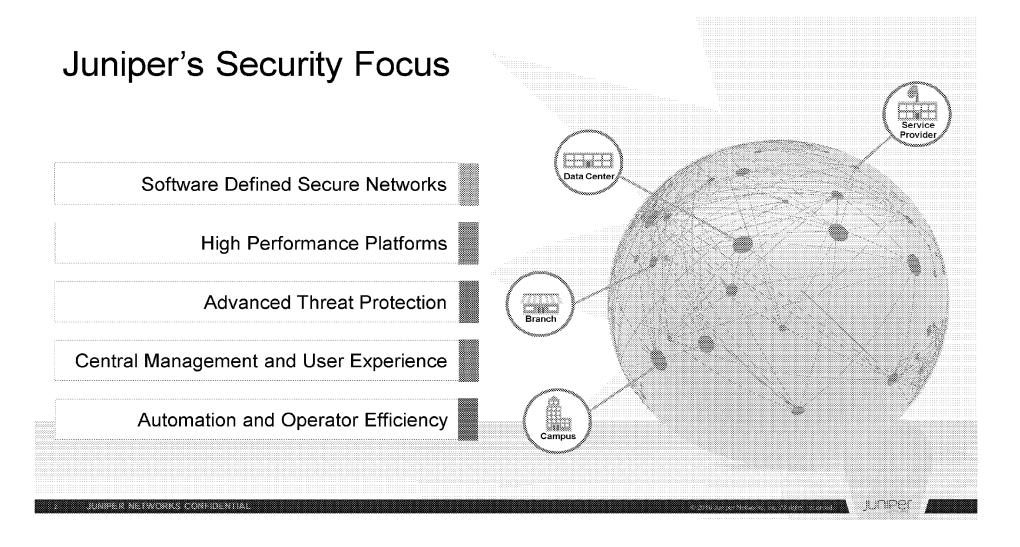
## **EXHIBIT 14**

# UNREDACTED VERSION OF DOCUMENT SOUGHT TO BE SEALED



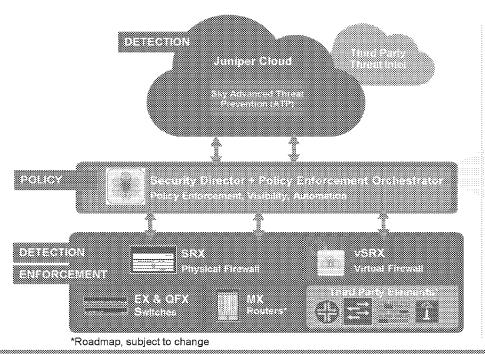
HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

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Software Defined Secure Networks (SDSN)

**Unified Security Platform** 



#### Detection

- Fast, effective protection from advanced threats
- Integrated threat intelligence

#### **Policy**

- Adaptive enforcement to firewalls, switches, 3rd party devices and routers
- Robust visibility and management

#### **Enforcement**

- Consistent protection across physical/virtual
- Open and programmable environment

Network as a single enforcement domain - Every element is a policy enforcement point

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## Threats are Everywhere

Perimeter security isn't enough.
Malware walks in with your employee!
Stop Threats. Faster.



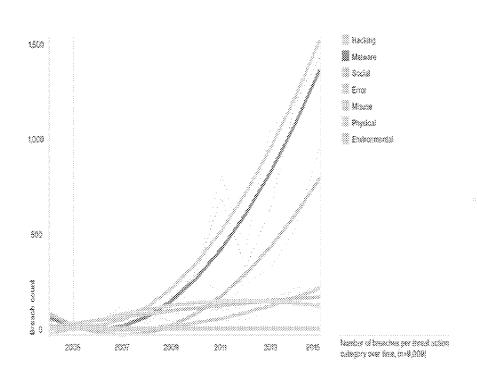
Outside your network, inside your network and between endpoints and the cloud apps your employees use. It's a zero trust world. (Zero trust can be the only security posture.)

Threats have changed. From phishing, anti-malware, and morphing executables to security hackers who infiltrate Enterprises to retrieve data for financial gain. The attacks are targeted, focused and use advanced persistent threats. And today, these attackers have the advantage of time on their side. Enterprises have the disadvantage of the complexity of their networks as well as organizational complexity working against them.

Attackers are also are increasingly able to socially engineer their way into your internal network. The variability of threats range from large, organized and systematic attacks to employees of a company who may have accessed public Wi-Fi or inadvertently clicked on the wrong link and as a result is now unknowingly infected with malware. They then spread the threat as their device connects directly within the network. The best (and only) security approach has to assume that threats are already inside your enterprise perimeter. And it must assume that new types of threats will pop up every day, which means your security approach needs to be more agile than ever and more decisive once a breach is found.

Security used to only need to be at the edge of your network. Now you have to secure at every point of access in your network, because it's not just the intruder trying to break in. The threat can now be your employee who has walked through your front door with malware on their device or an employee who was developing in a container and accidentally copied malware into his code. (And with the proliferation of BYOD and IoT, trying to secure endpoints is nearly impossible) Enterprise security posture today requires zero trust of anything entering or leaving the network.

## Malware continues to dominate



industry	Total	Small	Large	Unknown
Accommodation (71)	282	198	16	1595
Administrative (56)	3.8	8	2	较
Agriculture (11)		Ş	9	
Construction (23)	4	٥	ţ	3
Educational (6:)	29	3	*	
Entertainment (75	98	18	1	19
Finance (53)	798	14	94	687
Healthcare (63)	115	18	20	77
information (89)	194	12	12	170
Management (55)	0	٥	ē	0
Manufacturing (SE-33)	37	5	33	21
Mining (25	7	Ω	ß	1
Other Services (49)		8	2	Ž.
Professional (S4)	53	16	å.	39
Public (92)	796	4	122	87
Real Estate (%3)		3	ō	2
Retail (24-35)	137	36	12	29
Trade (18)	4	2	2	9
Transportation (48-49)	35		3	
Utilities (23)		۵	ø	Ÿ
Unkness	270	109		:83
Total	2,280	447	312	15G3

Small = organizations with fewer than 1,000 employees, Large = organizations with 1,000 smployees.

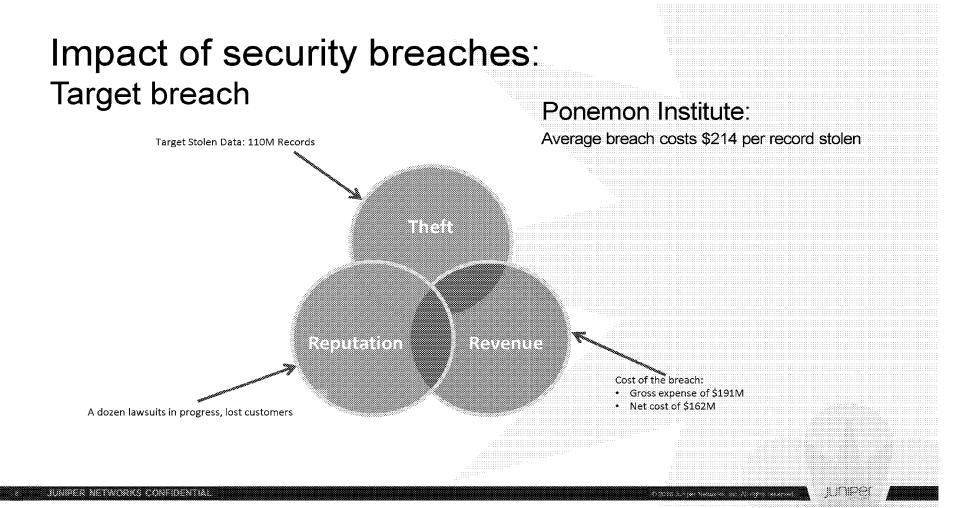
filamber of eventhy incidents with confirmed data has by victim industry and organization onto; 2016 colorest

