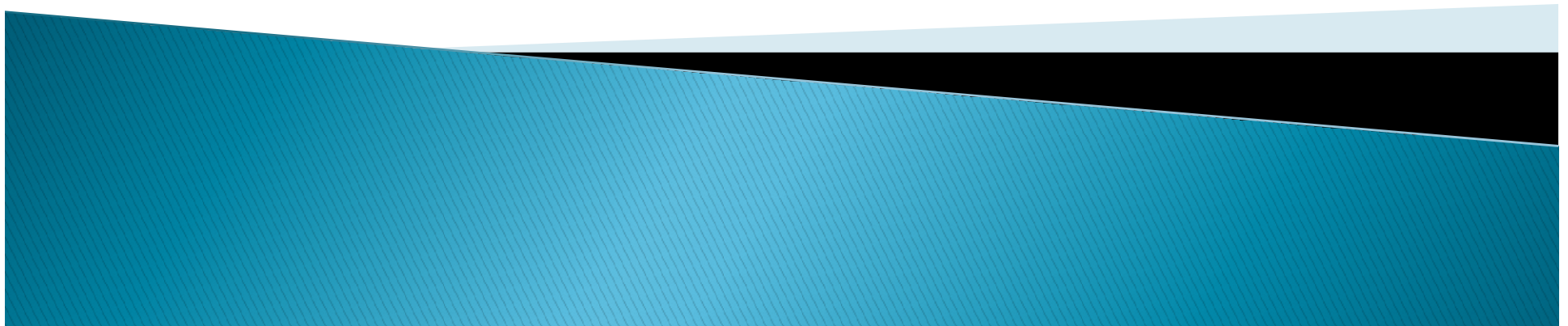


# Seminar 4 preparation – Blog review & American Internet Crime Complain Centre report analysis

Michael Geiger



# Blog review

## Hospital Center Sud Francilien ransomware attack

- ▶ **Who:** The Ragnar Locker ransomware group (presumably) attacked the french Hospital Center Sud Francilien.
- ▶ **What:** Ransomware attack in which the hospital's central digital infrastructure and patient files were encrypted.
- ▶ **When:** Saturday evening, 20 August 2022.
- ▶ **Where:** At the Hospital Center Sud Francilien in Corbeil-Essones, south-east of Paris, France.
- ▶ **Why:** To demand a ransom of \$10 million.
- ▶ **How:** By a ransomware malware. More detailed information is currently not available.

# Blog review

## Hospital Center Sud Francilien ransomware attack

### French cyber law:

“The French Penal Code does not contain any explicit provisions regarding the individual offences Reference to digital forms of inspection.”

The offenders could be guilty of the following offences:

➤ Extortion French crime law Art. 312-1 & 312-2:

“Extortion is committed by anyone who obtains, by force, the threat of force, or coercion, a signature, an obligation, a waiver, the disclosure of a secret, or the delivery of money, valuables, or any property. The rapacious extortion is punishable by seven years in prison and a fine of EUR 700,000.”

# Blog review

## Hospital Center Sud Francilien ransomware attack

➤ Sabotage French crime law Art. 411-9:

"Anyone who destroys, damages, misappropriates documents, devices, buildings, pieces of equipment, facilities, machines, technical systems or systems for automated data processing or causes defects in them will be punished with 15 years imprisonment and a fine of EUR 1,500,000 if these actions are capable of harming basic national interests. If the same act is committed to serve the interests of a foreign power, a foreign or foreign-controlled enterprise, or a foreign or foreign-controlled organization, it is punishable by 20 years imprisonment and a fine of EUR 2,000,000

# Blog review

## Hospital Center Sud Francilien ransomware attack

- ▶ **Negligent attack on life French crime law Art. 221-6:**

"carelessness, inattention, negligence, or by breach of a duty of safety or care imposed by law or other regulation, causes the death of another, commits negligent homicide and is punishable by three years in prison and a fine of EUR 300,000. In the event of a deliberate violation of a security or duty of care imposed by law or other regulations, the penalties increase to five years in prison and a fine of EUR 500,000."

