



## Transforming the OSS: A Game-Changing Industry Collaboration

Cisco and Nokia Siemens Networks are entering into an agreement to radically transform service providers' ability to treat the network as a strategic solution. Cisco and Nokia Siemens Networks will deliver a, open, vendor-neutral, standards-based next-generation OSS platform that embraces best practices and standards, provides consistent network modeling, set of interoperable applications and implements a virtual mediation layer. This open approach to a next generation OSS will allow service providers the tools to implement network equipment quickly and deliver new profitable services. By eliminating error-prone and expensive coding this open approach to a next generation OSS will deliver both a reduction in the cost and maintenance of the overall systems and provide a powerful solution fully aligned with service delivery requirements.

The solution is based on the industry-proven Cisco Active Network Abstraction (ANA) and Open EMS Suite (OES) by Nokia Siemens Networks OSS solutions. This new solution leverages industry standards and recommendations from organizations including TMF, ITU-T, 3GPP, and others. The J2EE-based solution is built using best-in-class software technologies and provides SDK's based on the Eclipse Platform, the most widely used IDE for Java development.

### The Proposed Solution from Cisco and Nokia Siemens Networks

The companies involved in this initiative share a number of common beliefs. Beyond the need to address the high cost of current OSS solutions, the organizations share a common technical vision based on the following principles:

- **Out-of-the-box FCAPS functionality supporting multi-vendor converged fixed and mobile networks**

The ability for service providers to build or integrate individual network management frameworks has past; systems are simply too complex, brittle, and expensive to maintain. The solution leverages industry best practices to deliver a true multi-vendor solution that delivers immediate functionality. Moreover, it will support all deployed technologies so service providers gain control over their entire end-to-end network.

- **Network element mediation with a common data model allowing a single solution to support multi-vendor networks while eliminating custom coding for element management**

The new solution will support a virtual network layer, allowing any element from any vendor to be managed at a higher level of abstraction. The solution will implement a single data model, methods, and interfaces that can apply to all vendors and all technologies. It will also eliminate or radically simplify the need for



operators or vendors to build their own network element mediation and will provide a common approach to managing devices across a rapidly changing network. Abstracting the management and control from the physical systems ensures a common and much faster path to network element mediation. In the end, virtual mediation will break down internal silos and enable dramatically faster time-to-revenue.

- **Northbound and Southbound API's, allowing the solution to integrate and manage new network elements quickly and to provide a consistent interface for OSS application integration**

The coming solution is architected for both integration and extensibility. At the network element level, stable interfaces ensure a common and well-defined approach to integrating both existing and new devices and technologies into the management framework. At the OSS application layer, the common interfaces ensure that applications have a single and abstracted view of the network as a whole. Building to the common API will provide a more reliable and dramatically less costly way for advanced OSS applications to interact with the network itself.

#### **Why Cisco and Nokia Siemens Networks**

- The two companies share a common vision associated with the value of a virtual network model.

- Cisco and NSN share a commitment to standards and openness. Beyond contributing to and participating in standards efforts, the two firms are actively inviting other vendors to participate in ways that increase the emphasis on a multi-vendor approach now demanded by customers
- The two companies have strength in different technology areas, providing a strong complement that matches industry pressure on convergence. Bringing leading providers of IP and mobility together can help the industry and help make a true end-to-end management solution a reality.
- Finally, Cisco and Nokia Siemens Networks together have the critical mass necessary to be successful. Each firm has a large base of customers and the resources and commitment to solve this widespread problem. In the end, the cooperation between Cisco and Nokia Siemens Networks allows the companies to bring a broader and richer solution to the market sooner.

For more information, please go to:

Cisco: <http://www.cisco.com/go/ana-jmp> or contact your Cisco Sales Representative.