Source: Verizon DBIR 2016 report

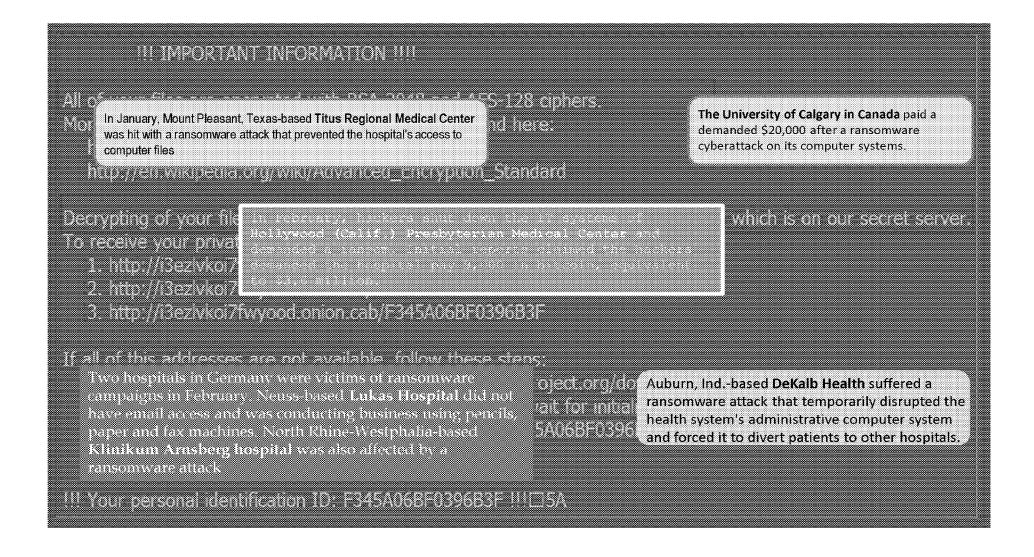
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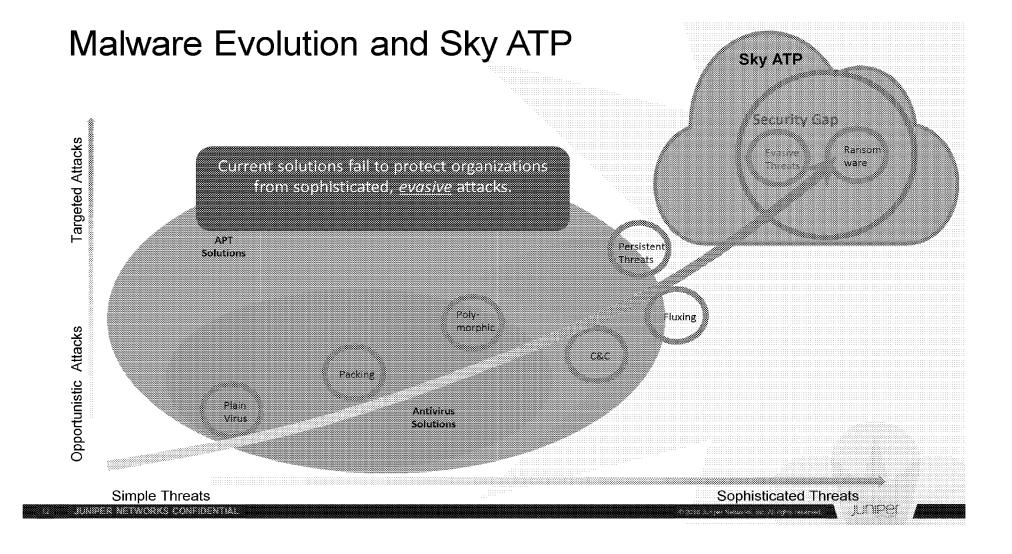
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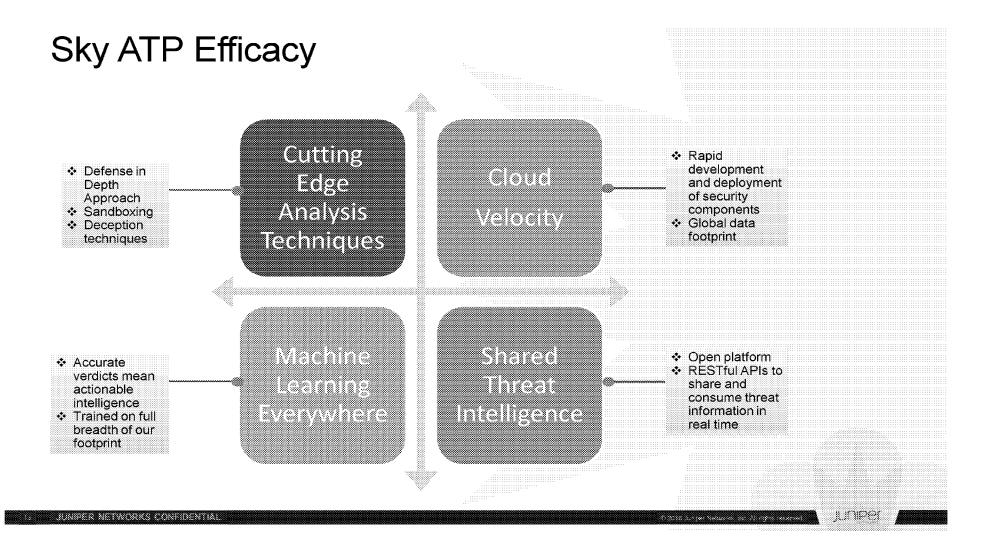
ji ji MPH



While the monetary cost of a breach is relatively easy to calculate the cost in reputation and public trust can be much greater, as well as more difficult to estimate. Several organizations have been target more than once, with huge costs in both financial and more ephemeral terms.







# What is Sky Advanced Threat Prevention



# Sky ATP Threat Intelligence Feeds Reputation based Commandand Control (CC) reeds GeolPieeds Cusion Feeds

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### Command and Control feeds

Derived from a global sensor network and malware sandnet

50 to 100k domain names and 350 to 500k IPs

13 different categories including Command and Control (CC). Drop sites, Spyware sites, P2P CC, Bitcoin related, ToR nodes, AbusedTLD

Separate lists for IPs, URLs (FQDNs supported too)

Updated in real-time and aggressively aged to reflect current conditions. Over 30% turned over every 3-4 weeks

Threat scores (1->10). Scores driven by both volume and type of activity

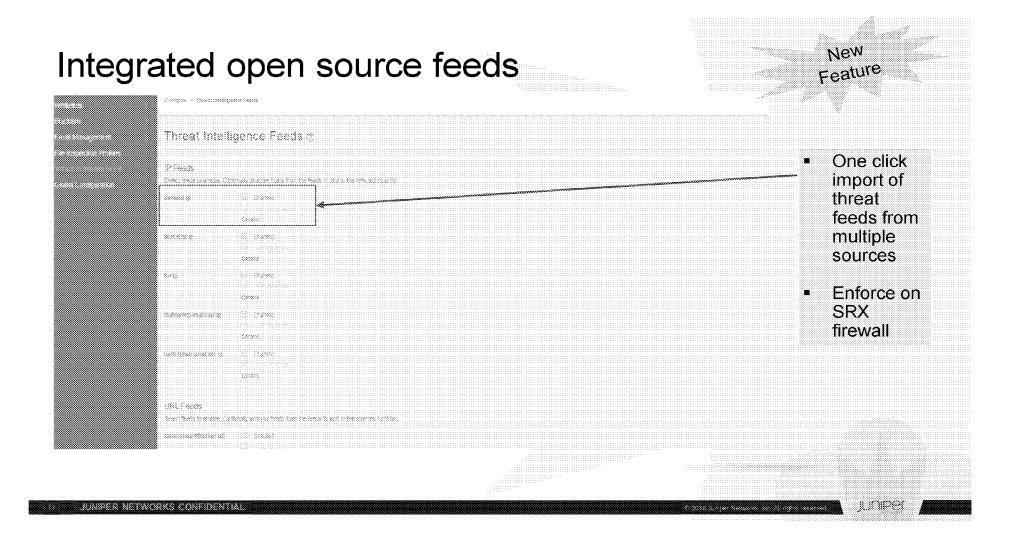
Data is based on multiple commercial sources as well as proprietary Juniper Sky ATP intelligence (we don't use open source data sources)

Data quality is enhanced using additional network intelligence done by Juniper and a machine learning backend rescores all entries continually

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# Sky ATP Highlights

## Telefinies

Zaminica.	Supported elements			
Platforms	SRX340,SRX345,SRX550M,v SRX,SRX1500,SRX4000,SRX5 000			
Protocols	HTTP, HTTPs, Email - SMTP(s)			
Sandbox operating Systems	Win 7,Win 10,Android			
File Types	Executables, PDF, MSOffice, Archives, Java, Flash, DLLs, Media, etc.			

