

## OPERATIONS & INTELLIGENCE EXECUTIVE CYBER SECURITY REPORT

# **Copa Airlines**

July, 2018

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## **Table of Contents**

About This Report	3
Confidentiality	
Scope of this Report	
Executive Summary	
Recommendations	
Intelligence Section Per Service Module	13
Cyber Security Operations	
Definitions	



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## **About This Report**

The purpose of this document is to report on the "state" of security for your organization. It must be noted that GLESEC bases its information analysis on the services under contract. The information generated by these services is then aggregated, correlated and analyzed. The more complete the set of services under contract the more accurate and complete the results will be.

The report is organized in three parts; the first is the Executive Summary with recommendations (as necessary or applicable), the second is the Intelligence Section with more detail information and analysis dashboards and the last is Operational Section with status of the services and counter-measures under contract, tickets for change management and incidents reported and consulting activity for the month.

We at GLESEC believe that information security is a holistic and dynamic process that requires on-going research and follow up and should be handled with the right tools, systems, processes, skill personnel and focus attention. The process is dynamic due to the constant discovery of new security vulnerabilities and exploits, the proliferation of hacking tools that make it easier for script-kiddies with minimal knowledge to cause damage. The increase in malware, phishing, insider threats, espionage, organized crime, intellectual property theft, and hacktivism are the very cause of information security exposure and are most commonly driven by financial gain. GLESEC's outsourcing services, based on its proprietary TIPTM platform portfolio provide the ideal response to the above.

## Confidentiality

GLESEC considers the confidentiality of client's information as a trade secret. The information in this context is classified as:

- Client name and contact information
- System architecture, configuration, access methods and access control
- Security content

All the above information is kept secure to the extent in which GLESEC secures its own confidential information.





## Scope of this Report

#### **GLESEC Contracted Services Table**

This table list of GLESEC TIP<sup>™</sup> services and indicate which are contracted and the corresponding service expiration dates of the contracts.

Туре	Service	Contracted?	Service Expiration
Threat Mitigation	MSS-APS		
Threat Mitigation	MSS-APS-SSL		
Threat Mitigation	MSS-APS-PS		
Threat Mitigation	MSS-APFW		
Vulnerability Testing	MSS-VME	YES	10/30/2018
Vulnerability Testing	MSS-VMI		
Compliance	MSS-EPS		
Threat Mitigation	MSS-SIEM		
Risk assessment	MSS-BAS		
Threat Mitigation	MSS-EIR		
Threat Mitigation	MSS-UTM		
Threat Mitigation	MSS-INT		
Access Control	MSS-TAS	YES	10/30/2018



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## **Executive Summary**

This report corresponds to the period from July 2018.

The following table describes the major categories that GLESEC has identified to report on the state-of-security of its member-clients. The categories in the table below are based on risk-management methodology. This is a principal foundational aspect of GLESEC.

RISK / RIESGO
VULNERABILITIES / VULNERABILIDADES  • MSS-VM Service
THREATS / AMENAZAS • MSS-APS; MSS-EPS; MSS-SIEM; MSS-EIR; MSS-UTM
ASSETS / ACTIVOS • MSS-VM; MSS-EPS
COMPLIANCE / CUMPLIMIENTO • MSS-EPS
SECURITY VALIDATION / VALIDACION • MSS-BAS
TRUSTED ACCESS / ACCESS CON CONFIABILITIDAD • MSS-TAS

#### RISK

Risk management is the ongoing process of identifying, assessing, and responding to risk. To manage risk, organizations should understand the likelihood that an event will occur and the resulting impact. With this information, organizations can determine the acceptable level of risk for delivery of services and can express this as their risk tolerance. The NIST Cyber-Security Framework

One of GLESEC's foundational columns is basing all its activities to support RISK determination and mitigation. What any organization should want to know if what is their level of RISK, and in this case in particular to cyber-security. Cyber-Security RISK has a direct impact to the business and as such is of paramount importance to the Board and Management of the company.

