



OPERATIONS & INTELLIGENCE EXECUTIVE CYBER SECURITY REPORT

Inspira Health Network

June, 2018

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Inspira Health Network

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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 TIPTM services and indicate which are contracted and the corresponding service expiration dates of the contracts.

Туре	Service	Contracted?	Service Expiration
Threat Mitigation	MSS-APS	YES	12/31/2018
Threat Mitigation	MSS-APS-SSL		
Threat Mitigation	MSS-APS-PS		
Threat Mitigation	MSS-APFW		
Vulnerability Testing	MSS-VME	YES	12/31/2018
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		



Executive Summary

This report corresponds to the period from June, 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 TIPTM platform portfolio of services. The MSS-VM or Managed Vulnerability Service provides us with one view, how weak are the systems of the organization. The MSS-BAS provides us a view of how weak are 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.

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



During this month period of the month as the graph shows there is an increase in its level of risk, the reason is the increase in the high level vulnerabilities that are related to the TLS protocol, it is important to mention that during our tests there is a decrease in their hosts vulnerable totals from 10 last month to 8 during this period. The details of the vulnerabilities of your systems are in our monthly technical report.

The details of the vulnerabilities of your systems are in our monthly technical report. For GLESEC, it is important to know if these servers should be 100% operational throughout the day or if they experience a downtime at specific times.

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.

The total number of vulnerabilities for this period was 31, classified as follows: 9 for high risk, 17 for medium risk and 10 for low risk.

The hosts that have the most vulnerabilities are the following: 170.75.33.134, 170.5.33.139, 170.75.49.35 and 170.75.32.15, among these vulnerabilities we can mention: SSL Medium Strength Cipher Suites Supported, SSL Certificate Cannot Be Trusted, SSL RC4 Cipher Supported Suites (Bar Mitzvah), SSL Version 2 and 3 Protocol Detection, SSLv3 Padding Oracle On Downgraded Legacy Encryption Vulnerability (POODLE) and SSL / TLS Diffie-Hellman Modulus <= 1024 Bits (Logjam), these represent a medium risk which means that the attackers could take advantage of them and try to cause a negative impact on their organization.

We can mention that the vulnerabilities for this period have decreased compared to the previous month, however, high-level vulnerabilities appear in their systems. You can find a description of these vulnerabilities in the technical report in the section of vulnerabilities by gravity.

The ports considered most vulnerable for this period were 443 (HTTPS) and 500 (IKE). This is due to the fact that a lot of vulnerability related to them was found and classified as a medium severity level.

it is necessary to follow the recommendations to reduce the number of current vulnerabilities.

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 170.75.48.0/20,170.75.32.0/20 for Inspira Health Network was scanned for vulnerabilities.

The following table indicates the external vulnerability metric.

	Total IP's Scanned					able
58					8	
	Critical	High	Medium	Low	Total	
	0	9	17	10	36	·

According to the metrics:

RV= 0.062260536

The following values 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 address in the infrastructure that are susceptible to attacks

External listing of vulnerabilities by condition:

Host ≎	/	Critical 0	/	High ≎ 💉	Medium 🌣 💉	Low ≎ ✓	Total 🗘 📝
170.75.33.134				2	4	2	8
170.75.33.139				2	3	2	7
170.75.49.35				2	3	2	7
170.75.33.55				2	3	1	6
170.75.32.15				1	2	2	5
170.75.33.169				0	1	1	2
170.75.33.125				0	1	0	1

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



Inspira Health Network



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.

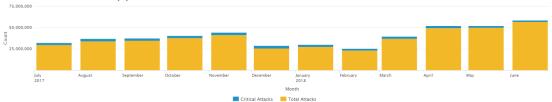
Category 0	Critical 0	High ≎	Medium 0	Low 0	Total 0
General		0	16	5	21
Service detection		9	0	0	9
Misc.		0	0	3	3
Web Servers		0	0	2	2
Windows		0	1	0	1



THREATS

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

The Threats as reported by the MSS-APS, MSS-EPS, MSS-SIEM, MSS-EIR, and MSS-UTM for this month are Scanning, Access and Behavioral-DoS. All these threats were identified and dropped.



