

### Large Enterprise Deploys Cell Janus for IPv6 Network Infrastructure Connectivity

#### Background

"This Time it is for Real, 6 June 2012", Internet Society announce that IPv6 world launch date is set to 6 June 2012. Most of Internet Service Providers (ISPs), networking equipment manufacturers, and web service companies are coming together to permanently enable IPv6 for their products and services by June, this year.

For most of broadband networking service and business, it is time to migrate your existing network into IPv6 to support next generation network requirement, maintain competitive advantage, and catch up future network business opportunity.

#### The Cell Janus Solution for IPv6

It is a challenge to change the existing comprehensive IPv4 into IPv6 network for many corporate or enterprises. In most of cases in the market, the corporate networks had been developed and installed in the past with a stable and reliable IPv4 network infrastructure, with many standard network equipments. Their services had been delivered to their customers, business partners, and even public sectors through a stable IPv4 network carrier. It may cost a huge investment and require to resolve many technical issues from engineering for adopting a complete new network environment. Service interruption may also occur for this change.

In order to resolve this issue, we provide a comprehensive Cell Janus IPv6 solution to carriers or corporations suffering this network challenge.

#### Cell Janus with Key Features of IPv6

Cell Janus, as a multi-WAN service gateway, can provide the following IPv6 services and feature in the edge network:

##### Connection of Both IPv4 and IPv6 Infrastructures

- Configure both IPv4 and IPv6 addressing in all WAN links
- Provide both IPv4 and IPv6 link failure detection

##### Smooth Network Transition from IPv4 to IPv6

- Translate IPv4 service packet into an IPv6 traffic and vice versa
- Support Stateless NAT64 mapping to bridge external IPv4 servers to internal IPv6 clients
- Provide stateful NAT64 mapping to allow external IPv6 clients to connect internal IPv4 servers

##### Build-in DNS Server

- Support IPv6 NS resolve, by providing both A and AAAA resource records to internal IPv4-only servers
- By link-aware addressing, Janus replies the NS request with address defined in active WAN to remote host.

##### Connection of IPv6 Infrastructure via IPv4 Network

- Support to link up IPv6 network in far end through IPv4 network

#### Executive Summary

##### Region of Customers:

Japan

##### Industry:

Government Networks, Large Enterprise Network, Manufacturing Network, Data Center, Retail Store & Multi-National Company Network, and University

##### Business Challenge:

With the growth of broadband network IPv6 availability, most of ISPs, network service providers and network equipment providers enable IPv6 for their product and network services. Customers or corporate have to migrate into this new network technology to maintain their business & keep non-stop service to customers.

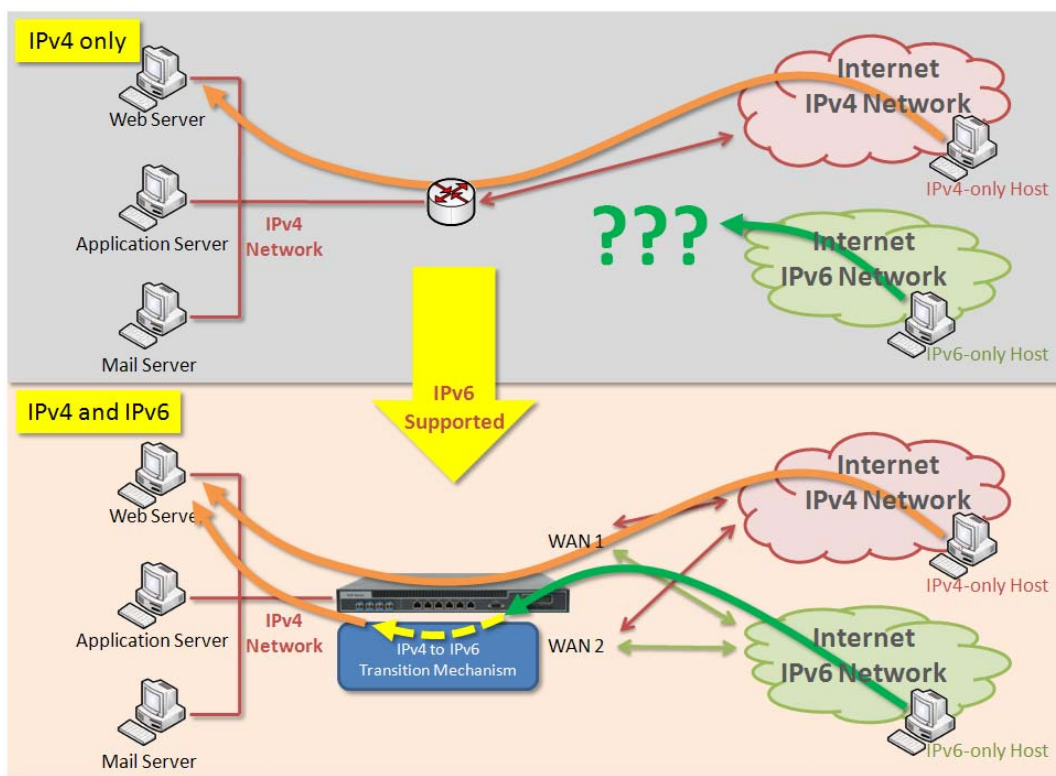
##### Solution:

Cell Janus with IPv6 solution is a cost-effective solution for large enterprise to migrate existing IPv4 into next generation of IPv6 network infrastructure by its IPv4-to-IPv6 transition technology.

##### Business Value:

- Enhance corporate network to compatible for both IPv4 and IPv6 networks.
- Provide Multi-home/ load-balancing capability on both of IPv4 and IPv6 Internet network connectivity to utilize the bandwidth usage.
- Monitor both of IPv4 and IPv6 Internet network connectivity and keep non-stop network service to customers

### Typical Application



### Key Benefits to Customer

#### Simple IPv6 Implementation into Existing IPv4 Network

Network Migration is always costly with high investment and technical complex, especially when corporate needs to maintain existing IPv4 service and migrate its service to IPv6 network compatibility at the same time. Cell Janus provides a simple and cost-effective solution for this network compatibility. It supports to simply insert an IPv6 connections in WAN side, to enhance corporate network compatible both IPv4 and IPv6 network. Even the IPv6 network cannot directly access, Cell Janus supports tunneling features to link up IPv6 network across IPv4 Internet.

#### IPv6 Migration Ready from IPv4 Network

After the deployment of Cell Janus, it can provide IPv6 network availability to corporate network. In WAN side, it supports to obtain the IPv6 address from ISP and link up IPv6 Internet. In LAN side, it supports LAN IPv6 addressing, DHCPv6, IPv6 routing, and DNS64. Administrators are able to migrate the corporate network into IPv6 infrastructure in any time.

#### IPv6 Load Balancing

Similar to IPv4, Cell Janus supports Inbound and Outbound network load balancing for IPv6 service traffic. Multi-WAN connection increases the overall bandwidth and provide active-active WAN backup. Finally the bandwidth availability and stability of the service is enhanced.

#### About Cell Technology

Cell Technology headquartered at Hong Kong SAR, a network & security technology provider specializes in design, develop and deliver innovative and intelligent IP packet processing platform into software and hardware appliances. Cell product solutions including Cell IPS, Janus and iCMS address the business needs that optimize the IP network performance, secure the network security and resiliency, and manage the quality of IP services. For more information, please visit [www.cell-technology.net](http://www.cell-technology.net).