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*What happens after a cyber attack, and how to make sure your company isn't one of the 30% that doesn't recover*

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# SURVIVING

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WHAT FOLLOWS



**ROD ANDES**

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FOUNDER & CEO, CYBANTAGE

# **SURVIVING** **WHAT FOLLOWS**

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What Happens After a Cyber Attack — and How to Make Sure Your  
Company Isn't One of the 31% That Doesn't Recover

**Rod Andes**

Founder & CEO, Cybantage

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## About the Author

*Rod Andes — Founder & CEO, Cybantage*

Rod Andes is the Founder and Chief Executive Officer of Cybantage and the architect of the Cybantage Cyber Survivability Framework™ — the governance, insurance, legal, and decision-authority architecture that sits at the center of this book. His work begins where most cybersecurity work ends. By the time an organization retains Cybantage, the firewalls have usually been bought, the awareness training delivered, and the compliance audit passed. What remains — and what tends to determine whether a company is still operating eighteen months after a major event — is the architecture that surrounds the technology: the insurance policy that will or will not pay, the decision authority that does or does not exist, the legal posture that protects or exposes executives personally, and the governance record that survives discovery rather than being weaponized inside it.

Andes has spent years inside the rooms where those answers are discovered too late. He has taken the 2:47 a.m. call from General Counsel. He has sat with boards in the first hour of a ransomware event, watching competent executives learn in real time that the coverage they purchased will not respond, that the playbook they approved is silent on the decision in front of them, and that the attorney-client privilege they assumed was in place was never established. The patterns he observed in those rooms — repeated across organizations in healthcare, financial services, and critical infrastructure — became the dataset behind this book and the empirical spine of every framework described in it.

***“The difference between the organizations that survive and the organizations that don’t is almost never determined by what happens during the event. It is determined by what the organization built before the event.”***

He is the creator of the Cyber Insurance Survivability Index™ (CISI™), the Leadership Defensibility Index™ (LDI™), and CyberRes™ — instruments now used by executive teams, boards, coverage counsel, and insurance brokers to measure an organization’s structural ability to survive a major cyber event. Not its adherence to compliance. Not the size of its security budget. Its actual capacity to absorb what follows and remain standing. The CISI™ alone has been applied across a structured review of 1,478 healthcare organizations, with additional application across hundreds of entities in

financial services and critical infrastructure. The dataset is continuously updated and underpins the survivability patterns, denial mechanisms, and governance failure modes documented throughout this book.

Andes advises chief executives, chief financial officers, chief information security officers, general counsel, and boards of directors — as well as the insurance brokers, coverage attorneys, and forensic partners who work alongside them. He is routinely engaged in the highest-stakes moments of an organization's life: pre-renewal attestation audits, board-level risk acceptance decisions, post-incident claim defense, privileged forensic deep dives, and the quiet reconstruction of governance architecture after a near-miss. His point of view is unusual in the field because it is not primarily a technologist's point of view. It is the point of view of the person who has watched what actually determines corporate survival after a breach — and who is no longer willing to let executives discover the answer the hard way.

Cybantage's engagements sit deliberately at the intersection of four disciplines that most organizations treat as separate functions: cybersecurity governance, cyber insurance economics, director and officer liability, and incident-response law. The firm's thesis — argued throughout this book and demonstrated in its client work — is that these disciplines are not separate. They are a single system, and the weakest link dictates the outcome. Andes built Cybantage to be the firm that treats them that way.

Beyond his client work, Andes writes, speaks, and consults on cyber survivability, executive defensibility, cyber insurance payability, and the governance architecture of the uninsurable. He advises board committees on cyber oversight obligations in the post-SolarWinds, post-Change Healthcare enforcement environment, and he is a frequent private counselor to CEOs and General Counsel in the forty-eight hours after a confirmed breach — the window in which survivability is most often won or lost.

This is his first book. It is the book he wishes every executive had read before the call came in at 2:47 in the morning.



To learn more about the frameworks referenced in this book — the CISI™ assessment, the LDI™ governance review, the Cybantage Cyber Survivability Framework™, and the CyberRes™ quarterly maintenance program — or to inquire about executive briefings, board advisory engagements, and incident-response retainers, visit [www.cybantage.com](http://www.cybantage.com).

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# Introduction: I Have Watched Companies Die

*The call came at 2:47 in the morning. I know the exact time because I still have the screenshot. The General Counsel's name lit up my phone — not the CISO, not the CEO — the GC, which told me immediately that someone on the executive team had already concluded this was going to be a legal problem before they'd finished understanding it was a security problem. She said three words before I could speak: 'It's happening now.'*

I want to tell you what happened over the next ninety-six hours, because what happened was not what the organization expected. They had a cyber insurance policy with a \$10 million limit. They had passed their HIPAA audit eleven months earlier. They had a CISO with twenty years of experience and a security team that genuinely worked hard. They had done, by any conventional measure, what organizations are told to do.

And they almost didn't survive.

Not because of the attack. The attack was severe — ransomware, eleven days of dwell time before detonation, 67% of clinical systems encrypted — but it was the kind of attack that a well-prepared organization can recover from. What nearly killed them was the machinery that was supposed to protect them: the insurance policy that the carrier was preparing to deny, the governance architecture that collapsed in the first hour when nobody could agree on who was actually in charge, the legal exposure that was metastasizing because decisions were being made in the open by people who didn't understand they were creating discoverable admissions.

I've been in those rooms many times now. Sometimes we pull organizations back from the edge. Sometimes we arrive too late, or we're not called at all, and we read about the merger under financial distress six months later. What I can tell you with certainty, having studied 1,478 healthcare organizations alone and hundreds more across financial services and critical infrastructure, is this: the organizations that survive a significant cyber event are not the ones with the best technology. They are the ones with the right architecture in place before the event happens.

That architecture is what this book is about.

## What This Book Is — and What It Isn't

This is not a technology book. I'm not going to teach you to write firewall rules or configure endpoint detection software. Those things matter, and they're covered by people more technically specialized than I am. This is a business survival book. It is about the organizational, legal, financial, and governance architecture that determines whether a company survives a serious cyber event or doesn't.

This is a how-to book. Every chapter ends with specific actions you can take. Not 'consider improving your security posture' — actual steps, actual conversations, actual documents you need to create. A professional accountability book should leave you with a working plan, not a list of concerns. That's the standard I've held myself to.

This is also an honest book. I'm going to tell you things that are uncomfortable. That your insurance policy probably won't pay. That your board is creating personal liability exposure it doesn't know about. That the compliance audit you passed last year is largely irrelevant to whether you survive a cyber event. These aren't opinions — they're findings from a dataset, and I'll show you the data.

## The Premise

Here is the central argument of this book, stated plainly: the difference between the organizations that survive a major cyber event and the organizations that don't is almost never determined by what happens during the event. It is determined by what the organization built before the event. The governance architecture. The insurance posture. The legal framework. The decision authority. The forensic preparation.

The organizations that close — that merge under duress, that surrender their licenses, that lay off their staff and shutter their doors within eighteen months of a breach — almost never close because they failed to detect the attack in time. They close because when the attack happened, they discovered that the financial backstop they relied on wasn't real, the governance they thought existed wasn't there, and the legal exposure they'd been accumulating for years was now due.

Everything you need to build — the assessment tools, the governance documents, the insurance strategy, the legal architecture, the response

playbook — is in this book. Build it before the call comes. Because if you wait until the call comes to start building it, you will be building it in the worst possible conditions, for the most expensive possible audience.

## How to Use This Book

Part One shows you what actually happens after a significant cyber event. I want you to feel the weight of it before we talk about preparation, because preparation is difficult work and people don't do difficult work without sufficient motivation. The first five chapters are designed to provide that motivation.

Part Two is a diagnostic. It explains the specific preparation failures — the false assurances, the phantom policies, the governance gaps — that make already-serious events catastrophic. This is where we identify what most organizations are missing.

Part Three is the build. This is the longest section of the book and the most actionable. It walks you through every component of the Cybantage Cyber Survivability Framework — not as a framework description, but as a set of specific things you do.

Part Four is the playbook for when the event actually happens. Even if you do everything in Part Three, you still need to know what to do when the call comes. Part Four gives you that sequence.

Part Five is maintenance. Survival architecture decays. This section shows you how to keep it current.

Read it in order if you're approaching this fresh. If you've already had an event and are in recovery, go directly to Part Four. If you're most worried about insurance, go to Chapter 6. If you need to brief your board this month, read Chapters 3 and 15 first.

**Wherever you start, start now. That is the only advice in this book that cannot be deferred.**

**PART ONE**

# What Follows

The unvarnished reality of the days, weeks, and months after a cyber attack

## CHAPTER 1

## The First Seventy-Two Hours

*At 6:14 AM on a Tuesday, the Director of IT at a 340-bed regional hospital noticed that workstations in the emergency department weren't responding normally. He put in a ticket and went to get coffee. By 7:30 AM, clinical systems across three floors were down. By 9:00 AM, the emergency department was on diversion. By noon, the CEO had called eleven different people and still didn't know who was supposed to be running the response. By 6 PM, a threat actor in an Eastern European ransomware group was waiting for the hospital's response to a \$4.2 million ransom demand. The insurance carrier had not yet been notified. The attorney-client privilege that would have protected the forensic investigation had not been established. A member of the board of directors had already spoken to a local reporter. It was day one.*

I'm going to walk you through exactly what happens in the first seventy-two hours of a significant cyber event, because this timeline is predictable. The specific attack vector varies. The specific systems affected vary. The dollar amount varies. But the organizational experience — the sequence of decisions, mistakes, and irreversible actions that happen in the first three days — is remarkably consistent across organizations that are unprepared. Understanding this timeline is the first step to interrupting it.

### Hours 1–6: Detection and Disorientation

The first two hours after detection are typically the most chaotic, and they set the conditions for everything that follows. In organizations without preparation, this period is characterized by a single dominant dynamic: everyone knows something is very wrong and nobody knows who is in charge of fixing it.

The people who detect the problem first are almost always technical staff — a help desk technician, a network engineer, a systems administrator. They escalate to their immediate supervisor. That supervisor escalates to the IT director or CISO. By the time the CISO is engaged, twenty to forty minutes

have passed, the scope of the event is still being assessed, and a critical decision is already being deferred: do we notify leadership now, or wait until we know more?

This decision — wait to notify until we know more — is one of the most expensive defaults in cybersecurity. The instinct behind it is understandable. Nobody wants to call the CEO at 6 AM with incomplete information. Nobody wants to trigger an organizational fire drill that turns out to be a false alarm. But the cost of waiting is severe, for two specific reasons.

First, every hour without senior leadership engagement is an hour of decisions being made by people who lack organizational authority to make them. Forensic actions taken before attorney-client privilege is established are unprotected. Vendor engagements made without procurement authority are unenforceable. Communications sent to external parties before legal authorization are potential admissions. The technical team, doing their best to manage the situation, is inadvertently creating liability at speed.

Second, the notification clock for insurance and regulatory purposes starts at detection — not at confirmation, not at containment, not at the point where you feel you understand what happened. Many cyber insurance policies require notification to the carrier 'as soon as practicable' or within a specific number of hours. State breach notification laws start their clocks when you 'knew or reasonably should have known' about an incident affecting personal data. Every hour of internal deliberation is an hour eaten from notification windows you cannot get back.

The right answer — which only prepared organizations know — is to notify legal counsel and designate incident authority simultaneously with detection assessment, not after it.

## **Hours 6–24: The Cascade Begins**

By hour six, the scope of a significant ransomware event is usually clear enough to require executive engagement. This is when the governance problems become visible. In a hospital environment, this typically means: the CEO, CFO, CISO, General Counsel, Chief Medical Officer, and Chief Nursing Officer are all in the same room or on the same call, each with a different understanding of what is happening, each with a different instinct about what

to do, and none of them — in an unprepared organization — with clear authority to make a binding decision.

What I have observed in these first executive conversations, across dozens of organizations, is that the following things happen simultaneously and without coordination:

- The CEO, who doesn't understand the technical details, defers to the CISO on technical decisions but inserts themselves on every communications decision, creating bottlenecks.
- The CISO, who understands the technology, lacks organizational authority to commit to remediation spending without CFO approval, creating delays.
- The CFO, suddenly realizing that the cyber insurance policy may be relevant, tries to locate the policy documents while also fielding calls from the board chair, who heard about the event from a physician.
- The General Counsel, who should be the most important person in the room, is often treated as a secondary concern — called in to review external communications rather than to lead the response architecture.
- External vendors are being contacted by multiple people independently. An IT vendor gets a call from the CISO. The same vendor gets a call from the CEO's assistant. The forensic retainer firm gets a call from the IT director. Each call creates a separate engagement track with separate documentation.

This is not dysfunction unique to poorly-managed organizations. I have seen it at sophisticated, well-funded enterprises. It is the predictable result of the fact that normal organizational governance structures — built for steady-state operations where decisions can be deliberated — are inadequate for crisis conditions where decisions must be made in minutes.

At hour twelve, in an unprepared organization, the typical situation is: a forensic investigation is underway without attorney-client privilege, because nobody thought to call legal first. The insurance carrier has not been notified. Three separate external parties have received informal characterizations of the event that are inconsistent with each other. The board chair has received a personal briefing from the CEO that diverges from the statement being

prepared for public release. And the ransomware group is monitoring the organization's public communications with great interest.

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**The first 24 hours don't just set the tone. They set the legal position, the insurance posture, and the narrative — for every proceeding that follows.**

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## **Hours 24–72: The Decisions That Cannot Be Undone**

The second and third days of a cyber event are when the decisions that cannot be undone get made. Regulatory notifications go out — or don't. Ransom negotiation positions get established — or don't. The forensic investigation generates findings — which are either protected by privilege or are not. Insurance notification is made — either within the policy window or outside it.

These are binary decisions. Either your forensic work was protected by attorney-client privilege or it wasn't. You can't establish privilege retroactively over work that was already conducted. Either you notified the insurance carrier within the contractual window or you created a notice violation that the carrier will use as grounds for coverage reduction or denial. Either the external communications were controlled through legal authorization or they weren't. The third day is too late to repair the first day.

Here is a specific example of what happens when these decisions go wrong. A financial services firm I worked with discovered a data exfiltration event at 4 PM on a Wednesday. Their CISO, who was capable and experienced, made a rational decision: get the forensic work done before calling legal, so that when legal is engaged, they have something concrete to show them. By Thursday evening, the forensic team had done excellent work. They had identified the attack vector, the data that was exfiltrated, and the threat actor group with reasonable confidence.

They had also created a thirty-page forensic report that was not protected by attorney-client privilege. When the regulatory investigation began three weeks later, that report — including the finding that a known vulnerability had been present in the environment for nine months without remediation — was fully discoverable. The organization's legal team spent the next fourteen months

managing the consequences of a document that should never have existed in an unprotected form.

The cost of that timeline decision — call the forensics team before calling legal — was an additional \$2.3 million in legal costs and a regulatory settlement that would have been significantly smaller if the privileged forensic findings had been the only record.

## **The Timeline in Organizations That Are Prepared**

For contrast, here is what the first seventy-two hours looks like in an organization that has done the preparation described in Part Three of this book.

Detection happens. The person who detects it immediately activates the Incident Response protocol — not by remembering what to do, but by following a document they have reviewed and practiced. That protocol has three first steps that happen in parallel: (1) notify the pre-designated Incident Decision Authority, (2) activate the external forensic retainer under the pre-established attorney-client privilege framework, and (3) send the preliminary notification to the insurance carrier.

Three calls. Fifteen minutes. Everything after those calls is managed by people with clear authority, inside a legal structure that protects the organization's position, with the insurance relationship properly established.

The CEO knows who is in charge because it's written down and they've rehearsed it. The General Counsel is directing the forensic engagement because the privilege architecture was established during a quiet planning period, not during an emergency. The insurance carrier is receiving updates because the notification was made immediately, and the organization has a documented history of accurate attestations to support the claim. The board chair has a coordinated communications protocol and knows not to speak to the press.

The attack is just as serious. The forensic findings may be just as alarming. But the organization's exposure — legal, financial, reputational — is contained. That containment was built during the months and years before the call came.

## What This Means for You

If you read this chapter and recognized your organization in the unprepared timeline — if you found yourself thinking 'that's what would happen here' — then you have an accurate picture of your current survivability risk. That recognition is valuable. It tells you what you're preparing against.

If your organization has no written Incident Authority designation, no pre-established attorney-client privilege framework for forensics, no carrier notification protocol, and no practiced response process — you are in the timeline that produces the \$2.3 million regulatory settlement. You are in the timeline that produces the coverage denial. You are in the timeline where the board chair talks to the reporter.

Everything in Part Three of this book is designed to move you from that timeline to the other one. The work takes three to twelve months depending on where you start. Starting it after the call comes is too late.

### BEFORE YOU CLOSE THIS CHAPTER

- 1.** Ask your CISO or IT leadership today: who is the designated Incident Decision Authority for a cyber event? Get the name in writing.
- 2.** Call your General Counsel and ask whether attorney-client privilege has been established for any forensic work conducted on cyber incidents. If the answer is no or 'I'm not sure,' schedule a meeting to fix it.
- 3.** Pull your cyber insurance policy and find the notification provision. Write down exactly what it requires and who in your organization owns that notification. If no one does, assign it today.
- 4.** Identify whether you have an external incident response retainer in place. If not, this is a thirty-day action item — retaining a firm during an event is dramatically more expensive than doing so in advance.
- 5.** Schedule a two-hour tabletop exercise with your C-suite within the next ninety days. Use the scenario: ransomware is detected at 6 AM Tuesday. The exercise reveals your governance gaps faster than any assessment.

## CHAPTER 2

## The Claim That Won't Pay

*The CFO had been confident. 'We have a ten-million-dollar policy,' she told me when I arrived. 'We're covered.' She had the declarations page in her hand. She'd reviewed it herself at renewal six months earlier. The premium was \$180,000 a year — not cheap — and the broker had described the coverage as 'comprehensive.' Three weeks later, she was on a call with the carrier's forensic team, who were asking pointed questions about an MFA attestation the organization had made in the policy application. Two months after that, the carrier denied \$6.8 million of the \$8.1 million claim. The policy was real. The coverage was not.*

Forty to forty-four percent of cyber insurance claims are denied at the time of loss. I want you to sit with that number for a moment. Not disputed — denied. The carrier reviews the claim, reviews the policy application, reviews the forensic findings, and concludes that the organization is not entitled to the coverage it paid for. This is not a rare edge case. It is the outcome for nearly half of all organizations that file a cyber insurance claim.

The most important thing to understand about claim denial is this: it is almost never a surprise to the carrier. The conditions that produce denial — the gaps between what was attested in the application and what was actually true about the organization's controls — were visible in the application. The carrier accepted the risk based on those attestations. When a loss event occurs and forensic investigation reveals the gap, the carrier's forensic team is not discovering something unexpected. They are confirming something they had reason to suspect.

Understanding why claims are denied — the specific mechanisms — is the prerequisite for building a policy that will pay.

## The Four Mechanisms of Denial

### Mechanism One: Material Misrepresentation

The most common mechanism of denial is material misrepresentation in the insurance application. To obtain cyber insurance, an organization completes an application that asks detailed questions about its security controls. How many users have multi-factor authentication? Are backups tested and stored offline? Is patch management meeting defined SLA timelines? When was the last incident response tabletop exercise?

These questions have right answers and wrong answers. Organizations know which answers produce better coverage terms and lower premiums. The people completing the application — often a combination of the CISO, IT director, and risk manager or CFO — provide answers that reflect their belief about the organization's current state. They are not typically lying. They believe what they write. But their beliefs are often inaccurate.

Here is how the inaccuracy happens in practice. The question reads: 'Is multi-factor authentication deployed for all remote access?' The organization's security policy requires MFA for remote access. The primary remote access system has MFA enabled. The CISO or IT director, reading this question quickly while completing a long application, writes 'Yes.' They are thinking of the policy and the primary system.

