

Iowa Division of Criminal and Juvenile Justice Planning



Type: System Integrator/Oracle
Technology Specialist
Founded: 1982
Locations: West Des Moines, IA;
Minneapolis, MN;
Portland, OR
Public/Private: Privately held
Geography: North America
URL: www.zirous.com

Zirous is a privately held company specializing in Oracle sales, development, implementation and integration. Zirous has extensive experience with private companies and public organizations throughout the country.

Technology

Stack:
Oracle Database 10g,
BPEL Process Manager,
BPEL Process Designer,
Oracle Enterprise Linux 4

Integration components:
BPEL Process Manager

Endpoints:
.NET and Java Web Service
IBM DataPower
iWay

BPEL PM Deployment:
2x 2-CPU Oracle Enterprise Linux 4 (HA setup)

Partner Solution for Iowa Division of Criminal and Juvenile Justice Planning

The Criminal Justice Information System (CJIS) initiative, sponsored by the Governor and the Chief Justice, is being administered by Criminal and Juvenile Justice Planning (CJJP), a division within the Iowa Department of Human Rights. The CJIS initiative is intended to standardize and implement an electronic exchange process for approximately 600 documented exchanges that move among various departments and agencies within the criminal justice community in the State of Iowa.

A plan commissioned by the CJIS Advisory Committee noted that data and document exchanges between numerous departments and agencies took various forms and was not as effective as it could be. After the plan was finished, the CJIS Advisory Committee concluded that a scalable, standards-based Enterprise Service Bus solution (ESB) would be the most effective option for an electronic exchange of data and documents. After an intensive RFP process, the CJIS Advisory Committee chose Zirous's proposed ESB implementation using Oracle's SOA Suite.

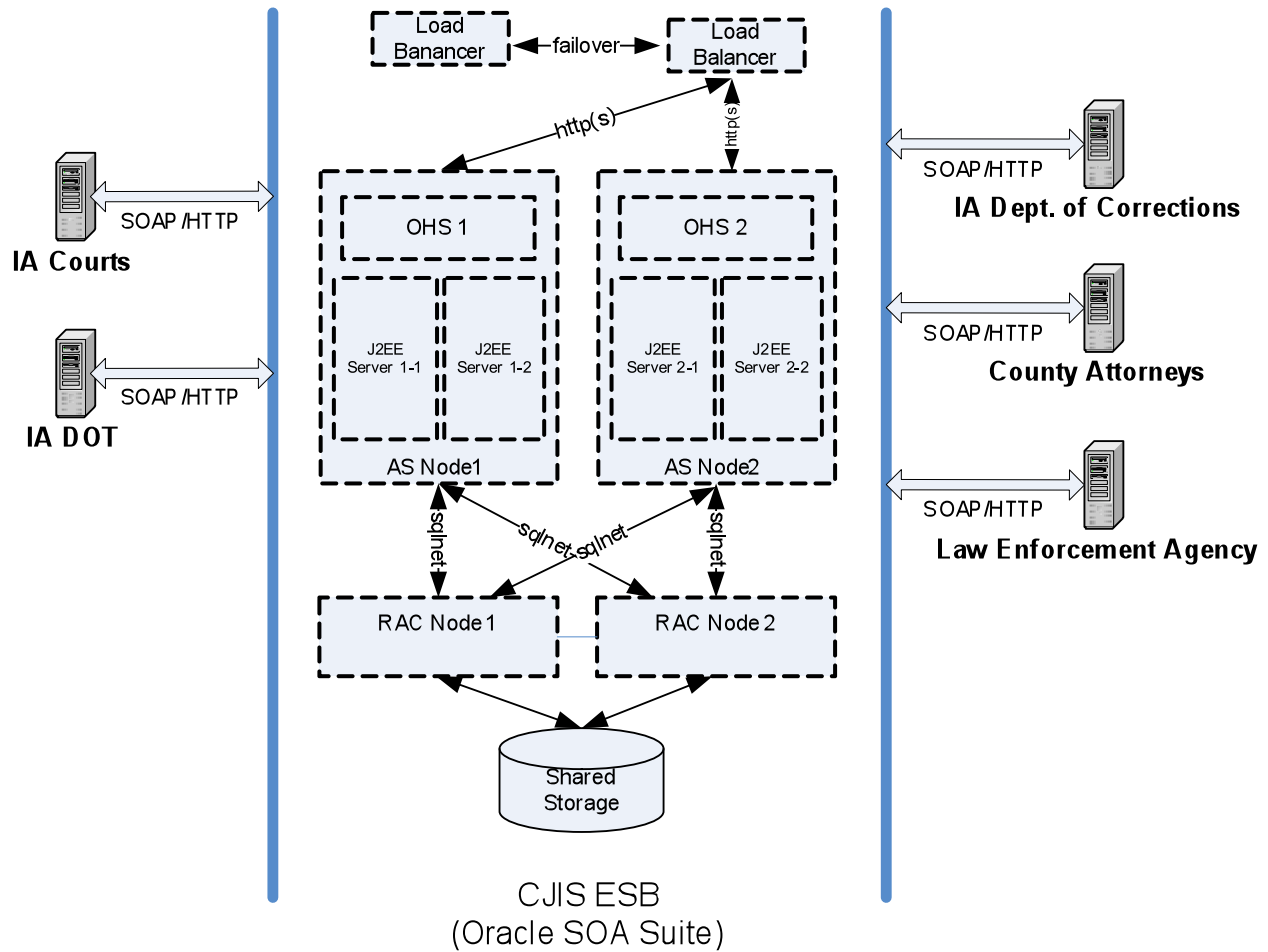
Solution Details:

Zirous proposed architecture included two Oracle BPEL Process Managers deployed in a two-node HA installation supported by a two-node RAC database. The architecture also included a set of active-passive Cisco load balancers fronting the ESB.

As specified by the CJIS Advisory Committee, document exchanges (services) were standardized using GJXDM (Global Justice Xml Data Model) and endpoints were standardized using Web Services supporting SOAP over HTTP. As with any ESB, the services were expected to perform schema and business validation, data transformation, notification, routing (static/dynamic) and both automatic and human intervened fault handling. Zirous accomplished this by implementing Oracle SOA Suite and used only the Suite's out-of-the-box functionalities, a testament to the software's capabilities.

The initial exchanges (services) involved document and data exchange among CJJP, Iowa Department of Transportation, Iowa Department of Public Safety, Judicial Branch, County Attorneys, Iowa Department of Corrections and state and local law enforcement agencies.

CJIS ESB Implementation using Oracle SOA Suite



"The CJIS project gave Zirous's staff a chance to demonstrate their knowledge of Service Oriented Architecture, as well as an opportunity to display the capabilities of Oracle's SOA products."

Mike McDermott
Chief Executive Office
Zirous