

Enterprise Security Lifecycle Review

Quick Start Guide

September 2019

Palo Alto Networks 3000 Tannery Way Santa Clara, CA 95054 www.paloaltonetworks.com Security Lifecycle Review – Introduction Key Elements **Common Questions** Data Retention and Storage Questions Quick Start Walkthrough **Data Collection** Login to Salesforce Report Generation From Salesforce View Existing Report Report Content Summary Navigation Menu In-Line Help Applications at a Glance Applications that introduce risk Applications that introduce risk - Detail SaaS Applications SaaS Applications By Hosting Risk URL Activity File Transfer Analysis Threats at a Glance High Risk and Malicious File Type Analysis Application Vulnerabilities Known and Unknown Malware Command and Control Analysis DNS Service Analysis Summary **Traffic Distribution Domains and Destination Distribution** Malicious Traffic Origin Countries and DNS Tunneling Requests Known Malware and Families Report Summary

Security Lifecycle Review – Introduction

The Security Lifecycle Review summarizes the business and security risks facing an organization, providing an opportunity to review the findings and take joint action on them during an initial evaluation or as part of a regular visibility and security checkup. The review integrates existing Application Visibility data with WildFire™ cloud-based threat analysis service, SaaS-based application visibility and more. Findings are based on data collected by an on-site device or submitted to the WildFire cloud during a specified time period, including: applications, SaaS-based applications, URL traffic, content types, and known and unknown threats traversing the network.

- Visibility into the applications and threats exposing vulnerabilities.
- Analysis of all application traffic on the network, the capacity impact of these applications and the relative security risks observed.
- Comparison data for the customer's organization versus their industry peers.
- High-risk URL categories on the network.
- Known and unknown malware information.
- Key areas to focus on for reducing risk exposure.

Common Questions

1. How can I access the Security Lifecycle Review report?

As a Palo Alto Networks® partner, you can generate an SLR by selecting an opportunity from Partner portal. Please refer to the Quick Start Walkthrough section for details of the SLR generation process.

2. How do I generate the Statsdump file?

You will be able to generate the Statsdump file from your local device through the device management UI or using CLI (tftp export/scp export). Refer to the Quick Start Walkthrough section for instructions on generating the Statsdump file.

3. Which browsers are supported?

The most recent stable versions of Microsoft® Internet Explorer®, Mozilla® Firefox® and Google Chrome™ are supported.

4. What if we don't enable Wildfire, URL Filtering or Threat Prevention?

Rather than publish a blank page with no data, we will dynamically remove those pages from the report. We recommend running all evaluations with WildFire, URL Filtering and Threat Prevention enabled when possible.

- 5. What are the new malware related updates added to the report?
 - Information on Malware detected at the Endpoint: Known and Unknown Malware section will include information on Malware detected at the Endpoint to highlight the need for having both endpoint and firewall for prevention.

Note:Information on Malware detected at the Endpoint will be available in the report only for customers who have not purchased Traps and the data depends on the Malware observed in their network

- **Top Tags and matching samples**: Command and Control Analysis section will include Top Tags and matching samples for the following tag classes: malware family, campaign and malicious behavior. Allows customers to take quick action to remediate possible threats.
- **Threats by Destination Countries**: Command and Control Analysis section will include a map of countries that malware sessions targeted. The map highlights the countries that received the most number of malware sessions.
- 6. What is the goal behind the Malware updates added to the SLR report?

The goal is to leverage the malware information seen by the Firewall and correlate the information with Wildfire data to showcase the value for Cortex XDR, Traps and Autofocus.

- 7. Are the Malware updates added to the SLR report available for all customers?
- Information on Malware detected at Endpoint is <u>available only for Customers who have not purchased</u> <u>Traps</u>.

- Information on Top Tags and Matching Samples and Threats by destination countries are available for all customers regardless of whether they have purchased Traps or not.
- 8. I found a bug. What should I do?

Email <u>slr_support@paloaltonetworks.com</u>, including a detailed description of the bug/issue, screenshots of the error/issue and the Statsdump file used to generate the report.

9. I have a feature request/feedback. What should I do?

Email <u>slr_feedback@paloaltonetworks.com</u>, for any feature request or feedback for SLR.

10. Can partners white-label the new report with their logo and company info?

Yes, partners can click on the "Manage Logo" button located on the top right from the SLR homepage to customize the report with their logo and company information.

		\bigcirc
ACCOUNT INFORMATION		
Account Name *		
Account Name		
Industry *		
Select		•
Country *		
Select		•
Geographic Region *		
Select		•
Deployment Location *		
Select		•
Prepared By *		
Prepared By		
Language		
English		•
Report Type		
Enterprise SLR		•
	Next	•

11. Will I need to login via Salesforce.com/Partner Portal and begin reports via Opportunities?

Yes, all Palo Alto Networks SEs and partners must begin reports via Opportunities in Salesforce.com or the Partner Portal, respectively.

12. How can I view the previous reports created?

All Palo Alto Networks SEs and partners can view the reports created by them from the Home page of the SLR portal or via Opportunities in Salesforce.com or the Partner Portal, respectively. SLR reports created for a specific opportunity will be available for viewing in the "Tools" section on the right side from the opportunity view.

Data Retention and Storage Questions

1. What type of data/information is used to create the report?

SLR derives information from two sources:

- Statsdump file, which is generated by customers directly from their NGFWs. (Customers can open the Statsdump file to see data present, which are XMLs with summarized results of device logs.)
- Information from the customers WildFire public cloud submissions

The above mentioned data sources are controlled by the customer. Customers can choose to generate the Statsdump file or setup the WildFire submission policy. Please note the SLR only contains summarized statistical information, not original samples, IP addresses, user name, etc.

2. Is this information stored or saved by Palo Alto networks after the report is run?

SLR data is maintained indefinitely on secured Palo Alto Networks servers, meeting industry best-practices for protecting information. Removal requests can be processed 1:1. The data is anonymized and the trending results across the entire set are shared in threat reports on a regular basis.

3. Are actual files used or presented within the report (such as if WildFire is used or files seen by the device)

Actual files are never used or presented within the report.

Resources

- o <u>https://live.paloaltonetworks.com/t5/Customer-Resources/tkb-p/CustomerResources</u>
- o In-line help is available for all sections of the report.