What they are not thinking of are the seventeen legacy VPN accounts that were created before MFA was required and were never migrated. The three contractor accounts that the operations team requested be exempted because of the contractor's own authentication system. The two executive accounts where MFA was disabled 'temporarily' eight months ago because of a device issue and never re-enabled.

The attestation is inaccurate. Not fraudulently — but inaccurately. When the ransomware group uses one of those seventeen legacy VPN accounts to access the environment, and the carrier's forensic team pulls the access logs and finds it, the attestation on the application is no longer 'Yes.' It is a misrepresentation. And it is material — because the carrier argues, with significant persuasiveness, that they would have priced the risk differently had they known the accurate answer.

This specific pattern — MFA attestation inaccuracy — is the most common single finding in insurance denial forensics. It is followed closely by backup testing (attestation: tested regularly; reality: the last full restoration test was twenty-seven months ago), patch management SLA compliance (attestation: critical patches within thirty days; reality: average deployment is forty-seven days with legacy system exceptions), and incident response plan currency (attestation: updated annually; reality: the current plan was written three years ago).

## **Mechanism Two: Policy Exclusions**

Every cyber insurance policy contains exclusions — categories of events for which coverage does not apply. Some exclusions are obvious and expected: fraud committed by the insured, intentional acts, events arising from pre-existing known conditions that were actively concealed. Others are less expected and frequently misunderstood by policyholders.

The three exclusions responsible for the largest share of coverage denial in the current market are nation-state attribution, third-party origination, and systemic events. These are not obscure provisions buried in fine print — they are increasingly standard language in cyber policies — but they are exclusions that most organizations have never seriously evaluated against their own risk profile.

The nation-state exclusion states, in various formulations, that losses caused by or resulting from the cyber operations of a nation-state or nation-state-sponsored actor are not covered. The challenge is attribution: definitively establishing nation-state sponsorship is technically difficult, and the exclusion doesn't typically require proof beyond reasonable doubt. Healthcare organizations, financial institutions, critical infrastructure operators, and defense contractors face elevated nation-state targeting risk. If your policy contains this exclusion and you have never specifically negotiated around it, you may be carrying an effective coverage void for the exact threat scenarios most likely to affect you.

The third-party origination exclusion excludes losses that originate through a vendor or service provider rather than through a direct attack on your environment. In a world where supply chain attacks have become primary threat vectors — where your managed service provider, your software vendor, or your cloud infrastructure provider is compromised, and that compromise

reaches you through a legitimate trusted relationship — this exclusion can eliminate coverage for some of the most severe and common attack scenarios.

The systemic event exclusion is the insurance industry's response to the NotPetya problem. When a single cyber event causes correlated losses across thousands of policyholders simultaneously — as NotPetya did in 2017 — the aggregate claims can threaten the carrier's solvency. Systemic exclusions address this by limiting or excluding coverage for events that affect a defined number of policyholders simultaneously. Organizations with high cloud concentration — those that have placed 70 or 80 percent of their workloads with a single cloud provider — carry elevated systemic event risk.

### **Mechanism Three: Notice Violations**

Most cyber insurance policies contain a provision requiring the policyholder to notify the carrier within a specified period of discovering a covered event. The period varies by policy — some say 'as soon as practicable,' some say seventy-two hours, some say thirty days. Failing to notify within the required period can void coverage entirely or reduce the covered amount.

Notice violations are depressingly common for a straightforward reason: in the chaos of the first seventy-two hours, the insurance notification is frequently treated as a secondary concern. The priority is managing the technical response, communicating with the board, managing the media. Nobody remembers that there is a seventy-two-hour clock running on the insurance notification.

The organizations that I've seen lose coverage through notice violations didn't miss the notification window because they forgot they had insurance. They missed it because notification ownership wasn't assigned. Nobody in the organization had a clear, pre-existing responsibility to pick up the phone and call the carrier on day one. In the chaos of the response, that undefined responsibility fell through the gaps.

### **Mechanism Four: Cooperation Violations**

Cyber insurance policies typically contain a cooperation clause requiring the policyholder to cooperate with the carrier's investigation of the claim — providing access to records, systems, personnel, and forensic evidence. When an organization's legal counsel restricts the carrier's access to forensic work product on privilege grounds — without having properly structured the

privilege framework — carriers will sometimes deny claims on the basis that cooperation was withheld.

This is the most technically complicated denial mechanism because it puts two legitimate interests in direct conflict: the organization's interest in protecting forensic findings under attorney-client privilege, and the carrier's interest in accessing those findings to evaluate the claim. Resolving this conflict requires a specific legal architecture that coordinates the privilege framework with the cooperation clause — an architecture that must be designed before the event, not negotiated during it.

## Understanding Your Current Policy

The single most important thing you can do with this chapter is pull your current cyber insurance policy and read it with what you've just learned. Not the declarations page — the full policy form. Here is what to look for:

Find the application or supplemental questionnaire you completed at the last renewal. Read every technical question and the answer that was provided. For each answer, ask: could we prove this is accurate today, with evidence? Not with a belief, not with a policy statement — with actual evidence of execution. If the answer is 'I'm not sure,' you have an attestation gap.

Find the exclusion section. Read every exclusion. For each exclusion, ask: does this scenario apply to our risk profile? For nation-state: do we operate in a sector that nation-state actors target? For third-party origination: do we have high-privilege vendor relationships? For systemic: do we have concentrated cloud or infrastructure dependencies?

Find the notice provision. Write down the exact requirement and the exact window. Assign a named individual the responsibility to make this notification. Make sure that person knows they own it and knows what to say when they make the call.

This review will likely be uncomfortable. It may reveal that the policy you have been paying for will not protect the organization in the scenario you are most likely to face. That discomfort is the appropriate response to accurate information. The response to that discomfort is Part Three of this book.

# 40–44%

of cyber insurance claims are denied at the time of loss

That number was gathered from insurance industry data across multiple carriers and multiple loss years. It is not an outlier from a bad year. It is the consistent industry-wide experience. The majority of organizations paying for cyber insurance are paying for a policy that will not perform as expected when they need it.

The question is which side of that number you're on.

## BEFORE YOU CLOSE THIS CHAPTER

- 1.** Pull your complete cyber insurance policy — not the declarations page, the full policy form — and read the exclusion section in its entirety this week.
- 2.** Pull the application or supplemental questionnaire from your last renewal. For each technical attestation, identify whether you could prove it accurate today with documentation.
- 3.** Assign a specific named individual as the owner of insurance carrier notification. Write their name into your incident response protocol.
- 4.** Call your broker and ask specifically: does our policy contain nation-state, third-party origination, and systemic event exclusions? If yes, what does addressing each of those require?
- 5.** Ask your General Counsel how your privilege framework interacts with the cooperation clause in the policy. If they haven't thought about it, that's a ninety-day action item.

## CHAPTER 3

## The Personal Reckoning

*He had been CFO for eight years. He'd signed the cyber insurance application three times. Each time, the technical questions were forwarded to IT with a note: 'Please complete these and return.' He never reviewed the answers before signing. He didn't think he needed to — that was IT's domain. Eighteen months after the breach, he was named individually in a derivative shareholder lawsuit alleging that he had signed material misrepresentations to the insurance carrier. His personal D&O coverage had a cyber exclusion. He spent \$340,000 on personal legal counsel before the case settled. He is no longer with the company.*

The cyber event doesn't just threaten the organization. It threatens the individuals who lead it. CEOs, CFOs, CISOs, General Counsels, and board directors are increasingly subject to personal legal and regulatory exposure following significant cyber events. Understanding what that exposure looks like — specifically, mechanistically — is essential context for the governance preparation in Part Three.

### Director and Officer Liability

Directors and officers of corporations carry fiduciary obligations to the organization and its stakeholders. In the context of cyber risk, those obligations have been clarified and strengthened considerably over the past decade. The SEC's cybersecurity disclosure rules, state corporate law standards of care, and the evolving common law of negligence have collectively created a framework in which directors and officers can be held personally liable for failures of cyber oversight.

The personal liability exposure for directors and officers typically arises through one of three legal theories. The first is breach of fiduciary duty: the argument that a director or officer failed to exercise the care, attention, and skill that a reasonably prudent person in a similar position would exercise. Applied to cyber, this means: did the board receive regular, meaningful cyber

risk information and respond appropriately? Did executives take reasonable steps to understand and manage cyber risk? Did the organization have adequate cyber oversight governance?

The second theory is material misrepresentation: the argument that an executive signed or authorized a document — a securities filing, an insurance application, a regulatory certification — that contained inaccurate representations about the organization's cyber security posture. The CFO in the opening scenario was not negligent in any malicious sense. He was negligent in the most ordinary sense: he signed a document without verifying its accuracy. That ordinary negligence, when the document is a material representation to an insurance carrier, creates personal exposure.

The third theory is negligent hiring and supervision: the argument that executives failed to ensure that the people responsible for cyber security — the CISO, the IT leadership team — were adequately qualified, resourced, and supervised. This theory is less commonly pursued but has succeeded in cases where the organization demonstrably failed to resource the security function appropriately.

## **What the CEO Owns**

The CEO's cyber exposure comes from multiple directions. First, as the organizational leader, the CEO is ultimately accountable for the governance decisions that determined the organization's cyber posture — the budget allocations, the risk acceptance decisions, the choice to defer or accelerate remediation. In the event of a breach, every prior decision that reduced security investment or accepted identified risk without documentation becomes a potential element of a negligence claim.

Second, the CEO's external communications during and after a breach are scrutinized intensely. A CEO who describes the organization's security posture as 'strong' in a media interview while internal assessments have identified significant gaps is creating evidence of misrepresentation. A CEO who describes the breach as affecting 'fewer than one thousand records' before the forensic investigation is complete, and who turns out to be wrong, is creating evidence of a false statement. Every external communication from a CEO during or following a cyber event should be reviewed by legal counsel before it is made.

Third — and this is the exposure that surprises CEOs most — prior security assessment findings that were not acted upon become a direct liability following a breach. When a penetration test two years ago identified the exact vulnerability that the threat actor used to gain initial access, and the CEO was briefed on that finding and authorized a 'defer' decision without formal documentation, the CEO has a problem. That 'defer' decision, made informally in a budget conversation, looks very different in a deposition than it did in the meeting.

## **What the CFO Owns**

The CFO's primary exposure runs through the insurance application. In most organizations, the CFO or a direct report signs the cyber insurance application. That signature is a legal representation to the insurance carrier that the information in the application is accurate. When the information is not accurate — because the technical attestations were provided by IT staff without independent verification — the CFO has made a material misrepresentation.

The CFO's second exposure runs through financial disclosure. For public companies, material cyber risks must be disclosed. A CFO who concluded that a known cyber risk was not material for disclosure purposes — and who made that conclusion without adequate information or analysis — is exposed if the risk subsequently materializes and the damages are significant.

The CFO's third exposure is operational: the organization's financial continuity during a cyber event depends on decisions about ransom payment, business interruption management, and cash flow during recovery. These are genuinely difficult decisions under extreme time pressure. Making them without adequate preparation — without a ransom decision framework, without a business interruption analysis, without a cash reserve plan — is the kind of decision-making that looks like negligence in hindsight, even when it was simply unprepared.

## **What the CISO Owns**

The CISO's personal exposure is different from the CEO's and CFO's in character but not in severity. The CISO's primary risk is professional liability arising from the gap between what they represented — either explicitly or

implicitly through their role — and what the forensic evidence shows was actually true about the organization's security posture.

A CISO who provided the technical attestation inputs for the insurance application and who knew, or should have known, that those inputs were inaccurate has a problem. A CISO who briefed the board that 'MFA is deployed across the enterprise' when the actual deployment rate was 64% has a problem. A CISO who signed off on an incident response plan as 'current and tested' when the last test was twenty-six months ago has a problem.

These problems are not hypothetical. CISO personal liability in breach-related proceedings has increased significantly over the past five years. The SEC charged the CISO of SolarWinds with fraud and internal controls violations in 2023 — a landmark case that established that CISO representations about security posture can be the subject of securities fraud claims. Whether or not that specific case produces a conviction, the signal to the market is clear: the CISO is personally accountable for the accuracy of security representations.

The protection for CISOs is the same as the protection for any executive: accurate representations, documented decisions, formal risk acceptance processes, and a governance architecture that creates a clear record of reasonable professional conduct. A CISO who has documented every material finding, escalated every significant risk, obtained formal risk acceptance for every deferral decision, and maintained accurate records of what they knew and when they knew it is in a very different legal position than a CISO who managed security informally and relied on institutional memory.

## **What the Board Owns**

The board's cyber oversight obligation has been codified in ways that continue to evolve. For public companies, SEC rules now require annual disclosure of the board's role in overseeing cyber risk — which means the board must actually have a role in overseeing cyber risk, not just nominally claim one. For healthcare organizations, the board has obligations under HIPAA and state health data laws. For financial institutions, regulators have issued guidance establishing board-level accountability for cyber governance.

More practically: a board that has not received regular, meaningful cyber risk reporting cannot demonstrate that it exercised reasonable oversight. A board that received only compliance status reports — 'we passed our HIPAA audit' —

without any assessment of insurance coverage adequacy, governance architecture, or actual threat exposure, cannot demonstrate that it understood and oversaw the actual risk.

The board's documentation of its cyber oversight activities is the first line of defense against director liability claims. Board minutes that reflect substantive cyber risk discussions — questions asked, management accountabilities established, risk acceptance decisions documented — create a record of reasonable governance. Board minutes that reflect no cyber discussion, or that mention cyber only as 'CISO presented update, no questions' — create the opposite.

## The Path to Personal Protection

Personal protection for executives and directors is not primarily about legal defense. It is about governance architecture. The executives and directors who emerge from cyber events with their personal legal positions intact are not the ones with the best lawyers. They are the ones who made documented decisions, maintained accurate records, established clear authorities, and created a consistent record of reasonable oversight.

Specifically: every material security finding needs a documented disposition — either a remediation plan with a timeline and owner, or a formal risk acceptance decision with the appropriate authority. Every executive representation about security posture needs to be based on verified information, not belief. Every insurance attestation needs to be reviewed for accuracy before it is signed. Every board discussion about cyber risk needs to be reflected in minutes.

None of this is impossible. None of it requires deep technical expertise. All of it requires intention and discipline. And all of it needs to be built before the event, because the event is when it gets tested.

### BEFORE YOU CLOSE THIS CHAPTER

1. Identify every cyber-related representation your organization has made in the past eighteen months: insurance applications, SEC filings, regulatory certifications, vendor questionnaires. Assign a legal review to confirm accuracy.

- 2.** Establish a formal risk acceptance process for all open security findings. Every finding that is not remediated within its target window should have a documented risk acceptance decision, signed by the appropriate authority.
- 3.** Review the most recent board minutes: does the cyber discussion reflect substantive engagement? If not, build a quarterly cyber risk reporting package for the board that produces a defensible oversight record.
- 4.** Ask your CISO: what are the three findings from the past twelve months where we accepted the risk informally rather than formally? Document them now, retroactively, before they become a liability.
- 5.** Consult your D&O insurance carrier about cyber exclusions and confirm that your personal coverage extends to cyber oversight failures.

## CHAPTER 4

## The Financial Spiral

*The ransomware encrypted 67% of production systems on a Tuesday. By Friday, the organization had made the following financial commitments: \$400,000 to the external forensic firm for the first thirty days. \$210,000 to legal counsel for incident response coordination, regulatory advising, and notifications. \$180,000 to the crisis communications firm. \$95,000 in accelerated payroll for overtime across IT and clinical informatics staff. \$340,000 in temporary manual process costs — paper records, contract transcriptionists, additional clerical staff — to maintain operations while systems were being restored. \$2.1 million in ransom payment, approved by the board at 11 PM Thursday, four days into the event, to begin the decryption process. Total committed in four days: \$3.325 million. Insurance coverage status: under investigation. Recovery timeline estimate: thirty-five to sixty days.*

The financial profile of a significant cyber event is one of the least understood aspects of organizational cyber risk. Most executives have a vague sense that cyber events are expensive. They are not prepared for the specific, relentless, multi-front nature of the financial exposure — the simultaneous demands on cash that occur before any insurance recovery, and the insurance recovery that may never come.

### The Immediate Cash Demands

The costs of a significant cyber event begin accruing in hours, not days. The external incident response firm — if you have a retainer, which you should — begins billing immediately at engagement rates that are typically \$350 to \$600 per hour for experienced responders, with multiple responders engaged simultaneously. In the first week of a major event, IR firm costs alone frequently exceed \$200,000.

Legal costs begin in parallel. An experienced incident response attorney commands \$500 to \$900 per hour. During the first week of a significant

breach, with regulatory notifications to draft, insurance coordination to manage, and forensic oversight to establish, legal billing can exceed \$150,000 before the second week begins.

Business interruption costs are immediate and often not intuitive. In healthcare, the cost of operating in downtime mode — reverting to paper processes, deploying additional staff, diverting patients, rescheduling elective procedures — is typically \$1,000 to \$3,000 per bed per day for hospitals. For a 300-bed hospital with a thirty-day downtime, business interruption costs can reach \$27 to \$90 million before considering the revenue loss from permanently displaced patients.

Ransom payments, when made, are typically the largest single transaction — but they are often not the largest financial cost. The decryption process following ransom payment is slow. Systems encrypted by modern ransomware variants typically require two to four weeks for full decryption even after the decryption keys are obtained. Organizations that pay ransom and expect to be back to normal operations in forty-eight hours are routinely disappointed.

The crucial point about all of these costs is that they are cash costs — they must be paid regardless of the insurance outcome. Many organizations discover too late that their cyber insurance policy, even a genuinely paying one, covers reimbursement of covered costs after investigation — which takes months. The cash demands of the first sixty days of recovery must be met from operating cash flow, credit facilities, and whatever financial flexibility the organization has built. Organizations with thin margins and limited credit face a solvency crisis before the insurance claim is even submitted.

## **The Long-Tail Costs**

The costs that don't arrive in the first week are often the ones that determine whether the organization survives. Regulatory penalty exposure for a healthcare organization with a significant PHI breach can reach \$100 per record per violation under HIPAA, with penalties up to \$1.9 million per violation category. For an organization that has exposed 500,000 patient records — a scenario that is not extreme — the regulatory exposure is measured in tens of millions of dollars.

Class action litigation risk following a significant breach is increasingly predictable. Plaintiffs' firms monitor breach notification filings and initiate

class actions quickly. The settlement costs of healthcare data breach class actions have ranged from \$2 million to \$115 million, with the median for significant healthcare breaches settling in the \$10 to \$30 million range. These settlements typically arrive two to three years after the breach — at a time when the organization may still be managing recovery costs from the event itself.

Reputational damage and customer attrition are the costs that don't appear on the financial statements but are often the most determinative of long-term survival. In healthcare, patients who receive breach notification letters do change providers. In financial services, account closures following breach notification are measurable. The revenue impact of patient or customer attrition in the years following a breach is difficult to quantify precisely, but it is real and often significant.

**31.3%**

of breached healthcare organizations close permanently  
within 18 months

This figure comes from Cybantage's analysis of 1,478 healthcare organizations that experienced a significant data breach between 2018 and 2024. It includes organizations that formally closed, merged under financial distress, surrendered their operating licenses, or were acquired under conditions that amounted to organizational discontinuity.

It is not primarily a technology failure rate. It is a financial architecture failure rate. The organizations that close are not overwhelmingly the ones with the worst technology. They are the ones that encountered the full financial profile of a significant breach without the financial architecture — insurance, reserves, credit, governance — to manage it.

## The Survivability Calculation

Here is how to think about your own organization's financial survivability in a major cyber event. This is not a precise actuarial model — it is a planning exercise. But it is the exercise that most organizations have never done.

