

# Cyber OverVue™ User Guide



August 2018



# TABLE of CONTENTS

ntroduction to Cyber OverVue™	3
Getting Started	3
Dashboard	6
Screen Navigation	6
Frequency Analysis	7
Industry Overview	7
Trend Analysis	8
Type of Incident	9
Type of Asset Compromised	. 11
Most Recent Peer Group Losses	. 12
Most Recent Company Losses	. 12
Most Recent Company Hierarchy Losses	. 12
Severity Analysis	. 13
Industry Overview	. 13
Trend Analysis	. 14
Type of Incident	. 15
Type of Asset Compromised	. 17
Top Peer Group Losses	. 18
Top Company Losses	. 18
Top Company Hierarchy Losses	. 18
Benchmark Analysis	. 19
Report Generation	. 21
Glossary of Terms	. 22
	Getting Started  Dashboard  Screen Navigation  Frequency Analysis  Industry Overview  Trend Analysis  Type of Incident  Type of Asset Compromised  Most Recent Peer Group Losses  Most Recent Company Losses  Most Recent Company Hierarchy Losses  Severity Analysis  Industry Overview  Trend Analysis  Type of Incident  Type of Asset Compromised  Type of Asset Compromised  Top Peer Group Losses  Top Company Losses  Top Company Losses  Top Company Hierarchy Losses  Benchmark Analysis  Report Generation

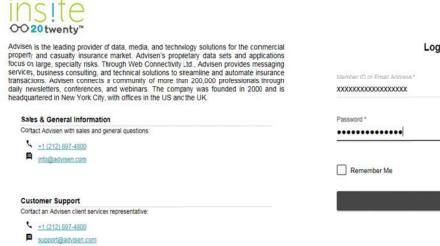
# Introduction to Cyber OverVue™

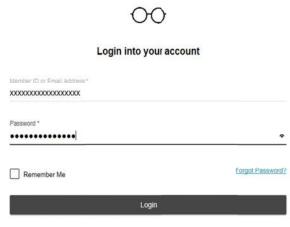
Cyber OverVue is a web-based, SaaS application that enables more efficient real-time decision-making based on the quantification of known losses. Cyber OverVue generates on-demand scores and analyses that provide users with detailed insights into an organization's cyber loss profile, which can be used as a basis for assessing its potential risks. The development of Cyber OverVue was a collaborative process with industry leaders to address a market-driven need for an analytics product based on the quantification of known losses. It not only enables more informed underwriting decisions, but also justification of coverage recommendations based on the historical loss experience of an organization.

# **Getting Started**

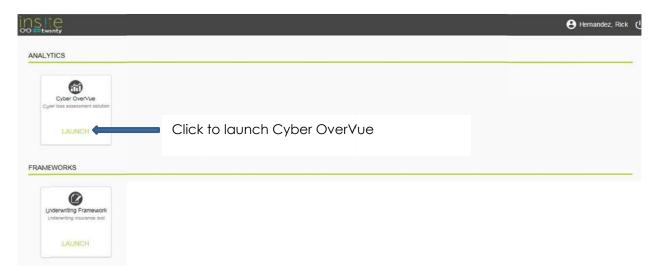
Log in to insite 20 twenty with credentials provided during the onboarding process with the Client Experience team.

- Insite20twenty serves as the online portal to Advisen's product portfolio.
- Login credentials will be provided during the onboarding process with the Client Experience team.





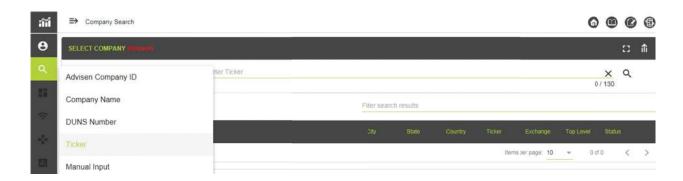
Upon logging in, the user will be brought to the product selection screen. Cyber OverVue will be part of the Analytics section, as the initial offering of the OverVue product family. Click on the Launch button to access Cyber OverVue.