Quick Start Walkthrough

You can generate an SLR from Partner portal by following the steps below.

Data Collection

SLR generation requires an export of data from the installed Palo Alto Networks device. The file generated pulls the data from the last seven days and compresses it into a tar.gz file. This generation process can be done via the management GUI or CLI.

From the device management UI:

- Select the Device tab.
- Select Support on the left-hand side.
- Click on the "Generate Statsdump" link in the main section.
- A "Save as" dialog box will appear, allowing you to save the tar.gz file to a specific location.

Using CLI, two options are available:

- tftp export stats-dump to [ip address]
- scp export stats-dump to [username@ipaddress.path]

NOTE:

- Once the tar.gz file has been generated, do not unzip or alter it in any way. The file upload process will fail if the file is altered.
- Statsdump period when generated from the GUI is by default always seven days. You can use CLI to extend the time period.

Logging In to the Partner Portal

Home > Partne

- 1. Generate a Statsdump file for the customer from their local device as per above process
- Visit the Palo Alto Networks Partner Portal: https://www.paloaltonetworks.com/partners.html, and log in to your account. If you do not have an account, click the "Request Access" button below the login field.

NextWave Partner Ecosystem Overview





It takes an ecosystem to address the increasingly complex and long-term issues threatening today's customers. We need partners that deliver, manage,

and integrate with, our next-generation security platform to make threat prevention a reality. To learn more click on the appropriate NextWave Partner Program:

NextWave Channel Partner Program Summary

```
Channel Partner
```

Learn

Managed Security Service Provider Partner

To succeed in today's market we are focused on providing our partners with a variety of program options to best fit their business needs. Our programs goal is to provide access to innovative and disruptive technology that maximizes differentiation and allows our partners to build a sustainable security practice with Palo Alto Networks.

To get started or to inquire about creating a partnership please click the appropriate program:

NextWave Channel Partner Program

NextWave Managed Security Services Provider

More and more customers are looking for a trusted advisor that can provide a security platform that delivers a high degree of threat prevention across every step in an attack lifecycle. The Palo Alto Networks NextWave Partner Ecosystem has a wide range of global partners with different expertise ready to help you.

To find a partner simply click the partner type below based on your need.

NextWave Channel Partner

NextWave Managed Security Services Provider

Report Generation From the Partner Portal

- Home > Partners > NextWave Channel Partner Porta **NextWave Channel Partner Portal** NextWave Channel Partner Portal SECURITY LIFECYCLE REVI UPDATE PARTNEF RACK NEXTWA IAGE NextWave Channel Partner Program Distributors Help Me Learn paloalto paloalto Help Me Sell Help Me Market NEXTWAVE NEXTWAVE Regional Content PUBLIC CLOUD SPECIALIZED MSSP SPECIALIZED Americas
 SLED (Americas Only) Protection APAC
 EMEA • Japan Contact Us PROMOTIONS Connections • Email Access NextWave Channel Partner Newsletters
 Subscribe to the NextWave Newsletter Follow us on Twitter View Partner Blog
- 1. Click on "Track Deals" to view your open Opportunities.

2. Select the appropriate opportunity.



3. Scroll down and click on the "Create Report" button. You can also view past reports here.

curity Lifecycle Reviews (Opp	oortunity) CRE	TE REPORT			
Action Risk Report Id	Account	Delivery Date	Delivery Status	Report URL	Report Type
Edit Del RR41539				View Report	SLRP
Edit Del BR41573				View Report	SLRP

4. Choose the appropriate report (Security Lifecycle Review is the default selection).

Welcome, Demo PartnerPortal Domo PartnerPortal My Company Profile My Profile Channel Manager	Report Types:	Security Lifecycle Review Service Provider SLR Prevention Posture Assessment Executive SLR	
Partner Actions	Security Lifecycle Review	GENERATE REPORT CANCEL	
Register A Deal Track Mv Deals Service Engagements Deals Eliable for Extension Manage Partner Locator Manage Users Tracker	Report Input Filters : Account Opportunity Industry Country Geographic Region Deployment Location	High Technology O None O None O	Required Information
Search All ¢	Report Language	English GENERATE REPORT CANCEL	
Advanced Search			

5. Fill in the required fields below Report Input Filters, then click on the "Generate Report" button.

Report Types:	Security Lifecycle Review	
	Service Provider SLR	
	O Prevention Posture Assessment	
	C Executive SLR	
Security Lifecycle Review	GENERATE REPORT CANCEL	
Report Input Filters :		= Required Information
Account		
Opportunity		
Industry	High Technology	
Country	None	
Geographic Region	None	
Deployment Location	None	
Report Language	English	
	GENERATE REPORT CANCEL	

6. You will automatically be logged in to the SLR portal with the information you entered. Fill out the "Prepared By" field (with who will be presenting the report) and click "Next."

A Home A Upload File			View existing report	🗡 Manage Logo
	ACCOUNT INFORMATION			
	Account Name *			
	Palo Alto Networks (TEST ACCT)			
	Industry *			
	High Technology	*		
	Country *			
	United States	٠		
	Geographic Region *			
	North America, Latin America, Canada	*		
	Deployment Location *			
	Perimeter/Internet Gateway	*		
	Prepared By *			
	Palo Alto Networks			
	Language			
	English	•		
	Report Type			
	Enterprise SLR	٠		
		Next -		

7. Upload Files feature offers two ways to upload files to generate the report. To add files, do one of the following:

Single File Upload

Select the "Single File" option and Click on the "Select File" button . Select the file that you want to upload in the File Upload dialog box, and then click on the "Upload" button to start uploading the file.

UPLOAD FILE	
Single File Multiple Files	
Select file or drop file here	
← Go Back & Upload	

Multiple Files Upload

To upload multiple files, click on the "Multiple Files" option from the "Upload Files" screen and select the files you would like to upload. Once the files have been selected, click on the "Upload" button to start uploading the files.

UPLOAD FILE			
Single File	Multiple Files		
Select files or dr	op files here		
*Select multiple files to uploa *Total file size cannot exceed	d at once 50 MB		
Select a date range for	Industry Averages		
Start Date *	End Date *		
	🗲 Go E	Back 🔷 Upload	
	← Go B	Back PUpload	

If you have already uploaded the same Statsdump file, you will see a warning, which allows you to re-upload the file or view the existing report.