Start with the likely cost profile. For your organization's size, sector, and data volume, estimate: what would incident response cost in the first sixty days? What would business interruption cost per day, and for how many days? What is your PHI or PII exposure volume, and what regulatory penalty range does that create? What is a plausible class action settlement range?

Then ask: what financial resources are available to meet those costs? What is in the operating cash reserve? What is the available credit facility? What would the insurance policy pay — not what does the policy say it pays, but what would it actually pay given your current attestation accuracy and exclusion exposure?

The gap between the likely cost profile and the available financial resources is your financial survivability gap. If that gap is zero or negative — if your available resources exceed a plausible cost scenario — you are in a financially survivable position. If the gap is positive — if a realistic cost scenario exceeds your available resources — you have an existential financial risk that preparation can address.

Most organizations that do this exercise honestly discover a gap. The purpose of discovering it now is that a gap in your planning model is solvable. A gap in your actual response is not.

## What Financial Survivability Preparation Looks Like

Financial survivability preparation has four components. The first is insurance adequacy — ensuring that the policy you have will pay for the events you are most likely to face, in amounts that actually address your cost profile. A \$5 million policy with a thirty-day recovery profile that costs \$8 million to manage is not adequate insurance. This is covered extensively in Chapter 16.

The second is cash reserve planning. Cyber event response requires significant upfront cash. Organizations should plan for a minimum of sixty to ninety days of response costs — using their own sector-appropriate estimates — to be

available from operating cash, credit lines, or emergency reserves without triggering a liquidity crisis.

The third is business continuity financial modeling. For organizations where business interruption is a primary cost driver — healthcare, financial services, retail — the financial model for downtime should be built and reviewed annually, with specific triggers for different recovery time scenarios. This model should inform the business continuity investment decisions, because the cost of adequate backup and recovery infrastructure is almost always lower than the cost of the interruption it prevents.

The fourth is regulatory penalty preparation. For organizations in sectors with significant breach penalty exposure — healthcare, financial services, critical infrastructure — the regulatory exposure should be quantified and included in the cyber insurance coverage analysis. Many organizations carry cyber insurance limits that would be exhausted entirely by the regulatory penalty exposure, leaving nothing for forensic costs, business interruption, or litigation.

#### BEFORE YOU CLOSE THIS CHAPTER

- 1.** Build a rough cyber event cost model for your organization: estimate IR costs, legal costs, business interruption per day, regulatory penalty exposure, and class action risk. The number you arrive at will be clarifying.
- 2.** Compare that cost model to your current insurance coverage limit — and then subtract whatever portion you believe the carrier might deny based on your attestation accuracy. Is there still adequate coverage?
- 3.** Identify your organization's available liquidity for a sixty-day emergency: cash, credit facilities, and any other available resources. Is that sufficient to fund a response while waiting for insurance reimbursement?
- 4.** Ask your CFO: what is the ransom decision framework? Who approves it, under what conditions, and with what carrier pre-authorization? This framework needs to exist before you need it.
- 5.** Review your business continuity plan with a financial lens: what does each recovery tier cost per day, and how does that interact with your available cash?

## CHAPTER 5

## The Thirty-One Percent

*She'd been the CEO for eleven years. She'd built the organization from a three-clinic operation to a regional health system with twelve facilities and 2,200 employees. She survived the 2008 financial crisis by being conservative. She survived the COVID-19 pandemic by moving fast. She believed — with reasonable evidence — that she was good at leading through crises. She was wrong about this one. Not because she was a bad leader. Because she was dealing with a category of crisis that rewards a specific kind of preparation she had never made. Fourteen months after the breach, the organization merged with a larger health system. The terms were not favorable. She was not offered a role in the combined entity.*

The 31.3 percent closure figure is real, it is documented, and it is worth understanding in full — not as a horror statistic, but as a diagnostic tool. Because the organizations that close are not random. They have specific characteristics. They made specific choices — or failed to make specific choices — that placed them in the closing category rather than the surviving one.

### What the Dataset Shows

The Cybantage Healthcare Breach Survivability analysis examined 1,478 healthcare organizations that experienced a significant data breach between 2018 and 2024. 'Significant' was defined as a breach affecting 500 or more individuals — the threshold triggering federal notification requirements. The analysis tracked each organization's operational status at six, twelve, and eighteen months post-breach.

At eighteen months: 31.3 percent of organizations in the dataset had experienced organizational discontinuity — formal closure, merger under financial distress, license surrender, or acquisition under terms that reflected financial distress rather than strategic choice. The closure rate was not evenly distributed:

- Organizations with annual revenue below \$50 million closed at rates approaching 48%.
- Organizations between \$50 million and \$200 million closed at rates around 28%.
- Organizations between \$200 million and \$500 million closed at rates around 18%.
- Organizations above \$500 million closed at rates below 12%.

The organizational scale correlation is important context, but it is not the full story. Scale correlates with both breach severity and survival because larger organizations have more data — and thus larger potential breaches — but also more resources. However, within each size band, the variation in survival rates is substantial. Smaller organizations with strong governance architecture survive at higher rates than their size cohort. Larger organizations with governance deficits close at higher rates than their size cohort. Scale provides resilience, but it doesn't determine survivability.

What does determine survivability? The analysis identified three governance characteristics that were present in the survivors and absent in the closures at rates that were statistically significant and practically meaningful.

## The Three Characteristics of Survivors

### Characteristic One: Pre-Designated Decision Authority

In 89 percent of organizations in the survival cohort, a single individual had been formally designated as the decision authority for cyber incidents — meaning there was a written document, reviewed by leadership, that identified who would make binding decisions in a cyber event. In only 23 percent of organizations in the closure cohort was this designation in place.

This is not a sophisticated governance requirement. It is a single sentence in a single document: 'In the event of a significant cyber incident, [Name], in the role of [Title], has final decision authority over all response actions.' But that sentence — and the organizational clarity it creates — is the difference between a response that is directed and one that is chaotic.

The organizations that close are overwhelmingly organizations where the first hour is spent arguing about who is in charge rather than acting on the response. That argument is settled before it begins when decision authority has been designated. It is never settled to everyone's satisfaction when it hasn't.

### **Characteristic Two: Insurance That Actually Paid**

This is stated carefully. The characteristic of survivors is not that they had cyber insurance — 87 percent of organizations in the dataset had some form of cyber insurance coverage. The characteristic of survivors is that their insurance claims were substantially paid.

In the survival cohort, 78 percent of filed claims were paid at 70 percent or more of the claimed amount. In the closure cohort, 61 percent of filed claims were denied in full or paid at less than 30 percent of the claimed amount. The difference in financial outcome is stark: organizations whose insurance paid had a financial backstop that allowed them to manage recovery costs without triggering a liquidity crisis. Organizations whose insurance was denied faced those same costs from operating resources that were already under stress.

The reason some organizations' insurance paid and others' didn't is the subject of Chapter 2 and Chapter 16. But the mechanism at the organizational level is clear: organizations whose insurance paid had accurate attestations, had addressed their exclusion exposure, and had maintained the governance documentation that supported their claim. That work was done before the event.

### **Characteristic Three: Legal Architecture Established Before the Event**

The third distinguishing characteristic is the presence of a pre-established legal framework for incident response. In the survival cohort, 74 percent of organizations had attorney-client privilege established for forensic work before the event occurred — meaning legal counsel had been engaged, an engagement letter was in place, and the forensic process was designed to be conducted under privilege direction. In the closure cohort, this was true in only 19 percent of cases.

The practical consequence of this gap is documented in the regulatory outcomes. Organizations in the closure cohort with unprotected forensic

findings faced regulatory penalties at rates 2.8 times higher than organizations in the survival cohort. The unprotected forensic findings became evidence in regulatory proceedings. The protected findings did not.

## What This Means for Your Organization

The three characteristics of survivors are not technology capabilities. They are governance decisions that cost essentially nothing to implement — a written authority designation, an honest insurance application with verified attestations, a legal engagement letter. The organizations that have them are not doing anything technically sophisticated. They are doing something organizationally deliberate.

The organizations that close are overwhelmingly organizations that relied on implicit governance — the assumption that people would figure out who's in charge when the time came, the assumption that the insurance would pay because they'd been paying premiums for years, the assumption that legal could sort out the forensic protection during the event. None of those assumptions survived contact with an actual event.

The purpose of the first five chapters of this book is to establish, with sufficient specificity and force, what you are preparing against. You are preparing against an event that will, without preparation, produce: a governance vacuum that costs you in legal exposure and response effectiveness; an insurance denial that leaves you funding recovery from cash you don't have; regulatory proceedings that use your own forensic work as evidence against you; and financial pressure that, for a significant proportion of organizations in your situation, leads to organizational closure.

The remaining chapters tell you exactly what to build to ensure you are not in that proportion.

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**You are not preparing for the attack. You are preparing for what follows the attack. Those are not the same preparation.**

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**BEFORE YOU CLOSE THIS CHAPTER**

- 1.** Write down, right now, who would be in charge if your organization experienced a significant cyber event tomorrow morning. If you hesitated, that hesitation is your answer about your current governance posture.
- 2.** Identify the three characteristics of survivors for your organization: decision authority designation (written and reviewed), insurance that will pay (attestation-verified), legal architecture (privilege established). Score yourself honestly on each.
- 3.** Share this chapter with your General Counsel, CFO, and CISO. The conversation it generates will be more valuable than most security assessments.
- 4.** Review your organization's size band and the closure rate data. If you are in the sub-\$50 million revenue category, you are in the cohort with the highest closure rates. The urgency of this preparation scales accordingly.
- 5.** Set a ninety-day objective: have all three survivor characteristics in place. They are achievable in that timeframe for any organization that commits to them.

**PART TWO**

# The Preparation Failures

Why the organizations that thought they were protected, weren't

## CHAPTER 6

# Your Compliance Certificate Won't Save You

*The audit report was sitting on the conference room table when I arrived. Forty-seven pages. 'HIPAA Compliance Assessment – Satisfactory.' The organization had passed every control. The auditor's firm was reputable. The work had been thorough. The CEO was proud of it and referred to it twice in our first meeting. I didn't tell him yet what I was about to find in the security environment. I just asked to see the cyber insurance application. Two hours later, I had the answer: the 'satisfactory' HIPAA audit and the insurance application they had signed six months later described entirely different security environments. Both could not be accurate. One of them was not.*

The compliance audit and the cyber insurance claim denial seem, at first glance, like two separate problems. The audit says your controls are good. The insurer says your controls were not what you described. How can both be true?

The answer is that compliance frameworks and insurance coverage criteria are designed to answer different questions. HIPAA asks: does the organization have a process for protecting patient data? The insurance carrier asks: will this organization's controls prevent or contain a loss event, and did they accurately describe those controls when they applied for coverage? These are related questions, but they are not the same question. An organization can give a correct answer to one and an incorrect answer to the other.

## What Compliance Frameworks Actually Measure

Compliance frameworks measure whether an organization has a defined process, a documented policy, and evidence of implementation for a specified set of controls. HIPAA requires a security risk analysis, administrative safeguards, physical safeguards, and technical safeguards. An organization achieves HIPAA compliance by demonstrating that it has conducted a risk

analysis, has relevant policies in place, and has implemented required controls.

Notice what is not measured: whether the controls are working well. Whether the risk analysis reflects the current threat landscape. Whether the policies are actually followed in practice. Whether the technical controls cover the full scope of the organization's data environment. Compliance frameworks measure presence, not performance. They measure design, not execution. They measure a point in time, not a current state.

Consider the patch management control. HIPAA requires that covered entities apply security patches. An organization demonstrates compliance by showing that it has a patch management policy, that patches were applied to its systems in the scope of the audit, and that there is evidence of the patching process. What the HIPAA auditor does not examine: whether patches were applied to systems outside the formal scope of the audit, whether the patch SLA in the policy is actually being met in practice, whether any systems have been granted exceptions to the patching requirement, whether the exceptions are documented with formal risk acceptance, and whether the SLA that was attested to in the insurance application matches the actual performance data from the patch management platform.

The same gap exists in every domain. MFA is a HIPAA technical safeguard requirement. Demonstrating HIPAA compliance requires evidence of MFA implementation. What it does not require is a complete inventory of every account with MFA exceptions, every legacy system without MFA coverage, every service account that predates MFA deployment. The compliance audit finds the 80 percent that is well-covered. The forensic investigation finds the 20 percent that isn't — which is also the 20 percent that the threat actor used.

## **The Four Ways Compliance Creates False Confidence**

The compliance-survival illusion operates through four specific mechanisms, each of which can independently cause an organization to overestimate its survivability posture.

The first mechanism is scope limitation. Every compliance audit has a defined scope — the systems, processes, and data that were examined. Organizations that operate in complex, distributed environments frequently have significant infrastructure outside the compliance audit scope. Cloud workloads added

after the last audit. Partner-facing systems that are technically outside the regulatory perimeter. Development and test environments that are excluded from compliance scope by design but are not excluded from the threat actor's path of least resistance.

The second mechanism is the point-in-time problem. A compliance audit produces a finding about what was true on a specific date. It does not produce a finding about what is true six months later. Organizations that have passed a compliance audit are often more confident about their security posture than organizations that haven't — because they have a recent affirmation that things were okay. But the audit didn't tell them things are still okay today. Staff turnover changes the control environment. New systems create new gaps. Vendors change. Policies drift from practice. The compliance certificate doesn't expire, but the security environment does.

The third mechanism is minimum-standard measurement. Compliance frameworks establish minimum standards of care. Meeting the minimum doesn't mean the organization has implemented best practices — it means the organization isn't below the floor. Insurance carriers and courts do not evaluate based on whether the floor was met. They evaluate based on whether the organization exercised reasonable care given the nature of the data it held and the threats it faced. A healthcare organization in 2025 that implements only the controls required for HIPAA compliance has not necessarily exercised reasonable care given the current ransomware threat landscape.

The fourth mechanism is the attestation cascade. Compliance findings become authoritative inputs into other documents. The HIPAA compliance report says MFA is implemented. That finding flows into the insurance application attestation. The insurance application attestation flows into the SEC risk factor disclosure. The risk factor disclosure flows into the board presentation. By the time the original compliance finding has been cited in four subsequent documents, it has acquired an authority it didn't earn — and the inaccuracies it contained have been amplified across the organization's official record.

## **The Right Use of Compliance Frameworks**

None of this means compliance frameworks are useless. They are genuinely valuable. HIPAA creates a structured set of requirements that, if actually implemented — not just documented — substantially improve an organization's security posture. PCI-DSS has significantly raised the security

standard for cardholder data environments. CMMC requirements are meaningfully improving defense contractor security. The frameworks are valuable.

The error is treating compliance as a proxy for survivability. Compliance is a floor. Survivability is a standard above the floor — and the gap between them is measurable and closable. The Cyber Insurance Survivability Index, described in detail in Chapter 8, is specifically designed to measure that gap. It asks the questions the insurance carrier will ask — not the questions the compliance auditor asked — and it produces findings that translate directly into coverage risk.

The most productive framing is this: use compliance frameworks to build the foundation. Then use a survivability assessment to build the floor above the foundation. Then use the insurance relationship to verify that the floor is where it needs to be. Those are three different exercises, and doing one of them doesn't substitute for the others.

#### BEFORE YOU CLOSE THIS CHAPTER

- 1.** Pull your most recent compliance audit report. Read the scope section. Write down what was explicitly out of scope. Ask your CISO what percentage of your actual data environment is in that out-of-scope category.
- 2.** Identify the three technical controls most prominently attested in your insurance application: MFA, backup testing, patch SLA. For each, pull the actual performance data — not the policy, not the belief, the data. Confirm or correct the attestation.
- 3.** Ask your auditor at the next audit: what is the gap between a satisfactory compliance finding and what an insurance carrier would require for a clean claim? If they can't answer, that's informative.
- 4.** Build a list of every system and environment in your organization that is outside the scope of your compliance audit. That is your unassessed risk surface. Assess it.
- 5.** Stop using your compliance certificate as a signal of security confidence. Start treating it as evidence that you're above the floor — and build from there.

## CHAPTER 7

## The Policy That Won't Pay

*I have sat across from CFOs and CEOs who have looked me in the eye and said, with complete sincerity: 'We have a comprehensive cyber insurance policy. We're covered.' And I have had to tell them, with equally complete sincerity, that they are not. Not because their policy doesn't exist. Not because they didn't pay their premium. But because the policy they paid for — if the event that is most likely to affect them were to occur — would almost certainly be denied. The hardest part of this conversation is that they often don't believe me until I show them the policy, the application, and the gap between them.*

This chapter is about how to find out, specifically and definitively, whether your cyber insurance policy will pay. Not whether it should pay — whether it will pay, given the actual state of your organization's controls and the actual language of your policy. This is different work from insurance renewal. It is more uncomfortable. And it is the work that determines whether you are actually protected.

### The Attestation Audit

The starting point for any honest assessment of your policy's payability is a comparison between the attestations you made in the policy application and the actual state of your controls today. This comparison should be done methodically, attestation by attestation, with actual evidence — not belief.

Pull the application or supplemental questionnaire from your most recent policy renewal. If your broker or carrier can't produce this document, that is its own significant problem. Read every question that was answered. For each answer, ask three questions: Is this still accurate? Can we prove it is accurate with documentation? If a forensic investigator pulled logs, configurations, and system data today, would the evidence support this answer?

The questions most frequently associated with attestation inaccuracy are these:

'Is multi-factor authentication deployed for all users / all remote access / all privileged accounts?' The typical answer is 'Yes.' The typical reality is that MFA is deployed for most users, with a set of exceptions that has grown over time and is not actively tracked. Service accounts, legacy systems, contractor accounts, and accounts that were created during a period before MFA was required typically represent 15 to 40 percent of the access surface in organizations that believe they have enterprise-wide MFA. The word 'all' in this question is the word that creates the claim problem.

'Are backups tested and confirmed recoverable on a regular basis?' The typical answer is 'Yes.' The typical reality is that backups are verified — meaning someone confirms that the backup process completed — but a full restoration test, in which data is actually restored from backup to a test environment and confirmed functional, has not been performed in one to three years. Verification and restoration testing are not the same thing. Insurance carriers know this. When they ask whether backups are 'tested and confirmed recoverable,' they mean restoration tested.

'Do you have an incident response plan that is reviewed and tested annually?' The typical answer is 'Yes.' The typical reality is that the incident response plan exists, was updated at some point, and may have been the subject of a tabletop exercise that identified significant gaps — gaps that were noted but not resolved. The plan is 'tested' in the sense that someone ran an exercise. Whether the test findings were remediated is a different question.

'Is multi-factor authentication required for all third-party vendor access to your environment?' This question trips up the largest number of organizations. Third-party vendor access often predates MFA requirements and was never migrated. The answer is often confidently 'Yes' because MFA is required in policy. The reality is often that a dozen vendor accounts created before the policy requirement exist in the environment without MFA.

## **The Domain 10 Problem — The Exclusions Nobody Explained**

Beyond attestation accuracy, the second major source of policy failure is what I call the Domain 10 problem — the cluster of policy exclusions that are increasingly standard in cyber insurance but that most policyholders have never seriously evaluated against their own risk profile.

When you bought your policy, your broker probably described it as 'comprehensive coverage for cyber events.' What they may not have walked you through in detail are the provisions that exclude specific categories of events from that coverage. These exclusions are not obscure fine print. They are increasingly prominent features of cyber policy language. And for many organizations, they represent the scenarios that are most likely to occur.

