# MYANMAR'S REDLINK COMMUNICATIONS SELECTS A10 CGNS TO IMPROVE NETWORK SERVICES

A10

**CASE STUDY**

> " *A10 CGNs were administrator friendly, easy to deploy, and A10's customer support also provided quick responses to our inquiries. With deployment of the A10 CGN appliances, our network now has 10GbE fiber port connectivity. The carrier grade NAT (CGN or large scale NAT) platform has helped to resolve concerns we had with IPv4 address scaling and exhaustion. We are confident that all our future communication and connectivity demands can be met with the deployed A10 CGN appliances in our network.*"
>
> **Myint Thein** | Chief Engineer, RedLink Communications

## COMPANY

RedLink Communications

## INDUSTRY

Telecommunications

## NETWORK SOLUTION

A10 CGN

## CRITICAL ISSUES

- IPv4 address scaling and exhaustion Traditional NAT breaks many applications

## RESULTS

- Resolved IPv4 scaling concerns
- Transparent end user experience
- Meet demand for future connectivity
- Availability of 10 GbE fiber connectivity
- A10's efficient and responsive customer support
- Network is ready to transition to IPv6

REDLINK
COMMUNICATIONS

RedLink Communications was established in 2008 and is one of the three Internet service providers (ISPs) in Myanmar delivering a full range of data communication services across an integrated network infrastructure jointly managed with Yatanarpon Teleport and under the supervision of Myanmar Posts and Telecommunications.

Headquartered in Yangon and staffed by more than 500 employees, RedLink also provides WiMAX Broadband Internet Service, Telecom & ICT Related Services including MPLS/IP, VPN/IPLC Services, Global Internet Access, e-Services, Satellite Solution, IP Transit and International Carrier Services. A leading trading house providing Broadcasting Services, RedLink received the 9001-2008 ISO certificate as the first certified company of Myanmar's ICT and telecom sector.

Some of RedLink's significant milestones in the recent years include launching Internet radio services; providing a free WiFi zone in Yangon, Mandalay, Bagan and Ngwesaung, one of Southeast Asia's longest beaches, during the 27th South East Asia games in 2013; introducing pre-paid Internet cards for access to wireless networks and launching high-speed fiber optic Internet services in Yangon, Yadanabon and Mandalay.

## SOLUTION

### DELIVERING HIGH PERFORMANCE WITH A10 NETWORKS' CGN SOLUTION

RedLink currently runs a high performance application networking platform that is used by 250 employees, as well as 10,000 customers. Recommended by corporate partners and vendors in the industry, RedLink selected a mid-range model from A10 Networks® CGN product line of Carrier Grade Networking gateways in the next stage of their network upgrade. A10 CGN appliances provide high-performance, highly transparent address and protocol translation that allows service providers to extend their IPv4 network connectivity and simultaneously make the transition to IPv6.
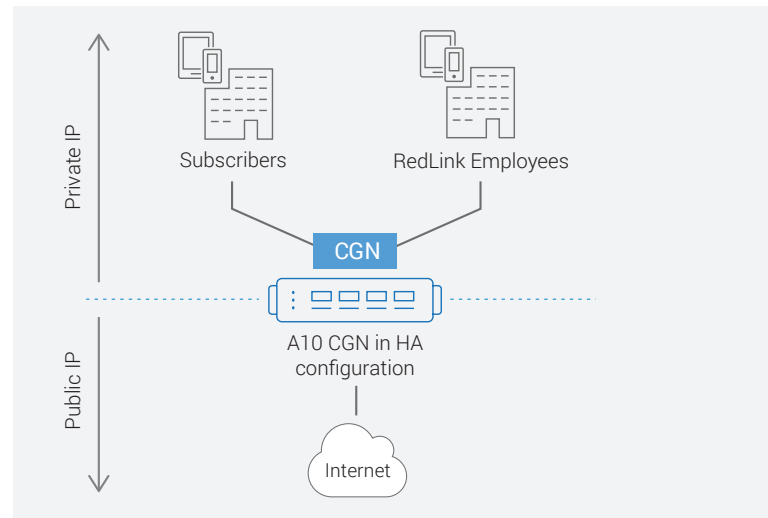


Figure 1: RedLink's IPv4 scaling/IPv6 transition solution

The A10 CGN provides high connection reliability by using Application Layer Gateways (ALGs) and other important features to help ensure that applications can operate transparently through address translation. The A10 CGN high availability (HA) feature allows established sessions to be maintained during failover while appearing invisible to end users. The high reliability of the A10 CGN also provides RedLink with a cost-effective solution to meet service level agreements (SLAs). Additionally, the A10 CGN is built upon A10's Advanced Core Operating System (ACOS®) architecture that delivers high performance, scalability and a wide range of features for enhanced service availability, IPv4 scaling, IPv6 transition and security.

The A10 CGN allows RedLink to extend the lifetime of the organization's current IPv4-based infrastructure, save cost and gain time to plan a comprehensive IPv6 transition strategy. A10's CGNAT methodology preserves IPv4 addresses by centralizing the public address resources and shares those resources across a large user community, and offers advantages over traditional NAT operations such as a seamless application experience. Harmonized with mature industry technology standards (IETF RFCs), A10 CGN appliances facilitate future application development and allows fair distribution of RedLink's resources across the user-base in accordance with its requirements, helping to provide efficient log file size management.