Sky ATP follows a 'FREEMIUM' pricing model

	77.5	PREMIUM
Licensing	No license reqd. Available to all customers with a valid support contract.	1 YR, 3YR,5YR subscription license
File Types	Executables only	All supported file types
Feeds	Infected Host (Sky ATP generated)	C&C, GeoIP, Infected Host

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# Licensing Model

- Sky ATP offers a "Freemium" model i.e. limited features for 'FREE', charge for other features
- 1YR,3YR and 5YR software subscription SKUs

#### 

- Available on any SRX – valid support contract reqd.
- Processes executable file type only
- No threat feeds

#### 

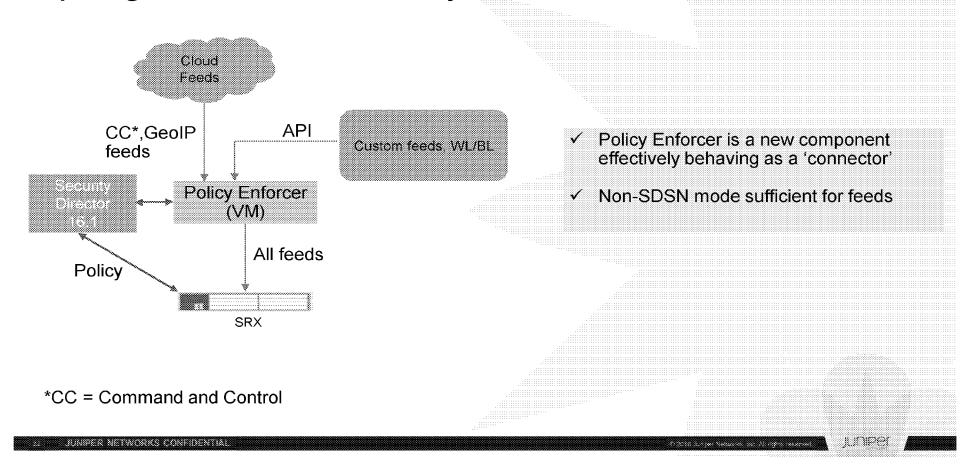
- Threat Feeds (CC, GeoIP, custom) included
- Limited APIs
- No anti-malware protection (executables are processed)

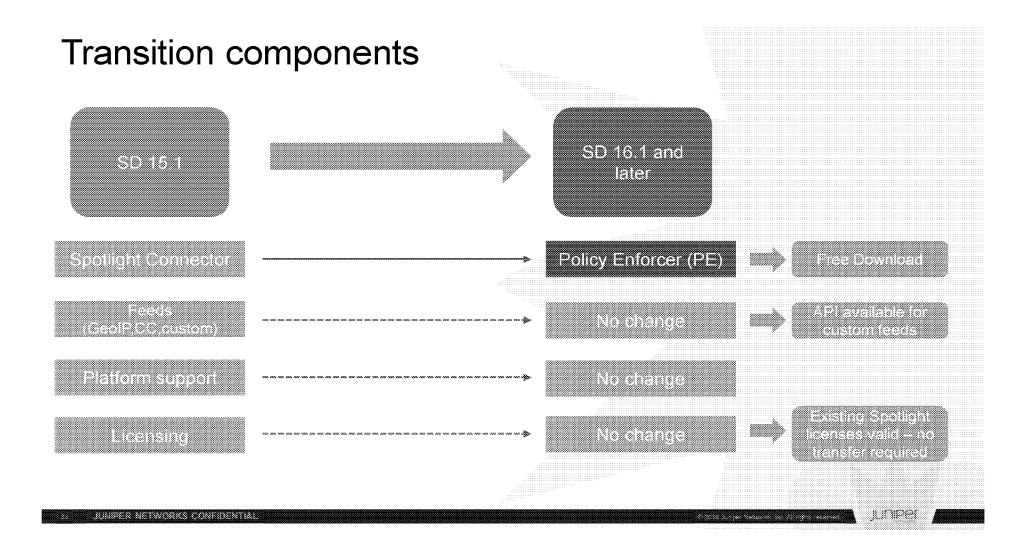
#### PERMIT

- Full antimalware protection – all supported file types
- Threat Feeds included
- All APIs included
- Infected host feed included



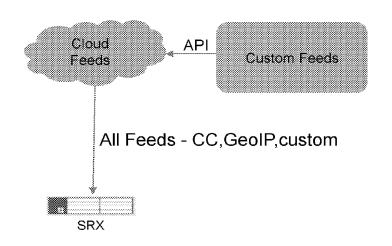
# Spotlight Secure – Security Director 16.1

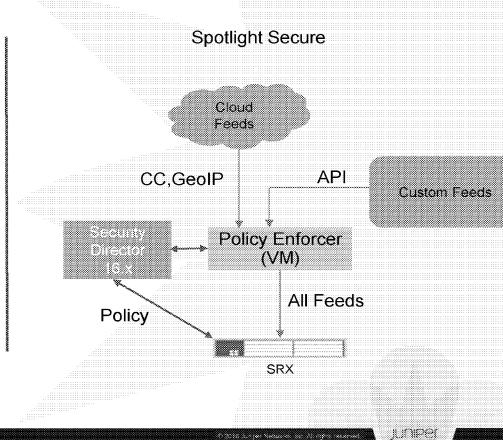




# Threat Feeds deployment models

Sky ATP 'Basic' Feed-only mode

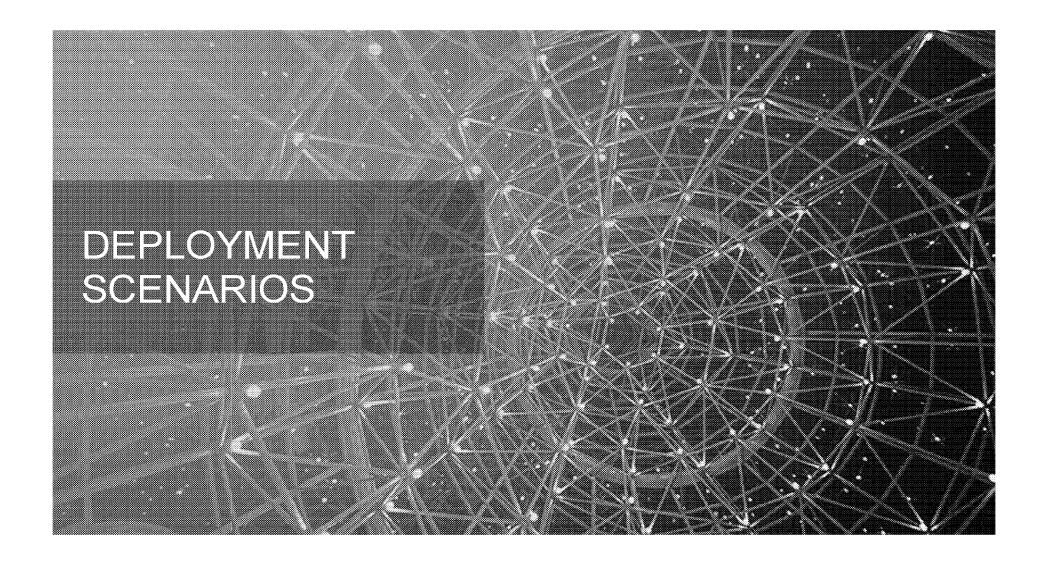




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# Spotlight vs Threat Feed vs Sky ATP

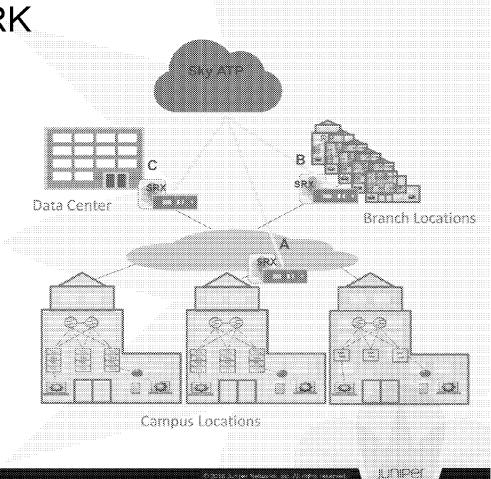
	Secretaria de la composición del composición de la composición de	Signatura de la composição	Sky ATP Eremiern	7
CC, Geo IP feeds	✓	✓	<b>✓</b>	
Malware detection	×	×	✓ · · · · · · · · · · · · · · · · · · ·	— Functionality
Infected Host Feed	×	×	✓	J
SDSN Policy Enforcer reqd.	✓	×	×	— Deployment
Legacy platforms supported	<b>✓</b>	×	×	Licensing
License example	SPOT-CC-1500-1	SRX1500-THRTFEED-1	SRX1500-ATP-1	Juneer A



## PLACES IN THE NETWORK

Use cases across the deployment spectrum of SRX

- A. Campus Edge Firewall
  - Protection of end user devices from files downloaded from the Internet
- **B.** Branch Router
  - Protection for split-tunnel deployments
- C. Data Center Edge
  - Application protection from infected files