**The nation-state exclusion.** Most standard cyber policies contain language excluding losses caused by or attributed to a nation-state or nation-state-sponsored threat actor. The language varies: some policies exclude 'cyber operations of a sovereign nation,' others exclude 'hostile cyber activity carried out in connection with armed conflict.' The key challenge is attribution: establishing definitively that an attack was nation-state-sponsored is technically difficult, and the exclusion doesn't typically require proof beyond reasonable doubt. What this means practically: if your organization operates in a sector that nation-state actors routinely target — healthcare, financial services, critical infrastructure, defense, energy — and your policy contains a nation-state exclusion that you have not specifically negotiated around, you may be carrying an exclusion that applies to a significant proportion of your realistic threat scenarios.

**The third-party origination exclusion.** Supply chain attacks — where the initial compromise occurs at a vendor, service provider, or technology partner rather than directly at your organization — have become one of the primary attack vectors. SolarWinds, Kaseya, MOVEit, Log4j exploitation across vendor products — the attacks that have produced the largest organizational impacts in recent years have frequently originated through third-party infrastructure. Many standard cyber policies contain exclusions or sub-limits for losses that originate through a third party rather than directly. If your managed service provider's tools are used to deploy ransomware across your environment, the origination of the event may trigger this exclusion.

**The systemic event exclusion.** When an attack affects thousands of organizations simultaneously — as NotPetya did in 2017, causing an estimated \$10 billion in damages across multiple sectors simultaneously — insurance carriers face catastrophic aggregate exposure. The systemic event exclusion addresses this by limiting or excluding coverage for events that affect a large number of policyholders simultaneously. For organizations with concentrated cloud dependencies — those running 70 to 80 percent of their workloads on a single cloud platform — a significant outage of that platform is a systemic event scenario.

## The Coverage Conversation Your Broker Hasn't Had With You

The reason most policyholders have inadequate cyber coverage is not that good cyber coverage is unavailable. It is that the coverage conversation is typically driven by premium and limits rather than by specific risk alignment. The broker's incentive is to place coverage that the client will buy. The client's incentive is to pay a reasonable premium for a satisfying coverage amount. Neither party's incentive naturally drives a detailed examination of exclusion exposure against the organization's specific threat profile.

The conversation that needs to happen — the one most organizations have never had with their broker — is this: 'Given what we know about our organization's specific risk profile, what are the scenarios in which our current policy would not respond? What are the exclusions that are most likely to be triggered? What would it take to address those, and what would it cost?'

This conversation requires preparation. Before you have it, you need to know your own threat profile with enough specificity to evaluate it against policy language. You need to know your sector's threat landscape, your vendor concentration, your cloud architecture, and your compliance posture relative to insurance criteria. The Cyber Insurance Survivability Index assessment, described in Chapter 8, produces exactly the information you need to have this conversation with your broker productively.

Some of the coverage gaps that the conversation reveals will be addressable through endorsements — additional coverage provisions that can be negotiated into the policy. Nation-state coverage endorsements exist and are available from carriers willing to take that risk, at a price. Third-party origination sub-limits can often be negotiated up. Systemic event exclusions can sometimes be modified with appropriate risk mitigation documentation.

Some gaps cannot be covered, at any price, in the current market. Understanding which risks are insurable and which are not is information you need. It doesn't change your obligation to manage those risks — it changes how you manage them, and it changes the financial contingency planning you need to do for the scenarios that insurance won't cover.

## What a Policy That Will Pay Looks Like

A cyber insurance policy that will pay when you need it has four characteristics: accurate attestations, addressed exclusions, appropriate limits, and maintained governance documentation.

Accurate attestations means that every technical representation in the policy application can be supported by actual evidence of execution — logs, configurations, test results, vendor invoices. Not policies, not beliefs — evidence. If you cannot produce the evidence today, the attestation is at risk.

Addressed exclusions means that you have reviewed every exclusion in the policy against your specific risk profile, determined which exclusions represent real risks for your organization, and either negotiated endorsements to address them or made an informed decision to accept the uninsured risk.

Appropriate limits means that your coverage limits are calibrated to your actual cost profile — including IR costs, business interruption costs, regulatory penalties, and litigation risk — not just to a round number that seemed comfortable at renewal.

Maintained governance documentation means that you have the records — CISI assessment results, LDI governance architecture, board oversight minutes, attestation accuracy reviews — to demonstrate to a carrier investigating your claim that you maintained an active, reasonable cyber governance program. This documentation doesn't just help your claim. It is often determinative of whether the carrier negotiates a claim or fights it.

### BEFORE YOU CLOSE THIS CHAPTER

1. Call your broker this week and request a meeting specifically about exclusion exposure — not premium, not limits, exclusions. Bring your organization's threat profile: sector, vendor relationships, cloud concentration.
2. Read the exclusion section of your policy, identify the nation-state, third-party origination, and systemic event provisions, and determine which apply to your risk profile.
3. Conduct the attestation audit described in this chapter. For the top five technical attestations in your policy, pull actual evidence of execution. Identify any gaps between attestation and evidence.

- 4.** Ask your broker: what would a nation-state coverage endorsement cost for our organization? What would increasing our third-party origination sub-limit cost? Build the business case.
- 5.** Calculate whether your current coverage limits adequately address your realistic cost profile. Use the financial model you built in Chapter 4.

## CHAPTER 8

## Nobody's In Charge

*There were seven people in the room: the CEO, the CFO, the CISO, the General Counsel, the Chief Medical Officer, the Chief Nursing Officer, and an external security consultant the CISO had called in. Everyone in the room was competent. Everyone was trying to help. Nobody was in charge. I know this because I watched two separate decisions get made simultaneously in that room — one by the CEO, who told the external consultant to engage a forensic firm, and one by the CISO, who was already on the phone with a different forensic firm. Both engagements were authorized. Both were billed. The organizations' privilege positions on the two forensic investigations were different, because the engagements had been structured differently by two different people acting independently.*

The governance vacuum is the most underappreciated risk in organizational cyber preparedness. Organizations invest heavily in technology controls — firewalls, endpoint detection, backups, logging. They invest modestly in governance architecture — written decision authority, practiced response, legal framework. The asymmetry is backwards. Technology controls slow the attack. Governance architecture determines whether the organization survives its consequences.

### How the Vacuum Forms

Normal organizational governance works through a combination of formal authority (the org chart) and informal authority (the person who actually makes decisions). This combination functions adequately in steady state because most decisions are not time-critical, most decisions have clear ownership, and most decisions don't require simultaneous coordinated action across multiple functions.

A cyber event violates all three of those conditions. Decisions are extremely time-critical — the window for establishing privilege, notifying the carrier, and preserving forensic evidence is measured in hours. Decision ownership is

unclear — is the CISO in charge of the response, or the CEO? Is this a legal problem (General Counsel), an operations problem (COO), or a security problem (CISO)? And the decisions require simultaneous coordinated action across legal, IT, communications, finance, and operations — simultaneously, not sequentially.

The vacuum forms when the event begins and the organization discovers that its normal governance structures don't resolve these questions. The CEO hasn't thought about who is in charge of a cyber event because the question has never been asked. The CISO assumes they lead technical decisions but is uncertain about their authority to commit spending. The General Counsel believes legal issues give them authority over forensics but hasn't communicated that. The CFO isn't sure whether business interruption decisions are operational or financial.

In the vacuum, everyone acts on their best judgment. This produces a response that is technically competent in many dimensions and organizationally incoherent in all of them. Multiple simultaneous engagements without coordinated direction. External communications from multiple sources with inconsistent characterizations. Decisions made by people who lack authority to make them. Documentation that reflects chaos rather than governance. And legal exposure that grows with every uncoordinated action.

## **The Three Clarity Targets**

Eliminating the governance vacuum requires designating three roles before the event occurs. These are not new positions — they are designations of existing people into specific decision-making authorities that are defined in advance. I call them the Three Clarity Targets because the purpose of designating them is to create organizational clarity exactly when the instinct to improvise is strongest.

The first Clarity Target is the Incident Decision Authority. This is the single individual with final authority to make binding decisions during an active cyber event. Not final authority on technical decisions — final authority on all decisions. Spending authority. Communication decisions. Ransom payment decisions. Resource deployment decisions. The IDA is the person who settles disagreements, not by rank or volume, but by designation. Ideally this is the CEO, but some organizations designate the General Counsel or COO in

recognition of the legal and operational nature of the response. The designation itself matters more than the specific choice. Write it down. Review it annually. Make sure every C-suite member knows who it is.

The second Clarity Target is the Risk Acceptance Owner. This is the individual or body with formal authority to accept residual risk on behalf of the organization. In practice, this means: who can formally say 'we know about this problem and we have decided not to remediate it at this time, and that decision is documented'? Without a formal risk acceptance owner, every deferred remediation is an undocumented governance decision — which is exactly the kind of decision that looks like negligence in a lawsuit. With a formal risk acceptance owner, every deferred remediation is a documented decision with an authorized signature. The legal difference is significant.

The third Clarity Target is the External Communications Authority. This is the designated individual with sole authorization to speak to external parties about a cyber event or security issue. One person. One voice. One channel. During a cyber event, unauthorized external communications — from employees, executives, or board members — are one of the primary sources of narrative inconsistency, legal admissions, and regulatory trigger events. The threat actor monitors your external communications. Your regulator monitors your external communications. Your plaintiff's attorney will read your external communications. They all need to say the same thing, authorized by the same person.

## **Building the Decision Authority Matrix**

The governance architecture is documented in a Cyber Incident Decision Authority Matrix — a single-page document that answers, for the specific scenarios most likely to affect your organization, who has authority to make which decisions. This document should be approved by the board, reviewed annually, and distributed to every member of the C-suite and the board.

The matrix answers specific questions: Who authorizes spending above \$500,000 for incident response? Who authorizes ransom negotiation to begin? Who authorizes ransom payment? Who authorizes external legal counsel engagement? Who approves regulatory notification language? Who approves any external communication about the event? Who manages the relationship with the insurance carrier during a claim? Who communicates with the board, and how often?

These questions feel bureaucratic when you ask them in a planning meeting. They feel essential when you're in hour eight of an active ransomware event and the CFO and CISO are staring at each other waiting for the other person to authorize the forensic firm engagement.

Building the matrix takes one meeting — two to three hours with the right people in the room. The General Counsel should facilitate it, because the questions involve legal considerations. The CEO, CFO, CISO, and any other C-suite members with incident roles should be present. The output is a document. The document needs to be approved at the board level, because several of the authority designations — ransom payment authorization, emergency spending authority — may exceed the CEO's normal delegated authority and require explicit board authorization.

## **Testing the Architecture Before You Need It**

A governance architecture that exists only on paper is worth slightly more than no governance architecture, but not much more. The architecture has to be tested — run through a realistic scenario under realistic time pressure — to confirm that it actually works, that the designated individuals understand their roles, and that the gaps in the design can be found and corrected before the event.

The mechanism for testing is the tabletop exercise. A well-designed tabletop exercise presents the leadership team with a realistic cyber scenario and walks them through the first twenty-four to forty-eight hours of response, forcing the governance architecture to be used. Who makes each decision? How are decisions communicated? What happens when two executives disagree? When does legal get involved? What gets documented?

The most valuable tabletop exercises I've run are not the ones where everything goes smoothly. They're the ones where the scenario reveals that the IDA designation isn't known by the whole team, or that the external communications protocol breaks down because nobody agreed on what level of disclosure requires legal review, or that the ransom decision framework doesn't account for carrier authorization requirements. Those revelations are gifts. They're the failures that happen in a safe context rather than in a real one.

Every organization should run a tabletop exercise at least once a year, with full C-suite and legal participation. The exercise should use a scenario specific to your sector and threat profile — not a generic ransomware story, but a scenario that reflects the specific characteristics of your environment and the specific threat actors that target your sector. The scenarios in the appendix provide starting points.

#### BEFORE YOU CLOSE THIS CHAPTER

- 1.** Write down your three Clarity Targets today: who is the Incident Decision Authority, the Risk Acceptance Owner, and the External Communications Authority for a cyber event? If any answer is unclear, that's your first governance gap.
- 2.** Schedule one meeting — two to three hours — to build your Cyber Incident Decision Authority Matrix. Your General Counsel should facilitate. The output is a single document that goes to the board for approval.
- 3.** Schedule a tabletop exercise within the next ninety days. Use a scenario specific to your sector. Require C-suite and legal participation. Debrief the gaps in writing.
- 4.** Communicate the three Clarity Targets to your full C-suite and board. Everyone needs to know these answers before they need them, not during the event when there's no time to explain.
- 5.** Build the ransom decision framework as a standalone document: under what conditions would the organization consider ransom payment, who authorizes it, what carrier pre-authorization is required, what legal review is required. Approve it at the board level.

## What You Believe About Your Security That Isn't True

*The CISO had been confident going into the assessment. He'd been with the organization for four years. He knew the environment. He knew where the gaps were. He'd been telling leadership about the gaps for two years and had been given about 60 percent of what he asked for to address them. He expected the assessment to confirm his own mental model of the risk: acceptable in most areas, with known gaps in a few. What the assessment found, instead, were three significant gaps he didn't know about — not because he was incompetent, but because the environment had changed around him in ways that routine monitoring doesn't catch. He was right about the gaps he knew about. He was wrong about how well he understood the gaps he didn't.*

The assumption problem is distinct from ignorance. It is not that organizations don't think about their security posture — they do. The CISO thinks about it daily. The problem is that organizational security beliefs are formed through processes that systematically produce overconfidence.

You believe your controls are working because you haven't had a breach. You believe your MFA coverage is complete because you implemented MFA enterprise-wide and haven't been told about exceptions. You believe your patches are current because your patch management platform reports a high completion rate. These beliefs are based on evidence. The problem is that the evidence is incomplete, and the gaps in the evidence are exactly the gaps that matter.

### The Three Layers of Assumption

Understanding the assumption problem requires distinguishing between three categories of organizational belief that together constitute an organization's security self-assessment.

The first layer is technology assumptions — beliefs about what the technical controls are doing. MFA is deployed. EDR is running on our endpoints. Our backups complete every night. Our patches are applied within SLA. These beliefs are typically grounded in real data: the MFA platform reports high adoption, the EDR console shows agent coverage, the backup job status shows successful completion, the patch management report shows high compliance rates. The beliefs are not fabricated. They are derived from real data. The problem is that the data is incomplete in specific, systematic ways.

Patch management platform data, for example, reports on the devices that are enrolled in the platform. It does not report on devices that are not enrolled. In most organizations, 10 to 25 percent of the actual endpoint population is not enrolled in the patch management platform — because it was missed during rollout, because it's a personal device used for work access, because it's a OT/IoT device that the platform doesn't cover, because it was added after the last enrollment sweep. The patch management data looks excellent. The actual environment is patching 75 to 90 percent of the attack surface.

The second layer is process assumptions — beliefs about what the governance and operational processes are achieving. 'We do quarterly access reviews.' 'We test our patches before deploying.' 'We conduct annual security awareness training.' These beliefs describe processes that exist in formal documentation. The question that organizations rarely ask is: are those processes actually being executed as designed, at the required frequency, with the defined evidence of completion?

Access reviews are a good example. Most organizations with formal access review requirements conduct them. The review is completed, the form is signed, the evidence is filed. What the evidence doesn't capture: did the reviewer actually look at each account and make a deliberate determination, or did they batch-approve because it was the fifteenth access review they'd done this quarter? Were the high-privilege accounts — the ones with domain administrator access, the service accounts with escalated permissions — reviewed with appropriate scrutiny, or were they included in a bulk review? Was access actually revoked for the accounts flagged as stale, or were they flagged, noted, and left because the deprovisioning process is manual and time-consuming?

The third layer is governance assumptions — the highest-stakes category. 'The board is appropriately overseeing cyber risk.' 'Our executives understand their personal exposure.' 'We have adequate privilege protection for forensic work.'

These assumptions determine whether the organization can defend its governance posture in a regulatory proceeding or lawsuit. And they are almost never tested until an event forces them to be.

The most dangerous governance assumption is the one that underlies everything else: 'We'll figure it out when it happens.' This assumption drives the decision to defer the tabletop exercise, to skip the attorney engagement for forensic privilege, to leave the decision authority matrix unwritten. It is the assumption that tells an organization it doesn't need to prepare because it's capable of improvising. Organizations that have experienced a significant cyber event know how wrong this assumption is. Organizations that haven't experienced one yet don't know yet how wrong they are.

## **How the Assessment Process Reveals What You Don't Know**

The value of a rigorous security assessment — specifically an assessment oriented toward insurance coverage adequacy rather than compliance — is that it systematically tests organizational assumptions with evidence. Not with what the organization believes, not with what the policies say, but with what the system data, logs, configurations, and process records actually show.

The MFA assumption gets tested by pulling the complete directory of user accounts, service accounts, and vendor accounts from the identity provider — not the MFA platform, which only shows enrolled accounts. The comparison between the full directory and the MFA-enrolled population reveals the gap that the MFA platform's high-adoption rate conceals.

The patch management assumption gets tested by pulling vulnerability scanner data and correlating it with patch management records — revealing the devices that are out of scope for patching, the exceptions that have accumulated, and the actual SLA performance as calculated from the date vulnerabilities were identified to the date they were remediated.

The access review assumption gets tested by pulling the access review records and the identity lifecycle records simultaneously — checking whether accounts that were flagged as stale in access reviews were actually deprovisioned, whether the review frequency matches the stated quarterly requirement, and whether the review documentation shows genuine examination or batch approval.

The governance assumption gets tested by asking for the documents that should exist if the assumptions are accurate: the board meeting minutes that reflect cyber risk discussion, the formal risk acceptance decisions for known findings that were deferred, the legal engagement letter for forensic privilege, the tabletop exercise record with debrief findings. Organizations with accurate governance assumptions can produce these documents. Organizations with inaccurate governance assumptions cannot.

## The Accuracy Gap

In a typical CISI assessment, the gap between an organization's self-assessed security posture and the evidence-based assessment finding is fifteen to twenty-five CISI points in either direction — but it is almost always in the direction of overconfidence. Organizations consistently rate themselves higher than the evidence supports.

This is not a character flaw. It is the predictable result of measuring security posture with incomplete information. The CISO who tells you MFA is deployed enterprise-wide is accurately reporting what the MFA platform shows. The CISO who tells you that patching is within SLA is accurately reporting what the patch management platform shows. The inaccuracy is not in the representation — it is in the evidence base for the representation.

The purpose of the CISI assessment is to replace that incomplete evidence base with a complete one. This is necessarily uncomfortable. Almost every organization that completes a rigorous CISI assessment discovers gaps they didn't know about. Some of those gaps are minor. Some of them are the specific conditions that produce insurance claim denial. The discomfort of discovering them is vastly preferable to the consequence of discovering them at claim time.

### BEFORE YOU CLOSE THIS CHAPTER

1. Ask your CISO to produce the evidence for the three most important technical attestations in your insurance application. Not the policy, not a belief — the actual system data. Review it together.
2. Pull the complete account directory from your identity provider and compare it to your MFA enrollment data. Identify the accounts in the directory that are not in the MFA enrollment. This is your MFA gap.

- 3.** For the last three access reviews conducted, pull both the access review sign-off and the identity lifecycle records for accounts that were flagged. Did the flagged accounts actually get deprovisioned?
- 4.** For the three most significant security findings from the past two years that were deferred or not fully remediated, confirm that there is a formal, signed risk acceptance decision. If not, create one retroactively.
- 5.** Commission an evidence-based CISI assessment. Not a questionnaire or a self-assessment — a forensic evidence review that tests your assumptions with system data. Budget sixty to ninety days and \$40,000 to \$120,000 depending on organizational size.

**PART THREE**

# The Accelerants

AI adoption and the exposure most organizations have not evaluated

## The Business Acceleration Trap

*The board conversation about AI is a growth conversation. The breach investigation is an exposure conversation. Most organizations have never connected the two.*

*Every executive team in a regulated organization is having the same conversation about AI. It is framed as a competitive question: how quickly are we moving, how much efficiency are we capturing, where are our peers, what are we missing? AI is accelerating sales cycles, compressing contract turnaround, improving proposal quality, generating analytical summaries that would have taken analysts two days, enabling executives to turn raw internal material into board-ready language before the next meeting ends. These are real benefits. They are being realized at scale across every sector this book addresses.*

That is not what this chapter is about.

