

## Business Challenge

RAD Data Communications is a leading manufacturer of network access equipment for data communications and telecommunications applications. RAD offers an impressive array of access product solutions to serve the requirements of service providers, carriers and enterprises.

In addition, RAD offers an integrated network and system management solution to supervise, monitor and provision networks that vary in size and product. RAD wanted this Network Management System, called RADview, to be a scalable one: affordable for small installations, yet flexible to accommodate the network administrator's future needs regarding size and high-end network management capabilities such as fault, performance, configuration, security, and auto-discovery of devices.

The above-mentioned requirements called for intensive testing of RADview in realistic and peak-load environments. The testing required to validate the customers' scalability needs was a challenge – a unique test bed for scalability was needed to be built with various types of agents in the devices and their different versions.

## Solution

When RAD needed assurance of software scalability, they turned to AdventNet Simulation Toolkit – a tool that could create a virtual network environment with SNMP/TFTP/FTP manageable devices, on a single station.

“Key reasons for selecting AdventNet Simulation Toolkit were the combination of reasonable price; fulfilling of all RAD requirements from the simulator; tight, committed, direct, and professional technical support; being a product of a well known and established software vendor, AdventNet,” said Ziv Gadi, Director of R&D – System Test.

RAD requirements for SNMP Network Simulator were concentrated on the mass-of-nodes abilities. The simulation environment was created to address the following key requirements:

- Ability to simulate thousands of Agents at the same time.
- Ability to simulate real 'big' net in terms of Polling mechanism.
- Ability to simulate real loaded net in terms of SNMP Traps.
- Ability to work with multiple users at the same time.
- Ability to transfer file using TFTP application from and to the agent.

The basic simulator requirements, such as ability to send traps to the tested network system, ability to fully record a live agent, ability to configure the agent MIB database, being user friendly, and consuming reasonable disk space, were also needed. WebNMS Simulation Toolkit's Network Simulator offered an integrated network simulation environment with intuitive GUIs that fulfilled all the above-mentioned requirements.

“AdventNet has a winning formula in the form of a good and cost-effective application - the AdventNet Network Simulator, backed up by a professional personnel.”

**Ziv Gadi, Director of R&D - System Test**

“Throughout the evaluation period, we received an effective support - fast and to the point, aimed at solving the specific requirements which were in the interest of RAD Data Communications. ”

**"Weinberger Yaron, NMS Alpha Manager".**

## Key Benefits

The following are the key benefits that WebNMS Simulation Toolkit offered.

### High Quality Management Application

The ability of the simulator to simulate a large network of 10,000+ agents enabled RAD to test and 'explore' the boundaries of its NMS applications. Developers at RAD used Simulation Toolkit's Recording Wizard to “record” real SNMP devices. Simulation scenarios were created with 1000's of devices – just like a customer's enterprise – and the claim of managing 10,000 devices was substantiated.

In addition to scalability testing, Simulation Toolkit was used to test the various features of the management application when working with large network, test the polling mechanism, test RAD's TFTP applications under a load of large network.

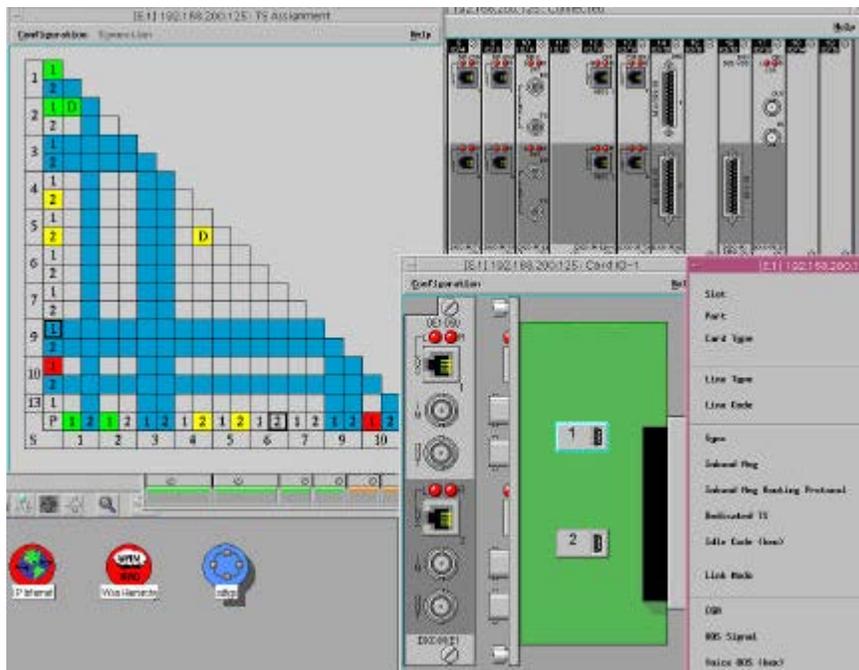
### Cost-efficiency

RAD attributes huge cost savings to WebNMS Simulation Toolkit. The entire cost of building a physical scalability lab was avoided. Developers at RAD were able to focus on the management application's functionality, and ensure that it worked to specification and was of the highest quality. WebNMS Simulation Toolkit measured over other competing products especially regarding its technical support and price.

### Reduced “time-to-market”

The development and testing efforts involved in building a comprehensive, scalable, and rugged NMS application was substantially reduced with Simulation Toolkit. With Simulation Toolkit, testing was faster and gave higher confidence.

The following is the typical view of RADview application, that enables Map view (the icons and their status), zooming inside a node, and 'inside' its components down to port level, and a system oriented view, for example, device's Time-Slots Assignment matrix.



### About RAD Data Communications

Established in 1981, privately owned RAD Data Communications has achieved international recognition as a major manufacturer of high quality access equipment for data communications and telecommunications applications. These solutions serve the data and voice access requirements of service providers, incumbent and new carriers, and enterprise networks, by reducing infrastructure investment costs while boosting competitiveness and profitability.

RAD is a member of the RAD Group of companies, a world leader in networking and internetworking product solutions.

**For more information, please visit:**

<http://www.rad.com>

### About Zoho Corporation

Zoho Corporation provides affordable software for database migration, management and provisioning of complex networks, systems, and IT applications. With a broad product portfolio and an active customer base ranging from enterprises, equipment vendors, and service providers, Zoho Corporation has emerged as a very affordable and high-quality alternative to expensive software that is common in this industry.

Zoho Corporation has offices in CA, Austin, New Jersey, Chennai, Singapore, Tokyo and Beijing. It has a well-trained partner base around the globe and thousands of customers world-wide. For more information, call 925-924-9500 or visit our Web site at: [www.webnms.com](http://www.webnms.com).

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