

# Exhibit 8



# Juniper Sky Advanced Threat Prevention

## Product Overview

Sky Advanced Threat Prevention is a cloud-based service that provides complete advanced malware protection. Integrated with SRX Series Services Gateways, Sky Advanced Threat Prevention delivers a dynamic anti-malware solution that can adapt to an ever-changing threat landscape.

## Product Description

As malware evolves and becomes more sophisticated, it grows more difficult for conventional anti-malware products to effectively defend against these types of attacks. Juniper Networks® Sky Advanced Threat Prevention provides advanced anti-malware and anti-ransomware protection against sophisticated "zero-day" and unknown threats by monitoring ingress and egress network traffic looking for malware and other indicators of compromise. Using a pipeline of technologies in the cloud, Sky Advanced Threat Prevention delivers progressive verdicts that assess the risk level of each potential attack, providing a higher degree of accuracy in threat prevention. Hosted securely in the cloud, Sky Advanced Threat Prevention integrates with Juniper Networks SRX Series Services Gateways to deliver deep inspection, inline malware blocking, and actionable reporting.

Sky Advanced Threat Prevention's identification technology uses a range of techniques to quickly identify a threat and prevent an impending attack. These range from rapid cache lookups to identify known files to dynamic analysis using unique deception techniques applied in a sandbox environment to trick malware into activating and self-identifying. Patented machine learning algorithms allow Sky Advanced Threat Prevention to adapt and identify new malware in the ever-changing threat landscape. Both web- and e-mail-based attacks are defended, protecting the organization from the most prominent threat vectors.

Using evolving techniques that take into account multiple attributes and behaviors of large datasets, Sky Advanced Threat Prevention can also identify zero-day attacks and eliminate threats before an attacker infiltrates the network. Once identified, the malware's signature is recorded in the lookup cache and widely propagated to stop similar attacks in the future.

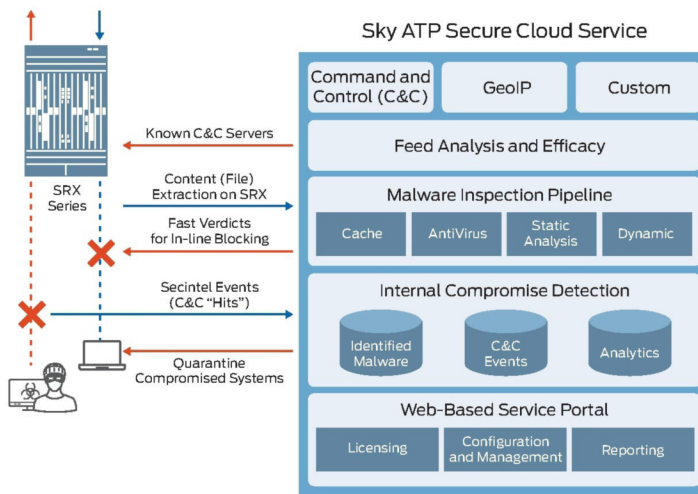


Figure 1: Juniper's Sky Advanced Threat Prevention solution.

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 NORTHERN DISTRICT OF CALIFORNIA  
**Trial Exhibit 382**  
 Case No. 17-CV-05659-WHA  
 Date Entered: \_\_\_\_\_ By: \_\_\_\_\_  
 Deputy Clerk



## Architecture and Key Components

Sky Advanced Threat Prevention leverages Juniper's next-generation SRX Series firewall platforms and a cloud-based service component for all management, configuration, and reporting.

Sky Advanced Threat Prevention's progressive pipeline analysis engine starts with a cache lookup against a database of known threats. This is accomplished in near real time and facilitates inline blocking of malicious content. Suspicious files are subjected to a series of deeper inspection steps that attempt to positively identify malware. Static analysis combined with processing through multiple antivirus engines attempts to identify the threat; if a file is identified as malware through analysis, its signature is added to the cache to ensure immediate identification of recurring threats in the future.

Finally, dynamic analysis is applied in a sandbox environment, where the threat is "detonated" and observed. Unique deception techniques are employed to elicit malware response and self-identification. Threats that slip by during the more extensive analysis stage are identified, logged, reported, and can be easily mitigated by security operations staff. Infected hosts are automatically isolated and blocked from outbound network access by delivering an "infected host" feed to the SRX Series device.

Sky Advanced Threat Prevention utilizes public cloud infrastructure to deliver a flexible and scalable solution. All communications between the SRX Series device and the cloud are secure, conducted over encrypted connections on both sides. Files uploaded to the cloud for processing are destroyed afterward to ensure privacy. A detailed description of the Sky Advanced Threat Prevention privacy policy, as well as the broader Juniper Networks privacy policy, can be found on the product web portal at <https://sky.junipersecurity.net/>.