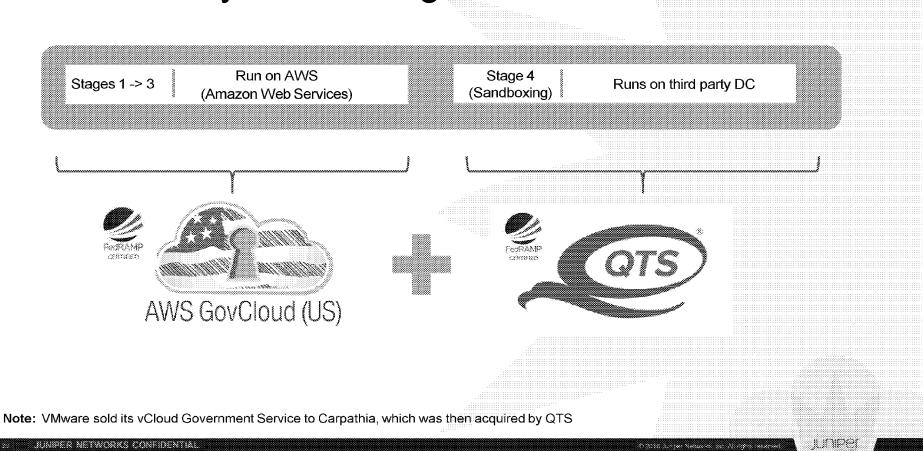
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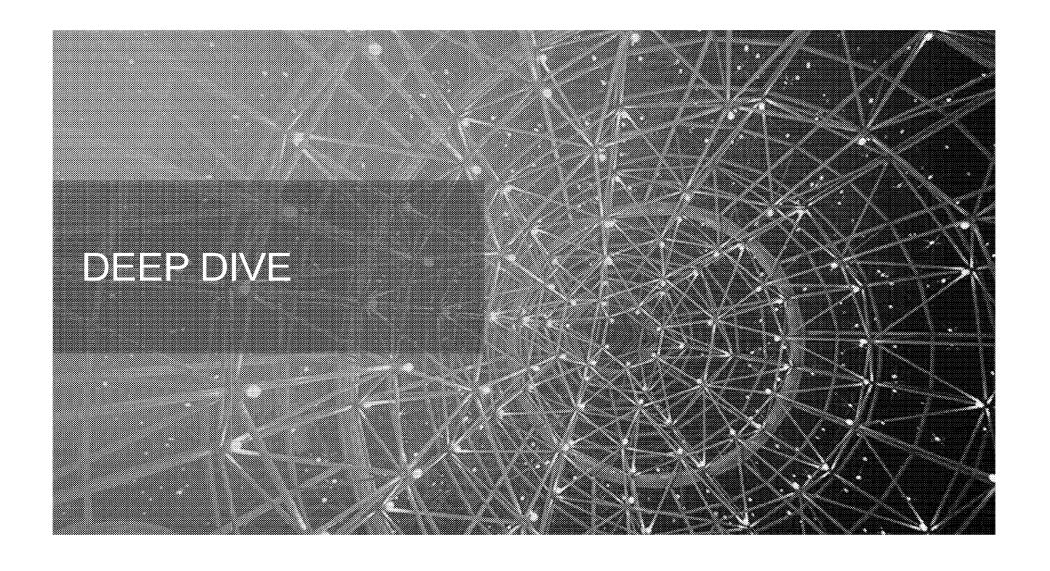
# FedRAMP: Sky ATP Cloud for US Federal/DoD

- ☐ FedRAMP = Federal Risk and Authorization Management Program
- □ Applicable to Cloud based services part of the "Cloud-first" initiative announced in Dec. 2010
- CSPs undergo an extensive certification process to become FedRAMP certified: One of the most in-depth compliance exercise any organization can attempt
- □ Prior to FedRAMP, every Federal agency conducted its own risk assessment service for every procured Cloud service: resulted in redundancy
- ☐ CSPs that complete a FedRAMP assessment obtain an ATO (Authority to Operate) i.e. becomes eligible for procurement by Federal agency

C2016 https://www.com/sc/2016/freesessed

# FedRAMP: Sky ATP offering





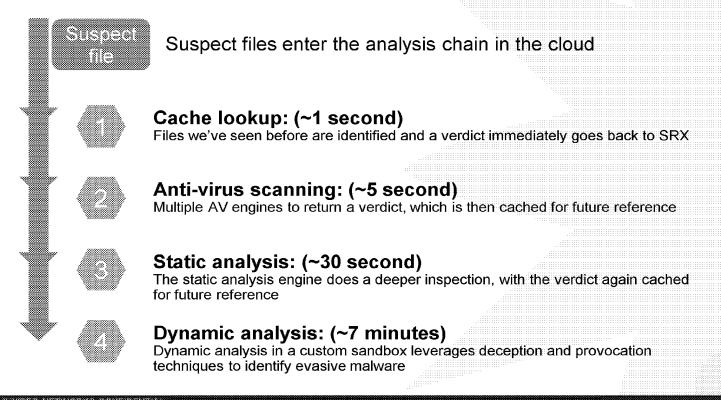
#### Sky ATP architecture Sky ATP Secure Cloud Service Command and GeoIP Custom SRX Series Control (C&C) Known C&C Servers Feed Analysis and Efficacy Content (File) Extraction on SRX Malware Inspection Pipeline Fast Verdicts for In-line Blocking Secintel Events (C&C "Hits") Internal Compromise Detection Quarantine Compromised Systems Web-based Service Portal

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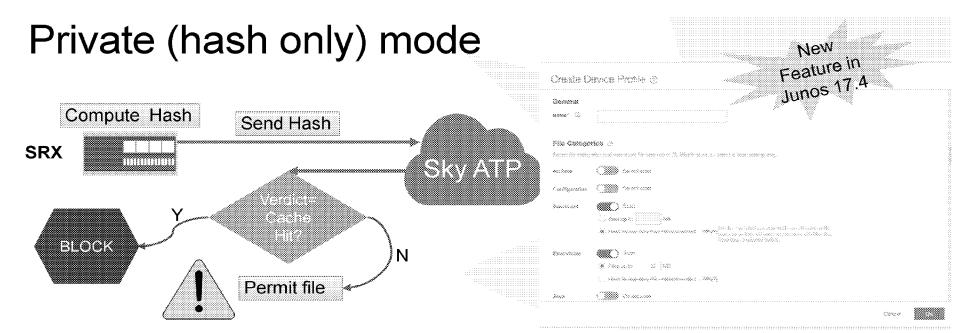
### The ATP verdict chain

Staged analysis: combining rapid response and deep analysis



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COSTS has per Networks and All English received.



- Mitigate privacy concerns protection level tradeoff. Position in RFPs
- No cache store/lookup on SRX being evaluated
- Configurable by File Category
- HTTP 206 (Partial-Content) not supported SRX cannot use disk to store file segments

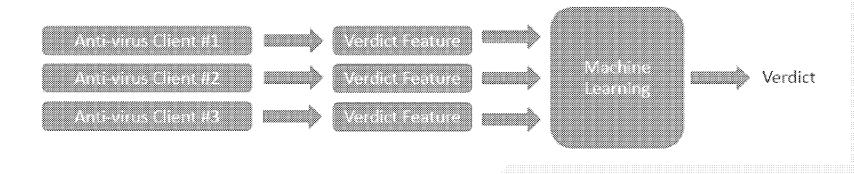
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#### Anti-Virus: First Pass

- Overcoming False Positives (FP) and False Negatives (FN)
  - Use multiple AV engines
  - · Combine with Machine Learning



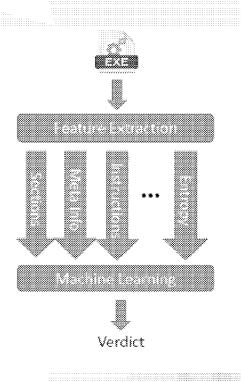
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## Static Analysis: Pulling apart the code

- Break file down into features
  - File structure
  - Meta info (file name, vendor, etc...)
  - Categories of instructions used
  - File entropy
  - \* Etc...
- Feed features into machine learning algo
  - First teach it what malware looks like
  - Then ask if something is malware

Static analysis is traditionally done with rules. Argon extends this by adding machine learning to improve verdict accuracy.



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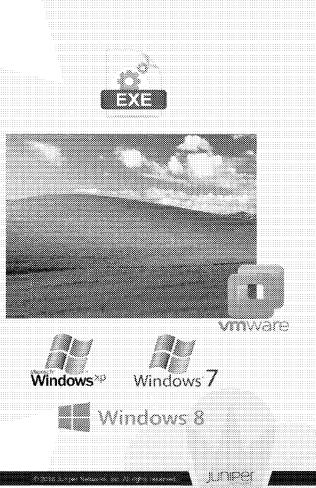
## Dynamic Analysis: Sandboxing

#### Inside a custom Sandbox environment

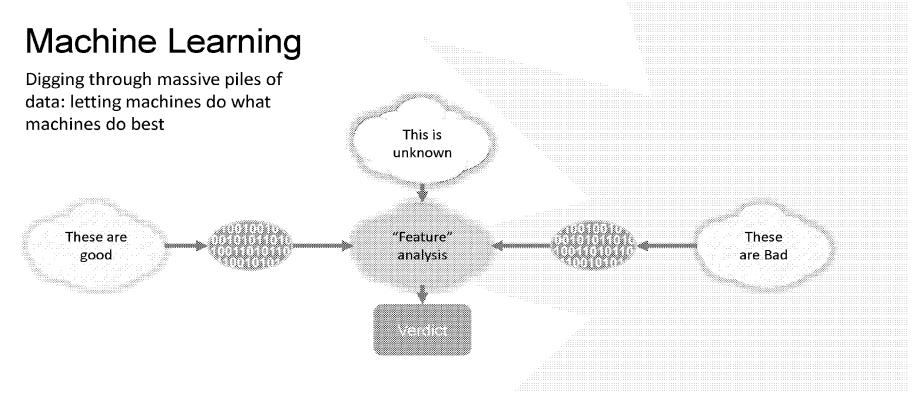
- · Spool up a live desktop
- · Hook into the OS to record everything
- Upload and execute the suspect file
- Apply Sky's Deception and Provocation Techniques
  - The full run takes approximately 7 minutes
- Download the activity recording for analysis
- Tear down the live desktop
- Generate a verdict with Machine Learning

Today: Windows 7, Android

Future: Windows 10, OSX, other.



