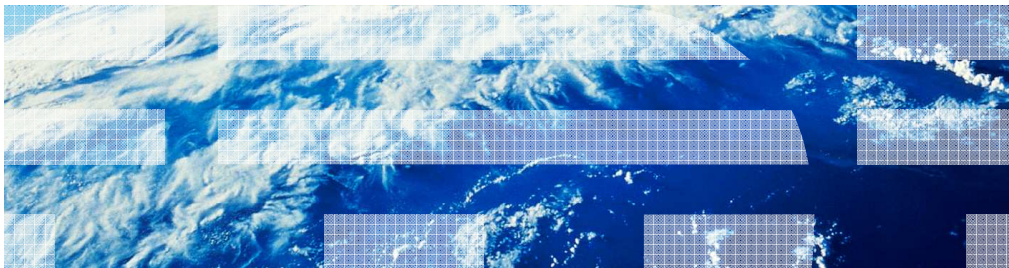# IBM WebSphere Application Server V8.0.0.2

Performance improvement for the Service Data Object (SDO) repository

This presentation describes a performance improvement to the Service Data Object (SDO) repository in IBM WebSphere Application Server version 8.0.0.2.

IBM

Overview

Performance improvement for the Service Data Object (SDO) repository

Performance of the SDO repository is improved in version 8.0.0.2 by fetching only the field that was requested, rather than fetching the entire object.

ejbSelect methods provide better performance than finder methods

- Finder methods fetch the entire object, even if you are interested in only one field (column in the database table). These methods are exposed to client applications.

- ejbSelect methods fetch one field (column in the database table). In previous releases, these methods were not exposed to clients; they could only be used within the bean.

- Replacing the finder methods with the ejbSelect methods and exposing them to client applications improves the performance of the SDO repository by several factors.

Performance improvement for the Service Data Object (SDO) repository

When a client application wants to query the Web Service Definition Language (WSDL) names from the Service Data Object (SDO) repository, it requests the SDO application, which is installed on the application server. The SDO application has an entity bean which fetches the data from the database and returns it to the client application.

In previous versions, the entity bean used a finder method, which fetches the entire object. Then the entity bean parsed the object to get the field requested by the client application.

In version 8.0.0.2, the entity bean uses an ejbSelect method to fetch just the field requested by client application, rather than fetching the entire object. This change significantly improves the performance of SDO repository when querying the WSDL names.

In addition, the ejbSelect methods are now exposed to client applications.

Usage scenarios

Performance improvement for the Service Data Object (SDO) repository

The next slide provides some background information about the SDO repository.

Service Data Object repository usage scenarios

- Service Data Objects (SDO) is an open standard for enabling applications to handle data from different data sources in a uniform way, as data graphs
- Service integration bus-enabled web services use an SDO repository for storing and serving Web Service Definition Language (WSDL) definition files for particular end points
- Client applications use the SDO repository to query the WSDL definition files and then use the information in those files to connect to service integration bus web services

Service Data Objects (SDO) is an open standard for enabling applications to handle data from different data sources in a uniform way.

The SDO repository stores Web Service Definition Language (WSDL) definition files.

Service integration bus-enabled web services use the SDO repository to store and retrieve WSDL definition files for particular end points.

Client applications query the WSDL definition files and use the information in those files to connect to the service integration bus web services.

References

- SDO Repository
  http://publib.boulder.ibm.com/infocenter/wasinfo/v7r0/index.jsp?topic=%2Fcom.ibm.websphere.nd.multiplatform.doc%2Finfo%2Fae%2Fae%2Fcjy0114.html
- ejbSelect method
  http://www.caucho.com/resin-3.0/cmp/tutorial/cmp-select/index.xtp
- Difference between finder method and ejbSelect method
  http://192.87.31.188/docs/easpg/easpg163.htm

Performance improvement for the Service Data Object (SDO) repository

Follow these links for additional information about the performance improvement achieved by using the ejbSelect methods, rather than the finder methods.

6

Feedback

Your feedback is valuable

You can help improve the quality of IBM Education Assistant content to better meet your needs by providing feedback.

- Did you find this module useful?

- Did it help you solve a problem or answer a question?

- Do you have suggestions for improvements?

Click to send email feedback:

mailto:iea@us.ibm.com?subject=Feedback_about_WASv8002_SDO_Performance.ppt

This module is also available in PDF format at: ../WASv8002_SDO_Performance.pdf

Performance improvement for the Service Data Object (SDO) repository   © 2012 IBM Corporation

You can help improve the quality of IBM Education Assistant content by providing feedback.

Trademarks, disclaimer, and copyright information

IBM, the IBM logo, ibm.com, and WebSphere are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of other IBM trademarks is available on the web at "Copyright and trademark information" at http://www.ibm.com/legal/copytrade.shtml

Other company, product, or service names may be trademarks or service marks of others.

THE INFORMATION CONTAINED IN THIS PRESENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. WHILE EFFORTS WERE MADE TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION CONTAINED IN THIS PRESENTATION, IT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. IN ADDITION, THIS INFORMATION IS BASED ON IBM'S CURRENT PRODUCT PLANS AND STRATEGY, WHICH ARE SUBJECT TO CHANGE BY IBM WITHOUT NOTICE. IBM SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING OUT OF THE USE OF, OR OTHERWISE RELATED TO, THIS PRESENTATION OR ANY OTHER DOCUMENTATION. NOTHING CONTAINED IN THIS PRESENTATION IS INTENDED TO, NOR SHALL HAVE THE EFFECT OF, CREATING ANY WARRANTIES OR REPRESENTATIONS FROM IBM (OR ITS SUPPLIERS OR LICENSORS), OR ALTERING THE TERMS AND CONDITIONS OF ANY AGREEMENT OR LICENSE GOVERNING THE USE OF IBM PRODUCTS OR SOFTWARE.

8