

# IBM Software Demos

## IBM SOA Governance Healthcheck

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### **CHAPTER 1**

If your company is beginning the exciting journey into a Service Oriented Architecture, or SOA, having a "health check" on your services is vital. We recently had such a health check, and our governance recommended a "fitness plan" to get our services into top condition.

I'm here at a fitness center to show you how such a fitness plan might work. When I enter this fitness center, I will be representing a service from our SOA. You can think of me as, let's say, an order entry service.

My doctor, Dr. Governance, recommended some training to make sure services such as myself stay healthy. Come on in, I'll show you.

In our SOA governance fitness center, the admitting station would be staffed by the WebSphere Data Power SOA Appliance.

Yes, I'm here for my workout, I need a Security Check to make sure all my authorizations are valid.

The ability to keep track of services is a vital part of deriving the most value from your Service Oriented Architecture. The Websphere DataPower SOA Appliance is a hardware device which can track services, including an order entry service like myself, as the services flow through the network. The network needs to be certain that I am authorized to work with other services, and be certain that I am performing correctly.

Here at the fitness center, there is a client records storage system. Similarly, once the DataPower SOA Appliance learns about a service, it needs to call up the record on that service. This information is stored in a records system called the WebSphere Service Registry and Repository, or WSRR.

So, when I come into the center, DataPower can check with WSRR and make sure that a service – like me – is registered and known. The Datapower Appliance can then use that information from WSRR to perform a governance verification of the service to make sure it is as fit as possible.

Now I can move on to my fitness workout.

### **CHAPTER 2**

Just like in your neighborhood fitness center, where your trainer can keep track of your information for review, data about a service can be posted by DataPower to show that service's current status.

The IBM Tivoli Composite Application Manager for SOA – or ITCAM for SOA – communicates with DataPower. ITCAM for SOA monitors what is happening in the network. Whenever DataPower finds a service, it informs ITCAM for SOA, and can continue to pass along status information.

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Based on the information that ITCAM for SOA receives from the DataPower Appliance, ITCAM for SOA can either simply record the information for later retrieval, send that status information to WSRR for later reference, or it can even send an alert if the service is either unknown or not performing as expected.

Now, today I am just here for a routine fitness workout. But last time I had acute data errors – nasty stuff. WSRR showed that I had experienced that problem before. So off I went to the physical therapist for immediate repair.

When a service is not working in the manner that WSRR and the DataPower SOA Appliance expect, they can notify ITCAM for SOA, and a governance-predefined action can be taken, based on the severity of the problem. This automation is very important in a network that could have hundreds or thousands of services. Manually managing all the aspects of your SOA is just not feasible, so these automated tools are vital.

#### CHAPTER 3

Hold on, I've got to do my workout.  
There we go. Don't you wish maintaining your fitness could be that quick?

SOA Governance defines the level of decision-making and control that needs to be established within an SOA environment.

An SOA Governance fitness plan is about making sure that the services which are being used are operating correctly.

Just like this fitness center relies on personal trainers, health records, and fitness equipment to take care of their members, your SOA relies on the Websphere DataPower SOA Appliance, WSRR, and ITCAM for SOA to take care of services.

The last thing you want is a problem with the health of your SOA. IBM can help by providing "healthcheck" services from the Global Business Services or Global Technology Services groups.

These diagnostics services can show process and procedural areas that need focus, in addition to potential technical problems, and can help prevent small problems from becoming big problems.

Remember, an ounce of prevention is worth a pound of cure. Regular fitness can help keep your SOA healthy and running smoothly.

You've seen the demo, now click the link to learn more.