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The final verdict is based on how much a new example resembles the known good or bad samples. By comparing many features across large data sets, we can deliver very accurate results.

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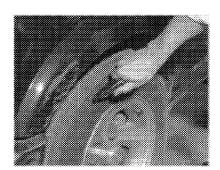
## **Speaker Notes for Slide 33**

## **Deception and Provocation**

#### Provocation

Provoking Malware.

- Attach debuggers
- Run malware multiple times
- · Actively interfere with malware operations
- · Actively interfere with network communications



Juniper's Sky Advanced Threat Prevention looks for over 300 different malware behaviors and includes over 50 different deception techniques to provoke malware into revealing itself.

**Deception**: Convince it it's on a valid target to get a reaction

**Provocation**: Poke it with a stick and see how it reacts

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## Sandboxing: Behavioral Analysis

- Allocate large chunks of memory
- Long sleep times
- Document exploit

- Launch processes in debugging mode
- Create mutex
- Drop PE

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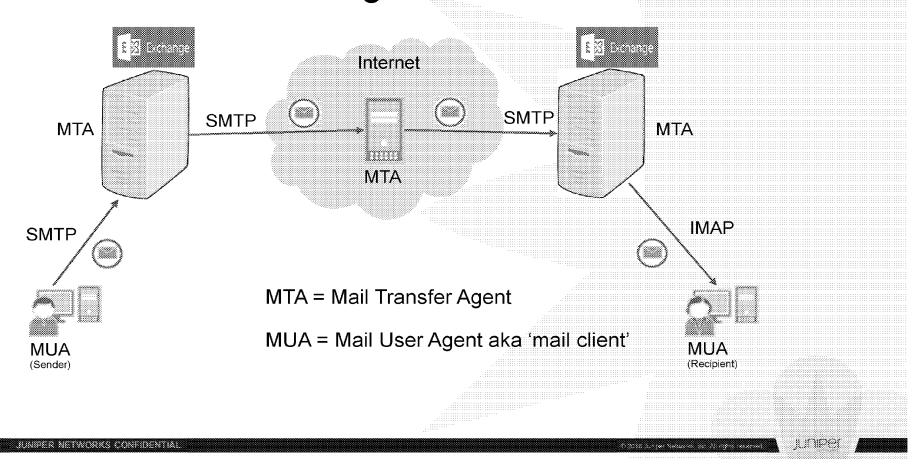
- Create temporary files
- Read ini files
- Create files in user directory

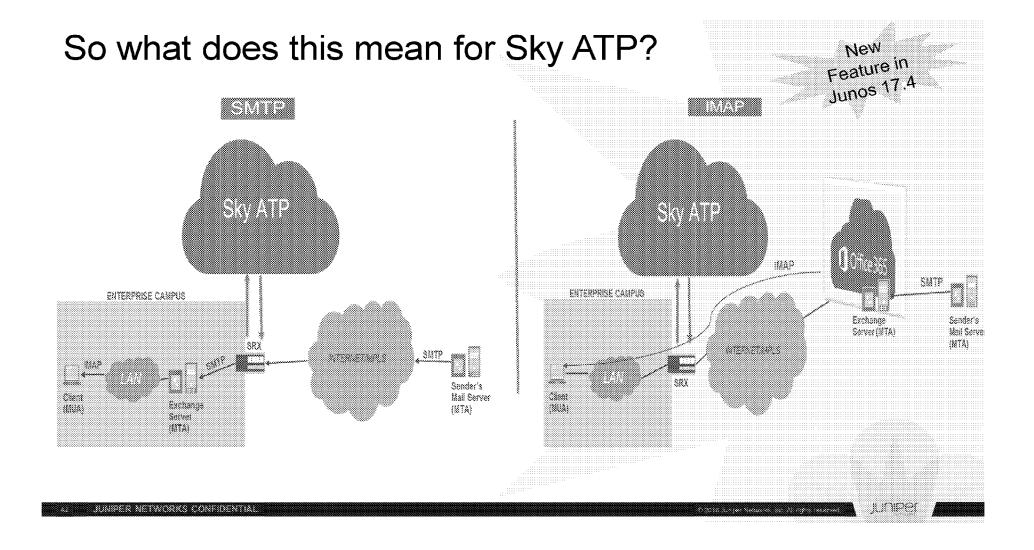
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## Email – how it comes together





## SMTP support – cheat sheet

- 15.1X49-D80 release. Supported platforms: SRX1500,SRX5K,SRX4K. Other platforms will be supported in 17.4
- SMTPs supported mid-session STARTTLS and implicit TLS
- Emails with malicious (based on cache check) attachments can be:
  - ✓ Quarantined replacement email sent to end user
  - √ Tag-and-deliver
    - X-Distribution, X-Spam-Flag, Subject line prefix
  - ✓ Permit
- Release options
  - Recipient can release (careful!)
  - Recipient can request Admin to release

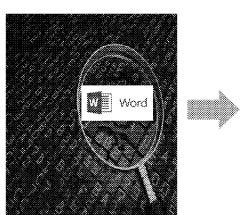
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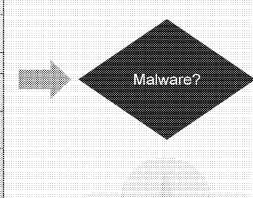


## Sky ATP in Action: Detecting Locky





Traits seen in 'Locky'	Good documents	Malicious documents
Document has macros	0.9%	84.4%
No title	6.6%	50,2%
Single paragraph document	7.5%	45.3%
Obfuscation function calls found	< 0.1%	39.6%
Code Page 1251 Windows Cyrillic (Slavic)	varies	27.6%

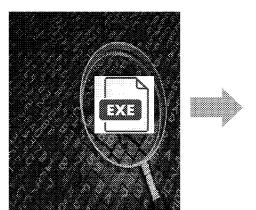


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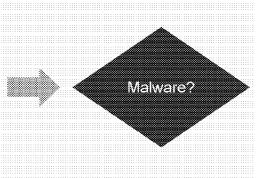
C2016 https://www.com/sc/2016pts/secured

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## Sky ATP in Action: Detecting Locky



Trait	Good applications	Malware
Accesses hosts file	21.8%	49.5%
DNS resolution	27.4%	50.4%
Excessive sleep calls	43.6%	67.1%
DNS resolution of many domain names with many failures	0.2%	12.2%
Generates new code (typically unpacking or expanding shellcode)	2.4%	9.7%
Posts data to a webserver	1.7%	3.9%
Creates PE files with a name already existing in Windows	< 0.1%	1.9%
System process connects to network	0.2%	1.1%

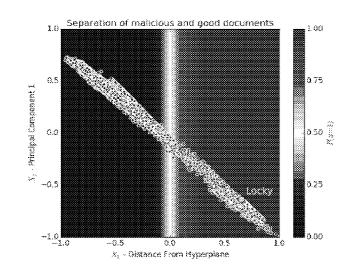


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## Sky ATP in Action: Detecting Locky

File	Feature	s Examined
Locky Word Doc	ument ~216,00	)0
Locky Executabl	e ~20,000	),000



C2016 Junjer Nebuck, pp. 50 representation

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## Sky ATP in Action: WannaCry

#### The origins

Exploits Windows SMB (Server Message Block) vulnerability

Vulnerability originally discovered by NSA and codenamed 'Eternal Blue'

NSA did not inform Microsoft (why bother right?) but was made public by Shadow Brokers dump leaking classified NSA tool kit

Following leak by Shadow Brokers, Microsoft issued patch (MS17-010) but patch application takes months, sometimes years

#### Threat vector

Possibly Email (phishing) or HTTP, not definitely known

#### Kill Switch

The malware starts by attempting to connect to: <a href="www.iuqerfsodp9ifjaposdfjhgosurijfaewrwergwea.com">www.iuqerfsodp9ifjaposdfjhgosurijfaewrwergwea.com</a> Aborts if attempt succeeds.