# American Internet Crime Complain Centre report 2019 & 2021

## 2019 - TOP 20 INTERNATIONAL VICTIM COUNTRIES

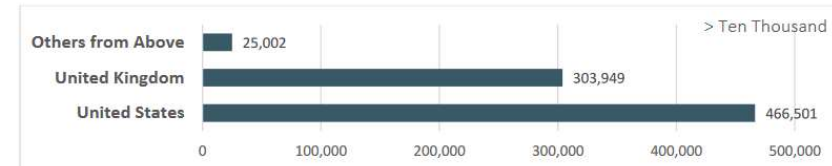
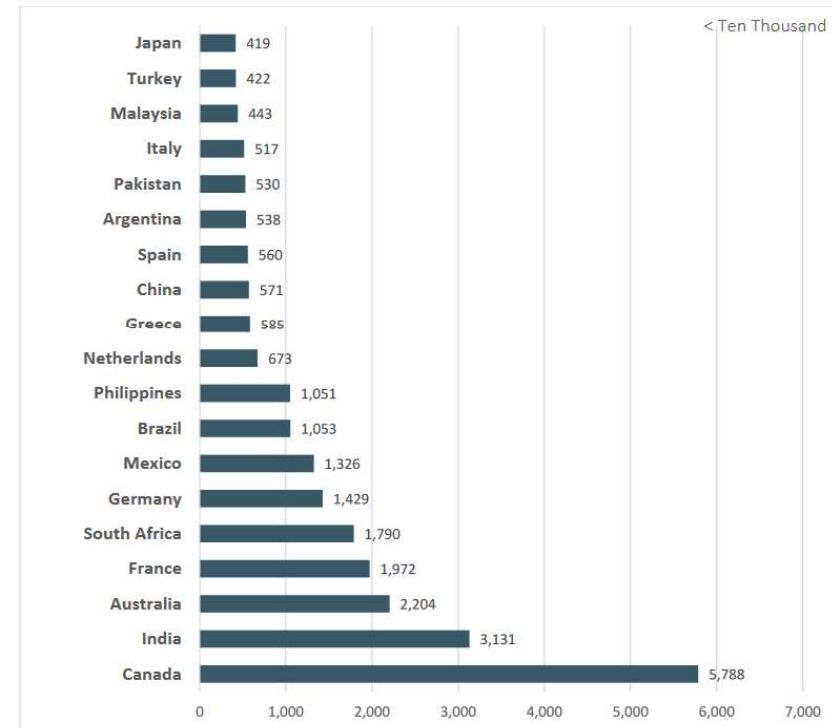
Excluding the United States<sup>7</sup>



|                   |        |               |       |                  |     |                        |     |
|-------------------|--------|---------------|-------|------------------|-----|------------------------|-----|
| 1. United Kingdom | 93,796 | 6. Belgium    | 1,031 | 11. Philippines  | 561 | 16. Italy              | 428 |
| 2. Canada         | 3,721  | 7. Germany    | 850   | 12. Hong Kong    | 535 | 17. China              | 403 |
| 3. India          | 2,901  | 8. Brazil     | 628   | 13. South Africa | 465 | 18. Malaysia           | 362 |
| 4. Australia      | 1,298  | 9. Mexico     | 605   | 14. Georgia      | 454 | 19. Spain              | 358 |
| 5. France         | 1,243  | 10. Argentina | 578   | 15. Switzerland  | 438 | 20. Russian Federation | 349 |

## 2021 - Top 20 International Victim Countries<sup>18</sup>

Compared to the United States



Federal Bureau of Investigation (2019 & 2021)

