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## Ransomware

WannaCry Attack - Threat or Fake News?:

- A ransomware attack that impacted more than 300,000
people across 150 countries in less than two days.
How it Happens:
- Hackers gain access to your computer's file system by installing a program via phishing link/attachment or by poorly
configured Remote Desktop Protocol service.
The ransomware prevents a user from accessing the
operating system, or encrypts all the data stored on the
computer.
The user asks the ransom to pay a fixed amount of money, as opposed to decrypting files or allowing access again to the operating system.
Best Practices:
Madain a robust, off-site backup of data
$\checkmark$ Properly configure Remote Desktop Protocol services.


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## The Importance of Messaging

 CommunicationDon's." Don't speak too early and/or "on the fly."

- Don't use a misleading initial holding statement
- Don't fall victim to saying too much on being too reassuring.
- Don't make logistical mistakes (e.g., call center)

Don't assume you have to answer all media incuiries
Don't over-apologize

- Don't leave out helpful evidence
- Don't call yourself a victim

Don't overstate the security measures you had in place.

* Don't overstate new security measures
* Don't ignore regulators

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## The Privacy "Patchwork"

- Federal \& state laws govern the han PII/PHI
- Laws covering SSNs / disposal of PII
- Employment-related laws (e.g. FMLA, A

Other federal and state regulations (e.g
Mass. Regs)

- HIPAA
- Applies to Covered Entities and Busines
- Preempted except where state law is " $r$
- State breach notification laws
- State medical information breach rer
- International data protection regulatic

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Definition of "Breach" in Final Rule

- Acquisition, access, use, or disclosure of unsecured protected health information in a manner not permitted under the HIPAA Privacy Rule is presumed to be a breach.
- Unless the Covered Entity or Business Associate can demonstrate that there is a low probability that the PHI has been compromised based on a risk assessment.
- Compromise is not defined. . .

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## State Laws

> 50 States, D.C., \& U.S. territories
$>$ Laws vary between jurisdictions
> Varying levels of enforcement by state attorneys general
> Limited precedent

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## International

Breach Notification
Several Non-U.S. jurisdictions have security breach notification requirements

- Some are specific to certain industries.
- Some only require notification to a regulator
- In certain countries, authorities have issued "guidance" for providing breach notification
- GDPR imposes a 72-hour notification requirement
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## GDPR Applicability

- GDPR only applies to organizations outside of the EU to the extent th they offer goods and services to or monitor the behavior of EU data subjects.
- Key Questions
- 1. Offering goods in services
- Do you have any representatives or offices in the EU?
- Does your website have a domain with an EU extension (e.g. .es, .de)?
- Do you provide a telephone number with an EU country code?
- Do any of your promotional or marketing materials mention EUbased clientele?
- 2. Monitoring the behavior of EU data subjects
- Do you track subjects on the internet (e.g. cookies)?
- Do you use data processing techniques to profile data subjects, their behaviors or attitudes? $\qquad$

Is California the Next GDPR?


## RISK MANAGEMENT STRATEGIES

Prevention = Protection

- Vendor Management

Security Awareness/Education
Basic Data Security Good Practices
Risk Assessment, Risk Management Pla

- Consistent Enforcement of Policies and

Procedures
Practice breach response initiative

- Delete data when it is no longer needed

Basic Data Security Best Practices

- Data Identification \& Classification

Data hygiene don't collect what you don't need)

- Access restrictions
- Document retention/destruction


## Policy \& Procedures

- Security Incident Response Plan

BYOD Policy and Social Media Policy
Information Security and User Policies

- What users can and must do to use network and organization's computer equipment.
Define limitations on users to keep the network , use of proprietary information, internet usage, system use, remote
- IT Policies
- Virus incident and security inciden
- Logs
- Backup policies

Server configuration, patch update, modification policies

- Firewall policies

Wiess, VPN, router, and switch security

- Email retention

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