View Existing Report

This allows you to view all Security Lifecycle Reviews you have created. Navigate to this from the "Home" page on the portal.

 PAN-OS 8.0/8.0.1 is not sup SLR works with a wide rang 	ported by SLR. Click here for details. e of browsers. Click here to see the list of supported browsers f	or SLR.		
Home 🍖 Upload File	-		I View existing report	🗲 Manage I
	ACCOUNT INFORMATION			
	Account Name *			
	Account Name			
	Select	•		
	Country *			
	Select	•		
	Geographic Region *			
	Select	•		
	Deployment Location *			
	Prepared By *	•		
	Prepared By			
	Language			
	English	T		
	Report Type			
	Enterprise SLR	•		

Report Content

Summary

The Summary page provides a high-level summary of the applications and threats observed on the analyzed network.



Key Elements

- Applications in Use: Total applications observed on the network.
- High Risk Applications: Total of risk level 4 and 5 applications observed on the network.
- Total Threats: Sum of vulnerability exploits, known (from Statsdump), and unknown threats (from WildFire cloud) observed.
- Vulnerability Exploits: Total vulnerability exploits observed.
- **Known Malware**: Known malware seen on the customer's network, which could be prevented by Threat Prevention.

The "notepad" icon denotes sections that allow full text edit.

247765 4444	
our network, i	ncluding vulnerability
xploits, malwa	are, and outbound
ommand and	control activity.
	Remaining characters: 270

Navigation Menu

The navigation bar on the right contains some useful menu items to help you understand key features and customization options.





In-Line Help

In-line help is available for key sections and charts in the report. Clicking on the dialog box with a description of the chart/table displayed in the section.

icon opens up a

HIGH-RISK APPLICATIONS O The first step to managing security and business risk is identifying which applications can be abused to cause the most harm. We recommend closely evaluating applications in these categories to ensure they are not introducing unnecessary compliance, operational, or cyber security risk.	ftie-sharing email × photo-video × Internet-utility × file-sharing 6 13 semail 4 12 photo-video 6 12 internet-utility 4 5
	Acme Corporation II Industry Average

Applications at a Glance

This section provides a high-level view of the application categories, bandwidth consumed and high-risk applications in use across the network.

	s at a Glance	
pplications can introduce risk, such as delivering threats, potentially allowing roductivity, or consuming corporate bandwidth. This section will provide visib n potential risk versus business benefit.	data to leave the network, enabling unautho ility into the applications in use, allowing you	vrized access, lowering u to make an informed decision
KEY FI	NDINGS	
High-risk applications such as file-sharing, email and photo-video were	re observed on the network, which should be	investigated due to their potenti
 tor abuse. 328 total applications were seen on the network across 28 sub-categorie High Technology organizations. 602.82 GB was used by all applications, including collaboration with 14 	es, as opposed to an industry average of 19 44.38 GB, compared to an industry average	0 total applications seen in other of 3.86 TB in similar
organizations.		
HIGH-RISK APPLICATIONS	file-sharing	13
The first step to managing security and business risk is identifying which applications can be abused to cause the most harm. We recommend	email	2
dosely evaluating applications in these categories to ensure they are not introducing unnecessary compliance, operational, or cyber security risk.	photo-video	12
	Internet-utility	
	social-networking	
	*] 3	
	Anne corporation I industry Avera,	
NUMBER OF APPLICATIONS ON NETWORK	BANDWIDTH CONSUMED BY AP	PLICATIONS
NUMBER OF APPLICATIONS ON NETWORK	BANDWIDTH CONSUMED BY AP	PLICATIONS
NUMBER OF APPLICATIONS ON NETWORK Acme Corporation	BANDWIDTH CONSUMED BY AP Acme Corporation days 602.82 GB INDUSTRY AVERAGE	PLICATIONS 3.86TB
Acme Corporation 208 INDUSTRY AVERAGE 209 ALL ORGANIZATIONS 224	BANDWIDTH CONSUMED BY AP Acme Corporation courses are INDUSTRY AVERAGE ALL ORGANIZATIONS	2.36 TB 4.03 TB
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NUMBER OF APPLICATIONS ON NETWORK Acme Corporation 238 INDUSTRY AVERAGE 500 ALL ORGANIZATIONS 234 CATEGORIES WITH THE MOST APPLICATIONS The following categories have the most applications variants, and should be reviewed for business relevance. Dustiness-systems 55 collaboration 55 media	BANDWIDTH CONSUMED BY AP Acme Corporation active INDUSTRY AVERAGE ALL ORGANIZATIONS CATEGORIES CONSUMING THE Bandwidth consumed by application cate usage is heaviest, and where you could of collaboration active networking active general-Internet active media active business-systems active active de laboration active solution active active de laboration active active de laborative active de laboration active active de l	PLICATIONS 3.86 TB 4.03 TB MOST BANDWIDTH gory shows where application reduce operational resources. 1.38 TB 1.46 TB

Key Highlights

High-Risk Applications

- Count of high-risk (i.e., easily abused) applications per subcategory that are present.
- Default view, composed of social networking, file sharing, email, remote access and encrypted tunnel.
- Displays how many applications per subcategory are seen across all users in your industry for benchmarking.
- View can be customized using the input field.

- Number of Applications on Network:
- Total number of applications on the network.

Number of Applications on Network

- Total number of applications on the network.
- Total applications per top application categories.
- Benchmarks across industry and all organizations.

Bandwidth Consumed by Applications

- Total bandwidth used by applications on the network.
- Total bandwidth used per top application categories.
- Benchmarks across industry and all organizations.

The "High-Risk Applications" section can be customized to better reflect what is important to your organization. The default view is: social networking, file sharing, email, remote access and encrypted tunnel. To customize this section, remove one of the existing subcategories, click on the input field, select a new entry and click "Go."

HIGH-RISK APPLICATIONS	file-sharing × email × photo-video × × Go >
The first step to managing security and business risk is identifying which applications can be abused to cause the most harm. We recommend closely evaluating applications in these categories to assure they are not interfusion unsecessor compliance.	internet-utility ×
	software update
ensure they are not introducing unnecessary compliance, operational, or cyber security risk.	nuc-snanng
	auth-service general-business
	internet-utility
	internet-conferencing
	social-networking 3
	Acmo Corporation II Inductor Average
	Acme Corporation = Industry Average

Applications that introduce risk

This section provides information on the top eight application subcategories, sorted in descending order by bandwidth consumed.