We at GLESEC measure RISK through a number of perspectives and using several of the  $TIP^{TM}$  platform portfolio of services. The MSS-VM or Managed Vulnerability



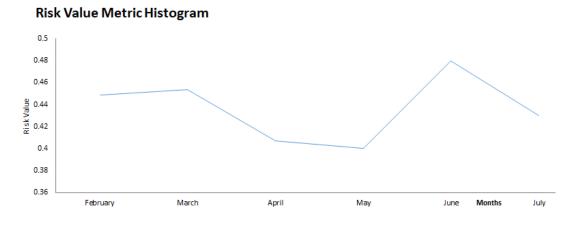
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Service provides us with one view, how weak are the systems of the organization. The MSS-BAS provides us a view of how weak is the defenses of the organization to the latest threats. The MSS-APS, MSS-SIEM, MSS-UTM, MSS-EIR, MSS-EPS provides us with attack information both internal and external, DDOS, Malware, Ransomware and other attack vector information as well as provide protection level services. The MSS-EPS also provides us RISK level information for non-compliance with internal or external requirements and/or regulations. All in all a variety of services provide us with different views and together we have the most complete view of our client's security posture.

We determine that the risk condition for the Copa Airlines for the month of July is Critical. This can be seen in the security indicator as indicated below.

<u>Risk</u>	Indicator	<u>Service</u>	<u>Condition</u>	<u>Comments</u>
Risk	Value Metric	MSS-VME	HIGH	One high vulnerability has been identified this month. Just one of can cause an impact to the Copa Airlines

The RISK VALUE METRIC histogram below represents the changes in the Vulnerability based Risk Value Metric over the past six months.



During this month of July, we can observe that the level of risk has decreased from 0.4821 presented the previous month to 0.4386 in the current month.

During this period of the month, 7 of its systems were accessed, 1 system less than in June.



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The host considered high for your organization is the 201.218.212.9, accepts connections encrypted using SSL 2.0 and SSL 3. Additional details of the severity of their systems are in our monthly technical report

#### VULNERABILITIES

GLESEC's MSS-VM(E/I) service is used to conduct two weekly testing to external and/or internal systems (depending on the options of the contracted service). Of the two tests performed weekly, one is to test for discovery of assets on the network and the other to test for vulnerabilities. The external testing is performed from GLESEC' cloud platform and the internal is conducted with the GLESEC Multi-security Appliance (GMSA).

Vulnerabilities are weaknesses that if exploited can compromise the organization and as such are a component of RISK for the organization. If there are vulnerabilities and also threats there is RISK that the organization can be impacted. The vulnerabilities reported by GLESEC should be considered all important and addressed according to the priority (Critical, High, Medium and Low). An effective process is to work with the GLESEC provided information and GLESEC consulting team to address the recommendations provided in a systematic and continuous way. Progress can be determined by the weekly testing.

In general, Copa Airlines' vulnerabilities in this July period have decreased considerably. The problems that arise are due to the detection of the service as of high severity and other general vulnerabilities of medium severity. The High vulnerability that is currently being presented is SSL Version 2 and 3 Protocol Detection on host 201.218.212.9.

#### **Risk Value Metric**

GLESEC utilizes a metric to provide a way to quantify the vulnerabilities-based risk of an organization. This metric is to measure the relative value of vulnerabilities and also the record of change over time.

It is important to mention that this metric considers a median value for the vulnerabilities classified as "critical", "high", "medium" and "low", giving them a weight of 100%, 75%, 50% and 10% respectively.

This takes into consideration all of the vulnerabilities, but is important to point out that this values (100%, 75%, 50% and 10%) are arbitrarily chosen by us, so this measure can in time change as we understand more of the risks involved. We can use this metric to evaluate the progress in time and to compare one over the other



using a common amount set.

The following external network ranges for Copa Airlines were scanned for vulnerabilities.

The following table indicates the external vulnerability metric.

	Total IP's Scanned IP's Vulnerable			erable		
7			7			
			Risk Distri	bution		
	Critical	High	Medium	Low	Total	
	0	1	17	4	22	
1	According to the metrics: RV= 0.438636364					
The fol	lowing valu	ies are to	clarify RV:			
RV=1 Points to every IP address in the infrastructure that are susceptible to attacks						
RV=0 Points to no IP address in the infrastructure aret susceptible to attacks						
RV=0.1	Point to 1,	/10 IP add	dress in the inf	frastructur	e that are su	sceptible to attacks

External listing of vulnerabilities by condition:

Host 0	✓ Critical ≎	/	High 🌣 🖌	Medium 🌣 🧭	Low 🌣 🖌
201.218.212.9			1	8	2
200.46.240.137			0	4	0
52.86.152.128			0	1	1
201.218.212.35			0	2	0
34.199.239.56			0	0	1
52.3.92.27			0	1	0
200.46.241.161			0	1	0