For the month we observed an increase in the activity of attacks of the previous month of approximately 13.62% and a decrease in the critical attacks of the previous month of approximately 16.28%.

Most attacks are more than an hour and less than a minute and are directed to several ports. Port 8545 is intended for frequent scanning; if it is not necessary to leave it open, it would be advisable to close it or filter it from outside traffic. Ports 1433 and 3389 are also targets for scanners, these ports correspond to SQL Server and IANA registered for Microsoft's WBT server, used for remote desktop connections and Windows Remote Assistance (RDP - Remote Desktop Protocol), respectively. All these examples should only be open to the internet if it is strictly necessary.

Most attacks seem to be recognition (scanning). Approximately 89.254% of the attacks this month came from a scan that can be considered recognition and is used by attackers to find open points in the network. Another of the categories that present attacks are Access with 6.391% and Behavorial-DOS with 2.995%.

The attacks are, for the most part, the Russian Federation (43%), the United States (19%) and Chile (10.6%) as the three main sources. Among others, we could recognize TCP Scans and Ping Sweeps that belong to the Anti-Scanning category; and the TCP-SYN network floods that belong to the Behavorial-DoS category.



Based on the information gathered from the security countermeasures during this period 56,774,059 attacks on Inspira Health Network; 1,939,762 of which were considered critical were all stopped by the GLESEC managed security countermeasures.

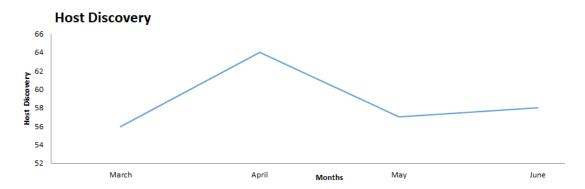
Inspira Health Network receives an average of 34,864,448 total attacks and 2,487,505 critical attacks on a monthly basis. This equates to an average of 1,231,265 total daily attacks and 84,875 critical daily attacks.

ASSETS

The MSS-VM (E/I), MSS-EPS conduct weekly testing. 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.

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.

The following histogram shows the past six-month total of number of systems discovered in the perimeter of your organization.



Knowing what is in your network is extremely important. During our tests we could reach 58 host, a host more than the previous month and corresponds to the number of range granted by you organization.

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 with simulated attacks. This is conducted with the Managed Breach Attack Simulation Service (MSS-BAS). The MSS-BAS is a collection of advanced pre-exploitation, 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 users' access is trusted (valid user) and (b) the devices used by the user to authenticate meet the organization's security standards.

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



Recommendations

GLESEC recommends for Inspira Health Network to address the following:

- 1. Take action on every recommendation mentioned on this section
- 2. Enable support for TLS 1.1 and 1.2, and disable support for TLS 1.0.
- 3. Many of the vulnerabilities present in the scanned devices, correspond to the use of SSL protocols, SSL has become an obsolete protocol and has many well documented vulnerabilities such as POODLE and Bar Mitzvah. The recommended practice is to implement TLS version 1.2, that is the most secure implementation as of today.
 - One of the vulnerabilities that occurs most frequently is the SSL Medium Strength Cipher Suites Supported, avoid the use of keys of at least 64 bits and less than 112 bits, or that uses the 3DES encryption set.
- 4. During this month, multiple ports were target of attacks; but 2 ports were specifically targeted: port 8545(JSON-RPC) and 22(SSH).
 - JSON-RPC is a protocol commonly used to execute commands in a remote server for administration purposes, sometimes it is used as part of a cryptocurrency setup in a server, the Ethereum; since this protocol can be used to remotely administrate another device, this port should not be reachable from the internet. Check if this port is open in any device, and block if it's open, since it has been a frequent target during this month's attack.
 - SSH is a protocol commonly used to remotely login into devices using a secure channel, despite using a secure channel to authenticate it a common practice to block this port from being accessible from the internet. Check if this port is open in any device, and block if it's open, since it has been a frequent target during this month's attack.
- 5. Take notice to the solution process of the Internet Key Exchange (IKE) Aggressive Mode with Pre-Shared Key, described in the Vulnerabilities by severity section of the technical report on hosts 170.75.32.15