Key Elements

- Each application subcategory contains the top eight applications per subcategory, sorted by bandwidth consumed.
- The number in each header (e.g., 18.52GB for email), shows the total bandwidth consumed by each subcategory, not just the top eight applications. The bar charts in the upper right of each header (e.g., 16/9 for email), show the total number of applications per subcategory versus industry benchmarks.
- The default view shows email, remote access, file sharing, encrypted tunnel, instant messaging, social media, photo-video and proxy. This view can be customized.

Applications	that Introduce Risk	
The top applications (sorted by bandwidth consumed) for application including industry benchmarks on the number of variants across othe used to more effectively prioritize your application enablement efforts	subcategories that introduce risk are displayed below, ar High Technology organizations. This data can be	RISK LEVEL
KEY FINDING	GS	2
 A total of 328 applications were seen in your organization, com Technology organizations. 	pared to an industry average of 190 in other High	
 The most common types of application subcategories are photo The application subcategories consuming the most bandwidth a internet-utility. 	o-video, internet-utility and file-sharing. re internet-conferencing, encrypted-tunnel and	
Number of Applications in the subcategory III Industry Average	Number of Applications in the subcategory III in	ductry Average
16 7	9	6
Email 19.89 GB	Remote-Access 4.36 GB	
TOP EMAIL APPS	TOP REMOTE ACCESS APPS	
smtp 14.29 68	gotoassist	2.50 GB
gmail-base 2.86 68	ms-rdp 1.67 68	
221 GB	adobe-meeting-remote-control	
outlook-web-online 230.35 MB	telnet 16.81 MB	
yahoo-mail 116.56 MB	teamviewer-base 1.41 MB	
comcest-webmeil 52.31 MB	splashtop-remote \$91.20 KB	
icloud-meil 48.86 MB	citrix-jedi 3.89 KB	
pop3 31.45 MB	240.00 Bytes	

Applications in the view can be customized by selecting any application subcategory from the drop-down

list. This selection will reflect in the application detail table in the next section, which provides further detail on the top applications per subcategory.



The "Remove Chart" option from the dropdown list can be used to remove charts and customize the view. When the "Remove chart option is selected from the drop-down list, the chart grays out allowing the user to select a different application category to replace the chart or delete the chart without replacement. Once the customization is complete, the pdf version of the report will have the applications view with the updated charts.

16		7
Remove Chart	• 19.89 GB	
TOP EMAIL APPS	_	
smtp		14.29 GE
gmall-base 2.84 GB		
ma-exchange 2.21 GB		
outlook-web-online		
yahoo-mail		
comcast-webmail		
icloud-mail		

Note: The Palo Alto Networks research team uses the application behavioral characteristics to determine a risk rating of 1 through 5, with 5 being the highest.

Applications that introduce risk - Detail

This section provides details on the application subcategories that introduce risk selected previously, with sortable information on risk level, application, category, subcategory, technology, bytes and sessions displayed.

- Default sort order is by the subcategories selected on the previous page, descending by bytes.
- The data in the application detail view table can be sorted by selecting any column heading.
- The risk toggle button lets you select applications by risk level by switching the toggle to "All Risk" or "High Risk".

RISK \$	APPLICATION \$	CATEGORY \$	SUB CATEGORY	TECHNOLOGY \$	BYTES \$	SESSIONS
5	smtp	collaboration	email	client-server	14.29 GB	71157
4	gmail-base	collaboration	email	browser-based	2.84 GB	10348
4	ms-exchange	collaboration	email	client-server	2.21 GB	1703
3	outlook-web-online	collaboration	email	browser-based	230.35 MB	9106
3	yahoo-mail	collaboration	email	browser-based	116.56 MB	2087
3	comcast-webmail	collaboration	email	browser-based	52.31 MB	462
2	icloud-mail	collaboration	email	client-server	48.86 MB	1418
4	pop3	collaboration	email	client-server	31.45 MB	155
4	ssi	networking	encrypted-tunnel	browser-based	89.97 GB	1927883
4	ssh	networking	encrypted-tunnel	client-server	20.36 GB	6289
2	ipsec-esp-udp	networking	encrypted-tunnel	client-server	168.1 MB	251
5	freenet	networking	encrypted-tunnel	peer-to-peer	8.42 MB	12852
2	ike	networking	encrypted-tunnel	client-server	268.03 KB	296
1	dtls	networking	encrypted-tunnel	client-server	2.82 KB	4
5	ftp	general-internet	file-sharing	client-server	13.64 GB	914
4	ms-onedrive-base	general-internet	file-sharing	client-server	11.89 GB	1345
4	dropbox	general-internet	file-sharing	client-server	1.76 GB	4957
5	bittorrent	general-internet	file-sharing	peer-to-peer	121.29 MB	38294

SaaS Applications

The SaaS Applications section provides visibility into the SaaS-based applications observed on the network, sorted by application subcategory.