The following table provides a comparison of persistent external vulnerabilities of the current month and previous month.

host-ip 0	/	Previous Month 🗧 🖉	Current Month 0
200.46.240.137		5	4
200.46.241.161		1	1
201.218.212.35		3	2
201.218.212.9		12	11
34.199.239.56		1	1
52.3.92.27		2	1
52.86.152.128		3	2
54.164.239.210		1	

Please view Recommendations for more details. This can be seen on the GLESEC



#### MEMBER PORTAL (GMP).

Vulnerability Categories

The following table indicates the categories that we use for vulnerabilities as a way to provide context to them and facilitate the prioritization of how to handle remediation.

Preliminary Analysis	Firewalls	Network Devices
SMB/NetBIOS	SSH Servers	Malformed Packets
Simple Network Services	Mail Servers	Proxy Servers
Policy Checks	SQL Servers	Wireless AP
Web Servers	FTP Servers	Webmail Servers
RPC Services	Server Side	NFS Services
	Scripts	
Backdoors	SNMP Services	Printers
Encryption and Authentication	DNS Servers	

Based on the above the following table shows a matrix of the total External vulnerabilities by category.

Category 0	Critical 🗘	High 0	Medium 0	Low 0	Total 0
General		0	14	3	17
Web Servers		0	2	1	3
Misc.		0	1	0	1
Service detection		1	0	0	1

#### THREATS

GLESEC uses its MSS-APS, MSS-EPS, MSS-SIEM, MSS-EIR and MSS-UTM to determine threat intelligence activity.

The services that provide us with information for this section have not been contracted.

#### ASSETS

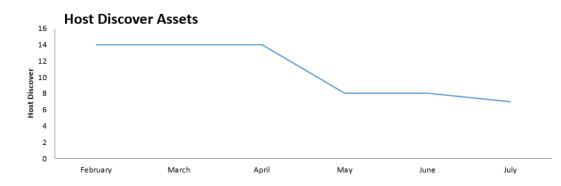
We believe that we cannot protect what we don't know and to know the assets (systems and applications) is critical to having a sound cyber security practice. Therefore, we encourage you to verify the information that we provide and let us know if anything is suspicious or just not right. We can work with your organization to create a baseline that can be used to identify deviations. Please contact our GOC for assistance in this matter.



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The MSS-VM(E/I) identify network assets while the MSS-EPS identify applications. Depending on the contracted services is the listing that can be provided of system or application assets. The MSS-VM(E/I), MSS-EPS conduct weekly testing.

The Host Discovery histogram below represents the changes in the Host Discovery inspections over the past six months



In this graph we can compare with the previous month, which have decreased the total of discovered hosts. in the month of June a total of 8 hosts were detected, where the 8 were vulnerable, and in the current month of July, there is a total of 7 discovered hosts of which the 7 are vulnerable. The host that was not present this month has the following IP address 54.164.239.210, it could have been off or out of service at the time of scanning.

During the last months we have noticed a decrease in accessibility in their systems, for GLESEC, it is important to know if these servers should be 100% operational during the whole day or if they experience downtime at specific hours.

#### COMPLIANCE

The MSS-EPS or Managed End Point Security Service is a Compliance and Remediation Service. For compliance we understand the testing, monitoring and alerting of deviations of the parameters of all "hosts" and "servers" in the organization from established <u>baselines</u>. These baselines can be created to support specific outside requirements or internal best-practice guidelines. The MSS-EPS can monitor deviations to these baselines and also "enforce" compliance with these.

The services that provide us with information for this section have not been contracted.

#### CYBER SECURITY VALIDATION

Security Validation implies the validation of the entire security by conducting testing



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with simulated attacks. This is conducted with the Managed Breach Attack Simulation Service (MSS-BAS). The MSS-BAS is a collection of advanced preexploitation, post- exploitation and awareness testing services. The testing is on real targets based on simulated attacks; therefore, these provide conclusive (no false positive) results. The different attack vectors test the organization's configurations, countermeasures, implementations and ability to respond in a <u>continuous</u> fashion producing valuable intelligence and recommendations.

The services that provide us with information for this section have not been contracted.