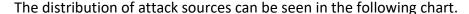
Intelligence Section Per Service Module

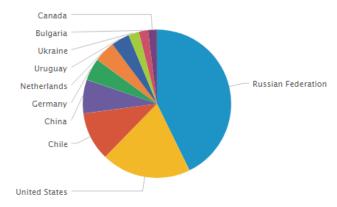
MANAGED ATTACK PROTECTION SERVICE (MSS-APS) SECURITY INTELLIGENCE SECTION

The MSS-APS is a comprehensive Managed Attack Protection Service that provides protection against: Directed or automated intrusion attacks, DDOS attacks, Internal and external attacks, network-based level attacks, encrypted attacks, attacks to cloud based services, attacks that can consume the bandwidth of the Internet Service Providers to your organization. The service responds to Risk of lack of availability for critical systems due to a DDOS attack, Risk of data leakage due to an intruder, Risk of loss of funds due to an intruder, Risk of corporate image tainting thru a defacement of organization public sites.

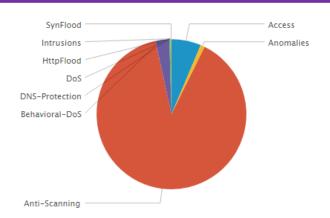
The purpose of this section is to highlight intelligence gathered from the services under contract as well as outside sources such honeypots, known malicious sources, vulnerability databases, relationships with CERT and CSIRT teams that GLESEC possesses, together with various other threat feeds.

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



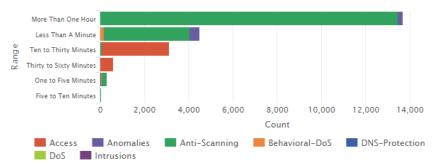


The distribution of attacks per type can be seen in the following diagram.



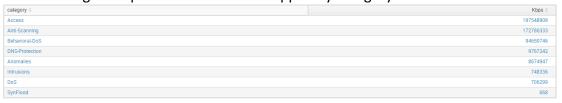
Duration

Attack duration for specific categories for this report period is illustrated below.



Bandwidth

The following table presents the traffic dropped by category.



*Please view the Bandwidth Information, and Graph: Bandwidth by Blocked Threat Category by Hour of Day and Graph: Top Attacks Blocked by Bandwidth and Graph: Attack Categories Blocked by Bandwidth available in the Security Intelligence section of the report.

Port Activity

The advanced intrusion detection and prevention capabilities offered by the DefensePro IPS NBA, DoS and Reputation Service provides maximum protection for network elements, hosts and applications. It is composed of different application-

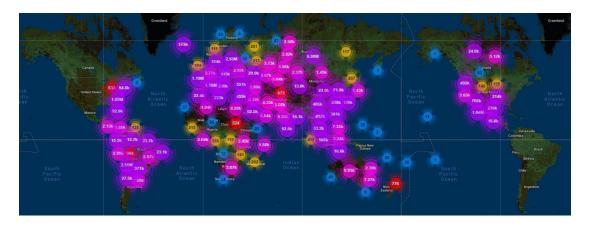


level protection features to prevent intrusion attempts such as worms, Trojan horses and single-bullet attacks, facilitating complete and high-speed cleansing of all malicious intrusions.