SaaS-based application services or "shadow IT," most of these service: even entire departments. In order applications used your network .	continue to redefine the network perimeter. Often labeled s are adopted directly by individual users, business teams, or to minimize data security risks you need control over SaaS
	KEY FINDINGS
	3
· File-Sharing subcategory has t	he most number of unique SaaS applications.
 In terms of data movement, vid 	iyo is the most used SaaS application in your organization.
SAAS APPLICATIONS BY NUMBE	RS
Review the applications being use	d in your organization. To maintain administrative control,
adopt SaaS applications that will b	e managed by your IT team
	NUMBER OF SAAS APPLICATIONS 😡
	Auros Corporation
328	ALL ORGANIZATIONS
total apps	
80	PERCENTAGE OF ALL APPLICATIONS 😔
Caab apps	Acres Corporation 24.3%
	INDUSTRY AVERAGE DATE
	ALL DISGANGAL DIS
SAAS APPLICATION BANDWIDTH	н
Monitor the volume of data movem	nent to and from SaaS applications. Understand the nature of
the applications and how they are	being used
	SAAS APPLICATION BANDWIDTH 🚱
	Aone Corporation Vis 47 BK
602.82 GB	ALL ORGANIZATIONS 279.49 GB
total data	
flow	PERCENTAGE OF ALL BANDWIDTH 🚱
139.67 66	Acres Corporation
	INDUSTRY AVERAGE
	ALL ONGANIZATIONS
* SAAS APPLICATION SUBCATEGORIES billowing displays the number of applications in e nazation. SAAS APPLICATION SUBCATEGORIES BY TOTAL NU file-sharing peneral-business email office-programs automber of Applications in the subcategory nuture versige	P P
SAAS APPLICATION SUBCATEGORIES bilowing displays the number of applications in e nzation. SAAS APPLICATION SUBCATEGORIES BY TOTAL NU file-sharing emails displays and the subcategory dustry Average	Complexition subcategory. This allows you to assess the most used application subcategory. This allows you to assess the most used applications
SAAS APPLICATION SUBCATEGORIES bilowing displays the number of applications in e izzation. SAAS APPLICATION SUBCATEGORIES BY TOTAL NU file-sharing emails displays and the subcategory dustry Average	Building and the subcategory and the subcatego
SAAS APPLICATION SUBCATEGORIES bollowing displays the number of applications in e izzation. SAAS APPLICATION SUBCATEGORIES BY TOTAL NU file-sharing emraral buildings emraral	Beach application subcategory. This allows you to assess the most used applied application subcategory. This allows you to assess the most used applied applications in the subcategory INBER OF APPLICATIONS
SAAS APPLICATION SUBCATEGORIES bilowing displays the number of applications in e inzation. SAAS APPLICATION SUBCATEGORIES BY TOTAL NU The charing email office programs number of Applications in the subcategory dustry Average 14 e-Sharing • 11.272 GB P FILE-SHARING APPS	Beach application subcategory. This allows you to assess the most used applied of the subcategory in the subcategory industry Average 11 Ceneral-Business • 260.82 MB TOP GENERAL-BUSINESS APPS
SAAS APPLICATION SUBCATEGORIES bilowing displays the number of applications in e izzation. SAAS APPLICATION SUBCATEGORIES BY TOTAL NU Rise-haring eneral-business enail office-programs humber of Applications in the subcategory ndustry Average 14 e-Sharing • 12.72 GB P FILE-SMARING APPS meneditive base	each application subcategory. This allows you to assess the most used apple IMBER OF APPLICATIONS
SAAS APPLICATION SUBCATEGORIES bilowing displays the number of applications in e izzation. SAAS APPLICATION SUBCATEGORIES BY TOTAL NU Wieshahung enersibusiness enail office programs furnher of Applications in the subcategory ndustry Average 14 12 e-Sharing 13.72 GB P FILE-SHARING APPS moonedive base 11.87 GB	ech application subcategory. This allows you to assess the most used apple UMBER OF APPLICATIONS
SAAS APPLICATION SUBCATEGORIES bilowing displays the number of applications in e izzation. SAAS APPLICATION SUBCATEGORIES BY TOTAL NU This sharing emrail durings emrails durings emrails durings emrails durings emrails durings file sharing the subcategory dustry Average 14 e-Sharing PFILE-SHARING APPS mooderive base 11.87 68 south of the subcategory 11.87 68 11.87 68	Beach application subcategory. This allows you to assess the most used application subcategory. This allows you to assess the most used applications in the subcategory NUMBER OF APPLICATIONS
SAAS APPLICATION SUBCATEGORIES bilowing displays the number of applications in e inzation. SAAS APPLICATION SUBCATEGORIES BY TOTAL NU file-sharing email office-programs sumber of Applications in the subcategory dustry Average 14 15 12 12 12 12 12 12 12 12 12 12 12 12 12	IMBER OF APPLICATIONS
PSAAS APPLICATION SUBCATEGORIES bilowing displays the number of applications in e strated. SAAS APPLICATION SUBCATEGORIES BY TOTAL NU this charing email diffice-programs tumber of Applications in the subcategory dustry Average 16 PFILE-SHARING APPS microsoftwice base 17.5 68 google drive web 17.52 MB	IMBER OF APPLICATIONS * * * * * * * * * * * * * * * * * * *
SAAS APPLICATION SUBCATEGORIES bilowing displays the number of applications in e izzation. SAAS APPLICATION SUBCATEGORIES BY TOTAL NU Title-barring enersi-business email office-programs turmber of Applications in the subcategory number of Applications in the subcategory 11.72 GB P FILE-SHARING APPS mooned/we base 11.89 GB progle-clude torage-base 12.97 MB	each application subcategory. This allows you to assess the most used apple IMBER OF APPLICATIONS
SAAS APPLICATION SUBCATEGORIES bilowing displays the number of applications in e izzation. SAAS APPLICATION SUBCATEGORIES BY TOTAL NU file-barring eneral-business enail office-programs furnher of Applications in the subcategory ndustry Average 14 15 Applications in the subcategory ndustry Average 15 Applications in the subcategory ndustry Average 16 17 Applications and the subcategory no construction of the subcategory 18 Applications in the subcategory ndustry Average 16 17 Applications and the subcategory 17 Applications in the subcategory 17 Applications in the subcategory 18 Applications in the subca	ech application subcategory. This allows you to assess the most used appli IMBER OF APPLICATIONS
SAAS APPLICATION SUBCATEGORIES bilowing displays the number of applications in e sization. SAAS APPLICATION SUBCATEGORIES BY TOTAL NU Nile-haring enail office-programs Aumber of Applications in the subcategory ndustry Average 14 12 14 12 14 12 14 12 14 12 15 15 15 15 15 15 15 15 15 15 15 15 15	each application subcategory. This allows you to assess the most used apple IMBER OF APPLICATIONS
SAAS APPLICATION SUBCATEGORIES toilowing displays the number of applications in enzation. SAAS APPLICATION SUBCATEGORIES BY TOTAL NU file-sharing enail office-programs semicle-sharing enzity Average 16 enzity Average 1 enzity	BACH application subcategory. This allows you to assess the most used applications subcategory. This allows you to assess the most used applications in the subcategory NUMBER OF APPLICATIONS

SaaS Applications By Hosting Risk

The SaaS applications by hosting risk section provides an overview into SaaS Applications with unfavorable risk characteristics such as "Data Breaches", "Poor Terms of Service", "No Certifications" etc.can compromise enterprise data and security.

