# S31 - Incident Response Clinic Kieran Norton



September 21, 2009 - September 23, 2009





What	How
Large scale breaches and losses involving credit card data and PII (SSN, etc.) • Heartland • RBS Worldpay	Organized crime <ul> <li>Global, employs multiple approaches (see below)</li> </ul>
Hannaford	Hacks
• TJX • Veterans Affairs • HM Revenue & Customs	<ul> <li>SQL injection, trojans, sniffers, custom malware, 'drive by' attacks, etc.</li> </ul>
• Etc.*	Insiders
	<ul> <li>Typically leveraging existing privileges</li> </ul>
Customer data sold by "trusted" parties	
Countrywide Financial	Theft
• Sprint	<ul> <li>Stolen laptops, computers, etc.</li> </ul>
Accidental disclosures	Losses
<ul> <li>Occur almost weekly*</li> </ul>	<ul> <li>Backup tapes, thumb drives and other media</li> </ul>
<ul> <li>Exposure, loss, transport, etc.</li> </ul>	
	Human or IT system errors
	<ul> <li>Resulting in disclosure of sensitive information</li> </ul>





Business organizations have been significantly impacted by the increase in regulatory and industry requirements (such as PCI) to report breaches of personally identifiable information (PII) to data subjects or business partners.

Driven by breach notification laws in nearly all states, breach notification requirements expose businesses to potentially significant losses arising from negative publicity, loss of reputation, regulatory fines and class action lawsuits.

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Legislation enacted

Traditional security measures are proving inadequate to prevent unauthorized access to data (external and internal, intentional and unintentional), and attacks are increasingly sophisticated and far reaching.

No legislation enacted























## **Responding: A Note on Notification**

### Are notifications required?

- Are there regulatory obligations that require notification?
- · Are there contractual obligations that require notification?
- · Are there other external parties that the company would *choose* to notify?

### Potential individuals/entities to notify include:

- Individuals/data subjects affected
- Third parties
- · Law enforcement
- · Regulatory authorities
- Insurance carrier

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### Responding: Containment and Recovery

### **Containment and isolation**

- Determine when to stop investigation, and when to start containing/controlling
- Take appropriate steps to contain and control the incident to prevent further loss or harm while preserving records and other evidence for further investigations

### Recovery

• Take measures to address and mitigate any harm realized by the company, customers and partners

### Worth Noting:

- · Recognize a practical 'dead end' / point of diminishing returns
- Recovery from technical vulnerabilities may require vendor support, significant programming or significant security configuration
- Recovery may be a multi-phase process as you start with temporary fixes and work your way toward permanent remediation
- This effort is probably not in your budget impact can be significant