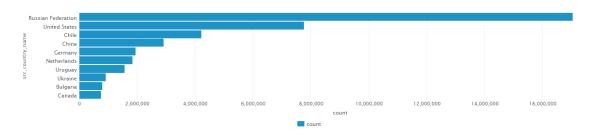
The DefensePro assisted in preventing attacks directed at network and server level which were directed at well-known port numbers as seen in the following diagram.

Port number information utilized is based on IANA Service Name and Transport Protocol Port Number Registry and additional outside sources are used to illustrate the relationship to commonly exploited attacks vectors.

The vast majority of attacks on Inspira Health Network originated geographically from the following countries as seen in the attached diagram. Some results do not include location information that allows map plotting.

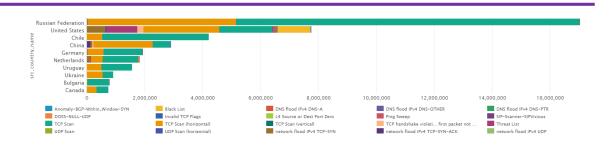


Graph: Top 10 Attacking Countries Blocked
This report provides the count of total attacks blocked by country.

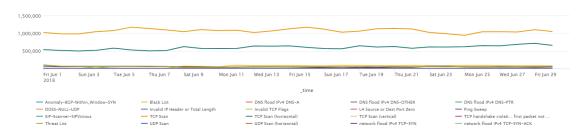


Graph: Top 10 Attacking Countries Blocked by Attack Type
This report provides the count of total attacks types blocked by country



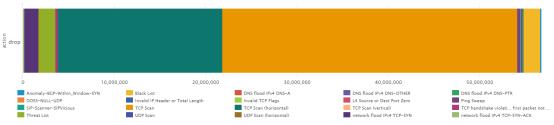


Graph: Attacks Types Blocked by Week
This report provides the count of attacks blocked by week



Graph: Attacks Denied

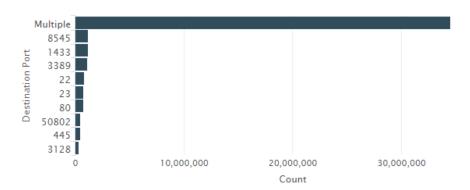
This report provides the count of total denied attacks along with network security rule.



Port Information

Port Information: Port 80 (http), Port 1443 (ms-sql), Port 8080 (https-alt), Port 3306 (mysql) commonly scanned in order to attack web servers. SQL injection is currently the most common form of web site attack in that web forms are very common, often they are not coded properly and the hacking tools used to find weaknesses and take advantage of them are commonly available online. This kind of exploit is easy enough to accomplish that even inexperienced hackers can accomplish mischief. However, in the hands of the very skilled hacker, a web code weakness can reveal root level access of web servers and from there attacks on other networked servers can be accomplished. Structured Query Language (SQL) is the nearly universal language of databases that allows the storage, manipulation, and retrieval of data. Databases that use SQL include MS SQL Server, MySQL, Oracle, PostgreSQL,





MongoDB, Access and Filemaker Pro and these databases are equally subject to SQL injection attack.

Web based forms must allow some access to your database to allow entry of data and a response, so this kind of attack bypasses firewalls and endpoint defenses. Any web form, even a simple logon form or search box, might provide access to your data by means of SQL injection if coded incorrectly.

OWASP Top 10 lists A1-Injection as the greatest threat and defines this category as: Injection flaws, such as SQL, OS, and LDAP injection occur when untrusted data is sent to an interpreter as part of a command or query. The attacker's hostile data can trick the interpreter into executing unintended commands or accessing data without proper authorization.

A SQL injection attack consists of insertion or "injection" of a SQL query via the input data from the client to the application. A successful SQL injection exploit can read sensitive data from the database, modify database data (Insert/Update/Delete), execute administration operations on the database (such as shutdown the DBMS), recover the content of a given file present on the DBMS file system and in some cases issue commands to the operating system. SQL injection attacks are a type of injection attack, in which SQL commands are injected into data-plane input in order to effect the execution of predefined SQL commands.