# American Internet Crime Complain Centre report 2019 & 2021

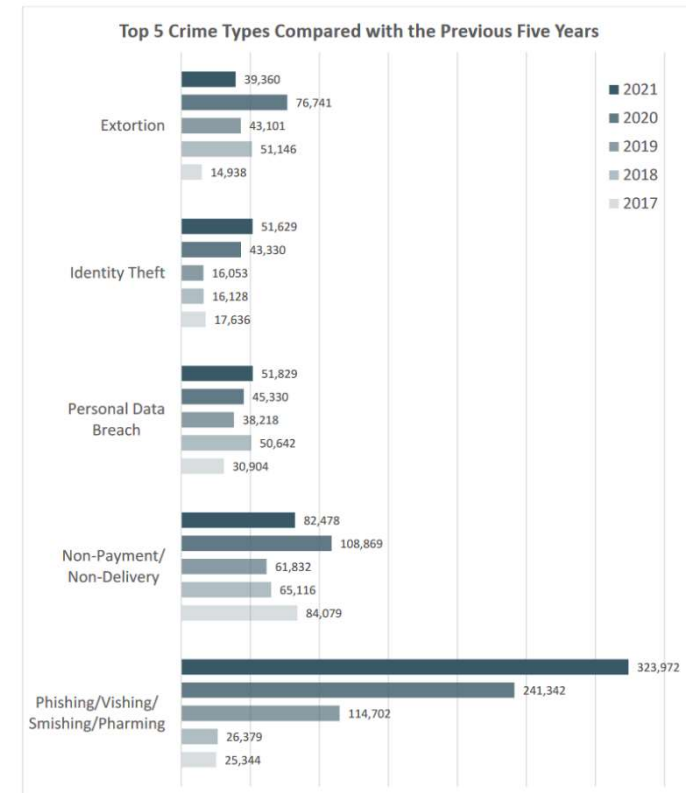
## IC3 COMPLAINT STATISTICS

### LAST 5 YEARS

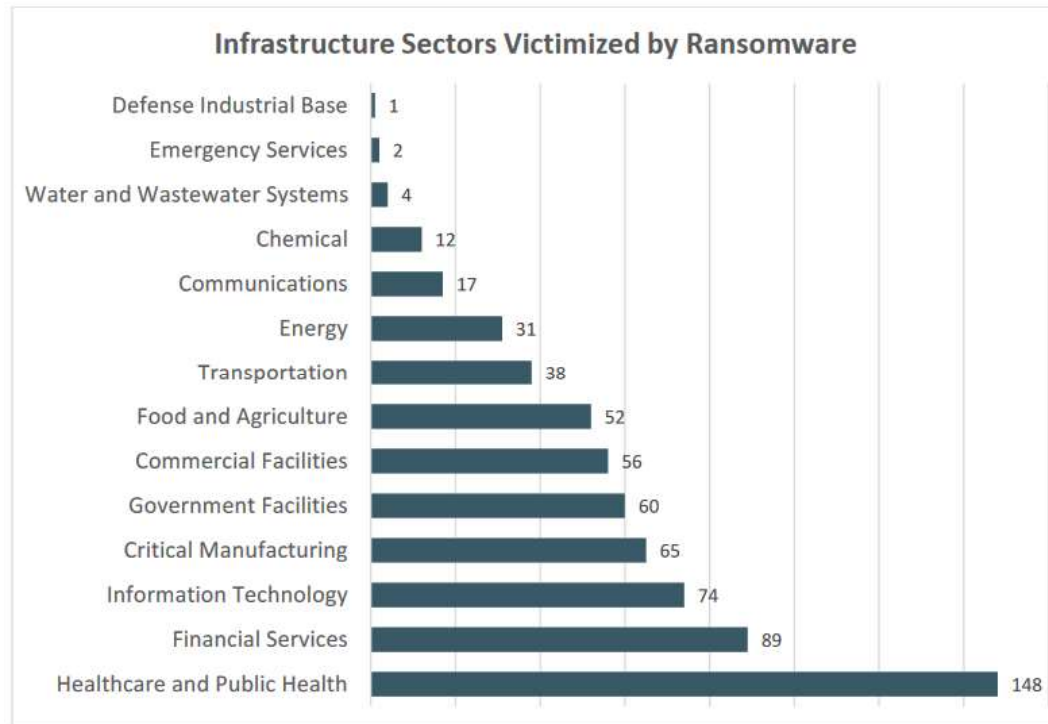
Over the last five years, the IC3 has received an average of 552,000 complaints per year. These complaints address a wide array of Internet scams affecting victims across the globe.<sup>3</sup>



