ADARA introduces Orion Series; New Technological Approach to Software Defined Networking

ADARA Orion is an Industry First – a Software Defined Networking Bus; providing Value Added Services for Virtual Computing, Virtual Networking.

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SAN JOSE, CA--(08/20/2012) - ADARA Networks, the leading provider of advanced Computing and Networking products, has announced a technological first: ADARA's Orion Series Software Defined Networking (SDN) Bus. Orion is an advanced novel product for SDN.

SDN Bus; Virtual Services interconnected in a Virtual Computing /Virtual Network Infrastructure.
An Electrical Bus is where Electrical Devices interconnect. In Computers, a Bus is a subsystem which transfers data inside and between Computers, and between components inside and/or between Computers. An SDN Bus is where Virtual Services interconnect and communicate in a Virtual Computing and Virtual Network Infrastructure.

Common SDN
While the common SDN world is stuck at defining the communication protocols between controller and switch, customers want and need more to adopt and implement SDN on a scale that economically matters. Customers want management to extend the level of services to enable service specific use of physical resources – a prime reason for SDN to exist.

2012 Open Networking Summit
Based upon the experience gained with our partners, the largest technology companies in the industry, in achievements announced and demonstrated at the 2012 Open Networking Summit, ADARA Orion was engineered to satisfy gaps in the Software Defined Networking market. As reported by our partners, major gaps in SDN exist in all common SDN approaches, architectures, products and capabilities, such as coordinated network and cloud computing orchestration, and a common form of abstraction of applications, computing resources, and networks, is required. This requires a logically centralized distributed system and an Interconnection and novel advanced SDN Virtual Computing and Virtual Services function, for true Cloud Computing – an SDN Bus to interface Services, Virtual Services which are to a level not managed by SDN Controllers, Cloud Computing Software, Hypervisors, and Network Hypervisors.

ADARA Orion Series Software Defined Networking Bus
ADARA's Orion SDN Bus enables Virtual Computing and Networking in ways that are many thousands of times more efficient and scalable than traditional Virtual Machining; Virtual Machine Migrations.
Orion is a Virtual Services Execution platform which can work all the way to the level of a micro-flow. Orion is the execution point for any value added processing in an Orchestration such as Transmission Control Protocol (TCP) optimization, Data De-duplication, QoS, Content Transformation and other services. Orion reduces and can even eliminate the need for vswitching between virtual interfaces in the execution of a computation.

SDN extends past Virtual Machines to Services - the Most Sought after SDN Technology .
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Orion is the execution point for an entirely novel group of Virtual Computing methodologies.
Orion can coordinate with any standard Hypervisor to perform a common Virtual Machine Migration (VMM), and Orion can add value added services processing along with the VMM.
Orion is more advanced than other offerings; Orion can deliver On Demand Virtual Computing, Virtual Services and can Virtual-ize Services.

ADARA Orion provides on demand and novel virtual computing via the migration of:

- Virtual Machines (VM)
- Applications and Services
- Stateful Executables
- Stateless Executables
- State

ADARA Orion couples:

- Value added processing
- QoS and traffic shaping
- TCP acceleration (Comet)
- Compression (De-duplication)
- Value added content processing (Data transformation, De-identification)

These Novel Virtual Computing and Virtual Services are thousands of times faster, more efficient, and scalable, than only Virtual Servers and Virtual Machine Migrations, which is the level of Hypervisors and vSwitches.

These novel Virtual Computing and Virtual Services are made possible by the ADARA Orion SDN Bus execution platform; these capabilities are the most sought after in SDN. They are critical because Orion is an advanced execution platform for workflow execution models, where sequence of tasks are assigned to multiple workflow execution nodes for increased availability, performance, fault tolerance and scalability.

ADARA Orion implements multiple new technologies, never before envisioned, and never implemented in production SDN systems.

Full Domestic and International Patent Protections have been granted for all Orion technologies.

ADARA Orion Series are able to operate both in the Control Plane and the Data Plane.

Orion is right-sized for any customer environment, and is available in two form factors:

- Software only, for a Fully Virtualized Software Solution
- Software on either Purpose- built or 3rd Party COTS Appliances (x86 or MIPS)

Orion is engineered to provide the most advanced novel On Demand and Virtual Computing, Virtual Services, Services Virtualization and Value Added Processing available. The increasing utilization of Virtual Machining for High Performance Computing and Legacy Applications requires the state of the art that Adara delivers.

ADARA Orion on x86 platforms enables Virtual Machining for Computation and Networking directly upon the Orion platform; unavailable in legacy network routers, switches, load balancers and middleware boxes.

ADARA Orion is available as a standalone product, or as part of the ADARA Constellation Series.

ADARA has made this industry leading platform available to the United States Commercial Market through Tech Data and its channel of over 60,000 US Resellers.

Orion enables Enterprises of all sizes in all industries to positively impact Net Profitability.

Orion Series are critical solutions for Data Centers and Networks. The increasing utilization of Virtual Machining for High Performance Computing requires the state of the art in Application Networking.

ADARA Orion; the State of the Art in On Demand and Virtual Computing, Virtual Services, Services Virtualization and Value Added Processing.

For more information, please visit: http://www.adaranetworks.com.