a on your baab usage, it is imperative to regularly review SaaS ollowing chart displays the number of applications by each host	applications being accessed, who is accessing them, and how they are being u ing risk characteristic.
Poor Terms of Service	11
Data Breaches	
No Certifications	18
Poor Financial Vlability	
ollowing charts display the top applications by bandwidth for ea	ch hosting risk characteristic.
9.84 GB	121.1 MB
Apps With Poor Terms Of Service	Apps With Data Breaches
owncloud	dropbox 115 no MP
teamviewer-base	office-on-demand
1.18 68	3.17 MB
new-relic 394.85 MB	github-base 1.65 MB
skydrive-base	yahoo-mail
10.54 MB	188.Z1 KB
8.41 MB	62.50 KB
teamviewer-remote-control 1.97 MB	evemote-base 36.53 KB
logmein 152 MR	
sourceforge-base 678.52 KB	
94.55 MB	3.22 MB
Apps With No Certifications	Apps With Poor Financial Viability
ms-lync-online 30.46 MB	docstoc-base 2.16 MB
crashplan 19 80 MB	depositifies 1.06 MB
skydrive-base	
slideshare-base 8.41 MB	
Icloud-mail 7.67 MB	
icloud-base	
office-on-demand 3.17 MB	

- Displays number of applications for each of the risk characteristics: poor terms of service, data breaches, no certifications and poor financial viability.
- Displays the top 8 applications by bandwidth for each risk hosting characteristics.

SaaS Application Characteristic	Description
Data Breaches	Applications that may have released secure information to an untrusted source within the past three years.
Poor Terms of Service	Applications with unfavorable terms of service that can compromise enterprise data.
No Certifications	Applications lacking current compliance to industry programs or certifications such as SOC1, SOC2, SSAE16, PCI, HIPAA, FINRAA, or FEDRAMP.
Poor Financial Viability	Applications with the potential to be out of business within the next 18 to 24 months.
IP Based Restrictions	Applications without IP-based restrictions for user access. Note: The data for the IP Based Restrictions characteristic is available to view in the Network Activity graphs and to generate a custom report.

For a more detailed view of a specific application or characteristic, apply the local filters in the ACC network activity graphs to narrow the scope of the data so that you can isolate specific attributes and analyze information you want to view/present in greater detail.

URL Activity

The URL Activity section displays activity on the URL categories being visited by users on the network.

Incontrolled Web surfing exposes organizations to security and busines: compliance violations. The most common URL categories visited by user	s risks, including exposure to potential threat propagation, data loss, or s on the network are shown below.
КЕ	Y FINDINGS
 High-traffic URL categories were observed on the network, includin Users visited a total of 82,005,300 URLs during the report time peri There was a variety of personal and work-related Web activity president of the second secon	g web-based-email, unknown and business-and-economy. od across 56 categories. ent, including visits to potentially risky websites.
HIGH-RISK URL CATEGORIES	unknown 22,247
The Web is a primary infection vector for attackers, with high-risk URL categories posing an outsized risk to the empirication. Solutions take that attackers for bat blocking of	private-lp-addresses
undesired or malicious sites, as well as support quick	maiware 440,335 6709
categorization and investigation of unknowns. proxy	y-avoidance-and-anonymizers 3,508
	dynamic-dns 75
10	Aome Corporation III Inductry Average
HIGH-TRAFFIC URL CATEGORIES	COMMONLY USED URL CATEGORIES
The top 5 commonly visited URL categories, along with industry	The top 20 most commonly visited URL categories are shown be
benchmarks across your peer group, are shown below.	Internet-communications-and-telephony 2,76 web-advertisements 2,76
487,661	private-ip-addressee 1,436,783
unknown 212,247	streaming-media
business-and-economy 3,388,000	financial-eervicee 565,508 Internet-portals 545,737
computer-and-Internet-Info	web-hosting 440,335
search-englines	stock-advice-and-books 228,285 online-storage-and-backup 239,244
	personai-ense-and-biogs 205,148 travel 176,078
Aome Corporation 💷 Industry Average	reference-and-research 1146,182 sports 127,933

Key Elements

High-Risk URL Categories

- Pre-defined list of categories that present the most risk to the business, which can be customized via the input field.
- Default view is: unknown, private IP addresses, malware sites, proxy avoidance and dynamic DNS.
- Industry benchmarks are also displayed.

High-Traffic URL Categories

- The top five URL categories being visited, in descending order by hits, including industry benchmarks.
- Commonly used URL categories: the top 20 URL categories, in descending order by hits.

The "High-Risk URL Categories" section can be customized to better reflect what is important to you. To customize this section, remove one of the existing subcategories, click on the input field, select a new entry, and click "Go."

High-Risk URL Categories 🛛	private-ip-addresses × unknowr	Go I
The Web is a primary infection vector for attackers, with high-risk URL categories posing an outsized risk	unknown INDUSTRY AVERAGE	10,908 30,446
to the organization. Solutions should allow for fast blocking of undesired or malicious sites, as well as	proxy-avoidance-and-anonymizers INDUSTRY AVERAGE	432 417
support quick categorization and investigation of	INDUSTRY AVERAGE	37 123
unnowns.	dynamic-dns INDUSTRY AVERAGE	4 11
	phishing INDUSTRY AVERAGE	1 2

File Transfer Analysis

This page displays the top five applications and the most common content types they are transferring.

- The left side lists the top five applications delivering the most file types, and the right side indicates up to five of the file types being delivered.
- Correlates which file types are being delivered by which applications.
- The bottom section shares the total number of applications delivering unique file types (and how many types).



Threats at a Glance

This page displays highlights from the vulnerability exploits, malware, and command-and-control activity observed on the network.



Key Elements

Vulnerability Detections

- Total vulnerability exploits observed
- Breakout chart shows the top four categories of vulnerability exploits.
- Industry benchmarks show the percentage of vulnerability exploits in the organization, versus
 industry peers and all organizations, for the top vulnerability category (for instance, "Botnet") versus
 all other categories.

Malware Detections

- Sum of known (Threat Prevention) and unknown (WildFire) malware observed.
- Industry benchmarks show the percentages of known and unknown malware seen in the organization versus industry peers and all organizations.