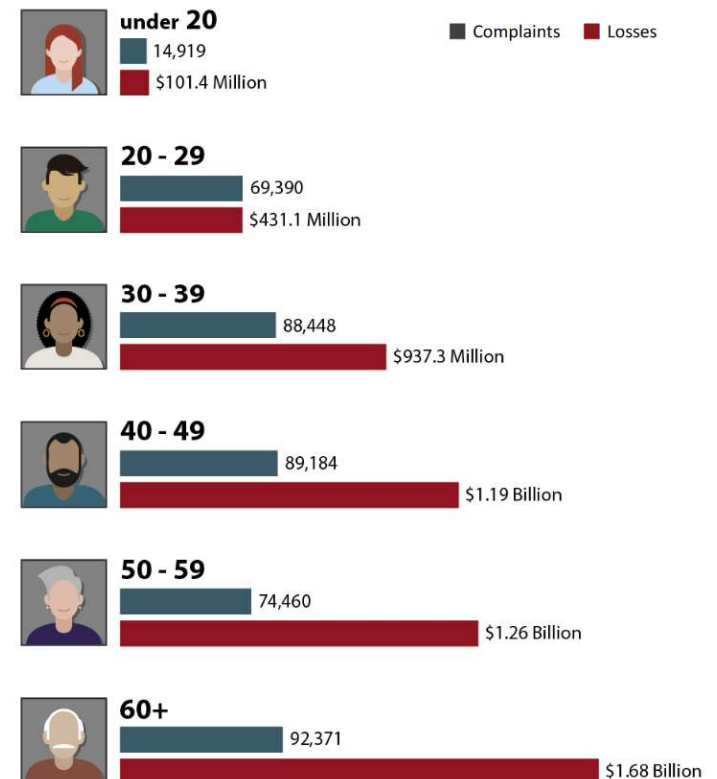
### TOP 5 CRIME TYPE COMPARISON<sup>4</sup>



# American Internet Crime Complain Centre report 2019 & 2021



## 2021 Victims by Age Group<sup>17</sup>



Federal Bureau of Investigation (2021)

# American Internet Crime Complain Centre report 2019 & 2021

## 2021 CRIME TYPES

| By Victim Count                    |         |                                 |         |
|------------------------------------|---------|---------------------------------|---------|
| Crime Type                         | Victims | Crime Type                      | Victims |
| Phishing/Vishing/Smishing/Pharming | 323,972 | Government Impersonation        | 11,335  |
| Non-Payment/Non-Delivery           | 82,478  | Advanced Fee                    | 11,034  |
| Personal Data Breach               | 51,829  | Overpayment                     | 6,108   |
| Identity Theft                     | 51,629  | Lottery/Sweepstakes/Inheritance | 5,991   |
| Extortion                          | 39,360  | IPR/Copyright and Counterfeit   | 4,270   |
| Confidence Fraud/Romance           | 24,299  | Ransomware                      | 3,729   |
| Tech Support                       | 23,903  | Crimes Against Children         | 2,167   |
| Investment                         | 20,561  | Corporate Data Breach           | 1,287   |
| BEC/EAC                            | 19,954  | Civil Matter                    | 1,118   |
| Spoofing                           | 18,522  | Denial of Service/TDoS          | 1,104   |
| Credit Card Fraud                  | 16,750  | Computer Intrusion              | 979     |
| Employment                         | 15,253  | Malware/Scareware/Virus         | 810     |
| Other                              | 12,346  | Health Care Related             | 578     |
| Terrorism/Threats of Violence      | 12,346  | Re-shipping                     | 516     |
| Real Estate/Rental                 | 11,578  | Gambling                        | 395     |
| Descriptors*                       |         |                                 |         |
| Social Media                       | 36,034  | Virtual Currency                | 34,202  |

