Brocade and NEC collaborate on growth initiative for Software-Defined Networking

Collaboration Enables Customers to Build Highly Scalable, Programmable Networks and Foster Rapid Innovation and Deployment of Services

SYDNEY,Aust. – May 23, 2012 – Brocade(NASDAQ: BRCD)and NEC Corporation of America (NEC)today announced an expanded collaboration to bring to market combined solutionsaround Software-Defined Networking (SDN) and OpenFlow switching, includingnetwork virtualization.

Brocadeand NEC will jointly market solutions for network virtualization, large-scaledata center infrastructure management, traffic engineering and Wide AreaNetwork (WAN) flow management, with an open standards-based approach.Brocade and NEC will market these high-value solutions built around Brocade’sOpenFlow-enabled products and NEC’saward-winning Programmable Flow Controller.

Aspart of the collaboration, Brocade and NEC are committing to ongoingcertification, interoperability and solution validation testing. To this end,Brocade and NEC will establish joint solution labs in key regional offices totest and demonstrate their solutions. The current Brocade and NECOpenFlow-enabled products successfully completed interoperability testing in2011.

Brocadeand NEC are collaborating on technology and implementation alignment, includingOpenFlow standards, tunnel technology and Application Programming Interfaces(APIs) to help ensure ongoing innovation and seamless deployment by jointcustomers.

Brocadeand NEC recently demonstrated their technology and joint solutions at the OpenNetworking Summit 2012 in Santa Clara, California and Interop, Las Vegas.Additional demonstrations are planned for upcoming industry events, includingInterop Tokyo (June 13 to 15, 2012).

“Thecombined NEC and Brocade SDN solutions will give customers the ability todesign, deploy, monitor and manage secure, multi-tenant networks from a singlepoint of control,” said MitsuhiroMurooka, Vice President, NEC Enterprise Technologies IT. “Brocadeand NEC customers will be able to achieve greater service agility, granulartraffic control and significant productivity gains by adopting asoftware-defined network architecture.”

“Through standards-based solutions like OpenFlow, theSDN and underlying network can be coupled to optimize service performance andcost. A key objective for Verizon is to virtualize the network and converge theorchestration of the virtualized networks with VMs in the data centers tocreate a true cloud,” said Stuart Elby, vice president, network architectureand technology, Verizon, and founding board member of Open NetworkingFoundation (ONF).

“Stronger definition of network behavior in softwareis a growing trend, and open interfaces are going to lead to fasterinnovation,” said Dan Pitt, executive director, Open Networking Foundation. “Weare excited to be joined by leading global companies to help develop andimplement advanced networking capabilities for today’s operators andenterprises.”

“SDN enables network operators to rapidly deployinnovative services and access powerful analytics through programmatic control,unlocking the intelligence of their data center and wide area networks,” saidKen Cheng, vice president and general manager, service provider business,Brocade. “Our collaboration with NEC ensures we deliver high-value solutionsthat can be seamlessly deployed in our customers’ networks to realize thebenefit of SDN.”

Software-Defined Networkingand OpenFlow SolutionsIn June 2010, Brocade was oneof the first major networking vendors to publiclyendorse OpenFlow,which is a major component of a new approach to networking called SDN. SDNinvolves several components, including standards-based OpenFlow,which delivers to service providers and network operators granular control oftheir network infrastructures. Brocade delivers OpenFlow capabilities acrossits high-performance switching and routing products, enabling flow control upto 100 Gigabit Ethernet (GbE) speeds. With its partners, Brocade buildscompelling cloud networking solutions for service providers and networkoperators worldwide. These solutions alleviate the burden of operationalcomplexity for customers that are building and managing hyper-scale cloudinfrastructures.

AboutNEC Programmable Flow Controller

NEC was first to market with agenerally available OpenFlow network solution, called ProgrammableFlow. Version2 of its Programmable Flow Controller, the PF6800, won the Grand Prize and theManagement, Monitoring and Testing category at Best of Interop 2012. TheProgrammableFlow software separates out the physical network from the controllayer, providing customers new levels of flexibility and control to quicklydeploy network services and gain the benefits of Software-Defined Networking.The PF6800, which leverages OpenFlow standardized technology, used incombination with the Brocade OpenFlow-enabled product family, eliminates mostof the configuration management in traditional networks and transformingnetwork monitoring and management by integrating real time network monitoringwith remediation.

AboutOpenFlow and the ONF

TheOpenFlow protocol is being standardized by OpenNetworking Foundation(ONF). Founded in 2011 by Deutsche Telekom, Facebook, Google, Microsoft,Verizon and Yahoo!, ONF is a nonprofit organization whose goal is to rethinknetworking and quickly and collaboratively bring to market

standards andsolutions. ONF will accelerate the delivery and use of Software-DefinedNetworking (SDN) standards and foster a vibrant market of products, services,applications, customers and users; it includes 70 member companies (includingBrocade and NEC).

AboutNEC Corporation of America

Headquarteredin Irving, Texas, NEC Corporation of America is a leading provider ofinnovative IT, network andcommunications products and solutions for service carriers, Fortune 1000 andSMB businesses across multiple vertical industries, including Healthcare,Government, Education and Hospitality. NEC Corporation of America delivers oneof the industry’s broadest portfolios of technology solutions and professionalservices, including unified communications, wireless, voice and data, managedservices, server and storage infrastructure, optical network systems, microwaveradio communications and biometric security. NEC Corporation of America is awholly-owned subsidiary of NEC Corporation, a global technology leader with apresence in 44 countries and more than $37.5 billion in revenues. For moreinformation, please visit www.necam.com.

SocialMedia Tags: Brocade, NEC, Open Networking Foundation, ONF, Software-DefinedNetworking, SDN, OpenFlow, Ethernet Fabrics, Storage Area Networks, SAN, IP,Fibre Channel, Ethernet, WAN, LAN, Networks

AboutBrocade

Brocade(Nasdaq: BRCD) networking solutions help the world’s leading organizationstransition smoothly to a world where applications and information resideanywhere. (www.brocade.com)

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