Command and Control Detections

- Sum of known (Threat Prevention) and unknown (WildFire) outbound command-and-control connections.
- Note: "Known" refers to malicious connections from inside the network, whereas "unknown" refers to potential activity observed from malicious samples being executed in the WildFire cloud, not necessarily your local network.
- Industry benchmarks show the percentages of known and unknown command-and-control traffic seen in the organization versus industry peers and all organizations.
- Files Potentially Leaving the Network: Total files leaving the network delivered by the count of applications delivering them.

High Risk and Malicious File Type Analysis

The High-Risk and Malicious File Type Analysis page displays the details of the high risk-file types present on the network as well as those delivering unknown threats detected via WildFire.



Application Vulnerabilities

The Application Vulnerabilities page provides a view of the top five applications experiencing the greatest volume of vulnerability exploits.

- **Applications Delivering Exploits**: Total applications being used to deliver vulnerability exploits, with industry and all organization benchmarks.
- **Vulnerability Detections**: Total count of vulnerability exploit detections, with industry and all organization benchmarks.
- Unique Vulnerability Exploits: Total unique vulnerability exploits (the same exploit used repeatedly will only be counted once), with industry and all organization benchmarks.
- **Vulnerabilities per Application**: Top 10 applications listed in descending order by severity level, then count. Includes count of vulnerability exploits, threat name, severity, threat type and CVE, when available.
- **Severity Filter**: The filter icon next to the "Severity" header provides the option to filter the vulnerability exploits by the severity levels: Critical, High, Info, Medium, Low .

Vulnerability Exploi	ts per Application (top 5 applications with most detections) O	Z		
DETECTIONS	APPLICATION & VULNERABILITY EXPLOITS	SEVERITY -	THREAT TYPE	CVE ID
653,523	ssl		Search	0.
1 1 633,867 19,448 197 8	OpenSSL SSLv2 Malformed Client Key Parsing Buffer Overflow Vulnerability Y Microsoft IIS Server SChannel Denial of Service Vulnerability Mozilla Network Security Services SSLv2 Server Stack Overflow Use of insecure SSLv3.0 Found in Server Response POODLE Bites Vulnerability OpenSSL TLS Heartbeat Found SSL Version 2 Weak RSA Cipher Detected	Critical High High Info Info Info Info	Select All Critical High Info Medium Low Either Cle	E-2002-0656 E-2010-3229 E-2007-0009 E-2014-3566 E-2014-8730 E-2016-0800; E-2016-0703
82,383	ms-ds-smb			
9 36 6 2 1 77,441 3,825 559	Microsoft SMB Client Response Parsing Vulnerability SMB: User Password Brute-force Attempt Microsoft Windows SMB NTLM Authentication Lack of Entropy Vulnerability Microsoft Windows Registry Read Attempt Microsoft Windows WinReg Access Attempt Microsoft Windows RPC Encrypted Data Detected Microsoft Windows SMB Negotiate Request Service Enum Through SMB ServiceEnum2 NetBIOS null session	Critical High Low Low Info Info	code-execution brute-force brute-force info-leak code-execution code-execution brute-force info-leak info-leak	CVE-2016-3385 CVE-2010-0231
141	Windows SMB Login Attempt	Info	brute-force	

Known and Unknown Malware

This section shows the top 10 applications delivering known (Threat Prevention) and unknown (WildFire) malware and the number of malware detected at Endpoint.

Note: Availability of information on Malware detected at the Endpoint is based on the products deployed and the malware found in the network.



- **Total Malware**: The donut chart on the left shows the total Malware detected with a break down of known and unknown malware
- Malware detected at the Endpoint: The first callout on the right, next to the donut chart shows shows

the count of Malware detected at the Endpoint (*Availability of information on Malware detected at the endpoint is dependent on the products deployed and the malware observed in the network*)

- **Applications delivering malware**: The second callout on the right, next to the donut chart shows shows the number of Applications found delivering malware in the network.
- The bar chart on the right displays the count of known malware being delivered per application for the top 3 applications delivering malware observed in the network.
- The bar chart on the left shows the count of unknown malware being delivered per application, derived via Wildfire for the top 3 applications delivering malware observed.

Command and Control Analysis

This page displays outbound malicious communication from infected hosts on the network from a known threat perspective.

- **Command and Control Activity by Application**: Volume of outbound malicious queries for the top five applications, by count of instances of command-and-control activity.
- **Spyware Phone Home**: Total of all "spyware" category command-and-control activity, and the top threats observed.
- **Suspicious DNS Queries**: Total of all "suspicious DNS" category command-and-control activity, and the top threats observed.
- **Top Malicious Behavior Tags:** List of top tags associated with the malware found in the network
- **Threats by Destination Countries:** A map of countries that malware sessions targeted. The map highlights the country that received the most number of malware sessions.



Manware Faminy Tags Top Campaign Tags			Top Malicious Behavior T	ags	
NU	Count	Tag	Count	Tag	Count
VirLock	1,204	ssrt_isa_Pecunia	τ	V L_tar_enum_proc	2,350
• ELFMirsi	311	SilverTerrier	2	hit card tex MaintainGa	20200
Galgyt	264	Slack/line	1	rsistence	1,651
Satori	133	& gst_mscott_misc_ Tekide	1	gart_mailm_Win_S ervice_Created	1,437
Gepys	115	A OperationCornando	1	# HtpNoUserAgent	1,345
Upatre	78			V i tru use wininet	1.326
il_tm_Unnvy_key	77			He card second MSV	0.0000
Unnay	78			B/M60	1,237
GandCrab	71			TisableUAC	1,192
gat_migam_peculi irGatgyt	61			₩ gert_mairm_enum_t hreads	808
				Processinjection	715
				gart_macott_Super HiddenFiles	471
- Linked to threats - Part of a larger C - A type of Malciou - Public togs are to - Private togs are us - Strivate togs are us - Strivate togs are us - Linit 42 (alerting) direct security risk.	that belong to a certai ampaign of attacks as Dehavior that indice ge chanod with the As rabile only to your org microment. tags are created by U	In Malware Family ales that your system has been compr uloFocus community by your organics panization. Allows you to tag a sample init 42 (the Palo Alto Networks® threat utscovered hy individuals or presents	omixed ion and other AutoFi hash or a set of sear intelligence and reso	ocus users. They are valide to all Auto roh conditions that might be specific or earch learn) for threats and campaigns 47. Three tars have a writted and ma	focus users, especially that pose a declino soft

