

JAN 2016

# In the Boxing Ring

## Network Box Technical News

from Mark Webb-Johnson, CTO Network Box

### Welcome to the January 2016 edition of In the Boxing Ring

Season's Greetings and Happy New Year to you all. 2015 was another incredible year for Network Box. In addition to winning numerous awards including the **Grand Trophy** and **Three Gold** awards at this year's Info Security Global Excellence Awards, which takes our total number of awards published out of Silicon Valley to six; we also launched **Network Box 5.3**, the next level of enhancements to our managed security platform. 2015 also marked the fifteenth year that Network Box has been in operation and we would like to thank you for your continued support.

On pages 5-6, we highlight the features and fixes to be released in this month's patch Tuesday for Network Box 5 and Network Box 3. Based on Sunset Policy, we will continue to support, Network Box 3 until at least late 2018.

Finally, Network Box achieved a double win at this year's IT Pro Corporate Choice Awards in the Unified Threat Management and Managed Security Services categories, and Network Box Germany participated at the IT Security Day NRW 2015.



**Mark Webb-Johnson**  
CTO, Network Box Corporation Ltd.  
January 2016

You can contact us here at HQ by eMail ([nbhq@network-box.com](mailto:nbhq@network-box.com)), or drop by our office next time you are in town. You can also keep in touch with us by several social networks:

**twitter** <http://twitter.com/networkbox>

**facebook** <http://www.facebook.com/networkbox>  
<http://www.facebook.com/networkboxresponse>

**Linked in** <http://www.linkedin.com/company/network-box-corporation-limited>

**Google+** <https://plus.google.com/u/0/107446804085109324633/posts>

### In this month's issue:

#### 2-4 2015 Year in Focus

In this featured article we round-up some of the key Network Box milestones over the past twelve months including global threats overview, new technologies and hardware, awards, and international exhibitions and events. These are highlighted on pages 2 to 4.

#### 5-6 Network Box 5 and Network Box 3 Features

The features and fixes to be released in this month's patch Tuesday for Network Box 5 and Network Box 3. Based on Sunset Policy, we will continue to support, Network Box 3 until at least late 2018.

#### 6 Network Box Highlights:

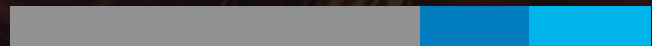
- **Network Box 5**  
IT Pro Corporate Choice Awards 2015
- **Network Box Germany**  
IT Security Day NRW 2015

# 2015:

# Year in Focus

2015 was another landmark year for Network Box. Not only did it mark the fifteenth year that Network Box has been providing multi-award winning security technologies and fully managed cyber security services to customers right across the globe; 2015 saw the launch of Network Box 5.3, the next level of enhancements to our security platform.

This is highlighted, along with other key events over the last twelve months.



## Global Cyber Threats

The security landscape was severely impacted over the past year. Hackers and cyber terrorists are constantly finding new vulnerabilities to exploit for their own agenda. The threats have become headline news and it seems no one is safe. Large-scale organizations and enterprises such as such as: *Sony Pictures*, the *US Postal Service*, *British Airways*, *Tesla Motors*, the US Federal Government - *Office of Personal Management*, *Apple Inc.*, the *Daily Mail*, *Hilton Hotels*, *VTech*, and *LinkedIn*; all fell victims to cyber attacks and there may be many more unreported cases.

Just recently, a new vulnerability dubbed '**Firestorm**,' was discovered. The vulnerability relies on the approach of certain Next Generation Firewalls (NGFs) to allow the TCP/IP connection to be established, and to delay enforcement of the policy until the application within that TCP/IP connection has been identified. The vulnerability is that application data can also be transferred in the SYN packet of the TCP/IP connection, at the connection setup phase - before the affected NGFs can identify the application and apply policy.

**However, not all NGFs are created equal and Network Box is not vulnerable to the Firestorm vulnerability.** The reason being, by default, Network Box completely separates the server side connection, from the client side connection, using different TCP/IP connections for both. Simply put, the server side SYN packet is generated independently of the received client side SYN packet.