Graph: Attacks Blocked by Destination Port

This report provides information on the total number of attacks blocked that were attempted on which port and for how many times.



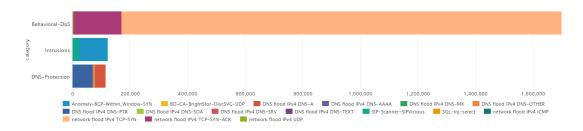
Graph: Attacks Blocked By Threat Category

This report lists the attacks blocked per Attack Category, listing the attack name.



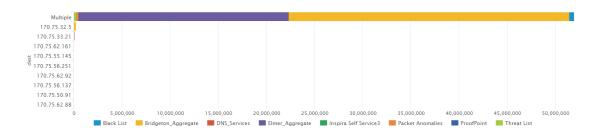
Graph: Critical Attacks Blocked

This report provides Critical Attacks information, attack name, network security rule along with the number of times the attack was launched.



Graph: Top Attacked Destinations Blocked

This report provides information on the system IPs, which were the destination of the attacks for most number of times along with the network security rule.

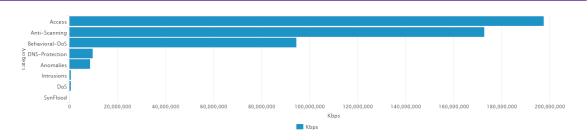


Graph: Attack Categories Blocked by Bandwidth

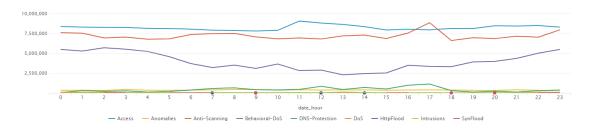
This report shows the attack categories based on the BW of the attacks sharing the same category including Kbps.



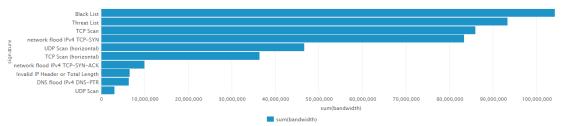
Inspira Health Network



Graph: Bandwidth by Blocked Threat Category by Hour of Day This report shows the most bandwidth consuming threat categories based on the bandwidth of the attacks sharing the same threat category for each hour of day.



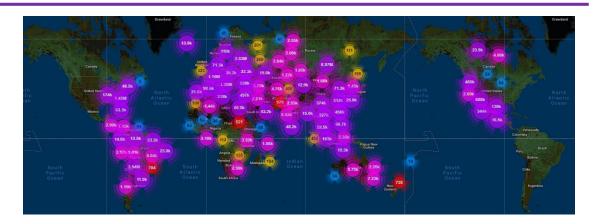
Graph: Top Attacks Blocked by Bandwidth
This report shows the most bandwidth consuming attacks based on the BW of the attack including Kbits.



Scanning Information

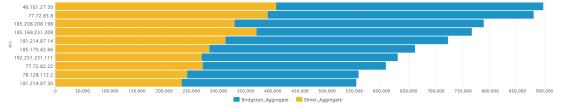
The following map displays geographic distribution of **29,048,996** attacks on Inspira Health Network from scanning sources. Some results do not include location information that allows map plotting.





Network-wide Anti Scanning protections dropped enumeration attempts which otherwise thwart any effort for threat modeling, commonplace after the information gathering phase of a targeted or planned attack.

Graph: Top Scanners Blocked (Source IP Addressed)
This report shows historical view of the Top source IP addresses that have scanned the network-by-network scanning activities along with the network security rule.