DNS Service Analysis

Note: DNS Service Analysis data findings are available in the SLR for customers with DNS Service Subscription

Summary

This section displays a summary of the findings from the DNS Security service, a cloud-based analytics platform. Findings include :

- DNS Requests processed
- Malicious Domains Identified
- Malicious IPs identified
- Malicious Traffic Origin Countries
- Malware Families
- Malicious Requests identified

Traffic Distribution

Displays percentage of DNS traffic, Malicious traffic and the distribution of malicious traffic (C2, DGA and Tunneling)

- Bar chart displaying DNS traffic, malicious traffic and the industry benchmarks for DNS traffic
- Donut chart on the left displays the percentage of DNS and Malicious traffic
- Donut chart on the right displays the percentage of C2, DGA and Tunneling queries

Domains and Destination Distribution

Displays top domains and top destination IPs with the most traffic in your network

- Bar chart on the top left displays top domains by traffic
- Bar chart on the top right displays top malicious domains IPs by traffic
- Bar chart on the bottom left displays top DNS resolvers by traffic observed in your network

Malicious Traffic Origin Countries and DNS Tunneling Requests

Displays countries identified as sources for Malicious domains, findings on DNS tunneling requests and DNS tunneling volume.

- A map of countries from which malicious traffic originated. The orange circles in the map highlight the countries from which most of the malicious traffic originated.
- Bar chart on the bottom right displays top malicious domains by DNS tunneling volume
- Bar chart on the bottom left displays top malicious domains by number of tunneling requests observed in your network

Known Malware and Families

Displays information on malware families associated with the malicious domains along with information on the tags observed in the network.

Matware Family	Domain Count	Top Domains	Decoription	
		u8zpkguu.186tha0xetbuu1xu55w.com	CoreBol's most interesting facility is its plugin	
		apyxpk91yy.h0ovx2t29i20mk3wu8im.com	system, enabling it to be modular and easily	
		ebzdcr4soz.11bsm2mp48m4m1kh3ok26zk.c om	supplemented with new theft capabilities. CoreBot downloads plugins from its command and-control (C&C) server right after setting its	
		dusb7c40d.k4ergp68o181qv1n5bn.com	persistence mechanism on the endpoint. It there	
		u1qpDy9wbcr1y9eedcuhz1e.Dru1c68hfhlyg5 epbhzzk7m.com	function in the plugin's DLL. At present, the ma plugin is called Stealer. CoreBot steals	
Corebox	1/0	8n2l12uqgc67k3bq4vhsp.07zinntto2hpgwbju s9q.com	passwords, but it is currently incapable of intercepting real-time data from Web browsers instead is shared in the	
		2oppm-hr.sqwzv2503f1qrkeilou.com	endpoint's browsers, scanning for passwords	
		km41ve5gbvvy.ppsn1x0mvpbf5v21xqq.com	on all the most popular browsers. CoreBot	
		eau7oezj-c4vabydaotk1bq.26u72tSig5sh0pb 9f0p5o.com	mail clients, webmail accounts, cryptocurrency wailets, private certificates and personal data	
		lyThae-ayj.bx547p7x70e3yo2q63wv.com	from a list of various desktop applications.	
		ezbvūka5-dbiepusu8haemvz.dsunro89io.co m		
		x88dixyjluuf2chp.aldinks09l.com		
		gf7uvwnod2cb17lpdhx.fxtjzzs5y6.com		
		aua82hzamoj.q/96bnmuk.com	A targeted malware family which uses a DGA	
👄 madmax	27	pfwsh4330cqv.z5lb8pda1a.com	as a backup communications mechanism.	
		glhfulyu6ccp6g6o9b.h9f2nsdjb4.com	static analysis altempts.	
		www.8s32e590un.com		
		zyzeflan-3.13lb1smwm.com		
		s6.mkkicdnv6.com		
		s4.mitklicdrv4.com		
		buaumeer.uiocsmautp/giego/.com		
		metucitani Eberani 700-metucia 2000		
		ab to applicate and the application of the application of the		
		m		
		xvwue022.snzzro7ft881pihq6v.com	Rovnix writes malicious rootkit drivers to an	
- rovnite	14	le8sd6cq2vgqr5r3.705qalzzogqu[hcopo.co	unpartitioned space of the NTFS drive. This effectively hides the driver since the	
		m z22/5v244v-mcpcdpi-czzaw ouevoftwowi i Brc	unpartitioned space cannot be seen by the	
		lbs.com	openancy system and secondy products.	
		tgi-ot774t1nuw.ja8wegerwq2pzeztea.com		
		29haohov7kub42vm7k6n-9.prlud2k250za0df eg8.com		
		or-x4el5b5z7swl95cw1z1s.pvgtud60q0svh		

Report Summary

The summary page provides a complete view of all report data, followed by an editable page.

- Summary of the key statistics from the Executive Summary page and various "Key Findings" throughout the report.
- Business-level recommendations.

Sui	mmary: Acme Corporatio	n
The analysis determined that a wide range of ap potential business and security risks to Acme Co policies that, not only allow business to continue	plications and cyber attacks were present on t prporation, but also an ideal opportunity to imp growing, but reduce the overall risk exposure	he network. This activity represents element safe application enablement of the organization.
HIGHLIGHTS INCLUDE:		_
		2
 High-risk applications such as file-sharing, to their potential for abuse. 	email and photo-video were observed on the	network, which should be investigated due
• 328 total applications were seen on the net	work across 28 sub-categories, as opposed to	an industry average of 195 total
applications seen in other High Technology	r organizations.	s web-browsing smith and fin
 50 malware events were observed, versus 	an industry average of 297,629 across your pe	er group.
• 10 total applications were used for comman	d and control communication.	
	KEY FINDINGS	
328	74	80
		SAAS APPLICATIONS
APPLICATIONS IN USE	HIGH RISK APPLICATIONS	SAAS APPLICATIONS
2 500	4 404	50
3,300	0,070	30
VULNERABILITY EXPLOITS	TOTAL THREATS	MALWARE DETECTED Known: 22 Unknown: 28
	RECOMMENDATIONS	
		3
 Implement sate application enablement pol to all others. 	ices, by only allowing the applications needed	tor business, and applying granular control
	ential for abuse, such as remote access, file sha	aring, or encrypted tunnels.
 Address high-risk applications with the pote 		