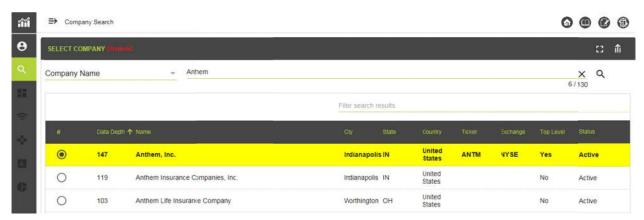
The user will be brought to the Company Search page upon launching Cyber OverVue.

Five search options are available for identifying and selecting a company:

- Advisen Company ID: Unique identifier for a company in the Advisen database.
- **Company Name:** Enter the actual name of the company; the search process will return the exact match or up to twenty options similar to the name entered.
- **DUNS Number:** A unique nine-digit identifier provided by Dun & Bradstreet for the identification of a business. It is used to establish a business credit file, which is often referenced by lenders and potential business partners to help predict the reliability and/or financial stability of the company in question.
- Ticker: Stock symbol for publicly traded companies.
- Manual: Enables a user to manually enter company information for new companies or to generate a peer group profile.



Select the search criteria and enter the appropriate company information to initiate a company search. The search will return either an exact match or a list of companies to select from which closely matches the search criteria entered.



If using the Manual Input search option, additional details will be required to perform a risk assessment:

- Select the appropriate Industry.
- Enter the Company Name.
- Select the appropriate Revenue Range.



Enter the Insurance Program details to generate a Benchmark Analysis. These fields are optional; a user will still be able to perform a Risk Assessment, though it will not include a benchmark score.



#### **Dashboard**

The Dashboard provides a series of scores that assess the loss profile for the company with respect to the frequency and severity of occurrences, as well as a benchmark analysis of an existing insurance program for the company.

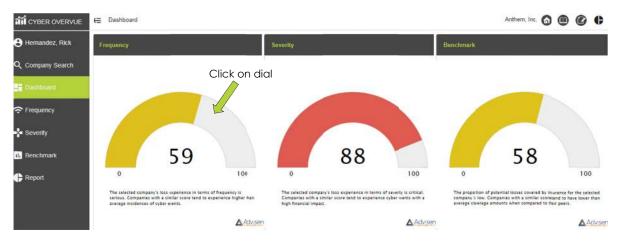
The Assessment Score ranges from 0-100. The greater the score the more significant the loss exposure is in terms of the frequency and severity of historical loss events for a company.



# **Screen Navigation**

A user can easily navigate the tool to uncover additional details of the Risk Assessment by clicking on the relevant sections (i.e.: click on the frequency dial to get more information on the frequency loss exposures).

A traditional left menu of options may also be used for navigation. Note that the Reports section is only accessible through the left menu.



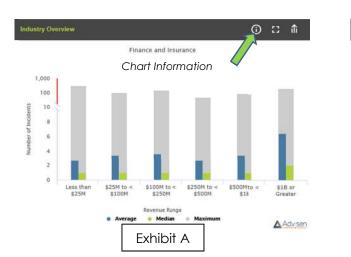
# **Frequency Analysis**

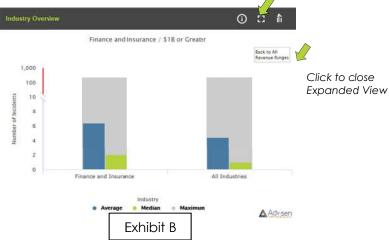
The Frequency Analysis provides four views on the propensity of a cyber event:

- Industry Overview
- Trend Analysis
- Type of Incident
- Type of Loss

# **Industry Overview**

This analysis shows the trend of losses across different company size ranges (revenue range), comparing all the peer groups within a selected industry.

