

ADARA introduces Gemini Series; novel Multicast Technology enables Virtual Multicast Routing

ADARA Gemini Virtual Multicast Router; Global SDN Synchronization and Dynamic, On-the-Fly Multicast, delivering Value Added Services for Virtual Computing, Virtual Networking.



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SAN JOSE, CA--(01/16/2012) - [ADARA Networks](#), the leading provider of advanced Computing and Networking products, introduces ADARA's Gemini Series; the most advanced Virtual Multicast Router in the industry

ADARA Gemini Series Virtual Multicast Routers

ADARA Gemini Series create resilient Multicast overlays; Gemini uses a new Multicast technology which eliminates the ongoing issues associated with common Multicast.

A few of the significant operational differences between Gemini and common Multicast include:

- Gemini Multicast is much more resilient than any other Multicast. An interruption does not require collapse of the Multicast tree in order to repair the loss of Multicast; a frequent scenario in common Multicast, and one which is difficult, even impossible, to troubleshoot when the issue is in a distant network.
- Gemini Virtual Routers create Mesh Overlays which eliminate looping, especially prevalent in slowing changing topologies.
- Gemini Virtual Routers are not restricted to Multicast enabled routes, which are a tiny fraction of the Internet. Gemini can Multicast over non-Multicast enabled infrastructure.
- Gemini Virtual Routers can use every Internet path, and select best performing, most available and least latency paths for Multicast.
- Gemini can create Dynamic, On-the-Fly Multicast . This is especially important for multi-tier applications distributed between multiple data centers and networks.
- Gemini delivers the fastest most scalable path to ensure Global Software Defined Networking (SDN) Synchronization possible.

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

GEMINI Series Routers also integrate with all ADARA products.

Multicast in SDN

Multicast has 2 key roles in SDN; both are significant:

1. Coordination and Information sharing in Large Distributed High Availability Asynchronous/Synchronous Systems such as SDN Controllers
 - a. The efficiency and scalability of SDN and SDN Controllers is heavily reliant on Global Coordination; the more high performing, scalable and reliable the Information Sharing

amongst and between SDN Controllers, the more highly coordinated and robust the SDN implementation.

2. Value Added Dynamic Processing such as Multicast for Data and Content Services
 - a. The greater the dynamism, flexibility and stability of Services delivery in SDN, the more valuable and production capable the SDN implementation

Software Defined Networking Models

There are multiple variations of SDN architectures, Symmetric/Asymmetric, Floodless/Flood-based, Host based, and Network Centric; hybrids and variations are constantly created. SDN Controllers most frequently utilize Globally Distributed Logically Centralized models; this model, and models similar to it, requires the highest performing technology for coherency, scalability, and multi-location high-availability.

In Production SDN, where Operational applications use cases require mapping application requirements to deployed network services, Multicast is desirable and often required for resource efficiencies and scalability.

- ADARA Gemini delivers the fastest, most accurate, Global Information sharing and Coordination, making ADARA Controllers the most robust, high performing, accurate SDN Controllers in the industry.
- ADARA Gemini's Dynamic, On-the-Fly Multicast is a critical Value Added Service from Gemini Virtual Multicast Routing, enabling the scalability and stability that is the differentiator for production networks.

ADARA Gemini 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)

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

On Demand and Virtual Computing, Virtual Services, Services Virtualization and Value Added Processing. Gemini is engineered to provide the most high performing Global SDN Synchronization and Dynamic, Value Added Processing, such as On-the-Fly Multicast, delivering Value Added Services for Virtual Computing, and Virtual Networking. The increasing utilization of Virtual Machining for High Performance Computing and Legacy Applications requires the state of the art in Global SDN Information Sharing and Synchronization.

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.

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

Gemini 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 Global SDN Synchronization.

ADARA Gemini Series; the State of the Art in Global SDN, Virtual Routing and Value Added Processing.

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