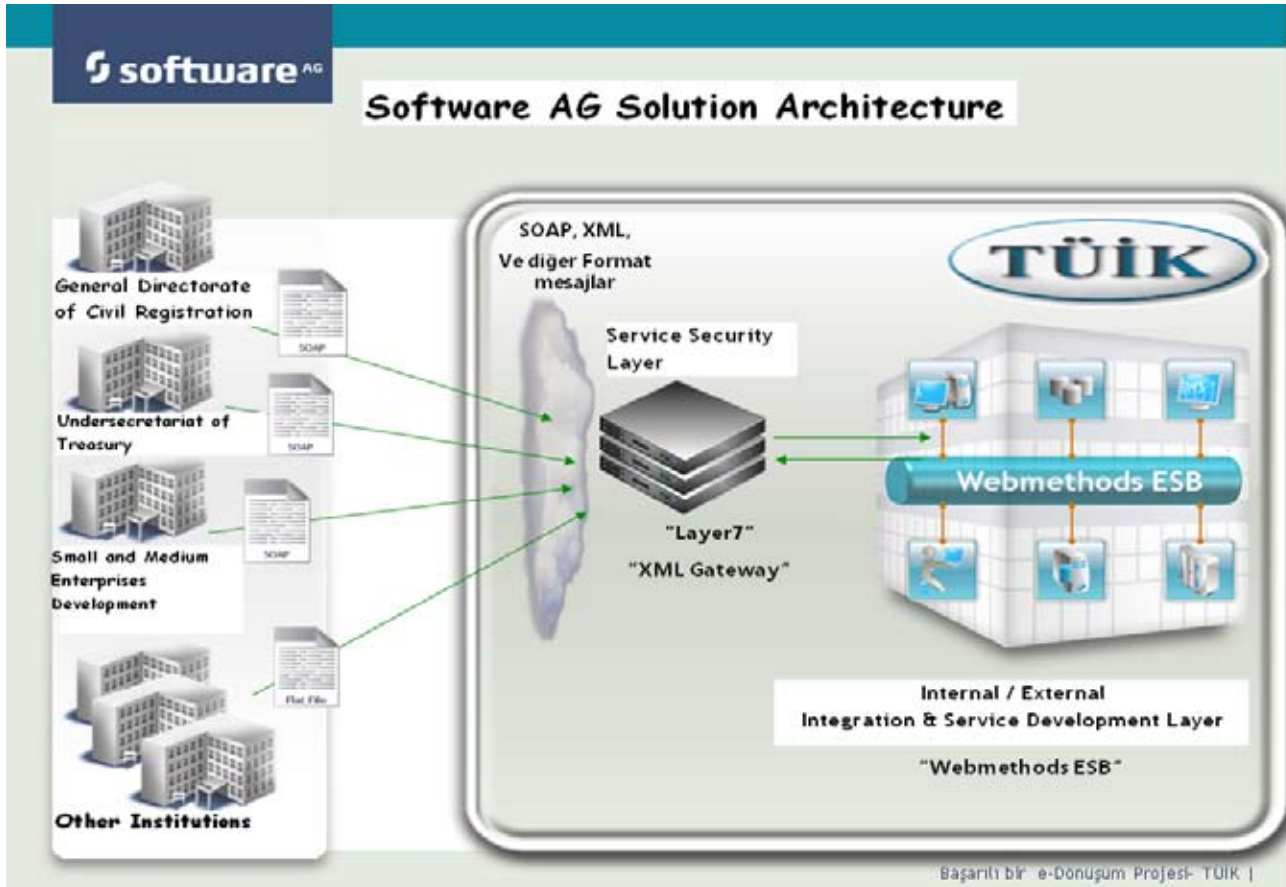
As a result of this project, TURKSTAT now has an interoperable, re-usable, traceable, solid and flexible communication environment. Before information was presented in a static structure. Now institutions have safer and faster access to it via Web services.

With simple and efficient production and consumption of Web services, business processes are faster, and productivity has increased. Average service development and testing time is now one day, instead of three. TURKSTAT has experienced, on average, a 60 percent savings in time and cost savings, thanks to more practical application development.

KEY COMPONENTS

The **webMethods ESB** integrates internal and inter-institutional systems and services.

SecureSpan Gateway manages security mechanisms of services produced and consumed by TURKSTAT.



Take the next step to get there – faster.

ABOUT SOFTWARE AG

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Our forty-year history of success ensures our customers have a reliable platform for driving future business results – faster.

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