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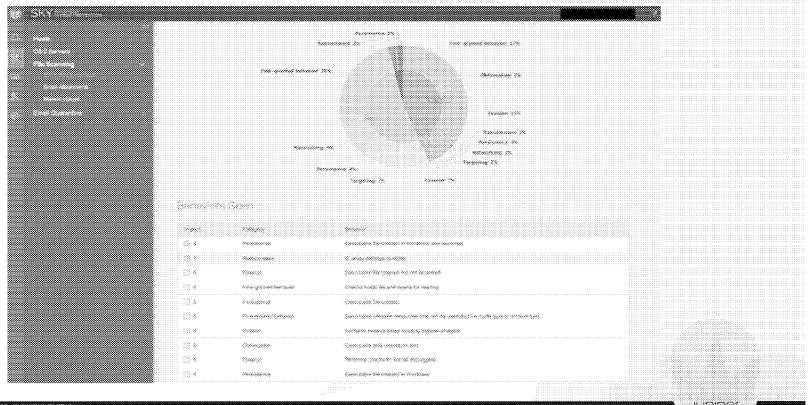
C2016 Junger Network in 19 higher received



## Sky ATP in Action: WannaCry mitigation

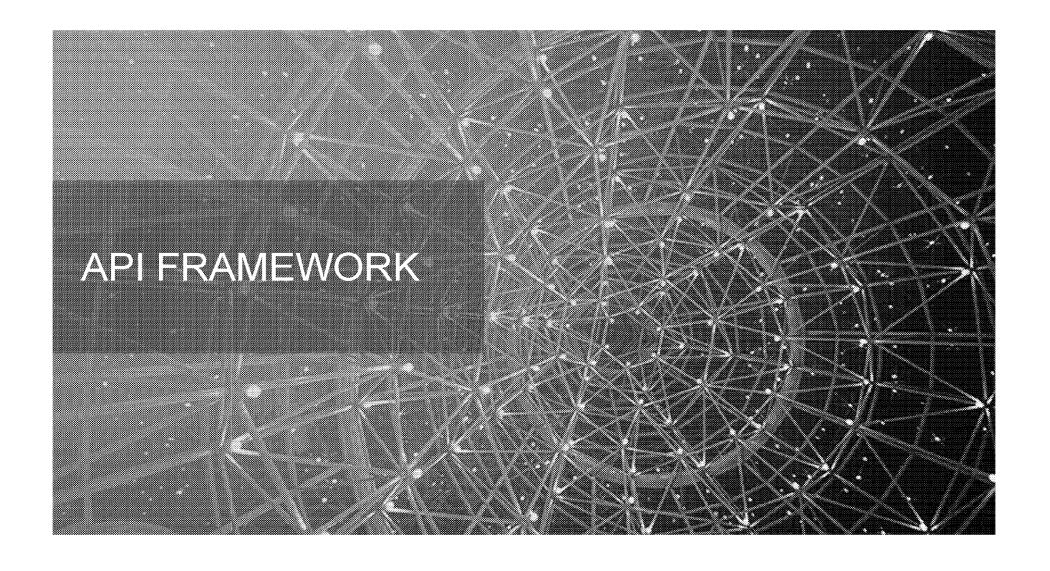


## Sky ATP in Action: WannaCry mitigation



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## Open API Framework

#### 

- Inject IP,URL or domain into CC feed
- •30 named feeds supported
- Whitelists/Blacklists supported – named IP/URLs

#### 

- Lookup samples by submitting hash
- Submit samples for analysis
- Optional parameter to obtain detailed report

## 

- •BL/WL already available on UI
- Programmatic way to update BL/WL
- No named option

#### 

Add/remove infected hosts

#### 

- Update IPFilter dynamic address objects to use in firewall policies as SRC/DST
- Named feeds supported

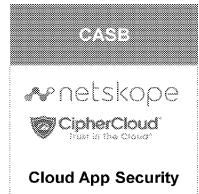
- □ RESTful API standard methods include POST,PATCH,GET,DELETE
- Supports a Swagger API specification in JSON format. APIs conform to a standard called the OpenAPI Initiative. Programmers can interact with both APIs using auto-generated code
- ☐ Application token required to interact generated per Sky ATP realm

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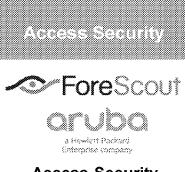
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New

## Juniper Security Alliances



- Cloud App risk mgmt.
- Visibility & Control
- Cloud malware & threat protection
- Extend security policy



- **Access Security**
- Context-Based
- BYOD Onboarding
- Role-based Network Access Assignment
- NAC / Access Policy Enforcement

## Endpoint Security



#### **Endpoint Protection**

- Continuous Policy Enforcement
- Discovery of all endpoints
- Vulnerability and Patch management

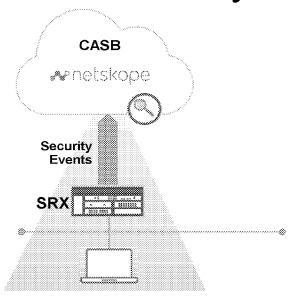
Ready to deploy comprehensive security solutions

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## Shadow IT Discovery



#### 00ន(00)[នុក្សដែលនៅស្រ

- Enter once distonners Will have Visibility to Gloud Applications

Use case Available Now

- SRX Pirewall sends syslog feed to Netskope Active Platform
- Netskope digests log information and provides visibility into Users. Applications and Compliance.

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## **Advanced Threat Protection**

# Send sile lesh Send sile lesh Send sile lesh Send sile lesh Juniper Sky ATP Advanced Malware Protection Compliance

#### **១**ខេត្តខាត់ និង្គមេរីសេ

- Threat Protection extended to Cloud Apps
- Advanced Malivare statement is Sky ATP
- Data Security extended to Cloud App.
- Entrares compliances on
   Considerate

Use case Available Now

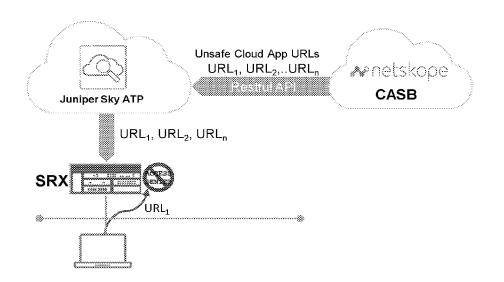
- Netskope will send File Hash to Sky ATP for malivare identification
- Sky ATP responds back to Netskope with appropriate verdict

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## Threat Intelligence Sharing



#### Onstoner Bareits

- Enhanced security through Cloud Threat Intelligence sharing
- SRX becomes Cloud App Aware
  and enforces policy control

Use case Available Now

- Netskopereeds this residence is
- SRX will block user access to destinations specified in URL feed

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## Threat Intel Sharing from SkyATP

## THREAT INTEL. FROM SKY ATP To Cb Threat Detected JUNIPER IOC Event Sky ATP API Sky ATP (STIX/TAXII) Carbon Black SRX Query End Point for Threats Protect & Remediate

#### 

Planning 40,2017

- Style Pishares Iou with Chikesponse
- Cb Response detects & reveals compromised endocints network-wide
- Operator or auto remediate action taken on andpoint using Cb Response

#### Benedic

- Secures the network from vulnerabilities and risks from Malware and Compromised Hosts
- Officis a highly simplified, scalable solution for large deployments

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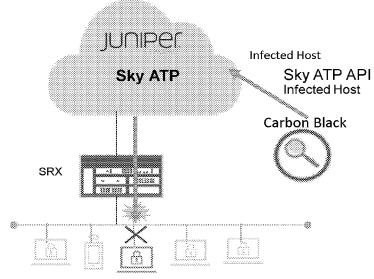
#### **Speaker Notes for Slide 52**

THREAT INTEL: FROM SKY ATP To Cb

10+ IOCs that include File Hash, File Name, IP address, malicious URLs & more API

## Infected Host Report from Endpoint

# INFECTED HOST INTEL: FROM Cb TO SKY ATP



#### Use esse verkilev

- Co Response & Co Defense observe malicious end point behavior send infected Host (Pladdress) to Sky ATP
- Sky ATP adds IP to infected Host list and communicates to SRX
- SRX blocks traffic from infected Host

#### # CANCALIC

Secures the network from vulnerabilities and risks from Compromised Hosts

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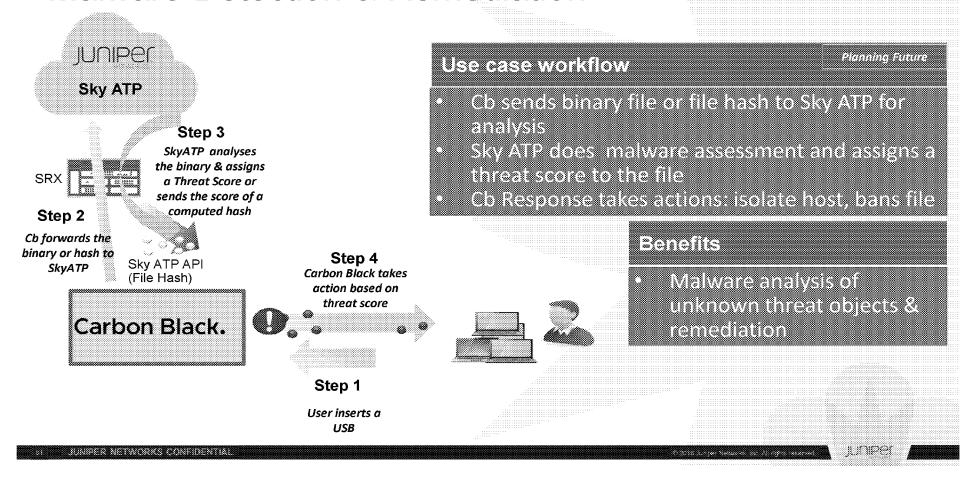
#### **Speaker Notes for Slide 53**

In this solution, we are receiving INFECTED HOST INTEL: FROM Cb TO SKY ATP

Note CB has near realtime capability of detecting infected end points.

