

Concert Enterprise ESB Integration

Case Study

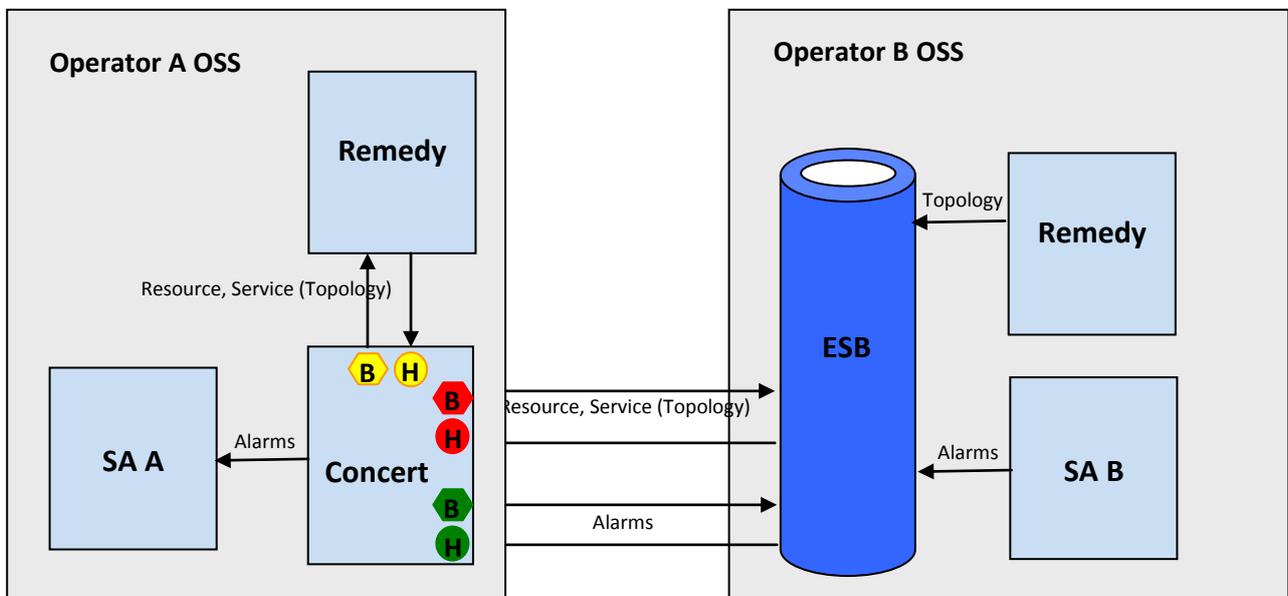


The Challenge- Correlate Alarms with Configuration Change

The service-provider in this case study wished to integrate service assurance and CMDB systems between their two national OSS centres in order to facilitate exchange of service assurance events, resource and service information and network topology data. The Concert event mediation platform was already deployed as a part of larger distributed service assurance system in one of the centres. ESB infrastructure was already deployed as a core of a bigger EAI project in the other centre. It was decided to use the Concert ESB libraries to extend the Concert solution and include the mediation of the additional ESB data in its responsibility.

The Solution- Concert Netflow Mediator

The Concert Mediation platform as an SOA-Ready platform can easily be integrated in any ESB based EAI environment. Concert can expose its own data services as web services or can consume available web services implemented by other OSS applications. In this particular example, Concert serves as a mediation hub between two service assurance systems and two CM systems. Concert uses the SA_Event web service and subscribes for service and resource alarms published by Service Assurance B system, transforms received data and sends it to the Service Assurance A system. Also, Concert uses the CM_Data web service to retrieve inventory and topology information from the CMDB via Tibco ESB.



Symmetrically, Service Assurance A can use the web service implemented and exposed by Concert to subscribe for events from Service Assurance B. Both Event services implement the same WSDL interface which defines standard SA_ publish/subscribe/query operations. SOAP over JMS transport is used in this project. It is more reliable and has better performance compared to SOAP over HTTP, so it is very well suited for corporate intranets and enterprise integration.

Benefits

- The SOA and ESB approach to EAI has many benefits (standardization, loose coupling, scalability, reusability, cost-effectiveness) and the Concert platform is ideally fitted to be a part of the ESB integration solution.



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