#### TRUSTED ACCESS

The new IT model brings with it a greater attack surface, comprised by employees that use their own devices for work, while working remotely. The proliferation of cloud applications for nearly every business need has also contributed to increased technical complexity. These days, attackers can expose much different vulnerability in multiple vectors — in a single attack. Traditional security is designed to address separate, siloes attacks, making these solutions ineffective against modern threats. These new threats center on gaining remote access to your apps and data — whether it's with stolen passwords or exploited known vulnerabilities targeting your users, their out-of date devices, cloud applications and remote access software.

The Managed Trusted Access Service (MSS-TAS) is a holistic security service to (a) ensure that the user's access is trusted (valid user) and (b) the devices used by the user to authenticate meet the organization's security standards.

During previous month, Member-Client Copa Airlines had a successfully access rate of 92.9%, there 58 denied authentications, 756 granted authentications. It is also worth mentioning that from the total of 638 users.

Copa Airlines presents the following out-of-date:

- Endpoints With Out-of-Date Operating Systems 94
- Endpoints With Out-of-Date Browsers 11
- Endpoints With Out-of-Date Plugins 10



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## Recommendations

GLESEC recommends for Copa Airlines to address the following

- 1. Take immediate actions to the detailed recommendations in this report.
- 2. Certificates that can be trusted or SSL Certificate Chain contains RSA keys less than 2048 bits should be corrected.
- 3. SSL medium Strength cipher suites should not be allowed for SSL connections.
- 4. We recommend applying the most recent patches for your endpoints, since we have identified that 75% of the devices used for the TAS service have outdated software installed.
- 5. It is recommended to review the host with IP 201.218.212.9, which is presenting an Internet Key Exchange (IKE) vulnerability Aggressive Mode with Pre-Shared Key. The following is requested:
- Disable aggressive mode if it is compatible.
- Do not use the pre-shared key for authentication if possible.
- If the use of the pre-shared key cannot be avoided, use very strong keys.
- If possible, do not allow VPN connections from any IP address.
- 6. It is recommended to disable SSL 2.0 and 3.0. Use TLS 1.1 (with approved encryption sets) or higher instead.

In our Technical Report monthly you will find more information about the affected hosts of the mentioned vulnerabilities.

Alert: All mentioned vulnerabilities have exploits available and are on the internet can be downloaded and used against you.



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## Intelligence Section Per Service Module

#### Managed Vulnerability Service (MSS-VM) Intelligence Section

The Managed Vulnerability Service (MSS-VM) enables organizations to minimize the risk of vulnerabilities by quickly discovering weaknesses, measuring the potential risk and exposure, reporting, providing remediation information necessary to mitigate those risks on an on-going basis and facilitating reporting and compliance with regulations and best practices.

The purpose of this section is to highlight intelligence gathered from this and other services under contract as well as outside sources such honeypots, known malicious sources, vulnerability databases, relationships with CERT and CSIRT teams that GLESEC possesses, together with various other threat feeds.

The following graphs are dashboards generated by GLESEC's  $TIP^{TM}$  platform. These dashboards are representative of metrics for this service.

It is important to establish a vulnerability management program as part of the information security strategy because soon after new vulnerabilities are discovered and reported by security researchers or vendors, attackers engineer exploit code and then launch that code against targets of interest. Any significant delays in finding or fixing software with dangerous vulnerabilities provides ample opportunity for persistent attackers to break through, gaining control over the vulnerable machines and getting access to the sensitive data they contain. Organizations that do not scan for vulnerabilities and proactively address discovered flaws face a significant likelihood of having their systems compromised.

Many of the vulnerabilities will provide CVE data. CVE (Common Vulnerabilities and Exposures) is a list of information security exposures and vulnerabilities sponsored by US-CERT and maintained by the MITRE Corporation. The CVE mission is to provide standard names for all publicly known security exposures as well as standard definitions for security terms. The CVE can be searched online at http://nvd.nist.gov/.