## Features and Benefits

Integrating with next-generation SRX Series firewalls for detection and enforcement allows Sky Advanced Threat Prevention to provide dynamic, automated protection against known malware and advanced zero-day threats, resulting in nearly instantaneous threat responses.

Features and capabilities include:

- Windows 7, Windows 10, and Android operating system support
- Deep analysis and sandboxing support for multiple file types including executables, PDFs, MS Office files, archives, and Flash
- Support for HTTP, HTTPS, and SMTP protocols
- Comprehensive logging and integration with Juniper Secure Analytics (JSA) and IBM QRadar SIEMs allows rapid threat analysis and incident response

- Integration with Junos Space Security Director Version 16.1 simplifies security policy management and monitoring using an intuitive centralized interface
- Fast verdict capability that enables the SRX Series firewall to block malicious traffic in inline blocking mode
- Scalable secure cloud infrastructure that, when a threat is discovered, shares updates globally among customers in near real time to block additional attacks
- Patented pipeline of technologies to analyze sophisticated malware, "detonate" files in a controlled sandboxing environment, and identify zero day threats
- Comprehensive API support to programmatically deliver dynamic threat intelligence feeds and upload files for analysis
- Rich set of curated threat feeds to proactively block outbound command and control (C&C) communication
- Full-featured, web-based portal to provision, monitor, and manage services, as well as a rich set of reports and analytics to provide customers with deep visibility into threats and potentially compromised hosts
- Ability to upload suspicious files through the Web UI for processing
- Deep analytics that identify compromised systems; this information is propagated to SRX Series firewalls via infected host feeds to quarantine compromised systems in near-real time
- Inspection of all e-mail attachments for malware; Sky Advanced Threat Prevention supports the SMTP e-mail protocol\* and offers flexible policy enforcement options including quarantine and Tag-and-Deliver, while admin and end-user notifications ensure a full lifecycle workflow and superior user experience.
- Ability to track infected endpoints by MAC address and account for changing IP addresses using the Juniper Networks Policy Enforcer component (for more information, please read the [Policy Enforcer data sheet](#))

## Product Options

Sky Advanced Threat Prevention is available in two forms: Premium, which offers full advanced malware protection; and Basic, which provides threat feeds only. Customers who do not require full file-based advanced malware protection can purchase the Basic version to protect their organizations from botnets, command and control, phishing, and other attacks that can be addressed using threat intelligence feeds. Customers who want full protection from sophisticated malware, which requires content inspection, should purchase the Premium offering. The two versions are described in Table 1.

\* Note: E-mail (SMTP) scanning is only supported on the SRX1500, SRX5000 line, and SRX4000 line of Services Gateways at this time and requires Junos 15.1X49-D80 or higher releases.

Table 1: Sky Advanced Threat Prevention versions

	Basic (threat feeds only)	Premium
Core functionality	Command and Control, GeolP, and custom feeds; no file processing or advanced malware protection	Full functionality including advanced file processing for HTTP, HTTPS, and SMTP (e-mail) protocols; includes Command and Control, GeolP, and custom feeds
APIs	Threat Intelligence APIs only	All APIs including File/Hash
Infected host feed/endpoint quarantine	Not available	Included
Monitoring and management	Sky Advanced Threat Prevention web portal and Junos Space Security Director	Sky Advanced Threat Prevention web portal and Junos Space Security Director
Supported platforms	SRX340, SRX345, SRX550M, SRX1500, SRX4000 line, SRX5000 line, vSRX	SRX340, SRX345, SRX550M, SRX1500, SRX4000 line, SRX5000 line, vSRX
Supported versions	SRX340, SRX345, SRX550M, and vSRX: 15.1X49-D60 or later SRX1500: 15.1X49-D40 or later SRX5000 line: 15.1X49-D50 or later SRX4000 line: 15.1X49-D65 or later	SRX340, SRX345, SRX550M, and vSRX: 15.1X49-D60 or later SRX1500: 15.1X49-D40 or later SRX5000 line: 15.1X49-D50 or later SRX4000 line: 15.1X49-D65 or later
Licensing	Subscription: 1, 3, or 5 year	Subscription: 1, 3, or 5 year
Sample SKU naming convention	SRX1500-THRTFEED-1	SRX1500-ATP-1

A free version of Sky Advanced Threat Prevention is also available for existing customers of supported SRX Series devices with a valid software support contract. The free download supports executable processing and infected host feeds. To obtain the free Sky Advanced Threat Prevention download, visit <https://www.juniper.net/us/en/dm/free-sky-atp/>.