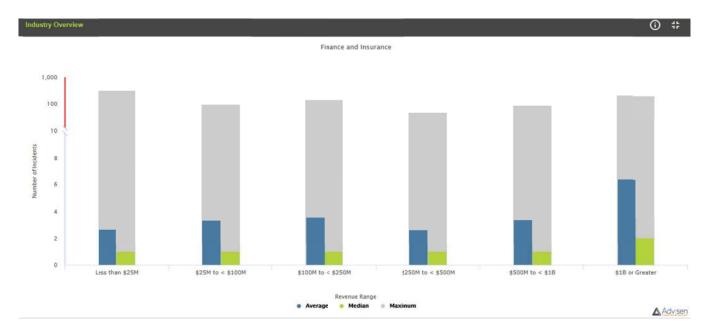




The blue vertical bar represents the average loss experience for a peer group within the selected industry; green represents the median loss experience for a peer group within the selected industry; the gray vertical bar represents the tail end (maximum) loss experience for each peer group within the industry. (Exhibit A)

Click on the vertical bars to focus on a specific revenue band and view how the loss experience of the selected peer group compares to an aggregation across all industries. (Exhibit B)

Click on the expansion icon to enlarge the image to full-page view; all charts are expandable where this icon is present.



# **Trend Analysis**

This analysis looks at the trend of losses across a time continuum. The blue vertical bar represents the average loss experience for the peer group specified; the green vertical bar represents the median loss experience for the peer group specified; the gray vertical bar represents the maximum experience for the peer group specified.

The orange circle represents the loss experience for the selected company.

Click on the vertical bars to look at the loss experience by individual years.

Click on "Back to All Time Periods" to return to the primary view.

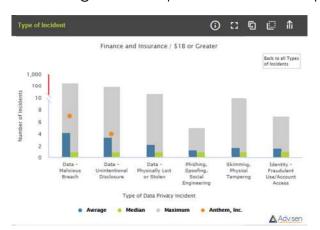


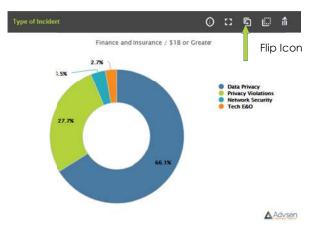


# Type of Incident

This analysis looks at the trend of losses by the type of incident. The blue vertical bar represents the average loss experience for the peer group specified; the green vertical bar represents the median loss experience for the peer group specified; the gray vertical bar represents the maximum experience for the peer group specified.

The orange circle represents the loss experience for the selected company.





Click on the vertical bars to get a more granular look at the various types of incidents that make up the main grouping. These groupings consist of types with similar attributes:

# 1. Data Privacy

- a. Data malicious breach
- b. Data unintentional disclosure
- c. Data Physically lost or stolen
- d. Phishing, Spoofing, Social Engineering
- e. Skimming, Physical Tampering
- f. Identity Fraudulent User / Account Access

# 2. Network Security

- a. Network / Website Disruption
- b. Cyber Extortion
- c. Industrial Controls

## 3. Technology Errors & Omissions

- a. IT Configuration / Implementation Errors
- b. IT Processina Errors

#### 4. Privacy Violations

- a. Privacy Unauthorized Data Collection
- b. Privacy Unauthorized Contact or Disclosure

Click on "Back to All Type of Incidents" to return to the primary view.

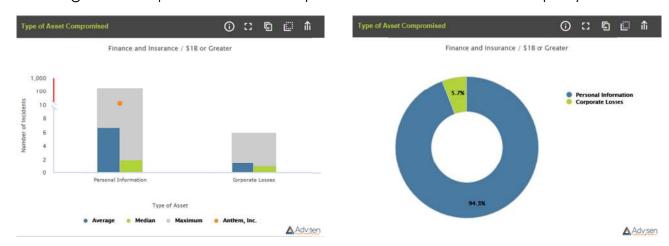


Each chart is accompanied with demographic details of the attributes within the chart and can be accessed by clicking on the Flip icon where available. Click on "Back to All Type of Incidents" to return to the primary view.

# Type of Asset Compromised

This analysis looks at the trend of losses by the type of asset compromised during a cyber incident. The blue vertical bar represents the average loss experience for the peer group specified; the green vertical bar represents the median loss experience for the peer group specified; the gray vertical bar represents the maximum experience for the peer group specified.

The orange circle represents the loss experience for the selected company.