#### Vulnerability Score

The score of vulnerability is determined by its risk factor; Critical, High, Medium or Low, as well as its value in the Common Vulnerability Scoring System (CVSS). The CVSS "base score" represents the innate risk characteristic of each vulnerability. CVSS is a vulnerability scoring system designed to provide an open and standardized method for rating IT vulnerabilities. CVSS helps organizations prioritize and



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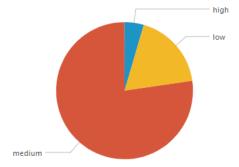
coordinate a joint response to security vulnerabilities by communicating the base, temporal and environmental properties of each vulnerability. In addition to numeric scores, the CVSS provides severity rankings of High, Medium, and Low but these qualitative rankings are simply mapped from the numeric CVSS scores. Vulnerabilities are labeled as:

Low risk if they have a CVSS base score of 0.0 - 3.9Medium risk if they have a CVSS base score of 4.0 - 6.9High risk if they have a CVSS base score of 7.0 - 10.0

```
Vulnerability Information
```

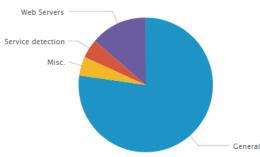
Graph: Risk Distribution

This report depicts the risk distribution of vulnerabilities discovered this report period



Graph: Most Frequent Vulnerability Category

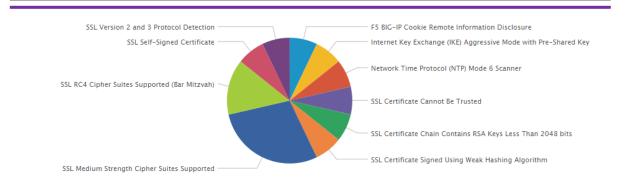
This report depicts the most frequent vulnerabilities by category discovered this report period



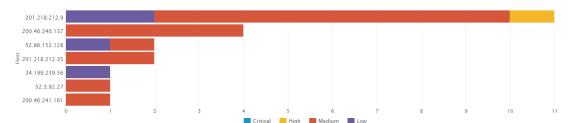
Graph: Most Frequent Vulnerability Name This report depicts the most frequent vulnerabilities discovered this report period



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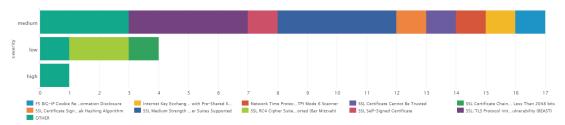


#### Graph: Most Vulnerable Host This report depicts the most vulnerable hosts discovered in this report period



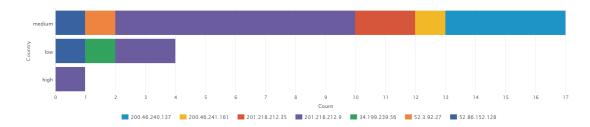
Graph: Vulnerability Risk by Vulnerability Name

This report illustrates the vulnerability risk and count by vulnerability name discovered this report period



#### Graph: Vulnerability Risk by Host

This report illustrates the vulnerability risk and count by category discovered this report period



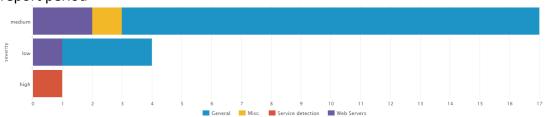


Page 15

Copa Airlines

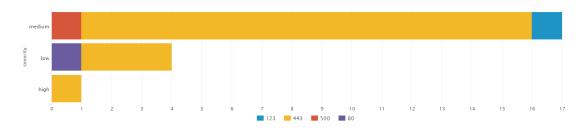
#### Graph: Vulnerability Risk by Category

This report illustrates the vulnerability risk and count by category discovered this report period



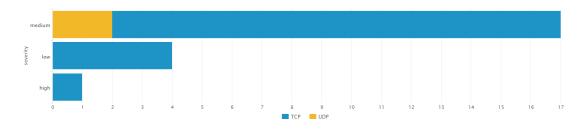
Graph: Vulnerability Risk by Port

This report illustrates the vulnerability risk and count by port discovered this report period



Graph: Vulnerability Risk by Protocol

This report illustrates the vulnerability risk and count by protocol discovered this report period



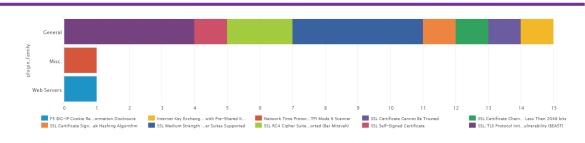
Graph: Vulnerability Category by Vulnerability Name This report illustrates the vulnerability category and count by vulnerability name discovered this report period