NOTE: See Appendix 2 – Top Scanners Blocked (Source IP Addressed)



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 a 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 coordinate a joint response to security vulnerabilities by communicating the base, temporal and environmental properties of each vulnerability. In addition to numeric



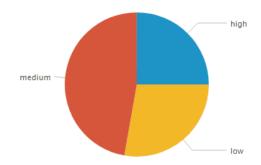
scores, the CVSS provides severity rankings of High, Medium, and Low but these qualitative rankings are simply mapped from the numeric CVSS scores. Vulnerabilities are labeled as:

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

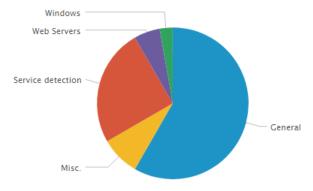
Vulnerability Information

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

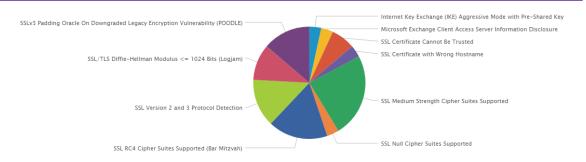


Graph: Most Frequent Vulnerability Name

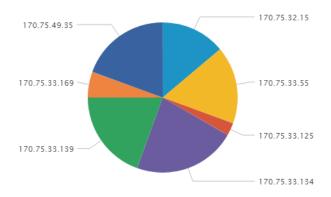
This report depicts the most frequent vulnerabilities discovered this report period



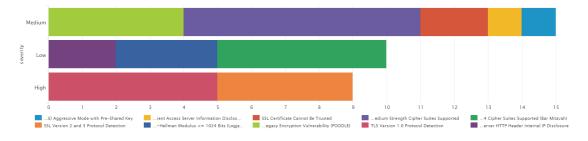
Inspira Health Network



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

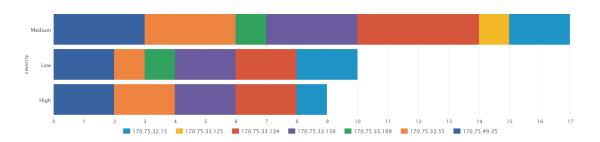


Graph: Vulnerability Risk by Vulnerability Name
This report illustrates the vulnerability risk and count by vulnerability name
discovered this report period

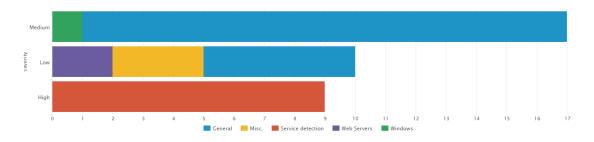


Graph: Vulnerability Risk by Host This report illustrates the vulnerability risk and count by category discovered this report period



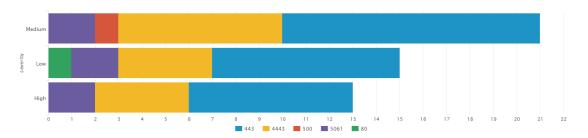


Graph: Vulnerability Risk by Category
This report illustrates the vulnerability risk and count by category discovered this report period



Graph: Vulnerability Risk by Port

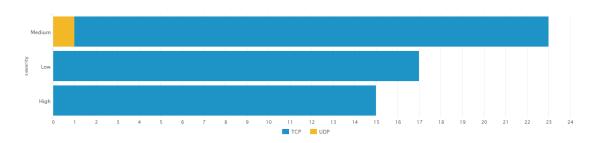
This report illustrates the vulnerability risk and count by port discovered this report period



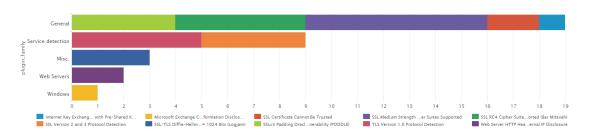
Graph: Vulnerability Risk by Protocol

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

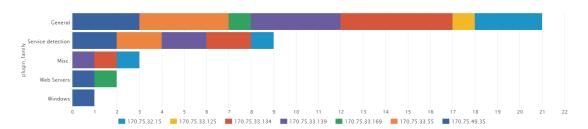




Graph: Vulnerability Category by Vulnerability Name This report illustrates the vulnerability category and count by vulnerability name discovered this report period