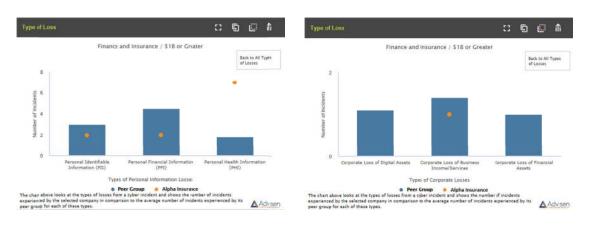
Click on the vertical bars to get a more granular look at the various types of incidents that make up the main grouping. These groupings consist of types with similar attributes:

#### 1. Personal Information

- a. Personal Identifiable Information (PII)
- b. Personal Financial Information (PFI)
- c. Personal health Information (PHI)

#### 2. Corporate Information

- a. Corporate Loss of Digital Assets
- b. Corporate Loss of Business Income / Services
- c. Corporate Loss of Financial Assets



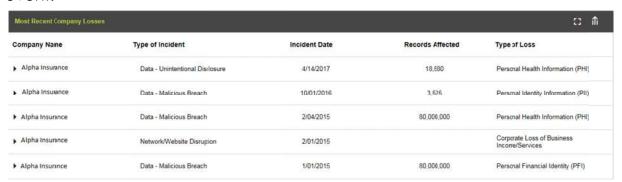
# **Most Recent Peer Group Losses**

Most Recent Peer Group Losses displays the five most recent events experienced by the peer group of the selected company. Click on the individual line items for a more detailed description of the event.



#### **Most Recent Company Losses**

Most Recent Company Losses lists the five most recent events impacting the company under assessment. Click on the individual line items for a more detailed description of the event.



# **Most Recent Company Hierarchy Losses**

Most Recent Company Losses lists up to ten of the most recent events impacting the affiliates of the company under assessment. Click on the individual line items for a more detailed description of the event.



# **Severity Analysis**

The Severity analysis provides four views on the impact of a cyber event occurrence by looking at the amount and type of data records affected.

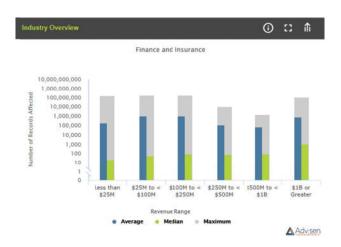
- Industry Overview
- Trend Analysis
- Type of Incident
- Type of Loss

# **Industry Overview**

This analysis shows the trend of losses across different company size ranges (revenue range), comparing the selected industry to all industries.

The blue vertical bar represents the average loss experience for the peer group within the selected industry; green represents the median loss experience for the peer group within the selected industry; the gray vertical bar represents the tail end (maximum) loss experience for each peer group within the industry.

Click on the expansion icon to enlarge the image to full-page view; all charts are expandable where this icon is present.





# **Trend Analysis**

This analysis looks at the trend of losses experienced across a time continuum. The blue vertical bar represents the average loss experience for the peer group specified; the green vertical bar represents the median loss experience for the peer group specified; the gray vertical bar represents the maximum experience for the peer group specified.

The orange circle represents the loss experience for the selected company.

Click on the vertical bars to look at the loss experience by individual years

Click on "Back to All Time Periods" to return to the primary view.



# Type of Incident

This analysis looks at the trend of losses by the type of incident. The blue vertical bar represents the average loss experience for the peer group specified; the green vertical bar represents the median loss experience for the peer group specified; the gray vertical bar represents the maximum experience for the peer group specified.

The orange circle represents the loss experience for the selected company.



Click on the vertical bars to get a more granular look at the various types of incidents that make up the main grouping. These groupings consist of types with similar attributes:

# 1. Data Privacy

- a. Data malicious breach
- b. Data unintentional disclosure
- c. Data Physically lost or stolen
- d. Phishing, Spoofing, Social Engineering
- e. Skimming, Physical Tampering
- f. Identity Fraudulent User / Account Access

#### 2. Network Security

- a. Network / Website Disruption
- b. Cyber Extortion
- c. Industrial Controls

# 3. Technology Errors & Omissions

- a. IT Configuration / Implementation Errors
- b. IT Processing Errors

# 4. Privacy Violations

- a. Privacy Unauthorized Data Collection
- b. Privacy Unauthorized Contact or Disclosure

Click on "Back to All Type of Incidents" to return to primary view.