This chapter is about what happens to an organization's financial exposure, insurance posture, governance architecture, and survivability position when AI is adopted as a business accelerator without a governance architecture that keeps pace. Because when a serious incident occurs — and the incident will occur — AI does not appear as an innovation story. It appears as an exposure story.

It expands the number of systems involved. It expands the amount of information in motion. It expands the number of dependencies the organization does not fully understand. It expands the volume of records that must be examined, and the volume of records that existed without anyone knowing they needed to be tracked. And it expands the number of representations — to insurers, to regulators, to auditors, to the board — that may not hold up when those representations are examined against the forensic record of what the organization's AI-enabled environment actually looked like.

The survivability question is not whether AI can help the business move faster. It can, and in most organizations it already is. The survivability

question is whether the organization moved faster than its governance, its evidence discipline, its legal structure, its insurance posture, and its executive oversight were designed to support.

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## **The most dangerous phrase in modern business is: We are just using AI to move faster.**

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That phrase makes AI sound limited and contained. What often sits beneath it is a dependency chain the organization has not fully mapped: cloud identity infrastructure, SaaS platform permissions, embedded copilot functions, connector frameworks, synchronized repositories, browser extensions, shared workspaces, third-party APIs, and data pipelines reaching into business systems that were never designed for this level of interconnection. The business experiences this as convenience. The incident reveals it as architecture. And architecture — as this entire book has argued — is what determines financial survivability.

The rest of this chapter, and the three that follow, examine the specific ways AI business adoption creates new exposure: in the post-incident investigation, in the insurance coverage position, in the legal and regulatory posture, and in the personal liability of the executives who made, approved, or failed to govern the AI adoption decisions their organizations were making.

### **BEFORE YOU CLOSE THIS CHAPTER**

- 1.** Commission an AI governance inventory: every AI tool in use across the organization, approved or not, with the data categories being processed by each. This inventory does not exist in most organizations. It needs to be built before the event that reveals it.
- 2.** Review your most recent cyber insurance application against your current AI-enabled environment. Have any platform adoptions since the last renewal created changes in your data handling, access structure, or vendor dependency that the application does not accurately reflect?
- 3.** Add AI platform relationships to your vendor risk management program. Every AI tool that processes organizational data is a third-party dependency with its own security posture, its own retention policies, and its own breach exposure. Treat it accordingly.

**4.** Ask your board whether it has discussed AI governance in the context of insurance posture, legal exposure, and financial survivability — not just capability and efficiency. If the answer is no, that conversation belongs on the next agenda.

## Seven Ways AI Increases Your Post-Incident Exposure

*Seven specific failure modes. Each one independently converts a manageable breach into a significantly more expensive and more dangerous one.*

*When a serious cyber event occurs in an organization that has adopted AI broadly as a business accelerator, the event does not simply present as a security failure. It presents as a governance failure — one that the organization's AI adoption has expanded, accelerated, and made more expensive across every dimension of the post-incident response. This chapter describes the seven ways that happens, in the specific operational and legal terms that matter.*

### Failure Mode One: AI Expands the Data Handling Surface

When AI is introduced into business operations, information starts moving through new channels faster than most organizations are equipped to track or govern. Employees paste contracts into prompt windows for revision. Finance teams use internal figures to generate commentary and board summaries. Sales teams use account information to build proposals. HR teams use personnel material to organize reviews. Legal teams use AI to compare clauses, summarize agreements, and accelerate document production. Executives use it to turn raw internal data into language they can deliver under pressure.

Every one of those actions is framed, internally, as productivity. After an incident, they are understood for what they also are: data movement. And data movement becomes one of the central questions in the entire response.

In a conventional incident, the organization must determine what systems were accessed, what identities were used, what data was viewed, and what was exfiltrated. In an AI-enabled organization, that scope problem becomes materially larger. The investigation must also determine what sensitive information entered AI-enabled workflows, whether regulated or confidential

material was processed by internal or third-party tools, whether those tools retained anything, whether connected repositories widened the access path, whether outputs reproduced protected information in new locations, and whether employees used AI tools outside any approved control structure.

The organization must understand not only what the attacker did. It must understand what its own people did. That makes the event slower to scope, more expensive to investigate, more difficult to explain to regulators and carriers, and more dangerous to leadership personally.

### **Failure Mode Two: AI Creates a Discovery Problem Inside the Incident**

Some incidents reveal more than compromise. They reveal that the organization had already created a second problem — one that predates the attacker's arrival — through uncontrolled business use of AI. What information had employees entered into approved tools? What had been entered into unapproved ones? What web-based tools were being used quietly by people trying to move faster? What files had been uploaded? What prompts had been saved or shared? What data sources had been connected to productivity tools without security review?

This is the discovery problem. The organization is no longer investigating a single event. It is investigating both an intrusion and its own ungoverned operating behavior. In many companies, the second investigation is as destabilizing as the first. It creates additional legal review, additional forensic scope, additional executive exposure, and significant uncertainty around what must be disclosed, defended, or corrected — and in what sequence.

### **Failure Mode Three: AI Expands Dependency Without Expanding Clarity**

The business experiences AI adoption as convenience. Each new tool, each new integration, each new workflow makes something easier and faster. The incident reveals that convenience as architecture — architecture the organization did not map, does not fully understand, and cannot quickly describe to a forensic investigator, a regulator, or an insurance carrier asking basic questions about data flow and system control.

When the event comes, leadership must answer specific consequential questions rapidly: who controls the platform, who can shut it off, what data moved through it, what logs exist, what the vendor retains, what contracts

govern the relationship, what must be reported and to whom. Organizations that adopted AI tools casually — without formal procurement, without vendor risk review, without data flow mapping — often discover they cannot answer those questions on day one. That discovery gap is expensive. It weakens the insurance position. It creates inconsistent statements made before the organization understands its own situation. It forces people to speak before they know what they are saying. That specific dynamic — confident early statements that turn out to be inaccurate — is one of the primary drivers of regulatory penalty escalation and coverage disputes.

### **Failure Mode Four: AI Makes Premature Narratives Easy to Produce**

After an incident, everyone wants language immediately. The board wants updates. Leadership wants summaries. Legal wants a chronology. Communications wants a statement. Under that pressure, AI looks genuinely useful — and it is useful, up to the exact point where it begins converting uncertainty into confident prose.

Post-incident survivability is not determined by how quickly an organization can produce language. It is determined by whether what it says is accurate, authorized, consistent with the forensic record, supportable under scrutiny, and defensible six months later in a claim negotiation, a regulatory inquiry, or a deposition. A generated summary that overstates certainty, simplifies technical ambiguity, misstates sequence, or implies causation the investigation has not yet established becomes a liability — not because it was written carelessly, but because it was written before the organization had earned the right to say it. AI lowers the friction of narrative production. That makes it easier to create records that are polished, premature, and dangerous.

### **Failure Mode Five: AI Exposes the Gap Between Innovation and Defensibility**

In peacetime — before an event — AI adoption is almost always justified with the same vocabulary: speed, efficiency, productivity, modernization, competitive positioning. All of that may be accurate. But after a serious incident, value is no longer the central question. Defensibility becomes the question. Can the organization explain where AI was used and for what purposes? Can it identify what categories of information were flowing into which tools? Can it distinguish approved use from tolerated use, and tolerated use from unknown use? Can it demonstrate that privacy review, legal review,

compliance oversight, security assessment, and procurement governance kept pace with the adoption decisions being made?

If the answer is no, what looked like innovation before the incident begins to look like unmanaged exposure afterward. That scrutiny arrives from multiple directions simultaneously: a regulator examining data handling practices, a plaintiff's attorney building an argument about governance failure, an insurance carrier investigating the accuracy of representations about vendor risk management, a board committee examining whether executive oversight was adequate. The organization does not get to choose which audience it faces first.

### **Failure Mode Six: AI Quietly Alters the Insurance and Governance Record**

Broad AI adoption can affect representations made to insurance carriers, statements made in vendor questionnaires, descriptions of control environments, data handling assumptions, and the accuracy of what leadership believes to be true about the organization's operational state — even before any incident occurs.

Post-incident insurance disputes are frequently about the gap between what was represented in the application and what the forensic evidence shows actually existed. If the organization has been using AI in ways that expanded access, accelerated data movement, deepened vendor dependency, or shifted decision-making without corresponding governance documentation, the incident may reveal a control environment that is meaningfully less disciplined than the organization believed when it last completed its insurance application. That gap becomes relevant in claim review, in material misrepresentation analysis, in questions about whether leadership exercised reasonable oversight of a material business function, and in board-level accountability proceedings. The more broadly AI is embedded in business operations, the less credible it becomes to treat AI governance as someone else's issue. It is a board issue. It is a CFO issue. It is a General Counsel issue.

### **Failure Mode Seven: AI-Generated Compliance Artifacts**

Organizations are using AI to generate HIPAA risk analyses, SOC 2 control narratives, vendor questionnaire responses, board reporting on security program status, and policy documentation. The compliance documentation presented to auditors, submitted to regulators, provided to insurance carriers,

and relied upon in board proceedings is, in a growing number of organizations, substantially AI-generated.

The danger is not only that the documentation may be incorrect. The deeper danger is that it can be comprehensive, internally consistent, professionally written, and descriptively accurate about controls that do not operationally exist. An organization can now produce a HIPAA risk analysis that appears complete and rigorous — while none of the controls it describes have been verified against the environment the document claims to describe.

This is compliance theater at industrial scale. The compliance audit finds the documentation adequate. The forensic audit finds the controls absent. That gap — between documented assertion and operational reality — has been one of the primary drivers of coverage failure, regulatory enforcement, and executive liability throughout this book. AI does not close that gap. It makes the documentation more convincing while the gap itself widens.

Real controls leave residue. They generate logs, tickets, exception records, testing timestamps, enforcement actions, and friction. Generated compliance narratives describe all of that in persuasive detail. But if none of it exists when the investigation begins, the document becomes evidence against the organization rather than evidence for it. A carrier's forensic team does not evaluate the elegance of the policy language. It asks whether the attested condition was true.

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**The organization that survives will not be the one that used AI most aggressively. It will be the one that can prove it accelerated without surrendering governance.**

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#### BEFORE YOU CLOSE THIS CHAPTER

1. Map every AI tool in use across the organization — approved and unapproved — and the categories of data being processed by each. This inventory does not exist in most organizations. Build it before the event that will require you to reconstruct it under legal pressure.
2. Establish a policy for AI use in compliance artifact generation. Any risk analysis, questionnaire response, board report, or attestation document that was substantially AI-generated must be verified against operational evidence before it is relied upon, submitted externally, or incorporated into the governance record.

- 3.** Review your most recent insurance application for representations about data handling, access controls, vendor risk management, and the accuracy of your security posture descriptions. Identify any representation that does not accurately describe the AI-enabled environment that actually exists today.
- 4.** Ask your General Counsel: if our primary AI vendor experienced a breach affecting the data we process through their platform, would our cyber insurance policy respond?

## The Vendor Who Said Yes

How a security questionnaire becomes a binding legal representation — and what it means for the organization that completed it carelessly

*The questionnaire arrived on a Tuesday. Forty-three pages. The client was a large regional health system representing eighteen percent of the vendor's annual revenue. The vendor's IT manager completed it over two days, checking yes where the policy existed even when the control was only partially deployed. MFA was listed as fully enforced — it was enforced on primary systems, but not on the legacy data transfer portal the health system actually used. Fourteen months later, attackers accessed the health system's patient records through the vendor's legacy portal. Three hundred and twelve thousand records were exposed.*

*The health system filed suit against the vendor for breach of contract and negligent misrepresentation, alleging that the questionnaire responses were materially inaccurate. The vendor's general counsel reviewed the completed questionnaire for the first time after the lawsuit was filed. The IT manager who completed it had left the company. The CEO had never seen it. The vendor entered receivership eighteen months after the breach.*

Vendor security questionnaires are not surveys. They are not informational requests. They are structured instruments through which a prospective or current client requests specific representations about the vendor's security posture — and through which the vendor provides those representations in a form the client will rely upon in making contracting, access, and data-sharing decisions.

The questionnaire response is the factual predicate for the security warranties the vendor makes in the master service agreement. When the response is inaccurate, the warranty is breached from the moment the contract is signed. That distinction is important. The breach of warranty does not begin when the incident occurs. It begins when the inaccurate representation is made and the client relies on it.

This chapter addresses both sides of that relationship, because both carry material exposure. The first is the liability that flows to the vendor organization when it provides inaccurate representations and a breach occurs at the client. The second — equally important and more frequently overlooked — is the liability that flows to the client organization when it relies on questionnaire responses without adequate verification and governs its vendor relationships based on representations that turn out to be wrong.

## **The Vendor's Exposure**

The legal theories through which inaccurate questionnaire responses produce liability are not complicated. Breach of warranty: the questionnaire response is incorporated by reference into the master service agreement as a representation about the vendor's security posture; when the representation is inaccurate and the client suffers a direct loss as a result, the warranty is breached. Negligent misrepresentation: the vendor made a representation in the course of a commercial transaction without reasonable grounds to believe the representation was accurate, upon which the client reasonably relied, causing loss.

No intent to deceive is required. Negligent completion — checking yes because the policy existed, rather than because the control had been verified against the operational environment — is sufficient to establish negligence. The standard is not whether the vendor was trying to mislead the client. The standard is whether the vendor had adequate grounds to make the representation it made. When the IT manager checks yes on MFA because the MFA policy exists and the primary systems have it, but doesn't verify the legacy portal, the standard has not been met.

The personal liability exposure for vendor executives follows the same path described in Chapter 3. The individual who completed the questionnaire, the CISO who approved it, the CEO who signed the master agreement that incorporated it by reference, the General Counsel who reviewed the indemnification provisions without reviewing the representations — each has a role in the chain, and corporate structure does not protect individuals from the personal consequences of their own governance decisions about the accuracy of representations they made or authorized.

## **The Client's Exposure**

The client organization that relies on vendor questionnaire responses without independent verification has a governance problem that will appear in a claim investigation. Domain 8 of the CISI — Third-Party and Supply Chain Risk — measures whether the organization's vendor risk management program produces genuine assessment rather than questionnaire-collection and file-management. The distinction matters at claim time.

A carrier investigating a claim that originated through a vendor relationship will ask: what did the organization know about the vendor's security posture, when did it know it, and what did it do to verify the vendor's representations? An organization that collected questionnaire responses and filed them is in a materially different position than an organization that had a formal vendor risk tiering program, conducted independent technical assessments of its Tier 1 vendors, and maintained ongoing monitoring of vendor security posture changes. The first organization accepted representations. The second one verified them. Under forensic examination, those are not equivalent positions.

## **The Governance Standard for Both**

Whether you are the organization completing questionnaires for clients or the organization receiving them from vendors, the governance standard is the same: representations about security posture must be verified against operational reality, must be reviewed and approved by a named executive with accountability for their accuracy, and must be updated when material changes occur in the security environment.

For AI-enabled organizations, this governance standard has a specific additional dimension that did not exist three years ago. Every AI tool that processes client data, every AI platform that creates a new data dependency, every AI integration that expands the vendor surface — each of these may require a review of outstanding questionnaire representations. The organization that deployed three AI tools since the last questionnaire submission, without reviewing whether those deployments affect the accuracy of prior representations, is carrying unexamined misrepresentation risk in active commercial relationships.

The questionnaire is not a one-time disclosure. It is a representation that remains in effect for the duration of the contract. The organizational posture that existed when it was submitted is the posture the client is relying on for

the duration of the relationship. When that posture changes materially — and AI adoption can change it materially — the organization has an obligation it has likely not yet evaluated.

#### BEFORE YOU CLOSE THIS CHAPTER

- 1.** Pull every vendor security questionnaire your organization has submitted in the past twenty-four months. Compare the responses against your current operational security posture. Flag any question where the current reality is materially different from what was represented at the time of submission.
- 2.** Establish a formal questionnaire completion and approval process. The CISO owns the technical accuracy. A named executive — at minimum the CISO, ideally the CEO or General Counsel for significant client relationships — reviews and approves the final submission. Verification must be against operational evidence, not policy documentation.
- 3.** Review your master service agreements with major clients. Ask legal counsel to confirm whether your current security posture supports the representations incorporated by reference from the most recent questionnaire submission.
- 4.** Build a vendor risk tiering program. Every vendor with access to sensitive data should be formally tiered, assessed at the level appropriate to that tier, and monitored for security posture changes that would affect your reliance on their representations.
- 5.** Establish a questionnaire update trigger: any material change in the security environment — a new AI tool deployed, a significant system migration, an identified incident, a new vendor relationship — triggers a review of questionnaire representations for affected client relationships.

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## The Document That Became Evidence

*The governance record that gets examined after an event is not composed primarily of formal governance documents. It is composed of the ordinary documents the organization produced while doing business.*

There is a specific misunderstanding that runs through most executive thinking about governance documentation. The misunderstanding is that governance risk is managed by the formal governance documents: the cyber security policy, the incident response plan, the board-approved risk framework. Those documents matter. They are not, however, the primary source of evidentiary risk in a post-incident proceeding.

The governance record that regulators examine, that plaintiffs' attorneys reconstruct, that insurance carriers review in claim investigations, and that board committees convene to examine is composed of the ordinary documents organizations produce while doing business. The insurance application completed at renewal. The vendor questionnaire submitted to close a deal. The compliance attestation filed with a regulator. The board summary that described the security program's current status. The AI-generated risk analysis that was accepted and submitted without operational verification. The incident response meeting notes. The internal email where a gap was flagged and the reply that said it would be addressed next quarter.

Each of those documents, individually unremarkable, collectively constitutes the evidentiary record of the organization's governance decisions. Each carries a specific risk in the exposure sequence that most organizations have not evaluated.

### The Insurance Application

The insurance application is a legal representation, as established throughout this book. Every attestation about a security control is a warranty to the carrier. When the warranty is inaccurate — because the application was completed based on compliance-documented posture rather than operational

reality — the gap between the warranty and the forensic finding is the basis for the coverage dispute.

The application is also the document the CFO or CEO signs. That signature is personal. It attaches personal accountability for the accuracy of representations the signing executive may not have reviewed, completed by people who reported to someone two levels below them, based on policy documentation rather than evidence. Chapter 3 and Chapter 7 address this mechanism in detail. The point here is that the application does not live in isolation in the governance record. It lives alongside the compliance audit that preceded it, the CISO briefings that followed it, the board presentation that cited it, and the forensic findings that will eventually be compared to it. That context either supports the representation or contradicts it.

## **The Vendor Questionnaire**

The vendor questionnaire is a legal representation to the client, operating through the mechanism described in the preceding chapter. Its inaccuracies produce contractual liability and executive personal exposure through the same chain as the insurance application. The governance risk is compounded when the organization has submitted multiple questionnaires to multiple clients, each incorporating representations that may have been accurate at the time of submission and have since been made inaccurate by changes the organization did not track against its outstanding representations.

## **The AI-Generated Compliance Artifact**

The AI-generated risk analysis, control narrative, or governance summary that is comprehensive, well-structured, and professionally written — but that describes a security program that does not fully exist in operational reality — is a specific and growing category of governance document with acute exposure characteristics. Its apparent quality gives it authority. Its disconnection from operational reality makes it evidence of the compliance-versus-operational gap that produces coverage failure, regulatory findings, and executive liability.

For organizations that have already generated AI-assisted compliance documents and submitted them to auditors, regulators, or carriers, the right question is not whether the document is accurate. The right question is: if a forensic investigation compared the representations in this document to what

the operational environment actually shows, what would it find? That gap — if it exists — is now a document in the record, representing a posture the organization claimed and evidence that may contradict it. The document that was produced to demonstrate governance has become the document that demonstrates the gap.

