



The CyberPeace Institute

- Independent NGO, launched 2019
 - Due to escalating dangers of cyberattacks
- Founding partners
 - Microsoft, Hewlett Foundation, Mastercard & others
- HQ in Geneva
 - 33 FTEs (as of Dec 2021)
 - 13 nationalities
 - 52% women 48% men
- Strategic objectives
 - Assistance
 - Analysis
 - Advancement
 - Foresight and Capacity Building



A brief history



2020	May	Call to Governments To stop cyberattacks on the healthcare sector
	June	Cyber 4 Healthcare Cybersecurity-healthcare matchmaking service
2021	March	Playing with Lives Strategic analysis report on cyberattacks on the healthcare sector
	October	Cyber Incident Tracer #HEALTH Platform and microsite launch
	October	CyberPeace Builders A network of corporate volunteers providing free assistance to NGOs
2022	July	Compendium Protecting the Healthcare Sector from Cyber Harm (with MSFT, Czech Republic) Republic Cyber Peace Institute PUBLIC // TLP: White

Playing with Lives: Cyberattacks on Healthcare are Attacks on People





Cyber Incident Tracer #HEALTH



This platform bridges the information gap about cyberattacks on the healthcare sector and their impact on people.

Cyber Incident Tracer #HEALTH

CIT #HEALTH contains data on 447 cyberattacks against the healthcare sector across 40 countries. While this is only a fraction of the full scale of the problem, the CIT #HEALTH starts to bridge the current gap in our understanding of the human impact of cyberattacks. Help us fill the information gaps to draw deeper insights from the data and shed better light on the threat to the sector and its societal impact.



Data visualization

Collected data

447
total incidents

4.2

Selected period: 2-Jun-2020 - 20-Jun-2022

incidents per week

40

countries

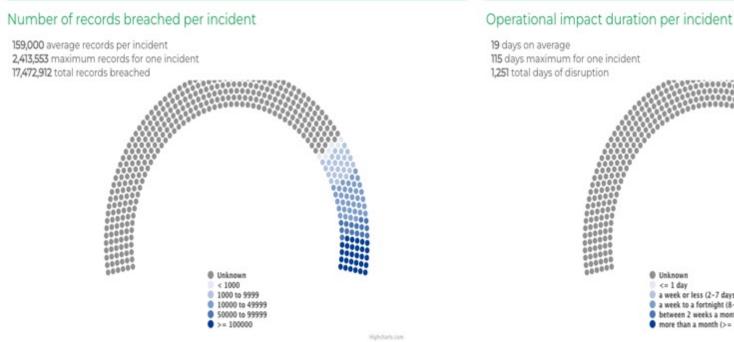
Last updated: 28-Jun-2022

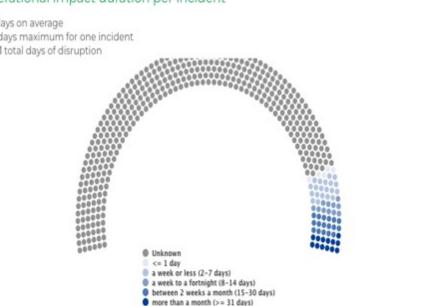
* updates on a quarterly basis

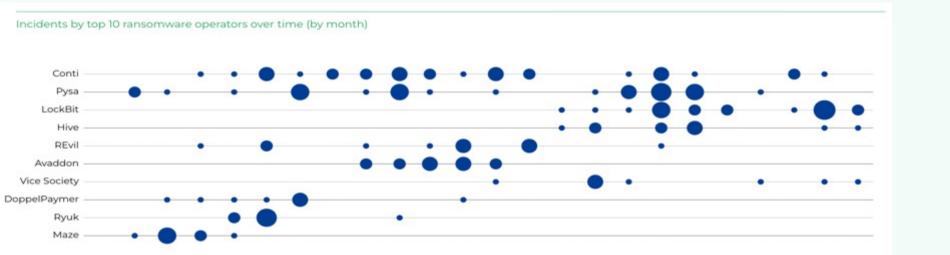
Impact and harm



on Organizations







Year - Month

Jul 21

Oct 21

Jan '22



Oct '20

Jan '21



2022-05-31

2022-05-30

2022-05-30

2022-05-29

Ransomware

Ransomware

Ransomware

Ransomware



Incidents			Table		CyberPeace Institute
Date	Incident Type	Location	Organization Type	Description	Incident Certainty
2022-06-20	Unknown	0	Healthcare Network	Unknown attack against healthcare network in Switzerland forced its IT systems offline.	•
2022-06-19	Ransomware	•	Hospital	Ransomware attack against hospital in Japan disrupted access to electronic medical records and forced the diversion of incoming patients.	
2022-06-14	Ransomware	4	Laboratories And Diagnostics Center	Ransomware (unconfirmed) attack against laboratories and diagnostics center in Australia exposed target data.	•
2022-06-07	Ransomware	(*)	Mental Health And Substance Abuse Facility	Ransomware (unconfirmed) attack against mental health and substance abuse facility in Canada exposed target data.	•
2022-06-04	Ransomware	>	Pharmaceutical	Ransomware (unconfirmed) attack against pharmaceutical in South Africa exposed target data.	•
2022-06-04	Ransomware		Clinc	Ransomware (unconfirmed) attack against clinc in United States of America exposed target data.	•