## 2021 Crime Types continued

| By Victim Loss           |                 |                                    |                 |
|--------------------------|-----------------|------------------------------------|-----------------|
| Crime Type               | Loss            | Crime Type                         | Loss            |
| BEC/EAC                  | \$2,395,953,296 | Lottery/Sweepstakes/Inheritance    | \$71,289,089    |
| Investment               | \$1,455,943,193 | Extortion                          | \$60,577,741    |
| Confidence Fraud/Romance | \$956,039,740   | Ransomware                         | *\$49,207,908   |
| Personal Data Breach     | \$517,021,289   | Employment                         | \$47,231,023    |
| Real Estate/Rental       | \$350,328,166   | Phishing/Vishing/Smishing/Pharming | \$44,213,707    |
| Tech Support             | \$347,657,432   | Overpayment                        | \$33,407,671    |
| Non-Payment/Non-Delivery | \$337,493,071   | Computer Intrusion                 | \$19,603,037    |
| Identity Theft           | \$278,267,918   | IPR/Copyright/Counterfeit          | \$16,365,011    |
| Credit Card Fraud        | \$172,998,385   | Health Care Related                | \$7,042,942     |
| Corporate Data Breach    | \$151,568,225   | Malware/Scareware/Virus            | \$5,596,889     |
| Government Impersonation | \$142,643,253   | Terrorism/Threats of Violence      | \$4,390,720     |
| Advanced Fee             | \$98,694,137    | Gambling                           | \$1,940,237     |
| Civil Matter             | \$85,049,939    | Re-shipping                        | \$631,466       |
| Spoofing                 | \$82,169,806    | Denial of Service/TDoS             | \$217,981       |
| Other                    | \$75,837,524    | Crimes Against Children            | \$198,950       |
| Descriptors**            |                 |                                    |                 |
| Social Media             | \$235,279,057   | Virtual Currency                   | \$1,602,647,341 |

# References:

- ▶ Deutscher Bundestag (2019) “Cyberkriminalität” Strafrechtliche Regelungen in Deutschland und ausgewählten EU-Mitgliedstaaten. Available from: <https://www.bundestag.de/resource/blob/644554/99060fb453740380be8aa885473eae86/WD-7-039-19-pdf-data.pdf> [Accessed 01 September 2022].
- ▶ Bijus (2016) Französisches Strafgesetzbuch / Code penal. Available from: <https://www.bijus.eu/?p=10720> [Accessed 01 September 2022].
- ▶ Cluley, G. (2022) Hackers demand \$10 million from Paris hospital after ransomware attack. Bitdefender. Available from: <https://www.bitdefender.com/blog/hotforsecurity/hackers-demand-10-million-from-paris-hospital-after-ransomware-attack/> [Accessed 01 September 2022].
- ▶ Federal Bureau of Investigation (2019) 2019 Internet Crime Report. Available from: [https://www.ic3.gov/Media/PDF/AnnualReport/2019\\_IC3Report.pdf](https://www.ic3.gov/Media/PDF/AnnualReport/2019_IC3Report.pdf) [Accessed 01 September 2022].
- ▶ Federal Bureau of Investigation (2021) 2021 Internet Crime Report. Available from: [https://www.ic3.gov/Media/PDF/AnnualReport/2021\\_IC3Report.pdf](https://www.ic3.gov/Media/PDF/AnnualReport/2021_IC3Report.pdf) [Accessed 01 September 2022].