## Next Generation Security

Back in 2013, **Network Box 5** was launched. The security platform enhanced the previous Network Box UTM+ offerings and added next generation security technologies, and since then it has gone on to receive international acclaim and multiple awards. But the security threat landscape is constantly evolving and to stay ahead, many new features have been added to the platform.



The platform today has been vastly improved and updated with the next level of security enhancements, from when it was first launched, and in November 2015, Network Box 5.3 was launched. Key features and updates include:

- Next Generation Firewall with in-built Anti-DDoS as standard which automatically bridges between IPv4 to IPv6 protocols
- Visual VPN
- Ruggedized VPN
- Enhanced authentication and encryption, meeting the latest German standards
- IDP system can now optionally include WAF
- Infected LAN
- Kiosk Mode
- Comprehensive support for SSL across all core protocols
- Event Correlation
- Z-Scan+
- Cloud email backup
- Cloud DNS backup
- Enhanced multi-protocol handling
- HTML-5 Dashboard refresh
- KPI Reporting
- and many more...

Link:  
[http://network-box.com/sites/www.network-box.com/files/files/NetworkBox\\_5\\_3-Overview.pdf](http://network-box.com/sites/www.network-box.com/files/files/NetworkBox_5_3-Overview.pdf)

## New Hardware

To offer a wider choice to the small business and SOHO (Small Office Home Office) market Network Box launched three new hardware devices: the **VPN-5**, a small fanless unit designed to secure VPN connections between head office and small/remote offices; and the **S-38i** and **S-68i**, multi-core UTM+ units encased in an industrial-grade chassis offering high performance and reliability.



## International Awards

Network Box continues to produce multi-award winning, cutting-edge technologies. 2015 was another year where Network Box was recognized and awarded with multiple awards. Network Box's total number of industry, media and governmental awards won now exceeds over 100.



### Computer Technology Review Most Valuable Product 2015

Network Box 5 won a highly prestigious Computer Technology Review USA - Most Valuable Product (MVP) 2015 Award.

## INNOVATIONSPREIS-IT 2015 Best of 2015 Award

Network Box won an INNOVATIONSPREIS-IT 2015 award, of the 'initiative mittelstand' in Germany. This is an Award for Innovative IT Solutions in the field of SME businesses. The system was found to be excellent, and the expert jury judged it as belonging in the top group of all submitted applications.



## SMB World Awards 2015 Security Solution Hardware

Network Box won the SMB World 2015 Award for Security Solution Hardware, for the latest Network Box 5 UTM+ (Unified Threat Management Plus) appliances. Network Box's latest SMB range of appliances, VPN-5, S-38i, S-68i, beat out all the 'usual suspects,' to win this year's award.



## Silicon Vally Communications Info Security Global Excellence Grand Award 2015

Network Box was awarded the Silicon Valley Communications 11th Annual 2015 Info Security Products Guide **Grand Trophy**, a recognition that is among the most coveted within the information security industry.

Network Box also walked away with **Three Gold** Global Excellence Awards, for *Network Box 5*, in the categories of *Security Products and Solutions for Small Businesses and SOHO*; *Education*; and *Retail*.



## International Events and Exhibitions

Network Box has showcased patented technologies, at key industry events, in the USA, UK, Germany, the Middle East, Singapore, China, Taiwan, Malaysia, Hong Kong, Thailand, and New Zealand.

### Network Box Germany IT-SA 2015

Network Box Germany participated at IT-SA 2015, the largest IT Security Exhibition and Conference in the German speaking world, and certainly one of the most important IT Security Events anywhere across the globe.



### Network Box Thailand RetailEX ASEAN 2015

Network Box Thailand exhibited at the RetailEX ASEAN 2015 expo, held at the IMPACT Exhibition & Convention Center, Bangkok. During the expo, Network Box Thailand's Director, Andrew MacGregor, gave a talk titled, 'The Vulnerability of Everything,' which highlighted the security flaws and vulnerabilities found in most web facing smart devices.