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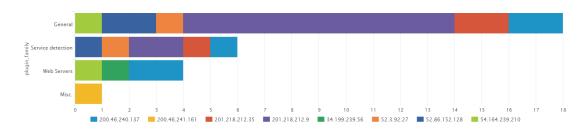
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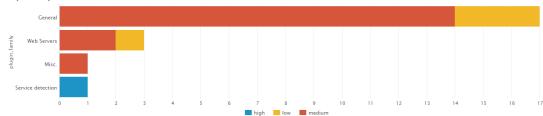
Graph: Vulnerability Category by Host

This report illustrates the vulnerability category and count by host discovered this report period



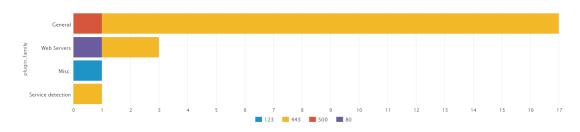
Graph: Vulnerability Category by Risk

This report illustrates the vulnerability category and count by risk discovered this report period



Graph: Vulnerability Category by Port

This report illustrates the vulnerability category and count by port discovered this report period





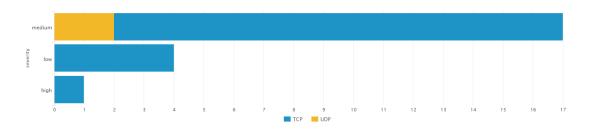
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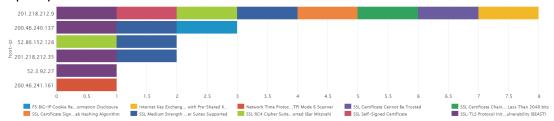
#### Graph: Vulnerability Category by Protocol

This report illustrates the vulnerability category and count by protocol discovered this report period



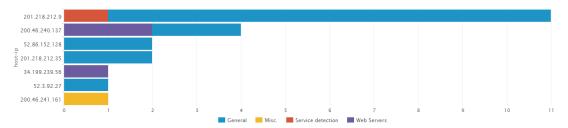
#### Graph: Host by Vulnerability Name

This report illustrates the vulnerability name and count by hosts discovered this report period



#### Graph: Host by Vulnerability Category

This report illustrates the vulnerability category and count by hosts discovered this report period

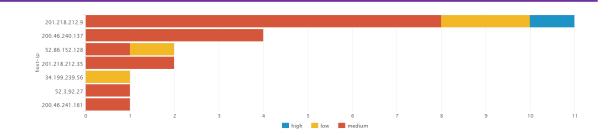


Graph: Host by Vulnerability Risk

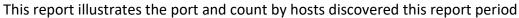
This report illustrates the vulnerability risk and count by hosts discovered this report period

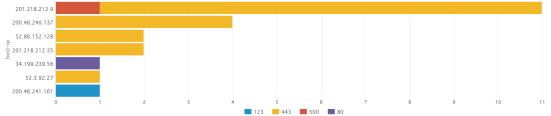


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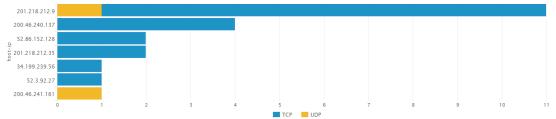
#### Graph: Host by Port





#### Graph: Host by Protocol

This report illustrates the protocol and count by hosts discovered this report period





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#### Managed Trusted Access Service (MSS-TAS) Intelligence Section

The Managed Trusted Access Service (MSS-TAS) is a holistic security service to (a) ensure that the users access is trusted (valid user) and (b) the devices used by the user to authenticate meet the organization's security standards. This is achieved by GLESEC's cloud-based service, part of the TIP<sup>TM</sup> platform.

The purpose of this section is to highlight intelligence gathered from this and other services under contract as well as outside sources such honeypots, known malicious sources, vulnerability databases, relationships with CERT and CSIRT teams that GLESEC possesses, together with various other threat feeds.

The following graphs are dashboards generated by GLESEC's  $TIP^{TM}$  platform. These dashboards are representative of metrics for this service.

Graph: User two-factor authentication.

This graph shows the total users (active and inactive) for the two factor authentication method on your network.

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Graph: Total Endpoints.

This graph shows the number of different endpoints used to access your organization system during this period.

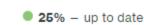


Graph: Endpoints out of date

This graph shows the number of devices that do not have the most recent updates installed.