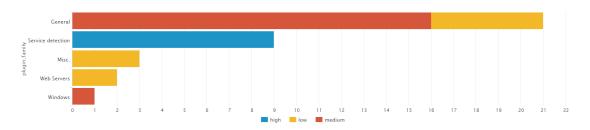


Graph: Vulnerability Category by Host This report illustrates the vulnerability category and count by host discovered this report period



Graph: Vulnerability Category by Risk

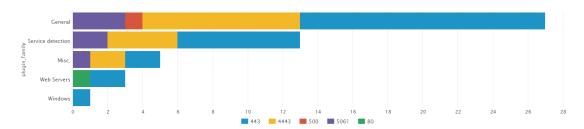
This report illustrates the vulnerability category and count by risk discovered this report period





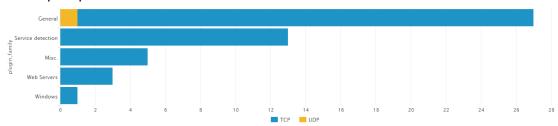
Graph: Vulnerability Category by Port

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



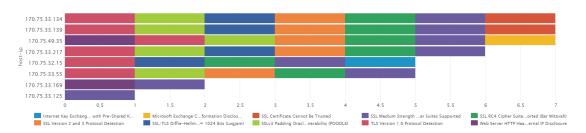
Graph: Vulnerability Category by Protocol*

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



Graph: Host by Vulnerability Name

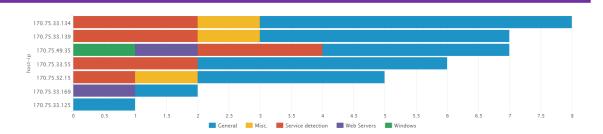
This report illustrates the vulnerability name and count by hosts discovered this report period



Graph: Host by Vulnerability Category

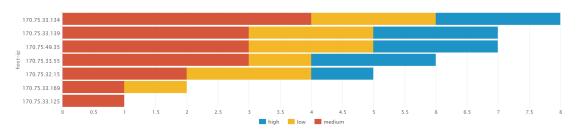
This report illustrates the vulnerability category and count by hosts discovered this report period





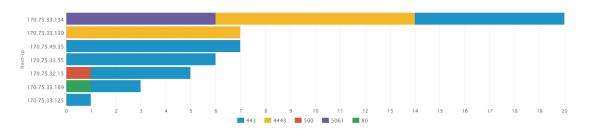
Graph: Host by Vulnerability Risk

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



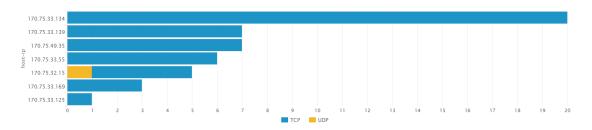
Graph: Host by Port

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



Graph: Host by Protocol

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





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.

MONITORING AVAILABILITY

This section reports on the availability of the countermeasures under GLESEC's contract.

The DefensePro Bridgeton was considered up and available 100% during this report period.



State Breakdowns For Host Services:

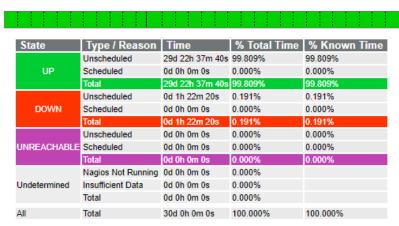
Service	% Time OK	% Time Warning	% Time Unknown	% Time Critical	% Time Undetermined
PING	99.977% (99.977%)	0.000% (0.000%)	0.000% (0.000%)	0.023% (0.023%)	0.000%
Average	99.977% (99.977%)	0.000% (0.000%)	0.000% (0.000%)	0.023% (0.023%)	0.000%

The DefensePro Elmer was considered up and available 99.80% during this report period.