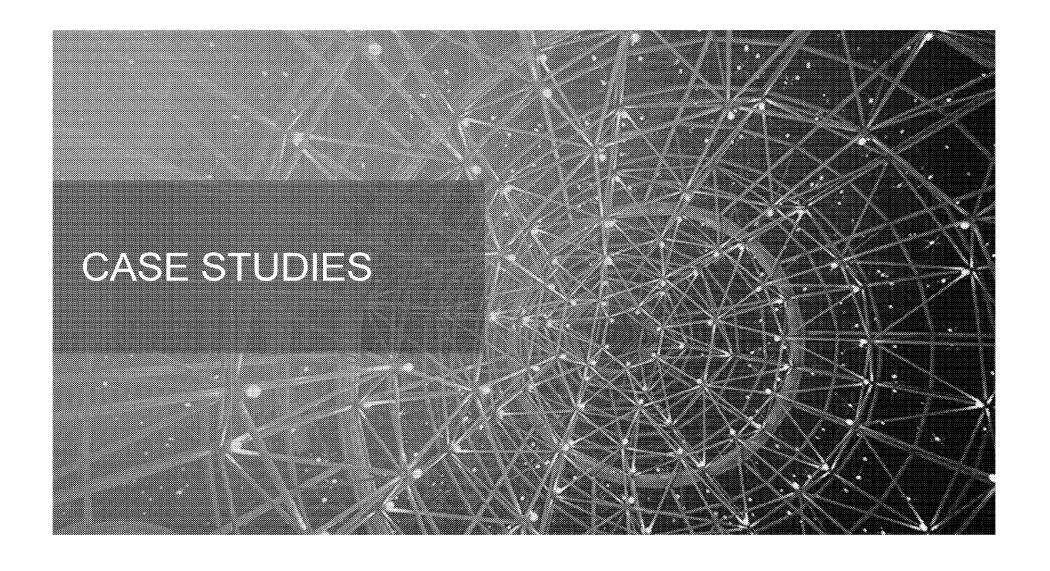
We are using Sky ATP API (RESTFul API) for IH

### Malware Detection & Remediation



#### **Speaker Notes for Slide 54**

Specially useful in the off-line devices, that go On-net and are infected.



## Case Study: Malware detection at scale

- Sky ATP deployed in TAP mode on SRX5600 by ISP in North America primarily serving educational institutions
- Ingress and egress traffic inspected. Inline blocking not enabled
- 7 day period in March 2017

535,302

55,629
Unique Files

142

Files Determined to be

69%

**Total Files Processed** 

Discovered Malware was Previously Known 31%

Discovered Malware was previously unseen

Outbound high risk CC connections: 843,346 (1 day)

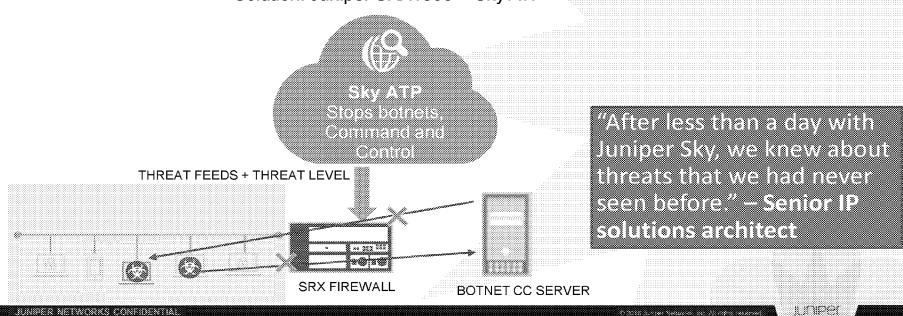
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## Case Study: Botnet detection with Sky ATP feeds

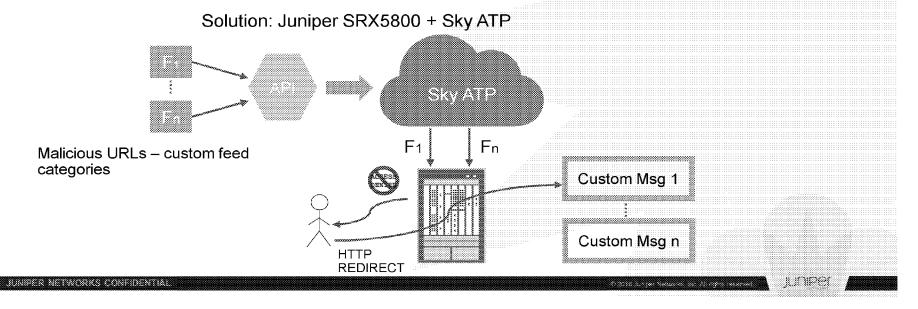
- Large IT consulting and managed IT service provider wanted a robust edge protection solution for its campus and branch offices
- Existing desktop and server based AV solutions not detecting advanced threats

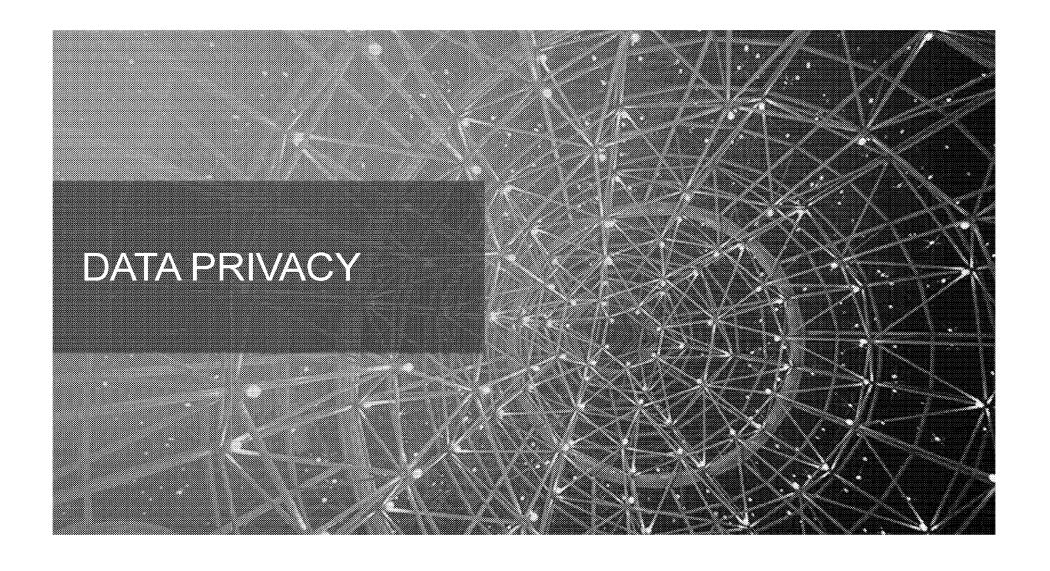
Solution: Juniper SRX1500 + Sky ATP



## Case Study: Automated enforcement with API

- Major Service Provider in LATAM has to comply with government regulations that require blocking access to questionable content – pedophile sites, gambling, etc.
- New sites/URLs constantly being added so needs dynamic programmatic solution to update firewalls. Also requires ability to redirect to web portals
- 40Gbps IMIX, 600K cps, 100-150M sessions



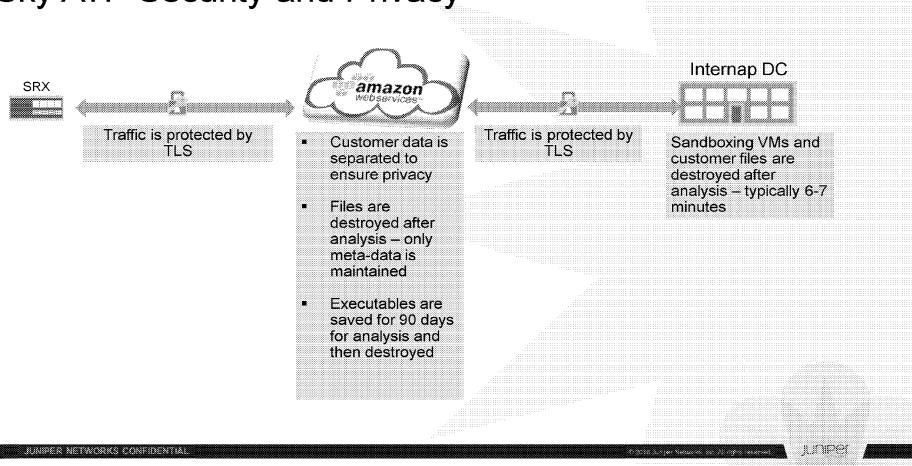


# Sky ATP cloud – geo locations Run on AWS Stage 4 Stages 1 -> 3 Runs on third party (Internap) DC (Sandboxing) (Amazon Web Services) Ireland (AWS) + Netherlands (sandboxing) **US West Coast**

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## Sky ATP Security and Privacy



## Sky ATP Security and Privacy

#### https://sky.junipersecurity.net

#### Select Geographic Region

You (the "Customer", "You", or "Your") need to select the location of your SKY ATP Cloud Service.