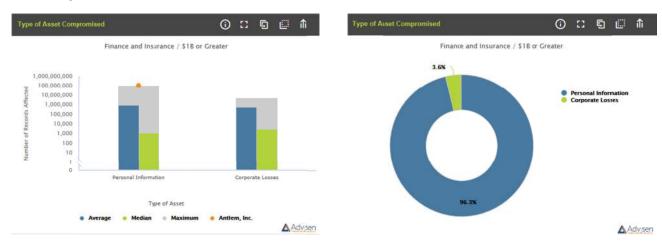


Each chart is accompanied with demographic details of the attributes within the chart and can be accessed by clicking on the Flip icon where available. Click on "Back to All Type of Incidents" to return to the primary view.

# Type of Asset Compromised

This analysis looks at the trend of losses by the type of asset compromised during a cyber incident. The blue vertical bar represents the average loss experience for the peer group specified; the green vertical bar represents the median loss experience for the peer group specified; the gray vertical bar represents the maximum experience for the peer group specified.

The orange circle represents the loss experience for the selected company.



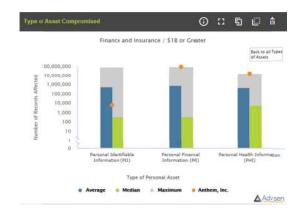
Click on the vertical bars to get a more granular look at the various types of incidents that make up the main grouping. These groupings consist of types with similar attributes:

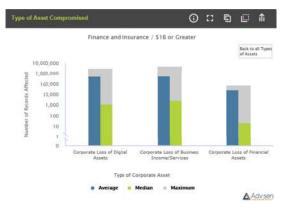
#### 1. Personal Information

- a. Personal Identifiable Information (PII)
- b. Personal Financial Information (PFI)
- c. Personal Health Information (PHI)

# 2. Corporate Information

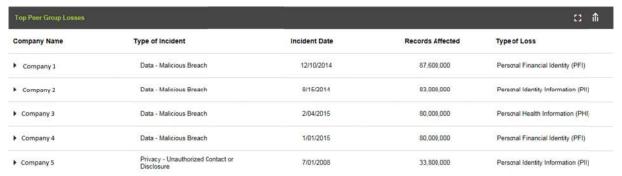
- a. Corporate Loss of Digital Assets
- b. Corporate Loss of Business Income / Services
- c. Corporate Loss of Financial Assets





# **Top Peer Group Losses**

Top Peer Group Losses shows events experienced by the peer group of the selected company based on the number of records affected. Click on the individual line items for a more detailed description of the events.



# **Top Company Losses**

Top Company Losses displays the events impacting the company under assessment based on the number of records affected. Click on the individual line items for a more detailed description of the event.

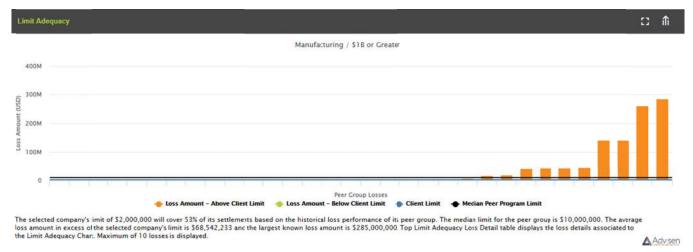


# **Top Company Hierarchy Losses**

Top Company Hierarchy Losses lists up to ten of the top events impacting the affiliates of the company under assessment. Click on the individual line items for a more detailed description of the event



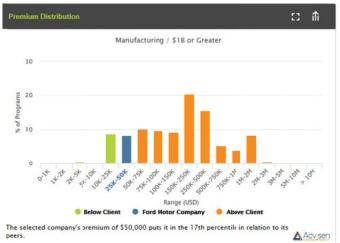
# **Benchmark Analysis**

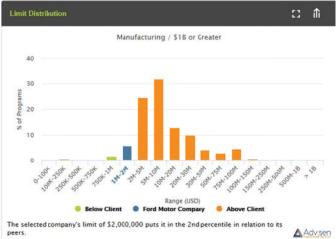


The Limit Adequacy analysis compares the proposed limit to the known losses experienced by the selected peer group. Additional data points including the median limit purchased by the peer group help provide insight on the appropriate limits to purchase.