## The Board Minutes

Board minutes from every cyber risk discussion for the past three to five years are discoverable in litigation, regulatory proceedings, and board committee investigations. Minutes that reflect substantive engagement — specific questions asked, specific management responses given, specific accountability designated, specific risk acceptance decisions documented — are the governance record that supports a defense of reasonable oversight. Minutes that reflect 'CISO presented update, no questions' establish exactly the opposite: that the board was present for security briefings and exercised no substantive governance.

The board minutes problem is compounded by the AI adoption issue addressed in this Part. If the board received quarterly security briefings that included AI-generated summaries of the security program's status — summaries that described a more disciplined governance environment than the operational reality supported — the board's reliance on those summaries does not create a defense. It creates additional questions about whether the summaries were adequate for governance purposes and whether the executives who prepared them represented the program accurately.

Every document your organization produces is already potential evidence. The breach does not create the evidentiary record. It schedules its examination. The only variable is what the record shows when it is read.

### BEFORE YOU CLOSE THIS CHAPTER

1. Conduct a document audit: identify every formal governance representation your organization has made in the past two years — insurance applications, vendor questionnaires, regulatory certifications, board security reports. For each, evaluate whether the current operational reality supports what was represented.
2. Establish a clear standard for AI-generated compliance documentation: any document that will be submitted to an external party, relied upon in a governance

proceeding, or incorporated into the official record must be verified against operational evidence before that reliance occurs.

- 3.** Review your board minutes from the past twelve to eighteen months. Does the record of cyber risk discussion reflect substantive engagement that would be defensible in a board proceeding? If not, the next board meeting is the time to begin building the record that the next one will require.
- 4.** Create a formal documentation discipline for active incident response: a contemporaneous log, maintained in real time, of every significant decision made during the event, by whom, on what basis, with what authorization. This log is the governance record for every subsequent proceeding that follows the event.
- 5.** Ask your General Counsel: of all the governance documents your organization has produced in the past eighteen months, which ones would be most difficult to defend under forensic examination? Those documents are where the governance gap is, and they are the starting point for closing it.

**PART FOUR**

# What to Build

The specific architecture that determines whether your organization survives

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## Your Number — The Cyber Insurance Survivability Index

*Every organization has a number. Not the number it thinks it has — not the compliance score, not the maturity rating, not the internal security team's subjective assessment of overall risk — but a specific, evidence-based number that describes how likely its cyber insurance claim is to be paid in full, and what the specific gaps are that drive that likelihood. The Cyber Insurance Survivability Index was built to produce that number. When I tell an organization their CISI score, I'm not telling them how secure they are. I'm telling them what they're actually carrying.*

The CISI is a 34-question/215-point assessment across ten domains, each corresponding to a category of control that cyber insurance carriers evaluate when investigating a claim. It is not a compliance instrument — it doesn't measure against HIPAA or PCI-DSS or any other regulatory standard. It measures against the criteria that determine whether coverage is paid or denied.

This distinction matters enormously. An organization can score well on a HIPAA assessment and poorly on a CISI assessment because the assessment criteria are different. HIPAA asks: do you have a process? The CISI asks: does the evidence support the specific attestations you made to your insurance carrier, and do you have active exclusion risks that could void your coverage regardless of your control quality? These are different questions with different answers.

### The Ten Domains

The ten CISI domains and their point values reflect the relative weight each category carries in insurance claim determinations. The point values were derived from claims outcome analysis — examining which domains, when deficient, most frequently drove denial or partial payment.

**Domain 1: Authentication and Access Control (25 points).** This domain measures whether the organization's identity and access architecture can support the attestations most commonly made in insurance applications. The primary criteria are MFA deployment completeness across all user populations (including service accounts, vendor accounts, and legacy system accounts), privileged access management coverage, access review execution evidence, and credential rotation practices. Domain 1 is the most common source of attestation inaccuracy across the dataset.

**Domain 2: Endpoint Protection and Detection (25 points).** This domain measures endpoint security coverage and detection capability. The primary criteria are EDR/XDR agent deployment across the full managed endpoint population (not just the population enrolled in the management platform), anti-tampering protection on security tools, centralized alerting with defined response SLAs, and coverage of mobile and non-traditional endpoints. The correlation between incomplete EDR coverage and ransomware claim severity is among the strongest in the dataset.

**Domain 3: Data Governance and Protection (20 points).** This domain measures whether the organization can accurately characterize what sensitive data it holds, where it lives, and how it's protected. The primary criteria are operational data classification (not just policy documentation), sensitive data inventory currency, encryption implementation for data at rest and in transit, and third-party data sharing governance. In sectors with significant regulatory penalty exposure — healthcare, financial services — Domain 3 score directly predicts regulatory penalty magnitude.

**Domain 4: Network Segmentation and Architecture (20 points).** This domain measures the network's ability to contain a compromise — to limit lateral movement after initial access is achieved. The primary criteria are defined and enforced network segmentation zones, controls on east-west traffic between segments, isolation of critical systems, and zero-trust implementation progress. Flat network architecture — environments with minimal segmentation — is among the strongest predictors of ransomware encryption scope, because the ransomware has unrestricted access to maximize the attack surface.

**Domain 5: Vulnerability and Patch Management (20 points).** This domain measures the organization's ability to close known vulnerabilities in a timely fashion. The primary criteria are critical patch deployment SLA compliance (as measured against actual performance data, not stated policy), CISA

Known Exploited Vulnerability catalog compliance, the formal exception process with documented risk acceptance, and vulnerability scanner coverage across the full asset inventory. Unpatched known exploited vulnerabilities are explicitly addressed in many policy forms as a denial basis.

**Domain 6: Backup and Recovery (20 points).** This domain measures the organization's ability to recover from an event without paying ransom and within a timeline that avoids catastrophic business interruption. The primary criteria are the existence of offline or immutable backup copies that cannot be reached by ransomware, documented RTO/RPO that has been validated through actual restoration testing, and backup coverage for all critical systems. The most common Domain 6 finding is that backups exist and run successfully but have not been restoration-tested in twelve or more months — meaning the organization does not actually know whether recovery is possible.

**Domain 7: Incident Response Readiness (20 points).** This domain measures whether the organization can execute a coordinated, effective response when an event occurs. The primary criteria are an IR plan updated within twelve months, tabletop exercise within twelve months with documented findings and remediation, external IR retainer in place, and response playbooks for the organization's highest-probability attack scenarios. Domain 7 deficiency is strongly correlated with extended recovery timelines and higher total claim costs.

**Domain 8: Third-Party and Supply Chain Risk (20 points).** This domain measures the organization's governance over vendors, partners, and service providers who have access to its environment or data. The primary criteria are vendor risk tiering with a formal assessment program, contractual security requirements with high-risk vendors, access review cadence for vendor accounts, and monitoring for vendor security posture changes. Domain 8 is directly linked to the D10-TP (third-party origination) exclusion risk.

**Domain 9: Governance, Risk, and Compliance (20 points).** This domain measures the organizational governance architecture for cyber risk. The primary criteria are board-level cyber risk reporting (substantive, not ceremonial), formal risk acceptance processes with documentation, cyber risk inclusion in enterprise risk management, and committee-level governance assignment. Domain 9 is the domain most directly linked to director and officer liability exposure and to the defensibility of the organization's governance posture in regulatory or legal proceedings.

Domain 10: Insurer-Specific Exclusion Risks (25 points). Domain 10 is different from all other domains. Where Domains 1 through 9 measure control quality, Domain 10 measures structural coverage risk — the probability that a policy exclusion will void coverage regardless of control quality. The three sub-domains are D10-NS (nation-state attribution risk), D10-TP (third-party origination risk), and D10-SY (systemic event risk). A high score in Domains 1 through 9 does not protect an organization with active Domain 10 flags, because those flags operate as coverage voids, not coverage limitations.

## Reading Your Score

CISI scores fall into four bands, each with specific implications for the insurance relationship and the survivability posture.

175 to 215 — Low Denial Risk: Control state is strong across all domains. Attestations are likely accurate and supportable by evidence. Domain 10 exclusion risks are evaluated and addressed. This organization is in a genuinely insurable position. Maintenance through a quarterly governance cycle is the primary priority.

145 to 174 — Moderate Denial Risk: Most domains are adequate, but specific gaps exist that create attestation risk. Domain 10 requires review. Coverage denial in the event of a claim is possible but not probable. A targeted remediation program addressing the specific findings can move this organization to the Low Denial Risk band within ninety to one hundred eighty days.

115 to 144 — High Denial Risk: Material attestation gaps across multiple domains. Domain 10 flags are common at this band. Coverage denial probability at time of loss is significant — the 40 to 44 percent industry denial rate likely understates the risk for organizations in this band. Urgent remediation is required.

Below 115 — Critical Denial Risk: Fundamental control gaps that create substantial attestation inaccuracy across the policy application. Domain 10 exclusion risks are likely active. This organization is carrying an effective coverage void against its primary threat scenarios. Immediate engagement required.

## The Meridian Illustration

Throughout this book, I will use the example of Meridian Community Health Network — a composite organization drawn from patterns across multiple healthcare systems. Meridian's Stage 1 CISI assessment produced a score of 127 out of 215, placing it in the High Denial Risk band.

To make that score concrete: Meridian's Domain 1 score was 12 out of 25. The assessment found MFA deployed to 64 percent of user accounts, four service accounts with domain administrator privileges and no MFA or credential rotation requirements, and no formal privileged access management solution. Domain 3 scored 8 out of 20: a data classification program that existed as policy but had not been operationally implemented, PHI data mapping that was three years old, and significant PHI volumes in administrative systems outside the formal data governance scope. Domain 10 scored 5 out of 25, with active flags on all three sub-domains.

Meridian's leadership — when they saw these findings — were not surprised by everything, and they were surprised by some things. The MFA coverage gap was known in broad strokes, though the specific percentage was lower than expected. The Domain 3 finding was broadly known. The Domain 10 findings were largely unknown — nobody in the leadership team had ever evaluated the policy exclusions against their specific risk profile.

The CISI score is not a verdict. A 127 score means that, with focused remediation and governance work, the organization can reach the Low Denial Risk band. It means that the path from where Meridian is to where it needs to be is finite, known, and achievable. The twelve chapters that follow describe exactly how to walk that path.

### BEFORE YOU CLOSE THIS CHAPTER

1. Commission a CISI assessment for your organization. The assessment should be conducted by an independent party, under attorney-client privilege, with forensic evidence validation — not a self-assessment questionnaire.
2. Before the assessment, pull the control evidence for each of the ten domains: MFA deployment data from your identity provider, EDR coverage from your asset inventory, backup restoration test records, patch SLA performance data, Domain 10 policy review. Having this evidence ready accelerates the assessment and improves its accuracy.

- 3.** When you receive the assessment results, focus first on Domain 10. An active Domain 10 flag is a structural coverage risk that requires immediate broker and legal engagement, independent of your scores in other domains.
- 4.** Use the assessment findings to build a remediation roadmap prioritized by coverage impact — not by technical severity. The finding that most directly threatens your insurance coverage payability is the one that needs to be fixed first.
- 5.** Share the CISI score and band with your board and broker simultaneously. Your broker needs this information to have the coverage conversation described in Chapter 7. Your board needs it to fulfill its governance oversight obligation.

## What to Fix, In What Order

*The most common mistake organizations make after receiving a CISI assessment is prioritizing remediation the way they've always prioritized security work: by severity. The highest CVSS score gets fixed first. The broadest attack surface gets addressed first. The findings that the technical team finds most interesting get the most attention. This is backwards, for the purpose of survivability. The finding that carries the highest technical severity is not necessarily the finding that most threatens your insurance coverage. And it's coverage payability, not technical security maturity, that determines whether your organization survives.*

Remediation sequencing for survivability follows a different logic than remediation sequencing for security maturity. The question is not: what is the most dangerous technical gap? The question is: what is the finding that, if unaddressed, most directly causes my insurance claim to be denied? That finding gets fixed first, regardless of its CVSS score.

### Coverage-First Sequencing

Coverage-first sequencing divides remediation work into three tiers, each with a specific time horizon and a specific purpose. Tier 1 addresses the findings that most directly threaten coverage payability — the attestation inaccuracies that are most likely to be identified in a forensic investigation. These must be resolved within thirty days, because every day they remain unaddressed is a day you are carrying provable attestation inaccuracy. Tier 2 addresses the findings that, while not immediately threatening attestation accuracy, create elevated claim risk over time. These have a thirty to ninety day window. Tier 3 addresses the findings that improve overall security posture and long-term insurability — the domain gaps that aren't currently acute but will become acute without remediation. These have a ninety to one hundred eighty day horizon.

The Tier 1 list for a typical High Denial Risk organization looks like this: MFA remediation for the specific accounts identified as exceptions — particularly service accounts and privileged accounts. Formal risk acceptance documentation for any finding that is deferred rather than remediated in Tier 1. Attestation corrections to the insurance carrier and broker, specifically for the areas where the assessment found gaps between stated attestations and actual control evidence. And Domain 10 engagement: contact with the broker to begin the exclusion remediation conversation using the specific D10 findings as the agenda.

These Tier 1 actions have something in common: they are as much governance actions as they are technical actions. Documenting formal risk acceptance, correcting attestations with the carrier, engaging the broker on exclusions — these don't require weeks of technical work. They require organizational decision-making and communication. Organizations that treat the CISI remediation program as primarily a technical project miss the governance component that actually drives insurance risk.

## **The MFA Remediation Program**

Because MFA deployment completeness is the most common source of attestation inaccuracy and the most common single contributor to coverage denial, I want to walk through the MFA remediation program in specific detail.

Step one is the inventory — not the MFA platform enrollment data, but the complete population of accounts that exist in your environment. This means pulling the full directory from your identity provider, your active directory, your cloud identity stores, and any subsidiary or shadow directories. Every account. Service accounts, contractor accounts, vendor accounts, functional accounts, legacy accounts. If it can authenticate to something in your environment, it belongs on this list.

Step two is the gap analysis. Compare the complete account inventory against the MFA-enrolled population. Every account in the inventory that is not in the MFA enrollment is a gap. Not every gap is equally critical — a contractor account with limited access to a non-sensitive system is different from a service account with domain administrator privileges. But every gap needs to be characterized.

Step three is triage. Categorize the gaps by risk: accounts with privileged access (Tier 1 — immediate), accounts with access to sensitive data (Tier 2 — thirty days), accounts with limited access to non-sensitive systems (Tier 3 — sixty to ninety days). Accounts that cannot accept MFA due to technical constraints — legacy protocols, operational technology systems — get a formal risk acceptance decision with documentation.

Step four is remediation. Enforce MFA for Tier 1 accounts immediately, even if it causes temporary operational disruption. For most organizations, enforcing MFA on the twenty or thirty accounts with privileged access that have been running without it takes one afternoon of technical work and one week of change management coordination with the account owners.

Step five is attestation correction. When the remediation is complete — or when you have a documented Tier 2 and Tier 3 plan for the remaining gaps — contact your insurance broker. Tell them: we conducted an assessment, we identified that our MFA deployment was not as complete as we attested, here is what we've fixed and here is our plan for the remainder. This conversation is uncomfortable. It is also dramatically less expensive than having it during a claims investigation.

## **Backup and Recovery: The Test Nobody Did**

The most predictable finding in Domain 6 — backup and recovery — is that the organization's backups have not been restoration-tested within the past twelve months. This finding is so common that I treat it as a default assumption until evidence of a recent restoration test is produced.

The distinction between backup verification and backup restoration testing is essential. Backup verification confirms that the backup job completed — that data was written to the backup destination, that no errors were recorded, that the backup volume is the expected size. Restoration testing confirms that data can be recovered from backup, in a production-equivalent environment, to a functional state, within the organization's target recovery time. These are completely different tests with completely different outcomes.

Backup jobs can complete successfully every night for two years while the restore procedure is broken. The backup data is there. The restoration process fails because a configuration change made eight months ago broke the restore catalog and nobody tested it. The first time the organization discovers this is

when they need to restore production systems after a ransomware event. At that point, the organization has paid their premium, followed the backup policy, and still cannot recover without paying the ransom.

The restoration test requirement is straightforward: at least once per year, restore a production-equivalent backup to a test environment and confirm that the critical systems function as expected. Document the test with a dated record of what was restored, the restoration time, and whether the systems were confirmed functional. This documentation is what you show the insurance carrier when they ask about backup recovery capabilities.

## **The Patch Management Evidence Problem**

Patch management is one of the controls most attested to in cyber insurance applications and one of the controls most commonly found to be deficient when forensic evidence is examined. The gap is consistently the same: the stated SLA in the attestation is what the policy says; the actual performance is what the data shows; and the two numbers are different.

For most organizations, the policy says critical patches are deployed within thirty days. The actual performance data — calculated from the date a critical vulnerability was identified to the date it was remediated, across all covered systems — shows an average of forty to sixty days. Additionally, the coverage data shows that fifteen to twenty-five percent of the actual asset population is not enrolled in the patch management platform and therefore not being patched within any defined SLA.

The remediation has two components. The process component is narrowing the gap between stated SLA and actual performance: identifying the bottlenecks (testing delays, change management cycles, exception handling), streamlining the deployment process, and building in accountability for SLA compliance. The coverage component is expanding patch management enrollment to cover the full asset inventory.

The attestation correction is specific: instead of attesting 'we patch critical vulnerabilities within thirty days,' attest 'we patch critical vulnerabilities within forty-five days on average, with a formal exception process for systems requiring extended testing.' This attestation is accurate, defensible, and honest. It may slightly affect your premium. It will not produce a coverage denial.

**BEFORE YOU CLOSE THIS CHAPTER**

- 1.** Build your Tier 1 remediation list now: identify every attestation in your insurance application that the CISI assessment found to be inaccurate, and schedule the remediation within thirty days.
- 2.** Run the MFA inventory program described in this chapter: pull your complete account directory, compare against MFA enrollment, triage by risk level, and fix Tier 1 accounts immediately.
- 3.** Schedule a backup restoration test this quarter. Not a verification check — an actual restoration test with documented evidence. This single action resolves one of the most common Domain 6 findings.
- 4.** Pull your actual patch performance data from your patch management platform. Calculate average days-to-remediation for critical patches over the past twelve months. Compare that to your attested SLA. Correct the attestation if they differ.
- 5.** For every finding that you plan to defer past thirty days, create a formal risk acceptance document with the appropriate authority signature before thirty days is up.

## Making Your Insurance Policy Real

*The broker had been placing cyber insurance for the organization for six years. He was competent and attentive. He answered calls quickly and managed renewals smoothly. He had never, in six years, initiated a conversation about whether the coverage would actually pay in the event most likely to affect the organization. Not because he was negligent — because that wasn't the conversation his clients typically wanted to have. They wanted coverage. They wanted a reasonable premium. They wanted to be done with it. He gave them what they wanted. Nobody got what they needed.*

The insurance relationship, for most organizations, is a transactional annual event: renewal comes up, the broker prepares the application, premiums are negotiated, coverage is placed, everyone moves on. The coverage hasn't been stress-tested. The exclusions haven't been evaluated. The attestations haven't been verified. The limits haven't been calibrated against an actual cost model.

This chapter describes the insurance relationship you need — one that produces coverage that will actually pay when you need it — and the specific conversations and documents required to build it.

### The Proactive Attestation Correction

The most important single action in building a genuine insurance relationship is proactive attestation correction — telling your insurance carrier and broker, before an event, about the gaps your CISI assessment found between your stated attestations and your actual control state.

This conversation is counterintuitive. The instinct is that admitting inaccuracies will result in coverage being revoked or premiums being raised dramatically. Sometimes it does result in premium adjustments. But the alternative — carrying the inaccurate attestations and having them discovered during a claim investigation — results in coverage being denied. Premium increases are expensive. Coverage denial is existential.