### Network Box Singapore RSA Conference 2015

Network Box Singapore exhibited at the RSA Conference 2015. Visitors were introduced to Network Box's multi-award winning cyber security systems and technologies; and the virtues of businesses to out source their security to MSSPs to monitor, manage and protect their network 24x7x365.



### Network Box 5.3 Global Launch Event

The Network Box 5.3 launch event was held on the 102nd floor of the Ritz-Carlton Hotel, at the amazing Michelin Starred TOSCA restaurant. The new platform's key features were presented to the 130 VIP guests that attended, a number of which flew half-way around the world specifically to be at the landmark event.



# Network Box 5

## NEXT GENERATION MANAGED SECURITY

On Tuesday, 5th January 2016, Network Box will release our patch Tuesday set of enhancements and fixes. This month, the regional SOC's will be conducting the rollouts of the new functionality in a phased manner over the next 14 days.

### Network Box 5 Features January 2016

This month, for Network Box 5, these include:

- Improvements to listener shutdown (on service restart) for high workload boxes
- Improvements to error message display on configuration pages of admin web interface
- Enhancements to minimise memory consumption during mail scanning
- Incremental memory, performance, and reliability improvements in IDS/IPS engine
- Fix for searching by 'others' entity, in web interfaces
- Enhanced support for syncing and backup of report schedules from box to SOC
- New KPI to track anti-spam effectiveness via spamtrap statistics
- Enhanced support for relay user with queuing mail server configurations
- Support new Singapore SOC IP addresses
- Minor fix for button alignment issues adter administrative account is removed
- Improvements to label display in pie charts on web portals
- ECDSA support added for SSH maintenance connections
- New GMS sensor for NBSCAN service
- Improvements to NBSCAN dispatcher to make it behave in a more round-robin manner
- Performance improvements related to upstream SMTP mail concentrators and RSET command handling
- Limit RBL checks for excessively long domain names
- OpenSSL: address issues in CVE-2015-1794 and CVE-2015-3193
- Enhanced support for virtual interfaces and DHCP relay
- Improvements to anti-malware engine and Z-SCAN zero day protection
- General performance and memory improvements in the proxy service

In most cases, the above changes should not impact running services or require a device restart. However, in some cases (depending on configuration), a device restart may be required. Your local SOC will contact you to arrange this if necessary.

Should you need any further information on any of the above, please contact your local SOC. They will be arranging deployment and liaison.

Network Box ISO 9001 / ISO 20000 / ISO 27001 certified Security Operations Centre, ensures that customers' networks are protected against cyber threats, 24x7x365.



## Network Box 3 Features

### January 2016

On Tuesday, 5th January 2015, Network Box will release our patch Tuesday set of enhancements and fixes. The regional SOCs will be conducting the rollouts of the new functionality in a phased manner over the next 7 days. This month, for Network Box 3, these include:

- Enhancements to Box Office and Response web sites
- Various (mostly internal) enhancements to several internal support systems

In most cases, the above changes should not impact running services or require a device restart. However, in some cases (depending on configuration), a device restart may be required. Your local SOC will contact you to arrange this if necessary.

## Network Box 5 - Double Win at the IT Pro Corporate Choice 2015 Awards



Network Box is very proud to announce that Network Box 5, won in both the Unified Threat Management, and the Managed Security Services categories, at the IT Pro Corporate Choice 2015 Awards.



Network Box General Manager, Marine Or, collected the trophies on behalf of the company at the awards ceremony, which took place at the Royal Plaza Hotel. The double win highlights Network Box's continued commitment to produce cutting edge cyber security technologies.



## Network Box Germany IT Security Day NRW 2015



Network Box Germany exhibited at IT Security Day NRW 2015. With keynote speeches, expert and non-expert forums, seminars and a trade exhibition, the Chamber of Commerce in North Rhine-Westphalia in Mönchengladbach.

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