If you select "North America", Your data sent to the Juniper Service will be stored on servers hosted in the United States. If you select "European Union", Your data sent to the Juniper Service will be stored on servers hosted in the European Union ("EU"). Your choice of location where Your Juniper SRX product is deployed and consequently where Your data will be stored as part of the Juniper Service may have implications for Your compliance with applicable privacy and data protection laws. Juniper shall act according to Your selection below and shall not be responsible for Your selection or any regulatory or legal consequence of such selection.

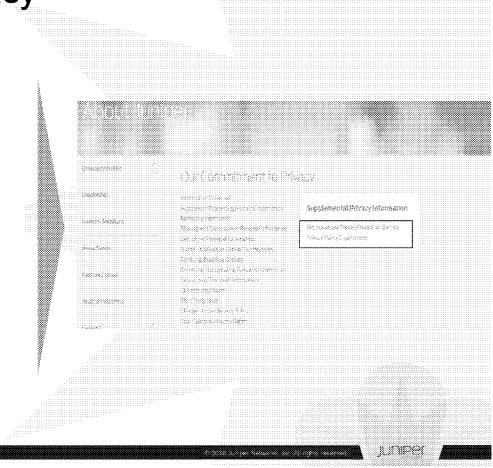
The Sky ATP Privacy Rolley statement, and the bronder lumiper Privacy Policy, can be found here: Juniper Networks Privacy Policy. The Sky ATP Terms of Use is also available for review.

North America is recommended for SRX deployments in North, Central, and South America. European Union is recommended for the rest of the world.

Please select a geographic focation:







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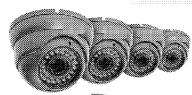


## Real world examples of IoT malware / ransomware

• Thermostat ransomware<sup>1</sup>



Amazon cameras malware<sup>2</sup>



Jeep remote control<sup>3</sup>



- 1. http://motherboard.vice.com/read/internet-of-things-ransomware-smart-thermostat
- 2. http://www.securityweek.com/malware-found-iot-cameras-sold-amazon
- 3. https://www.wired.com/2015/07/hackers-remotely-kill-jeep-highway/

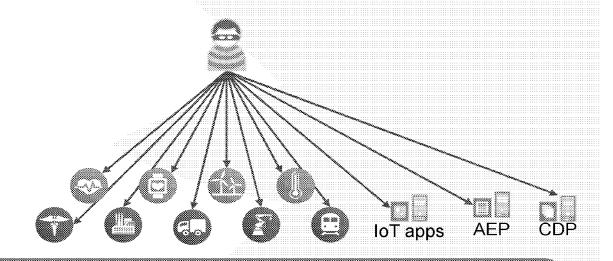
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## Getting ransomware and malware into IoT networks

- DNS spoofing
- Default passwords
- Phishing attacks



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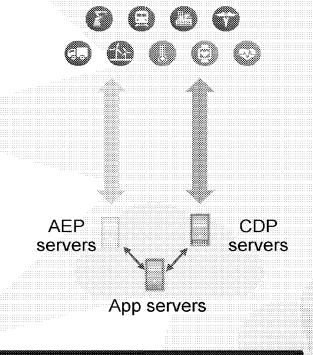
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## Targets for IoT ransomware and malware

IoT devices

#### IoT application servers

- IoT application servers
- Application Enablement Platforms
- Connected Device Platforms

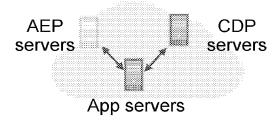


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## IoT specific Advanced Threat Detection



#### IoT servers

- Based on Windows or Linux
- Juniper Policy Enforcer can stop East-West propagation



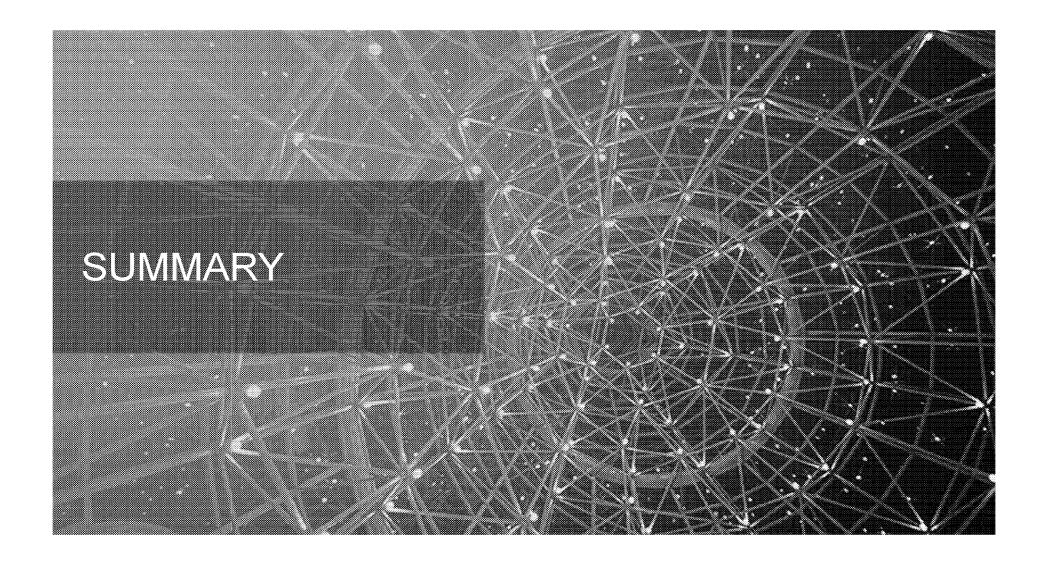
#### IoT devices

- Many are Linux based
- Sky ATP: static and dynamic analysis for IoT malware
- Will be tailored for specific devices / applications

SKVATE supports 3% party detection integration

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## Competitive differentiators

Other ATP vendors	Juniper Sky ATP	
Signature based: Takes longer to generate signature - signatures have to be propagated to all deployed appliances in customer's network	No signature generation – global cache is updated with verdict and meta-data	Superior Inline Blocking
10MB maximum file size	32MB maximum file size	Higher file size limits
Less granular. Only 3 verdict levels – 'Good', 'Bad', 'Grayware' or variant	Verdict levels on scale of 1 – 10	More granular and flexible policies
Only ZIP file type support	TAR, RAR, 7ZIP file types supported	Comprehensive archive file support

'Infected Host' feed is unique to Sky ATP – allows blocking traffic from specific infected hosts

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## Sky ATP: Threats prevented

#### WannaCry

• Exploits vulnerabilities in SMBv1 that allows remote code execution

#### 

 Uses VB macros to download payload, encrypts disk with key obtained from C&C server

#### Z (\* 0.10)

• Locky variant that renames files with .zepto extension

#### Koviers

- Almost fileless malware! Uses obfuscated Javascript and 'garbage' batch files
- .....and many more!

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- ✓ Machine Learning at every stage
- Deception Techniques and Behavioral analysis are used to differentiate malware from good software
- Thousands of features from static, dynamic and hybrid analysis are extracted from a large, continually-updated collection of samples both malicious and benign to construct a machine learning classifier that identifies and blocks previously unseen malware types

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## **How is Sky ATP Different?**

- High Efficacy, Scalable and Tightly integrated solution
  - Distributed sensing and enforcement on SRX (no additional sensors)
  - Actionable Intelligence
  - In-line blocking to prevent zero-day infections from getting in
  - Unique deception & provocation techniques to counter evasive threats
  - Advanced machine learning
- Support for different types of analysis targets
  - Multi-platform executable and application support
  - Exploits and malicious content embedded in documents (MS Office, PDF)
  - Dangerous web applications (Java, Flash)
- Cost-effective, non-intrusive solution with full network coverage

