ACCA Networks, Inc. Chooses E-series Edge Routers to Build ADSL Access Network

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Mr. Masao Suemura,
Manager, NW Engineering,
ACCA Networks Co., Ltd.

ACCA NETWORKS
Broadband Partner

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E-series Routers Provide Stability, Capacity, and Cost-efficient Performance in a Growing Network for ACCA Networks

ACCA Networks Co., Ltd., a DSL provider in Japan, provides connections to nine major ISPs throughout the country including OCN, @nifty, BIGLOBE and So-net. When ACCA Networks needed a routing platform that would provide stability, capacity and cost-efficient performance, they turned to Juniper Networks E-series edge routers. As ACCA Networks expands its business with the introduction of new services, the E-series routers will play a significant role in the deployment of their services to a growing group of corporate and consumer customers.

By the end of December 2002, ACCA Networks was providing DSL services to over 700,000 subscribers. ACCA also provides high quality "Premium DSL Service" for corporate users as a means of accessing carriers' data network services. ACCA's growth and success are due in part to strong customer satisfaction resulting from ACCA's technology, line quality, and customer support. In the future, ACCA Networks also plans to expand into other DSL services such as VDSL and into Fiber to the Home (FTTH) service.

E-series Routers Meet ACCA Networks Objectives of Stability, Capacity, and Cost-efficiency

ACCA Networks launched commercial services in January 2001 after the successful completion of a trial period that began in October 2000. ACCA's network is based on placing DSLAMs at central offices in major urban areas throughout the country. Access lines are aggregated via ATM networks into the aggregation point or node in each local area. During the pilot period, ACCA engineers had experienced problems with routers from another vendor. "At the nodes, we used those routers as terminal devices that aggregated PPP sessions from each user and passed them to ISPs. We noticed the routers could not satisfy our three criteria of stability, capacity, and cost-efficiency," said Masao Suemura, Manager, NW Engineering, ACCA Networks, Co., Ltd.

Mr. Suemura realized that to move from the pilot program to commercial deployment, these issues would need to be solved rapidly and the company chose the Juniper Networks E-series edge router family for the task. "As a result, we could solve all three problems. Firstly, as to stability, the numbers of reboots and system interruptions were reduced. Secondly, as to capacity, the number of PPP sessions aggregated by a single router was appropriate to the scale and type of our business. Finally, the balance between the routers' functionality and cost was acceptable," said Mr. Suemura.

ACCA Networks installed several E-series routers and then increased the number as more lines were required by the growing business. When ACCA expanded its commercial customer base, E-series routers were again put into service. "When we introduced the E-series into the field for commercial services, we were anxious about whether the routers would continue to operate even under the heavy loads. But no problems arose, even when more than 30,000 users simultaneously connected to our network. Also, the support services provided by Juniper

Networks and its dealers, along with their quick response and excellent technical advice, relieved our anxiety," Mr. Suemura explained.

Virtual Routing Allows Flexible Network Construction

ACCA Networks uses the wide variety of Virtual Routing functions found in the E-series routers to build a flexible network. Using the Virtual Routing functions allows ACCA to control processes for multiple ISPs with a single router on a scale not achieved by other companies. "I was highly impressed by the E-series and its ability to offer different levels of performance to each ISP. For example, even though the traffic load of an ISP is increased, the Virtual Routing function prevents the increased traffic load from affecting other ISPs. In addition, because each Private Virtual Circuit (PVC) is handled on a per-user basis on the ATM side, the work involved in adding or moving E-series routers is relatively easy," Mr. Suemura said.

As ACCA Networks continues to grow its business and attract additional ISPs as customers, the Virtual Routing capabilities of the E-series will be a significant factor in success. With increased competition regarding fees and transfer speeds in the network, both carriers and ISPs must practice stringent cost control. In addition, network stability is very important and directly influences operating expenses such as maintenance and labor costs. Mr. Suemura adds, "The confidence of our customers is also directly influenced by the stability of our network and we are confident about the stability of the E-series routers."

Delivering Value-Added New Services

ACCA Networks is also planning to launch value-added services that rely heavily on Quality of Service (QoS) capabilities. Juniper Networks SDX-300 with its robust QoS features will allow ACCA Networks to deploy services such as public wireless LAN service, also known as hot-spot service, enterprise IP-VPNs, and other services. "For example, in the case where a user usually links up at 1 Mbps and he needs the effective speed of 5Mbps only while streaming video or audio of a favorite artist is playing, the necessary bandwidth will be ensured for a small extra charge to the user. We hope to provide this kind of flexible service. What's more, with the use of the E-series routers, we will be able to fulfill various demands from ISPs, including new services such as IPv6," said Mr. Suemura.

As ACCA Networks leverages its leading-edge technology to expand its customer base and the services it delivers, Juniper Networks products, technology and customer support will play a significant role in the success of the company.

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