Government

Hospital

Pharmaceutical

Hospital

Ransomware attack against government in Costa Rica forced IT systems offline and affected online

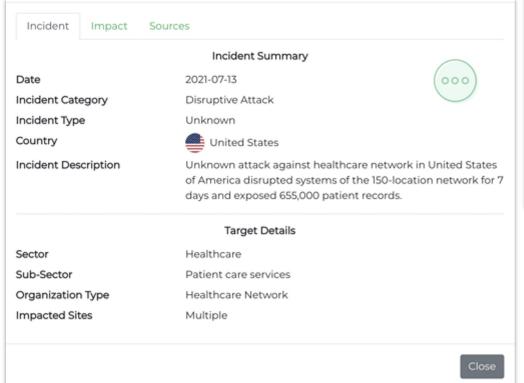
portals and telephony.

Ransomware (unconfirmed) attack against hospital in Belgium exposed target data.

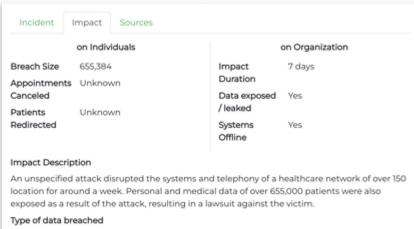
Ransomware (unconfirmed) attack against pharmaceutical in Thailand exposed target data.

Ransomware (unconfirmed) attack against hospital in Spain exposed target data.

Incident Details

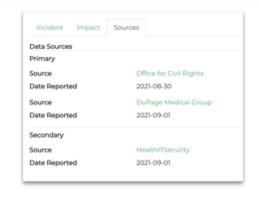






patient data; names; addresses; dates of birth; diagnoses codes; procedures codes; treatment

dates



24 months analysis – key takeaways

Ransomware remains Dominant Threat

Human-operated ransomware attacks remain the dominant disruptive threat to healthcare services, constituting **86% of documented attacks**.

Geographic Shift of Victims

Whereas the United States was disproportionately impacted by cyberattacks with 57.6% of all the documented pre-2022 healthcare cyberattacks, it has since accounted for 39.8% of the global total. In comparison, states in **Europe** accounted for 24% of healthcare cyberattacks pre-2022 and constituted 43.4% of attacks from January to May 2022.

Attacks on National Healthcare Systems

Costa Rica: The Hive ransomware operator is said to have affected services at over 1,200 hospitals and clinics with its attack on Costa Rica's national healthcare service on May 31. Earlier in the month, a Conti ransomware attack forced the Costa Rican government to declare a national emergency.

Italy: Around the same time, the website of Istituto Superiore di Sanità was hit as part of a broader DDoS campaign against Italian government organizations by the pro-Russian KillNet collective.

24 months analysis – What has Changed?

Pressure on Threat Actors: Early 2022 saw increased pressure on ransomware operators, including the arrest of alleged **REvil** members by Russian authorities and multi-country law enforcement efforts in late 2021.

Geopolitical Shock: The period preceding and the **Russian invasion of Ukraine** in February 2022 has seemingly led to a disruption to the Russian-speaking cybercriminal ecosystem, with both threat actors and perhaps their individual members flocking to take sides. This includes **Conti** – a dominant threat actor in the healthcare sector. An explanatory variable for the shift in targeting from a geographic and national healthcare network perspective may be due to their increased significance in the context of the war.

Changing Tactics: Several cybercriminal threat actors have shifted from disruptive ransomware attacks to pure data theft extortion. Prominent examples include CoomingProject, Lapsus\$ and Karakurt – a now identified side-operation of Conti.

Upcoming: Compendium launch

Protecting the Healthcare Sector from Cyber Harm

Compendium of multistakeholder perspectives, good practices, and recommendations

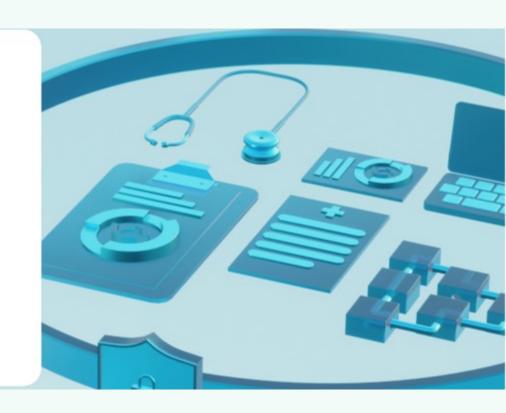
It is with great pleasure that we invite you to the hybrid launch event of our Compendium of Multistakeholder Perspectives on Protecting the Healthcare Sector from Cyber Harm on:

Thursday, 28th July 2022 at 13:15

UN Delegates Dinning Room (and online)
United Nations Headquarters (4th floor)

1 United Nations Plaza, New York, NY 10017

Buffet lunch will be provided to participants attending in person.



Thank you

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https://cyberpeaceinstitute.org https://cpi.link/CITHealth