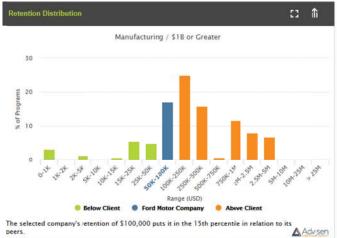
The Limit Adequacy chart is also accompanied by a table directly underneath that provides details on the top losses (up to 10) shown in the chart.

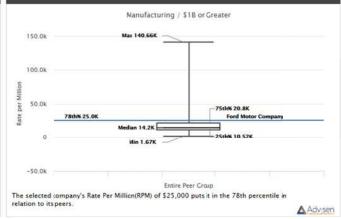






The Premium Distribution analysis benchmarks the premium of the proposed insurance program to the premiums paid by the selected peer group. The Limit Distribution analysis benchmarks the limit of the proposed insurance program to the limits purchased by the selected peer group.





The Retention Distribution analysis benchmarks the retention of the proposed insurance program to the retention of similar companies. The Rate per Million (RPM) Distribution analysis benchmarks the RPM of the proposed insurance program to the RPM of similar companies.

ili

# **Report Generation**

Users have the ability to generate a customizeable PDF document that includes any of the features previously described.

The Report function is available from the left menu option and will direct the user to the Report Selection screen.



By default, all sections will be selected when user arrives on the Report page. Users can de-select either an entire section (i.e. Frequency) or individual analyses within a section (i.e. Industry Overview).

The dashboard is a required component of the report and cannot be de-selected.

# **Glossary of Terms**

Α	ccident Date	Date on which the incident occurred or began.
	ffected Count	Refers to the number of individuals or systems
1		affected. These could be based on the number of
		identities breached or stolen, social security numbers
		revealed, devices compromised, etc., depending on
		type of incident.
Be	enchmarking Analysis	Analyses that give insight on how an organization's
- `		program compares to its peers.
c	ase Type	The type of cyber incident based on a number of
		characteristics. Advisen captures 13 different case
1		types, which are defined below.
С	ase Type Families	Groupings of multiple case types that share similar
		characteristics. These include:
	Data Privacy	A grouping of case types that deal with situations
		where there has been an unauthorized breach or
		disclosure of personal information of some sort. These
		case types are as follows:
	Data – Malicious	Situations where personal confidential information or
	Breach	digital assets either has been or may have been
		exposed or stolen, by unauthorized internal or
		external actors whose intent appears to have been
		the acquisition of such information.
	Data – Unintentional	Situations where personal confidential information or
	Disclosure	digital assets have either been exposed, or may
		have been exposed, to unauthorized viewers due to
		an unintentional or inadvertent accident or error.
	Data Physically Lost or	Situations where personal confidential information or
	Stolen	digital assets have been included, or may have
		been included, with computer or peripheral
		equipment which has been lost, stolen, or improperly
		disposed of; the confidential information is
		incidentally included but unlikely to be the primary
		focus.
	Phishing, Spoofing,	Attempts to get individuals to voluntarily provide
	Social Engineering	information which could then be used illicitly, e.g.
		phishing or spoofing a legitimate website with a
		close replica to obtain account information.
	Skimming Physical	Use of physical devices to illegally capture electronic
	Tampering	information such as bank account or credit card