## SUCCESS AND NEXT STEPS

### A10 NETWORKS ENABLES REDLINK TO BE READY FOR THE FUTURE

"We are currently using A10's 64-bit CGN solution for its high availability features and leveraging ACOS as a high performance and scalable platform. The A10 CGN administrator interface is friendly, easy to deploy and A10's customer support also provided quick responses to our inquiries. With the deployment of the A10 CGN appliances, our network now has 10GbE fiber port connectivity", said Myint Thein, Chief Engineer for RedLink Communications.

"A10's Carrier Grade NAT (CGN or large scale NAT) platform has helped to resolve concerns we had with IPv4 address scaling and exhaustion. We are confident that all our future communication and connectivity demands can be met with the deployment A10 CGN appliances in our network," he added. RedLink also intends to move to an LTE network in the future and to continue upgrading its network in the next two years taking advantage of the A10 CGN appliance's scalability and flexibility with the deployment of new technologies.

Service provider networks are very diverse and often require different transition technologies to be deployed simultaneously. A10's CGN product line provides a wide choice of technologies that enable a smooth transition to IPv6 networks, ranging from CGNAT deployment options to scale and extend the life of IPv4, to IPv6 translation options.

In addition, A10 CGN also ensures that customers can deploy any transition technology concurrently and supports interplay between the technologies allowing for a phased transition. For example, a network can be upgraded by starting with CGNAT to immediately mitigate IPv4 address exhaustion, and then by phasing in NAT64/DNS64 to enable IPv6 clients to access the IPv4 Internet.

As discussed above, A10 CGN products offer a comprehensive feature set consisting of CGNAT functions, ALGs and many IPv6 migration techniques in a single device, with an all-inclusive licensing fee. Figure 2 provides a summary of all IPv4 extension and IPv6 migration features supported on the A10 CGN appliance.
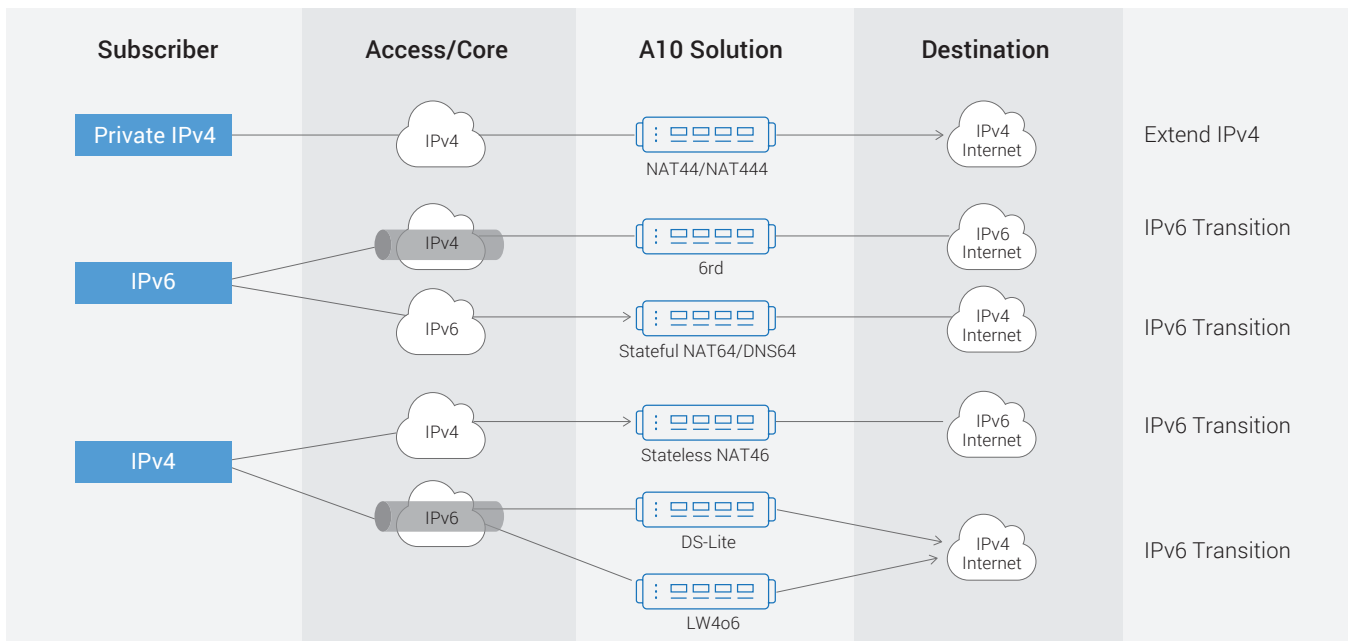


Figure 2: Broad IPv4 scaling and IPv6 transition options are available from a single box appliance

**A10 THUNDER CGN**

v4 v6

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## ABOUT A10 CGN

The A10 CGN product line of Carrier Grade Networking gateways provides high-performance, highly transparent address and protocol translation services for service providers to extend their IPv4 network connectivity, while simultaneously making the transition to IPv6. The A10 CGN appliance delivers performance scalability up to 155 Gbps. The A10 CGN product line is built upon our Advanced Core Operating System (ACOS) platform, with our Symmetric Scalable Multi-Core Processing (SSMP) software architecture that delivers high performance for enterprise and carrier networks.

## ABOUT A10 NETWORKS

A10 Networks (NYSE: ATEN) provides Reliable Security Always™ through a range of high-performance solutions that enable intelligent automation with deep machine learning to ensure business critical applications are protected, reliable and always available. Founded in 2004, A10 Networks is based in San Jose, Calif., and serves customers globally with offices worldwide.

For more information, visit: **a10networks.com** or tweet **@A10Networks**.

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