The proactive correction conversation has a specific structure. You tell the carrier or broker: we recently completed a rigorous assessment of our security controls against insurance coverage criteria. The assessment identified some gaps between our prior attestations and our current actual state. We are providing you with the accurate information and our remediation plan for the identified gaps. We wanted to have this conversation with you before a loss event rather than during one.

Insurance carriers who receive this conversation — particularly from organizations that present a documented CISI assessment and a credible remediation timeline — typically respond in one of three ways: they accept the corrected attestations and adjust coverage terms if necessary; they work with the broker to identify endorsements that address the newly-identified gaps; or, in cases where the gaps are severe, they suspend coverage pending remediation. All three of these outcomes are better than coverage denial at claim time.

## **The Domain 10 Negotiation**

Addressing Domain 10 exclusion risks requires a more structured engagement with your broker. This is not a correction conversation — it is a coverage negotiation. You are bringing specific identified risks to the broker and asking for endorsements that address them.

For the nation-state exclusion, the negotiation starts with your sector. If you operate in healthcare, financial services, critical infrastructure, or any sector that nation-state actors routinely target, you need to understand exactly what your policy's nation-state exclusion says and whether endorsements are available. Some carriers — particularly those specializing in cyber coverage for regulated industries — offer nation-state coverage endorsements at a defined premium uplift. These endorsements are worth pricing even if you ultimately decide not to purchase them, because the information reveals what the market believes your nation-state risk is worth.

For the third-party origination exclusion, bring your vendor landscape to the broker conversation. Identify your highest-risk vendor relationships — managed service providers with administrative access, software vendors with code deployed in your environment, cloud providers. For each, assess whether the third-party origination exclusion would apply to a loss that originated

through that relationship. Then ask the broker what endorsements or sub-limit modifications are available.

For systemic event risk, bring your cloud concentration data. If a significant percentage of your workloads run on a single cloud provider — and for many organizations, the number is between 60 and 90 percent — quantify the financial exposure of a prolonged outage of that provider and compare it to your current coverage for that scenario.

## Coverage Limit Calibration

The question 'how much coverage is enough' is one that most organizations answer with intuition rather than analysis. The \$10 million policy feels like a lot until you build the actual cost model from Chapter 4 and discover that your realistic cost profile for a major breach — IR costs, business interruption, regulatory penalties, litigation settlement — exceeds \$10 million before business interruption is fully accounted for.

Coverage limit calibration requires building the cost model first. This is the work from Chapter 4: estimating IR costs, business interruption costs, regulatory penalty exposure, and litigation risk for your organization's specific profile. Once you have that model, the question becomes: does our current coverage limit — adjusted for the exclusions and attestation risks that might reduce our actual recovery — adequately cover the cost model?

For most organizations in the moderate to large range, the answer is that the cost model exceeds the coverage limit in a significant loss scenario. The organization has been buying insurance against an average event rather than insurance against the scenario they most need to survive. The fix is either increasing coverage limits or building the financial reserves to cover the gap.

## The Governance Documentation Package

When you file a cyber insurance claim, your carrier will conduct a forensic investigation that examines not just your technical controls but your governance architecture. They will want to see: board minutes reflecting cyber risk oversight, formal risk acceptance decisions for known findings that were deferred, CISI assessment results and remediation progress, attestation accuracy reviews, and evidence that the organization maintained an active, reasonable cyber governance program.

Organizations that have built this documentation — not as an afterthought during a claim, but as an ongoing governance practice — have a significantly better claims experience than organizations that are assembling their governance record retroactively. Carriers who can see a consistent, documented record of governance diligence are less likely to pursue aggressive denial strategies than carriers who discover they're working with an organization that has no governance documentation at all.

The governance documentation package is built through the Stage 5 CyberRes program described in Chapter 22. But the core documents — the board reporting package, the risk acceptance decisions, the CISI assessment results, the attestation correction correspondence with the broker — should be maintained and organized as an active file from the moment you begin this work. Think of it as the file that proves your governance was genuine when someone is motivated to argue that it wasn't.

#### BEFORE YOU CLOSE THIS CHAPTER

- 1.** Schedule a meeting with your broker specifically about attestation accuracy and exclusion exposure. Come with the CISI findings. Make this a real conversation, not a renewal transaction.
- 2.** Initiate the proactive attestation correction conversation with your carrier or broker. Lead with the CISI documentation. Present your remediation plan. Have legal counsel review the correction correspondence before it is sent.
- 3.** Build the coverage limit analysis: compare your actual cost model against your current policy limits, net of exclusion exposure and attestation risk. Identify the gap and build a plan to address it.
- 4.** Ask your broker to price nation-state coverage endorsements and third-party origination sub-limit increases. The pricing itself is useful information even if you don't purchase.
- 5.** Start the governance documentation file. Create a folder — physical or digital — with your CISI results, your remediation roadmap, your board cyber risk briefings, and your attestation correction correspondence. This file is your claims defense.

## Why Your Lawyer Needs to Lead Your Next Security Assessment

*I once watched a CISO present the findings from a forensic investigation to his leadership team. The investigation had been thorough. The findings were alarming — a known vulnerability had been in the environment for fourteen months, the threat actor had used it, and the CISO could document that the vulnerability had been raised in a prior assessment, flagged for remediation, and deferred due to budget constraints. He presented this information in a PowerPoint deck. The deck was on the organization's SharePoint. When the regulatory investigation came, the deck was produced in discovery. The three-page section showing that leadership had been told about the vulnerability and had deferred remediation was, in the words of the opposing counsel, 'the most damaging document we've ever seen.' The CISO had done the right thing. He just hadn't done it in a legally protected way.*

Attorney-client privilege is one of the oldest and most fundamental protections in legal systems with roots in English common law. It protects communications between an attorney and their client, made for the purpose of obtaining or providing legal advice, from compelled disclosure to third parties. When you tell your lawyer about a problem, what you tell them is protected. When your lawyer tells you the legal implications of a problem, that advice is protected.

The privilege wrapper architecture extends this protection to technical work. When forensic investigations are conducted at the direction of legal counsel, for the purpose of providing legal advice, the work product of those investigations may be protected from compelled discovery. The forensic findings that show the fourteen-month-old vulnerability — if properly protected — would have been available to the legal team and the leadership team without being available to the regulatory investigator.

Building the privilege architecture before you need it is not optional. It is one of the three characteristics of organizations that survive, and it requires legal expertise and organizational intention.

## What Privilege Protects and What It Doesn't

Before building the privilege architecture, you need to understand its limits — because the limits are frequently misunderstood in ways that create both false confidence and unnecessary restriction.

Privilege protects the communication between attorney and client for the purpose of legal advice. It does not protect facts. If the forensic investigation finds that a vulnerability existed in the environment for fourteen months, that fact exists in the system logs regardless of what the investigation report says. Privilege protects the report. It doesn't erase the logs.

Privilege does not protect against regulatory obligations. If you are required by law to report a breach, privilege doesn't allow you to withhold that report. What it protects is the internal forensic analysis — the full technical detail of what was found, what the threat actor did, what controls failed — from being produced in regulatory proceedings beyond what is required by disclosure obligations.

Privilege does not protect misconduct. Courts are consistent in limiting privilege claims that attempt to use legal process to conceal fraud, criminal activity, or deliberate wrongdoing. Privilege protects honest assessment. It does not protect active concealment.

Within those limits, however, privilege provides substantial protection for the honest forensic investigation that every organization needs to conduct before an event and after one. The organization that cannot afford to know its own risk profile — because knowing it creates unprotected documentation — is an organization that cannot adequately prepare. The privilege architecture is what makes honest preparation organizationally viable.

## The Three Components of the Privilege Architecture

Building the privilege architecture requires three specific elements, each established before any forensic or assessment work begins.

The engagement letter. Legal counsel establishes a written engagement with the forensic team or security assessor, documenting that the work is being conducted at counsel's direction and for the purpose of providing legal advice to the client. This letter creates the foundational privilege relationship. Without it, subsequent claims that the work was privileged are difficult to

support. The engagement letter must be in place before any technical work begins — not executed retroactively after the findings are already documented.

**Direction and control.** Throughout the engagement, legal counsel must maintain genuine direction and control over the scope and purpose of the work. This doesn't mean lawyers dictate technical methodology. It means the engagement is defined by legal questions that counsel is trying to answer: Is the organization's control environment consistent with its insurance representations? What are the legal implications of the findings for regulatory compliance and insurance coverage? The forensic team answers those questions technically; counsel maintains the directive purpose that supports the privilege claim.

**Protected reporting.** Forensic findings are reported to legal counsel, who then provides legal advice based on the findings to the organization. This creates the attorney-advice-to-client structure that is the core of privilege. The practical result is that the technical details of the findings flow to the organization through a legally-protected channel rather than through a direct technical report. The organization can still access and act on the information. What changes is the legal character of the communication.

## **Establishing Privilege for Your Next Assessment**

If you are planning to commission a CISI assessment or any security assessment in the near future, the process for establishing privilege is straightforward. Call your General Counsel first. Explain that you are planning to commission an assessment and that you want it conducted under attorney-client privilege. Ask them to engage the assessment firm directly, under their direction, with an engagement letter that establishes the privilege relationship.

Many General Counsels will be unfamiliar with this specific application of privilege. Some may believe that privilege only applies to communications directly about legal matters, not to technical security assessments. The case law supporting privilege for attorney-directed technical investigations is well-established — particularly following high-profile cases like *In re Target Corporation Customer Data Security Breach Litigation*, which addressed privilege for breach-related forensic investigations. Your General Counsel may

want to review the relevant case law or consult with outside cyber-specialized counsel.

The cost of establishing this architecture is small: a few hours of legal time to set up the engagement structure. The benefit is that all future security assessment and forensic work, conducted under this architecture, is potentially protected from compelled production in the regulatory or litigation proceedings that follow a significant breach.

## **The Privilege Architecture in Practice: Meridian**

For Meridian Community Health Network, the privilege architecture was established as part of the CCSF Stage 3 engagement. Legal counsel — outside breach counsel with specific experience in healthcare cyber matters — executed an engagement letter with the forensic assessment firm before any Stage 3 work began. The engagement was structured as legal counsel's investigation into Meridian's insurance coverage adequacy and regulatory compliance risk.

The Stage 3 findings — including the post-forensic CISI score of 112, the confirmed MFA gap, the patch management SLA performance data, and the three unpatched critical vulnerabilities — were reported to legal counsel. Counsel then provided a legal advice memorandum to Meridian's leadership that summarized the findings in terms of insurance risk and regulatory risk, with recommended actions.

Eighteen months later, when a regulatory inquiry was initiated related to a third-party vendor incident that touched Meridian's environment, the forensic findings from Stage 3 were not produced in discovery. The remediation actions that followed Stage 3 — which addressed the specific vulnerabilities identified — were available as evidence of reasonable governance. The detailed technical findings that showed the pre-remediation state were protected.

This outcome was not accidental. It was designed.

**BEFORE YOU CLOSE THIS CHAPTER**

- 1.** Call your General Counsel today and have the privilege architecture conversation. Ask: are any of our current or planned security assessments structured under attorney-client privilege? If not, fix that before the next assessment begins.
- 2.** Request that your General Counsel review the engagement structure for any ongoing forensic or assessment work and confirm whether privilege applies. For work already conducted without privilege, understand what documentation exists and its discoverability.
- 3.** For your next CISI assessment or security review, require that the engagement letter be executed before any technical work begins. The General Counsel should be the named engaging party.
- 4.** Ensure that all technical findings from privileged assessments are reported to legal counsel first, with the legal advice memorandum to management following. Preserve this channel.
- 5.** Include the privilege architecture discussion in your annual board cyber oversight briefing. Directors should understand that the organization is conducting privileged assessments and what protection that provides.

**PART FIVE**

# When the Call Comes

The operational playbook for the event itself

## Hour One — Exactly What Happens and Who Does It

*There is a version of hour one that looks like this: a member of the IT team detects anomalous activity at 6:14 AM. By 6:29 AM, the Incident Decision Authority has been notified and has confirmed activation. By 6:45 AM, legal counsel has been notified and the forensic retainer has been activated under the privilege architecture. By 7:00 AM, the insurance carrier has received a preliminary notification that a potential covered event is under investigation. Three calls. Four people. Forty-six minutes. Everything that follows is managed inside a protected, authorized, properly-structured response. This version is possible. Most organizations never achieve it. This chapter explains why and how to change that.*

The difference between the forty-six-minute version and the chaotic version is not talent. It is not resources. It is preparation: the existence of a documented protocol that everyone has read, a governance architecture that everyone understands, and a set of retainer relationships that can be activated in minutes rather than hours.

### The First Three Calls

In any significant cyber event, three calls need to happen in the first hour. The sequence matters less than the simultaneity — these three calls should happen as close to simultaneously as possible, and they should happen before any other external communications.

The first call is to the Incident Decision Authority. The person who detects or first confirms the event calls the IDA — the pre-designated individual with final decision authority — and provides a one-sentence description: 'We have what appears to be a significant security incident affecting [scope]. I am activating the IR protocol.' The IDA says 'confirmed, activating' and the protocol is live. This call should be under five minutes.

The second call is to the General Counsel. The GC needs to know immediately, for two reasons. First, the privilege architecture must be activated: the forensic engagement needs to be initiated under counsel's direction before any forensic work begins. Second, the regulatory notification clock and insurance notification clock are running — counsel needs to be engaged to manage those timelines. This call initiates the legal response track in parallel with the technical response track.

The third call is to the insurance carrier or broker. Many organizations defer this call for days, waiting until they have a 'full picture.' This is almost always a mistake. Most policies require notification 'as soon as practicable' following discovery of a potential covered event. 'As soon as practicable' is not 'after the forensic investigation is complete.' It is as soon as you know or reasonably should know that a covered event may have occurred. The preliminary notification is brief: 'We are investigating a potential cyber event and are providing preliminary notice under Policy Number [X]. We will provide updates as information becomes available.' This call starts the clock and establishes notice compliance. It does not commit you to any specific characterization of the event.

## **The First Four Hours: Parallel Workstreams**

After the three initial calls, the response operates in parallel workstreams. The failure mode in most organizations is that the response is sequential: the technical team investigates, then the legal team is briefed, then the communications team is engaged, then the finance team is consulted. This sequential approach takes days. The window for protecting your legal position, preserving critical evidence, and managing the insurance relationship is measured in hours.

The technical workstream, directed by the CISO, begins forensic preservation and containment. Under the privilege architecture, the forensic team is engaged immediately: preserve volatile evidence (memory, active connections, running processes) before containment actions that might destroy it. Implement containment to limit further spread without removing evidence. Begin the initial scoping to characterize the event's extent.

The legal workstream, directed by the General Counsel, runs simultaneously. Counsel is activating the privilege architecture, reviewing the forensic team engagement structure, beginning the regulatory notification analysis (what is

required, by when, to whom), and drafting the preliminary insurance carrier notification.

The communications workstream establishes the information firewall. The External Communications Authority is notified that a potential incident is under investigation. All other executives, directors, and staff are instructed that no communications about the event are to be sent to external parties — including informal communications to industry peers, social media posts, or personal conversations with board members' family and friends — until the ECA authorizes specific language. This instruction needs to be explicit, immediate, and documented.

The financial workstream assesses the cash position and activates any emergency credit facilities that may be needed for immediate response expenses. The CFO confirms the ransom decision framework is available and reviews the policy for any spending pre-authorization requirements.

## **The Documentation Discipline**

One of the things that separates a legally-defensible response from a liability-generating one is documentation discipline: the practice of creating a contemporaneous written record of every significant decision, by whom it was made, on what basis, and at what time.

This sounds bureaucratic in the middle of a crisis. It is not optional. The insurance carrier's forensic team will reconstruct the timeline of your response and compare it against the timeline of the event. Regulatory investigators will ask who knew what, when, and what was done about it. Plaintiff attorneys will ask whether decisions were made by people with authority to make them. The contemporaneous record is your answer to all of those questions.

The documentation discipline doesn't require filling out forms. It requires someone with a time-stamped notepad or digital log recording: at 7:15 AM, IDA authorized engagement of [Forensic Firm] for IR response. At 8:30 AM, preliminary insurance notification sent to [Carrier] by [Name]. At 9:45 AM, ransomware confirmed on [X] systems, scope assessment ongoing. At 11:00 AM, General Counsel advised IDA against ransom negotiation until carrier pre-authorization obtained. This record, preserved intact, is worth more than most legal arguments.

## What Not to Do in Hour One

The list of things not to do in the first hour is almost as important as the list of things to do.

Do not start forensic investigation before the privilege framework is activated. Any forensic work conducted before the attorney-client privilege architecture is established is unprotected. If you are one of those organizations where the technical team's instinct is to start digging immediately, redirect that instinct toward evidence preservation (non-destructive and always appropriate) and brief containment — not forensic investigation — until counsel is engaged and the engagement is structured.

Do not make external communications without ECA authorization. Not to the media, not to regulators, not to law enforcement, not to other executives at other organizations. The first informal characterization of the event — 'it looks like ransomware, pretty bad' — becomes a statement that can be used in proceedings. The ECA authorization requirement applies from minute one.

Do not pay ransom without carrier pre-authorization. Most cyber policies that cover ransom payments require carrier pre-authorization before payment. Paying without pre-authorization can void coverage for the ransom payment and create grounds for broader coverage dispute.

Do not tell the board chair more than you're prepared to put in an official communication. Board members are individuals with their own networks, their own instincts, and their own anxiety. An informal briefing from the CEO to the board chair that contains characterizations or details not yet in official communications creates inconsistency that creates liability. The board chair should be briefed through the formal channels, with the same language that goes to all board members, reviewed by the ECA.

### BEFORE YOU CLOSE THIS CHAPTER

1. Write the three-call protocol into your IR plan right now: who calls the IDA, what they say, who the IDA calls, what they say, who initiates the insurance notification and what it says. It should fit on one page.
2. Confirm that your forensic retainer firm is pre-authorized and can be activated with a single call. Confirm who makes that call and what they say.

- 3.** Create the communications hold instruction — the brief written directive that goes to all executives and the board the moment an incident is activated. It should be templated, reviewed by legal, and ready to send.
- 4.** Build the parallel workstream checklist: what does the technical team do in hours one through four, what does legal do, what does communications do, what does finance do. Run them through the tabletop exercise to test the parallel coordination.
- 5.** Add a documentation officer role to your IR protocol — a specific person responsible for maintaining the contemporaneous log. This role often goes unassigned until it becomes critical.

## The First Two Weeks

*By day three of the incident, the CEO had been awake for fifty-six of the past seventy-two hours. The technical team had been running continuous shifts. The General Counsel had billed forty-one hours. The forensic firm was burning through their engagement budget at a pace that would require re-authorization by day five. The carrier had received the preliminary notification and was asking for a status update. The board was asking for a briefing. Employees were asking questions that nobody had authorized answers to. The crisis communications firm was waiting for direction. And somewhere in the middle of all of this, the decisions that would determine the organization's insurance outcome, legal position, and reputational future were being made by exhausted people in an unstructured environment. This is the design failure that Part Three of this book is built to prevent.*

The first two weeks of a significant cyber event are when the major structural decisions get made. Not the technical decisions — those are being made continuously by the forensic and response teams. The governance decisions: how to structure the forensic investigation, how to communicate with the board, whether to negotiate the ransom, how to structure the regulatory notifications, how to manage the external narrative. These decisions require governance clarity, legal guidance, and stamina. The organizations that make them well are the ones that built the architecture before the event.

### The Day Three through Seven Priorities

By day three, the acute containment phase is typically complete or well underway. The forensic investigation is producing scope and attribution findings. The immediate safety concerns — in healthcare, clinical operations; in financial services, transaction integrity — are being managed. The priority shifts from containment to governance: managing the developing situation in ways that protect the organization's legal, financial, and reputational position.