## SRX Series Platform Support

Sky Advanced Threat Prevention supports a variety of platforms. Table 2 summarizes the platforms supported and the minimum required Junos release.

Table 2: Sky Advanced Threat Prevention supported platforms

Platform	Supported Junos Release
SRX340, SRX345	15.1X49-D60 or later
SRX550M	15.1X49-D60 or later
SRX1500	15.1X49-D40 or later
SRX4000 line	15.1X49-D65 or later
SRX5000 line	15.1X49-D50 or later
vSRX	15.1X49-D60 or later

Please contact your Juniper sales representative for additional information.

## Ordering Information

### Basic Sky Advanced Threat Prevention (Threat Feeds Only)

Product Number	Description
SRX340-THRTFEED-1	One Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX340
SRX340-THRTFEED-3	Three Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX340
SRX340-THRTFEED-5	Five Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX340

Product Number	Description
SRX345-THRTFEED-1	One Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX345
SRX345-THRTFEED-3	Three Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX345
SRX345-THRTFEED-5	Five Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX345
SRX550-THRTFEED-1	One Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX550M
SRX550-THRTFEED-3	Three Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX550M
SRX550-THRTFEED-5	Five Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX550M
SRX1500-THRTFEED-1	One Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX1500
SRX1500-THRTFEED-3	Three Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX1500
SRX1500-THRTFEED-5	Five Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX1500
SRX4100-THRTFEED-1	One Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX4100
SRX4100-THRTFEED-3	Three Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX4100
SRX4100-THRTFEED-5	Five Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX4100

Product Number	Description	Product Number	Description
SRX4200-THRTFEED-3	Three Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX4200	VSRX1GTHRTFEED-1	One Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on vSRX 1Gbps
SRX4200-THRTFEED-5	Five Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX4200	VSRX1GTHRTFEED-3	Three Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on vSRX 1Gbps
SRX5400-THRTFEED-1	One Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX5400	VSRX1GTHRTFEED-5	Five Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on vSRX 1Gbps
SRX5400-THRTFEED-3	Three Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX5400	VSRX2GTHRTFEED-1	One Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on vSRX 2Gbps
SRX5400-THRTFEED-5	Five Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX5400	VSRX2GTHRTFEED-3	Three Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on vSRX 2Gbps
SRX5600-THRTFEED-1	One Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX5600	VSRX2GTHRTFEED-5	Five Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on vSRX 2Gbps
SRX5600-THRTFEED-3	Three Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX5600	VSRX4GTHRTFEED-1	One Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on vSRX 4Gbps
SRX5600-THRTFEED-5	Five Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX5600	VSRX4GTHRTFEED-3	Three Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on vSRX 4Gbps
SRX5800-THRTFEED-1	One Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX5800	VSRX4GTHRTFEED-5	Five Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on vSRX 4Gbps
SRX5800-THRTFEED-3	Three Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX5800	<b>Premium Sky Advanced Threat Prevention</b>	
SRX5800-THRTFEED-5	Five Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on SRX5800	SRX340-ATP-1	One Year Subscription for Sky Advanced Threat Prevention on SRX340
VSRX10MTHRTFEED-1	One Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on vSRX 10Mbps	SRX340-ATP-3	Three Year Subscription for Sky Advanced Threat Prevention on SRX340
VSRX10MTHRTFEED-3	Three Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on vSRX 10Mbps	SRX340-ATP-5	Five Year Subscription for Sky Advanced Threat Prevention on SRX340
VSRX10MTHRTFEED-5	Five Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on vSRX 10Mbps	SRX345-ATP-1	One Year Subscription for Sky Advanced Threat Prevention on SRX345
VSRX100MTHRTFEED-1	One Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on vSRX 100Mbps	SRX345-ATP-3	Three Year Subscription for Sky Advanced Threat Prevention on SRX345
VSRX100MTHRTFEED-3	Three Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on vSRX 100Mbps	SRX345-ATP-5	Five Year Subscription for Sky Advanced Threat Prevention on SRX345
VSRX100MTHRTFEED-5	Five Year Subscription for Sky Advanced Threat Prevention Threat Intelligence Feeds only (no file processing) on vSRX 100Mbps	SRX550-ATP-1	One Year Subscription for Sky Advanced Threat Prevention on SRX550M
		SRX550-ATP-3	Three Year Subscription for Sky Advanced Threat Prevention on SRX550M
		SRX550-ATP-5	Five Year Subscription for Sky Advanced Threat Prevention on SRX550M
		SRX1500-ATP-1	One Year Subscription for Sky Advanced Threat Prevention on SRX1500
		SRX1500-ATP-3	Three Year Subscription for Sky Advanced Threat Prevention on SRX1500
		SRX1500-ATP-5	Five Year Subscription for Sky Advanced Threat Prevention on SRX1500
		SRX4100-ATP-1	One Year Subscription for Sky Advanced Threat Prevention on SRX4100