Inspira Health Network

Host State Breakdowns:



State Breakdowns For Host Services:

Service	% Time OK	% Time Warning	% Time Unknown	% Time Critical	% Time Undetermined
PING	99.685% (99.685%)	0.012% (0.012%)	0.000% (0.000%)	0.303% (0.303%)	0.000%
Average	99.685% (99.685%)	0.012% (0.012%)	0.000% (0.000%)	0.303% (0.303%)	0.000%

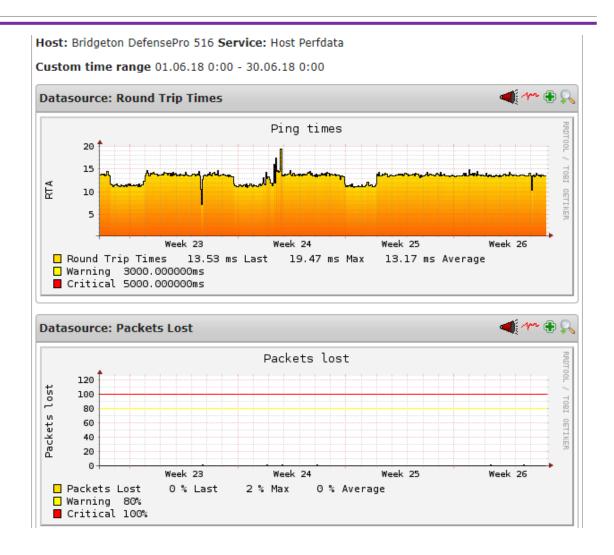
MONITORING PERFORMANCE OF COUNTERMEASURES

In this section we monitor and report on the response time from GLESEC IDCs to the countermeasures under GLESEC management.

Round trip ping times averaged 13.17 ms from the GLESEC GOC to Inspira Health Network with 0 % average packet loss.



Inspira Health Network

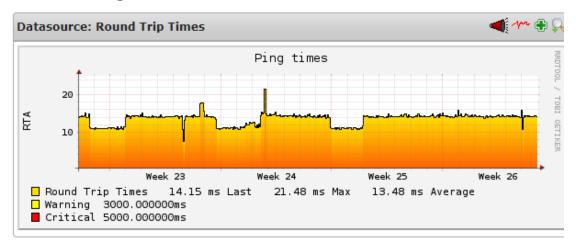


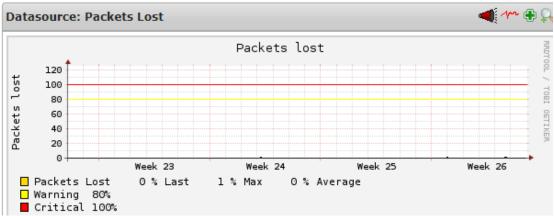
Inspira Health Network DefensePro Elmer Host Performance Round trip ping times averaged 21.48ms from the GLESEC GOC to Inspira Health Network with 0 % average packet loss.



Host: Elmer DefensePro 516 Service: Host Perfdata

Custom time range 01.06.18 0:00 - 30.06.18 0:00





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 IHN 2018-06-01 00:00:00-2018-06-3[..]

printed by Deyka At

Number	Ticket#	Title
1	2018062910000026	Monthly Operations & Intelligence Report May 2018
2	2018061110000096	Communication interruption
3	2018061110000041	RE: [EXT] communication interruption
4	2018060410000037	FW: African Network Information Center IPs to Block

Communication interruption

There was a connectivity issue between GLESEC GOC and Elmer Defensepro, Client was contacted and answered that there was a Comcast Outage in Elmer that affected Elmer Hospital.



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.



Inspira Health Network

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