#### 208 Devices

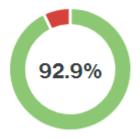
75% – out of date



Graph: Overview This graph shows Success Rate of All Authentications

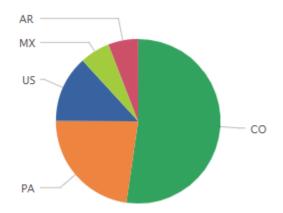


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Graph: Authentication Per Country

This pie chart depicts the proportion of authentications from the different countries of origin



Graph: Successful Authentications by Factor

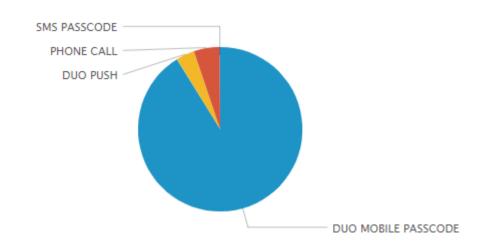
This pie chart shows the different authentication methods used when access was granted





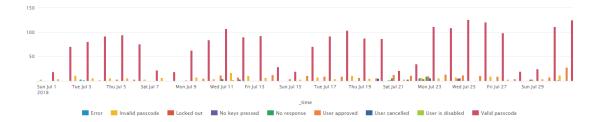
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Graph: Successful and failed Authentications

This chart shows the amount of authentication requests on a weekly basis through this period





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## Cyber Security Operations

The purpose of this section is to highlight the activities performed by GLESEC's Global Operations Center (GOC) including: monitoring availability and performance of services under contract, Change Management, Incident Response activities and Consulting Activities.

#### **PROFESSIONAL SERVICES ACTIVITY**

Below we outline the usage of the consulting retainer of professional services activity for the corresponding month. In this we show the total billable and non-billable hours, the contracted retainer, the total hours used in the month and the hours above the retainer.

Billable consulting hours	Non-billable consulting hours	Contracted retainer hours	Total Hours utilized	Hours above retainer
0	0	1	0	0

#### TICKET ACTIVITY

In this section we report on all the change management and incidents tickets for the month.

Monthly Reports Copa 2018-07-01 00:00:00-2018-07-[]			printed by Deyka Atencio (de
Number	Ticket#	Title	Created
1	2018071910000089	Reporte Mensual de Operaciones & Inteligencia E 2018	Ejecutivo y Tecnico, Junio 2018-07-19 11:41
2	2018070510000079	TLP AMBER COPA AIRLINES INCIDENT REPORT 11	80 2018-07-05 18:02

All the services operated normally during the month of July.



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## Definitions

A more complete list is available on the GMP portal

**High Vulnerabilities** are defined as being in one or more of the following categories: Backdoors, full Read/Write access to files, remote Command Execution, Potential Trojan Horses, or critical Information Disclosure (e.g. passwords).

**Medium Vulnerabilities** describes vulnerabilities that either expose sensitive data, directory browsing and traversal, disclosure of security controls, facilitate unauthorized use of services or denial of service to an attacker.

**Low Vulnerabilities** describes vulnerabilities that allow preliminary or sensitive information gathering for an attacker or pose risks that are not entirely security related but maybe used in social engineering or similar attacks.

SMB/NetBIOS vulnerabilities could allow remote code execution on affected systems. An attacker who successfully exploits these vulnerabilities could install programs; view, change, or delete data; or create new accounts with full user rights. Firewall best practices and standard default firewall configurations can help protect networks from attacks that originate outside the enterprise perimeter. Best practices recommend that systems that are connected to the Internet have a minimal number of ports exposed.

Simple Network vulnerabilities affect protocols like NTP, ICMP and common network applications like SharePoint among others. This is not meant to be a comprehensive list.

Authentication and encryption are two intertwined technologies that help to insure that your data remains secure. Authentication is the process of insuring that both ends of the connection are in fact "who" they say they are. This applies not only to the entity trying to access a service (such as an end user) but to the entity providing the service, as well (such as a file server or Web site). Encryption helps to insure that the information within a session is not compromised. This includes not only reading the information within a data stream, but altering it, as well.

While authentication and encryption each has its own responsibilities in securing a communication session, maximum protection can only be achieved when the two are combined. For this reason, many security protocols contain both authentication and encryption specifications.



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