IPv6 Meets Network Security for IBM i – White Paper

iSecurity

November 2013

All you wanted to know about IPv6 and the IBM i and were afraid to ask

Contents

About Raz-Lee Security Inc.

Raz-Lee Security, headquartered in Nanuet, New York, is the leading security, auditing and compliance solution provider for IBM i (AS/400) computers. Drawing upon its more than 30 years of IBM i expertise, Raz-Lee designs, develops and markets the comprehensive iSecurity suite of infrastructure and application security solutions, many of which are unique in the market.

The iSecurity product suite is field-proven at thousands of sites in 35 countries worldwide, some with more than 150 systems. iSecurity's intuitive GUI and green-screen interfaces have enabled hundreds of companies to quickly attain SOX, PCI, HIPAA and auditor-mandated compliance.

Raz-Lee partners with all leading SIEM and Database Activity Monitoring vendors such as IBM, HP, McAfee, Imperva, RSA, CA, ArcSight and others.

To receive the full white paper, please copy "Please send me the full IPv6 White Paper" into the Comments area at this link.

RAZ-LEE
Experts @ Security and Compliance

Raz-Lee Security Inc.
Website: **www.razlee.com**
Email: **marketing@razlee.com**

Tel: 1-888-RAZLEE-4
Fax: 1-419-781-5851
2013 © All Rights Reserved

1

Executive Summary

With the huge increase in the number of mobile devices worldwide, each of which requires its own unique address, the IPv4 internet addressing protocol has reached its limit. After this issue was first noted, an alternate internet addressing protocol, IPv6, was officially released.

IPv6 (Internet Protocol version 6) is the latest Internet Protocol, whose major feature is the increase of the address size to allow for the vast increase in internet users, especially with the introduction of mobile devices.

Since the allocation of the last of the addresses available under the old IPv4 protocol in February 2011, the penetration of IPv6 is increasing, and by 2016 IPv6 is expected to reach more than half of worldwide Internet users.

Due to the complexity of the changes needed to support IPv6, IBM chose to implement IPv6 support for IBM i gradually, starting with OS/400 V5R2. Only now, at V7R1, it seems that the target of full implementation has been achieved.

Security software, and especially Network Security software which represents an extended version of standard Firewalls, are very sensitive to the existence of IPv6 support.

As the BYOD (Bring Your Own Device) trend is extending, the security structure must also take into consideration the type of the device used. A user working on a mobile device at home should certainly be more restricted than when working in the organization's office on the computer allocated specifically to the user.

In view of the increasing popularity of IPv6, and because of the high complexity involved in buying new software, Raz-Lee Security, a leading supplier of information security solutions for the IBM i, has announced that full support for IPv6 in iSecurity products is now available.

To receive the full white paper, please copy "Please send me the full IPv6 White Paper" into the Comments area at this link.

Raz-Lee Security Inc.
Website: **www.razlee.com**
Email: **marketing@razlee.com**

Tel: 1-888-RAZLEE-4
Fax: 1-419-781-5851
2013 © All Rights Reserved

2

IPv6 for IBM i White Paper

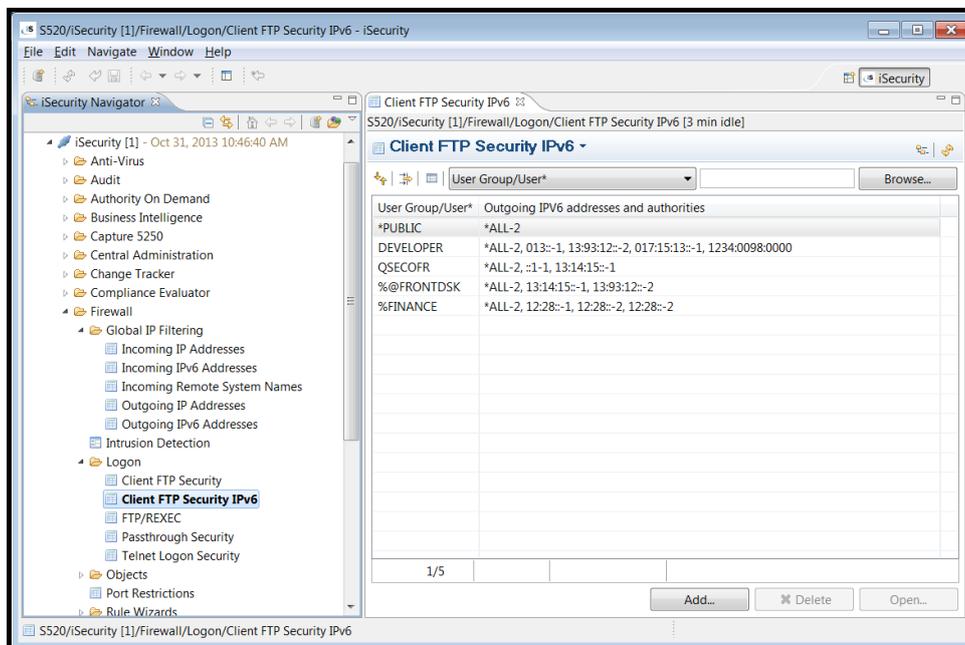## Raz-Lee's iSecurity and IPv6

IPv6, IPv4, and IPv4-mapped IPv6 addresses are all supported simultaneously in the Firewall (Network Security), Audit, and AP-Journal (DB Audit) products in the same manner as in the IBM i operating system. While IPv4 addresses are handled with subnet masks, IPv6 addresses are handled with a separate prefix length field.

With IPv6 implemented in iSecurity, users will be able to

- Provide rules and protect access to and from the IBM i from any worldwide or local IPv6/IPv4 address

- Display all IPs with their standard editing

- Obtain the exact IP address of the person who changed application data

- Use any worldwide IPv6/IPv4 address to filter security-related real time actions or report output

iSecurity is the first IBM i security, auditing and compliance product to offer users full IPv6 support over its full suite of products, in both the Green Screen and the GUI versions. This functionality was provided in response to customer requests from Japan, the US and elsewhere.

Examples of updated menus and screens are shown below.

To receive the full white paper, please copy "Please send me the full IPv6 White Paper" into the Comments area at this link.