Product Number	Description	Product Number	Description
SRX4100-ATP-3	Three Year Subscription for Sky Advanced Threat Prevention on SRX4100	VSRX-1G-ATP-1	One Year Subscription for Sky Advanced Threat Prevention on 1Gbps vSRX
SRX4100-ATP-5	Five Year Subscription for Sky Advanced Threat Prevention on SRX4100	VSRX-1G-ATP-3	Three Year Subscription for Sky Advanced Threat Prevention on 1Gbps vSRX
SRX4200-ATP-1	One Year Subscription for Sky Advanced Threat Prevention on SRX4200	VSRX-1G-ATP-5	Five Year Subscription for Sky Advanced Threat Prevention on 1Gbps vSRX
SRX4200-ATP-3	Three Year Subscription for Sky Advanced Threat Prevention on SRX4200	VSRX-2G-ATP-1	One Year Subscription for Sky Advanced Threat Prevention on 2Gbps vSRX
SRX4200-ATP-5	Five Year Subscription for Sky Advanced Threat Prevention on SRX4200	VSRX-2G-ATP-3	Three Year Subscription for Sky Advanced Threat Prevention on 2Gbps vSRX
SRX5400-ATP-1	One Year Subscription for Sky Advanced Threat Prevention on SRX5400	VSRX-2G-ATP-5	Five Year Subscription for Sky Advanced Threat Prevention on 2Gbps vSRX
SRX5400-ATP-3	Three Year Subscription for Sky Advanced Threat Prevention on SRX5400	VSRX-4G-ATP-1	One Year Subscription for Sky Advanced Threat Prevention on 4Gbps vSRX
SRX5400-ATP-5	Five Year Subscription for Sky Advanced Threat Prevention on SRX5400	VSRX-4G-ATP-3	Three Year Subscription for Sky Advanced Threat Prevention on 4Gbps vSRX
SRX5600-ATP-1	One Year Subscription for Sky Advanced Threat Prevention on SRX5600	VSRX-4G-ATP-5	Five Year Subscription for Sky Advanced Threat Prevention on 4Gbps vSRX
SRX5600-ATP-3	Three Year Subscription for Sky Advanced Threat Prevention on SRX5600		
SRX5600-ATP-5	Five Year Subscription for Sky Advanced Threat Prevention on SRX5600		
SRX5800-ATP-1	One Year Subscription for Sky Advanced Threat Prevention on SRX5800		
SRX5800-ATP-3	Three Year Subscription for Sky Advanced Threat Prevention on SRX5800		
SRX5800-ATP-5	Five Year Subscription for Sky Advanced Threat Prevention on SRX5800		
VSRX-10M-ATP-1	One Year Subscription for Sky Advanced Threat Prevention on 10Mbps vSRX		
VSRX-10M-ATP-3	Three Year Subscription for Sky Advanced Threat Prevention on 10Mbps vSRX		
VSRX-10M-ATP-5	Five Year Subscription for Sky Advanced Threat Prevention on 10Mbps vSRX		
VSRX-100M-ATP-1	One Year Subscription for Sky Advanced Threat Prevention on 100Mbps vSRX		
VSRX-100M-ATP-3	Three Year Subscription for Sky Advanced Threat Prevention on 100Mbps vSRX		

**Note:**  
Sky Advanced Threat Prevention requires the AppSecure functionality to be available. In addition to the standalone Sky Advanced Threat Prevention license, individual SRX Series platforms might require additional licenses as described below.

- On the SRX550M, SRX5000, and vSRX platforms, the AppSecure license is available for purchase a la carte or through a bundle SKU that includes the license.
- The SRX340 and SRX345 are available with a JSE bundle that includes AppSecure. AppSecure can also be purchased a la carte if JSE is not purchased.
- On the SRX4000 platforms, the JSE software bundle includes a license for AppSecure.
- The SRX1500 requires a mandatory purchase of the JSE bundle, which includes the AppSecure license. Consequently, the standalone Sky ATP license will suffice.

## About Juniper Networks

Juniper Networks challenges the status quo with products, solutions and services that transform the economics of networking. Our team co-innovates with customers and partners to deliver automated, scalable and secure networks with agility, performance and value. Additional information can be found at [Juniper Networks](#) or connect with Juniper on [Twitter](#) and [Facebook](#).

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