		numbers for individual transactions.
	Identity - Fraudulent	Actual identity theft or the fraudulent use of
	Use / Account Access	confidential personal information or account access.
N	etwork Security	A grouping of case types that deal with situations involving the disruption or interference of corporate operations. These case types are as follows:
	Network / Website	Unauthorized use of or access to a computer or
	Disruptions	network, or interference with the operation of same, including virus, worm, malware, digital denial of service (DDOS), etc.
	Cyber Extortion	Threats to fraudulently transfer funds, destroy data, interfere with the operation of a system/network/site, or disclose confidential digital information such as identities of customers/employees, unless payments are made
	Industrial Controls & Operations	Losses involving disruption or attempted disruption to "connected" physical assets such as factories, automobiles, power plants, electrical grids, etc. (including "the internet of things")
Pi	rivacy Violations	A grouping of case types that deal with situations involving individual or corporate privacy, and frequently involves the violation of various laws and regulations dealing with the collection and disclosure of information to a third party, or contacting an individual or company without their permission. These case types are as follows:
	Privacy – Unauthorized Data Collection	Cases where information about the users of electronic services, such as social media, cellphones, websites, etc. is captured and stored without their knowledge or consent
	Privacy – Unauthorized Contact or Disclosure	Cases when personal information is used in an unauthorized manner to contact or publicize information regarding an individual or an organization without their explicit permission
Te	ech E&O	A grouping of case types that deal with situations involving the failure of corporate operations resulting from errors or oversights in the development, implementation, and/or maintenance of the organizations' IT environment. These case types are as follows:
	IT – Processing Errors	Losses resulting from internal errors in electronically processing orders, purchases, registrations, etc.,

		usually due to a security or authorization
		inadequacy, software bug, hardware malfunction,
		or user error.
	IT – Configuration /	Losses resulting from errors or mistakes which are
	_	
	Implementation Errors	made in maintaining, upgrading, replacing, or
		operating the hardware and software IT
		infrastructure of an organization, typically resulting in
		system, network, or web outages or disruptions
	Frequency Analysis	Analyses based on the number of cyber incidents
F		experienced over a given time period.
		Jan 19 19 19 19 19 19 19 19 19 19 19 19 19
		In general, the analyses seek to compare the loss
		experience of a company against the average,
		median, and maximum loss experience of its peer
		group.
	Loss Profile	Based off of the historical loss experience, the loss
		profile gives an indication of a company or peer
		group's loss propensity
	Company Loss Profile	The historical loss experience for the selected
		company. In general, this is indicated by the orange
		dots in the various charts.
	Peer Group Loss Profile	The historical loss experience for the peer group of
		the selected company. In general, this is indicated
		by the blue bars in the various charts.
	Peer Group	A grouping of companies that share the same
P	l eel Gloop	
-		industry grouping (2 digit NAICS) and revenue range
	Davis no a Davis de	as the selected company.
R	Revenue Bands	Company revenue in USD. The following bands have
		been identified and are consistently applied across
		all industries:
		<ul> <li>Less than \$25M</li> </ul>
		<ul><li>\$25M to &lt; \$100M</li></ul>
		<ul> <li>\$100M to &lt; \$250M</li> </ul>
		• \$250M to < \$500M
		<ul> <li>\$500M to &lt; \$1B</li> </ul>
		• \$1B to Greater
	Severity Analysis	Analyses based on the number of records affected
S	Jeveniy Analysis	as a result of cyber incidents over a given time
		period.
		In general, the analyses seek to compare the loss
		experience of a company against the average,

	median, and maximum loss experience of its peer
	group.
Standard Deviation	The standard deviation quantifies the variation of a
	set of observations. A lower standard deviation
	indicates that observations tend to be closer to the
	mean, while a higher standard deviation indicates
	that observations are spread over a wider range of
	values in relation to the mean.
Type of Loss	The type of data, asset, or information that was
	compromised during a cyber incident. The two main
	groups are as follows:
Corporate Losses	A grouping of types of loss that relate to the
	compromise of corporate data or assets. These
	include:
Loss of Business	Any interruption of normal business activities as a
Income / Services	result of a cyber incident. These could be a
	consequence of Distributed Denial of Service (DDoS)
	attacks or reputational damage.
Loss of Digital Assets	Business and customer data, trade secrets,
	proprietary software and other confidential
	corporate data.
Loss of Financial Assets	Money, securities and other financial property,
	including digital currency such as Bitcoins that
	belong to either the company or its clients.
Personal Information	A grouping of types of loss that relate to the
	compromise of personal information. These include:
Personal Identifiable	Data containing identifying information, including
Information	name, address, e-mail, date of birth, gender etc.
Personal Health	Data specifically protected under health information
Information	laws and regulations (such as HIPAA), including
	medical records and health information
Personal Financial	Credit/debit card details, social security numbers,
Information	banking financial records (account numbers, routing
	numbers, etc.)