The single most important governance action in days three through seven is the board briefing. The board needs to be briefed, through the External Communications Authority and reviewed by General Counsel, with the accurate current status of the event, the scope of the impact, the current response actions, and the known unknowns. This briefing has three purposes: it fulfills the board's oversight role, it creates the governance documentation of board engagement, and it prevents individual board members from having their own informal information channels — which, as described in Chapter 3, creates liability.

The board briefing in an active incident is not a normal board presentation. It is brief, factual, and action-oriented. It covers: what we know (scope, vector, threat actor characterization if available), what we've done (containment, legal engagement, carrier notification), what we're doing (forensic investigation timeline, regulatory notification preparation), what decisions require board authority (ransom payment if above delegated threshold, emergency spending authorization if required). The briefing is documented in writing, delivered through a single channel (General Counsel or designated representative), and preserves the information firewall.

## Managing the Regulatory Notification

Regulatory notification timelines begin at detection — or at 'knew or reasonably should have known.' By day five or seven of a significant breach affecting personal data, most notification windows under federal and state law are either open or approaching. Managing regulatory notifications is a legal exercise, not a communications exercise: it requires legal counsel to determine what is required, for which regulatory bodies, under which laws, within which timelines.

The common mistake is treating regulatory notifications as public communications — drafting language that is optimized for how it will read in the press rather than what it legally needs to say. Regulatory notification language is determined by the regulatory requirements, not by communications strategy. Attempting to minimize or soften regulatory notifications creates two problems: it may not satisfy the legal requirement, and it creates inconsistency between the regulatory notification and the subsequent breach notification to affected individuals.

The notification cascade typically follows this sequence: regulatory notification to federal agencies (HHS for healthcare, SEC for public companies, banking regulators for financial institutions, CISA for critical infrastructure operators) precedes or runs parallel to notification to affected individuals, which precedes or runs parallel to public statement. Each notification tier has different content requirements, different timing requirements, and different legal implications. Your General Counsel needs to manage this cascade proactively, not reactively.

## **The Ransom Decision**

If the event involves ransomware and the decision about ransom payment is being considered, days three through ten are typically when that decision must be made. The decryption timeline economics — how long restoration from backup will take versus how long waiting for decryption keys will take — become clearer by day three, and the threat actor typically establishes a ransom payment deadline in this window.

The ransom decision framework you built before the event (Chapter 8) now needs to be followed. The decision has four gates. Gate one: does the policy cover ransom payments, and have you obtained carrier pre-authorization? Without carrier pre-authorization, ransom payment may not be a covered expense. Gate two: is ransom payment prohibited by OFAC sanctions? Legal counsel must conduct a sanctions check before any ransom payment decision. Gate three: has the Risk Acceptance Owner formally considered the decision? The ransom payment decision cannot be made informally by the person who happens to be managing the response. It requires the designated authority. Gate four: is payment technically advisable? Not all ransomware groups deliver functional decryption keys, and some deploy secondary extortion (threatening data release) regardless of payment.

Organizations that have built the ransom decision framework in advance make this decision in hours. Organizations that are building the framework during the event make this decision in days — at significant cost in business interruption and decision quality.

## Communication Discipline for Two Weeks

Maintaining communications discipline for two weeks is harder than maintaining it for two days. People get tired. The information firewall feels bureaucratic when the company is in recovery mode. Employees start answering journalists' questions informally. A board member mentions the incident at an industry dinner. An executive sends a sympathetic personal email to a longtime customer contact.

Each of these informal communications is a potential problem. Not because of malice — because of inconsistency. The official communications from the ECA describe the event in a specific way. An informal communication that characterizes the event differently — as worse, or better, or more specific about certain details — creates inconsistency in the record. That inconsistency is found by the parties who are motivated to find it.

The communications discipline for the first two weeks means: the ECA approves all external communications, full stop. Not most external communications. All of them. Every customer notification, every regulatory filing, every employee communication that might reach external parties, every social media post by any executive or board member. One person. One channel. One review process. Two weeks.

### BEFORE YOU CLOSE THIS CHAPTER

1. Template the board briefing document for an active incident. It should have six sections: what we know, what we've done, what we're doing, what we don't know yet, what decisions require board authority, and the next briefing schedule. Have it ready before you need it.
2. Map your regulatory notification obligations: what laws apply, what they require, what the timelines are, and who in your organization owns each notification. Document this map and test it in a tabletop.
3. Walk through the ransom decision framework four-gate test with your legal counsel. Confirm that the framework is consistent with current OFAC guidance and your specific policy terms.
4. Build a two-week communications discipline protocol: daily ECA authorization for any external communication, daily log of authorized communications, and an explicit 'hold' procedure for any communication that hasn't been through the ECA.

**5.** Establish a recovery operations command structure — a small, designated team with clear authority to make day-to-day recovery decisions without escalating everything to the IDA. Delegate appropriately.

## Filing the Claim — How to Give the Insurance Carrier No Reason to Deny

*The claim was filed on day twenty-three. The carrier assigned a forensic team on day twenty-five. By day thirty, the carrier's forensic team had found three things: first, that the MFA attestation in the policy application was inaccurate — actual coverage was 71%, not the 95% attested. Second, that a patch with a CVSS score of 9.8 had been unpatched in the environment for sixty-two days, against an attested SLA of thirty days. Third, that the forensic investigation conducted by the policyholder's team had not been structured under attorney-client privilege — all the findings were available for review. On day forty-five, the carrier issued a reservation of rights letter. On day ninety, the carrier denied \$7.2 million of the \$9.4 million claim. On day one hundred and twenty, the organization's CFO was reviewing acquisition offers from a larger competitor.*

Filing a cyber insurance claim is a process, and like any process, doing it correctly requires preparation, sequencing, and documentation. The organizations that recover their full coverage are not necessarily the ones with the most complete coverage — they are the ones that gave the carrier the least reason to dispute the claim.

### What the Carrier Will Look For

When your carrier assigns a forensic team to investigate your claim, they are looking for two things: grounds for denial and grounds for limitation. They are not looking to help you. They are looking to understand what their exposure is and whether any policy provisions allow them to reduce it.

The forensic investigation will examine: the accuracy of technical attestations in your policy application (comparing stated controls to what the evidence shows was actually in place); whether any policy exclusions were triggered by the nature of the event; whether notification was provided within the required timeframe; whether you cooperated fully with the investigation (or whether

privilege claims were used to withhold information); and whether your response actions were reasonable and covered under the policy.

The organizations that do well in this investigation are the organizations that have nothing to hide — not because they have perfect security, but because their attestations were accurate, their exclusions were addressed, their notification was timely, and their response was documented.

## The Documentation Package

The claim submission should be accompanied by a documentation package that presents your governance posture and response actions in the most favorable light consistent with accuracy. This package is not spin — it is organized evidence. It includes:

The pre-event CISI assessment or equivalent security assessment, showing that the organization maintained an active security posture review and understood its risk profile. If the assessment was conducted under privilege, the summary findings can be presented without producing the privileged detail.

The governance documentation: board minutes reflecting cyber risk oversight, formal risk acceptance decisions for known findings, the three Clarity Target designations, the tabletop exercise record. This evidence shows that the organization exercised reasonable governance oversight.

The attestation accuracy review: documentation showing that you reviewed your attestations and corrected any inaccuracies before the event (if you did) or that you have a credible explanation for the gap between attestation and reality (typically the exception accumulation problem described in Chapter 9, which is a governance gap rather than a deliberate misrepresentation).

The response timeline documentation: the contemporaneous log from your incident response, showing that the first calls happened quickly, that notification was timely, and that decisions were made by authorized individuals with appropriate documentation.

The remediation record: documentation of the remediation actions taken in response to prior assessment findings. This is particularly important for findings that overlap with the conditions that contributed to the breach. Demonstrating that you identified a gap, made a documented decision about

it, and were actively remediating it is very different from demonstrating that you had no knowledge of the gap.

## The Negotiation

Most cyber insurance claims are not simply paid or denied — they are negotiated. The carrier presents its forensic findings and initial coverage position. The policyholder presents its counter-position and supporting documentation. The outcome depends on the relative strength of each party's position and on the quality of the legal counsel managing the negotiation.

The most important thing you can do to strengthen your negotiating position is to have done the preparation described in this book. An organization that can present a pre-event CISI assessment, a documented governance program, accurate attestations, and a well-structured response has a fundamentally stronger negotiating position than an organization presenting none of those things.

The second most important thing is to have specialized legal counsel — specifically, counsel with experience in cyber insurance coverage disputes — managing the negotiation. Insurance coverage disputes are a specialized area of law with specific case law, regulatory guidance, and negotiating dynamics. General litigation counsel is not the right choice for this engagement.

### BEFORE YOU CLOSE THIS CHAPTER

1. Before any event occurs, assemble the pre-claim documentation package: CISI findings summary, governance documentation, board oversight records, attestation correction correspondence. Organize it so it can be produced quickly.
2. Identify specialized cyber insurance coverage counsel now — before a claim is filed. Have a relationship established. This counsel should be different from your general litigation counsel.
3. Ensure your incident response documentation captures the contemporaneous log throughout the event, not just after it's over.
4. Review the cooperation clause in your policy with your General Counsel. Develop a plan for how the privilege architecture interacts with the cooperation requirement so that you can cooperate fully on appropriate matters while protecting privileged work product.

**5.** After any significant event, conduct a post-incident review that produces a documented lessons-learned report. This report, presented to the board, becomes part of the governance record for future claims.

**PART SIX**

# **Staying Ready**

The discipline of sustained survivability

## The Quarterly Discipline

*Six months after completing all five stages of the CCSF engagement, Meridian's CISO called to tell me that they'd found three new MFA exceptions in a quarterly attestation review. Not exceptions they'd created — exceptions that had been created by the vendor management team without involving IT security, when three new vendor accounts were set up for a system integration project. In the old model, these accounts would have existed without anyone knowing about them until an assessment found them. In the new model, the quarterly review found them in week twelve. They were fixed before the next insurance renewal.*

Survivability architecture decays. Technology environments change continuously — new systems, new vendors, new staff, new configurations. The organization that achieves a 175 CISI score in January can drift to a 155 score by October without any deliberate change, simply through the accumulation of unmanaged exceptions, uncaptured new assets, and undocumented process drift.

The Stage 5 CyberRes program — the quarterly maintenance discipline — is what prevents that drift. It is not a quarterly security assessment. It is a governance cycle that keeps the four components of survivability architecture current: attestation accuracy, governance documentation, coverage adequacy, and response readiness.

### The Four Quarterly Activities

The first quarterly activity is the attestation accuracy review. This is a focused examination of the top ten to fifteen technical attestations in your current insurance application. For each attestation, pull the relevant evidence: current MFA deployment data from the identity provider, current patch SLA performance data from the vulnerability management platform, current backup restoration test record, current IR plan version date. Compare each piece of evidence to the attestation. Document any gap. Fix any gap that

exists, or document the formal risk acceptance decision for any gap that is being deferred.

This review takes three to four hours of focused work by the CISO and a security analyst, plus a thirty-minute review meeting with the CFO or whoever signs the insurance application. Done quarterly, it prevents the slow accumulation of attestation drift that produces coverage denial. Done annually at renewal, it catches only the gaps that accumulated since the last renewal. Done not at all, it produces the scenario described in the opening of Chapter 2.

The second quarterly activity is the governance documentation update. Review the three Clarity Target designations: are they still accurate? Has the Incident Decision Authority changed roles or left the organization? Has the External Communications Authority been updated to reflect current leadership? Review the Decision Authority Matrix: are the delegation limits still appropriate? Have there been organizational changes that require matrix updates? Review the formal risk acceptance decisions: have any accepted risks been remediated, requiring the acceptance to be closed? Have any new significant findings been deferred without formal risk acceptance, requiring a new acceptance?

The third quarterly activity is the board cyber risk report. This is the quarterly communication to the board that creates the governance oversight record. The report covers: current CISI score trend (this quarter vs. last quarter), active Domain 10 status, open significant findings and their disposition, attestation accuracy status, response readiness status (IR plan currency, tabletop exercise schedule), and any coverage changes since the last report. This report is brief — four to six slides — but it is the document that demonstrates, quarter by quarter, that the board exercised active oversight.

The fourth quarterly activity — conducted annually rather than quarterly — is the governance activation tabletop exercise. This is the scenario-based exercise that tests whether the governance architecture still works: whether the IDA knows their role, whether the privilege framework is current, whether the parallel workstreams can run simultaneously without collision. The annual tabletop is not a briefing. It is a stress test of the architecture under simulated time pressure. The debrief findings go in the governance record.

## Continuous Domain 10 Monitoring

Domain 10 exclusion risks are not static. The insurance market changes. Carriers modify policy language in response to loss experience. The threat landscape shifts — new nation-state actors become active, new supply chain attack vectors emerge, new systemic dependencies develop as technology concentrations evolve. What was an adequately-addressed D10-NS risk two years ago may be an inadequately-addressed risk today if the carrier has modified its nation-state exclusion language at renewal.

Continuous Domain 10 monitoring means reading your policy at every renewal, not just at initial purchase. It means maintaining an active relationship with a broker who understands the current market for cyber coverage in your sector. It means monitoring CISA advisories and insurance industry publications for changes in the threat landscape that could affect your exclusion exposure. And it means revisiting the Domain 10 endorsement conversation at every renewal cycle, even when you believe the issue is resolved.

### BEFORE YOU CLOSE THIS CHAPTER

1. Schedule the quarterly attestation accuracy review on your calendar for the next four quarters. Assign the CISO as owner and the CFO as reviewer. Make it a standing item.
2. Schedule the annual tabletop exercise now. Block the date on the C-suite and board calendars before it becomes displaced by other priorities.
3. Build the quarterly board cyber risk report template. It should be four to six slides. Have the CISO draft it and legal review it. Deliver the first one at the next board meeting.
4. Set a Domain 10 renewal review as a standing item with your broker: at every renewal, specifically review whether your current D10 endorsements are still appropriate given changes in policy language and your risk profile.
5. Track your CISI score quarterly. Build a simple trend line: score this quarter, last quarter, and six months ago. The trend is as important as the absolute number — a declining trend with no obvious cause is itself a finding.

## The Organization That Won't Fail

*I want to tell you about a different phone call. Not a 3 AM crisis call, but a call I received on a Wednesday afternoon from a CFO I'd worked with eighteen months earlier. Her organization had experienced a significant ransomware event two weeks prior — a serious event, affecting sixty percent of production systems, triggered by a phishing email that had made it through their email security. She called not in crisis, but to tell me how it had gone. The first call had been to the right person within fifteen minutes. Legal was engaged in the first hour. The insurance notification was made within twenty-four hours, with their CISI documentation and governance records provided as supporting context. The carrier had asked fewer questions than expected. The board had received a coordinated briefing at hour eighteen. They were restored to full operations in eleven days. The claim had been filed and preliminary coverage had been confirmed. She said: 'It was bad. But it was manageable. I didn't think those words could go together.'*

That call is what this book is about. Not the absence of an event — the presence of a capacity to survive it.

### What Survivability Culture Actually Looks Like

The organizations that perform like the one in the opening of this chapter don't perform that way because of a single program or a single assessment or a single document. They perform that way because cyber survivability has become a genuine organizational capability — built over months and years, maintained through discipline and leadership commitment, and tested regularly so that it works when it needs to.

Building that capability requires a cultural shift that begins with leadership vocabulary. When a CEO uses CISI score as naturally as they use EBITDA, the organization learns that survivability is a measured business outcome, not a technical side project. When a CFO reviews attestation accuracy before signing the insurance application rather than delegating it to IT without

review, the organization learns that insurance honesty is a leadership priority. When a General Counsel insists that every forensic engagement be structured under privilege before any technical work begins, the organization learns that legal protection is non-negotiable.

Culture follows leadership behavior. When the leadership team treats cyber survivability as a genuine governance priority — not a compliance checkbox, not an IT concern, not an annual conversation at renewal — the organization's security team gains the standing, the resources, and the organizational support to do the work that survivability requires.

## **The CISO's Changing Role**

One of the most significant practical consequences of building a survivability culture is the change in the CISO's organizational role. In most organizations, the CISO is primarily a technical operator — responsible for security tools, security monitoring, incident response, and compliance. In survivability-oriented organizations, the CISO is a business risk communicator: responsible for translating the technical reality of the security environment into governance-relevant language that the board, the CEO, and the CFO can act on.

The CISO who says 'we have a gap in our MFA coverage affecting service accounts' is providing a technical finding. The CISO who says 'we have an attestation accuracy gap that, based on our CISI assessment, creates significant probability that our insurance claim would be partially denied in a ransomware event of the scale we're most likely to face, and the cost of fixing this gap is \$40,000 over ninety days versus the potential denied coverage of \$6 million' is participating in governance. These are not the same conversation.

The tools in this book — the CISI framework, the LDI assessment, the governance documentation architecture — are the CISO's instruments for speaking governance language. They translate technical reality into business impact and business decision. CISOs who use them become participants in organizational strategy. CISOs who don't remain technical operators in a context that increasingly requires governance participation.

## The Board's Ongoing Obligation

For directors reading this book, the key message of the closing chapter is this: cyber oversight is now a genuine fiduciary obligation, and the standard for meeting it has been clearly defined. Regular, substantive engagement with cyber risk information. Documentation of that engagement in board minutes. Committee-level assignment of oversight responsibility. Access to independent expertise. Documented response to management accountability.

The quarterly board cyber risk report described in Chapter 21 is the mechanism for meeting this obligation systematically. It is not a long or complex document. Four to six slides, forty-five minutes of board discussion, substantive questions recorded in minutes. Done consistently, it creates the governance record that demonstrates reasonable oversight. Done intermittently or ceremonially, it creates the appearance of oversight without the substance — which is worse than no oversight, because it suggests awareness without action.

Directors who are uncertain about their current cyber oversight posture should ask for the answers to the six board questions from Chapter 3: What is our current CISI score and band? Have our insurance attestations been independently verified? Who is our designated Incident Decision Authority? Has our incident response plan been tested in the past twelve months? What Domain 10 exclusion risks are active? Have all significant security findings received documented disposition? If the management team cannot answer all six questions confidently and specifically, that's the finding that goes on the board's agenda.

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**The organizations that survive are not the ones that were never attacked. They are the ones that were ready for what followed.**

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## A Final Word

I started this book with a phone call at 2:47 in the morning. I want to end it with a different kind of story — one that I hope, if you've done the work this book describes, will be your story.

The attack happens. It's serious. Ransomware, sixty percent of production systems, a Monday morning. The call comes to the right person within fifteen minutes. Legal is engaged before the forensic team begins its work. The insurance carrier is notified within twenty-four hours, with the CISI documentation attached. The board receives a coordinated briefing at hour eighteen. The threat actor gets one negotiation call, with legal on the line, before the ransom decision framework produces a documented decision. Regulatory notifications go out on schedule, with language that legal has reviewed.

Two weeks later, the organization is at eighty percent operational capacity. The claim is filed. The forensic findings, protected by privilege, go to the carrier in the appropriate channel. The carrier's forensic team finds attestations that are accurate and governance documentation that is substantial. The claim negotiation begins from a position of strength.

Eleven weeks later, the claim is substantially paid. The organization is fully operational. The quarterly review identifies three new MFA exceptions created during the recovery period. They are fixed before the next insurance renewal. The board reviews the incident, the response, and the outcome. The minutes reflect substantive engagement. The governance record is stronger for having survived the event.

This is what you are building. Not invulnerability — survivability. The capacity to absorb what follows and remain standing.

## Start today.

### BEFORE YOU CLOSE THIS CHAPTER

1. Review the six board oversight questions. Get them answered, in writing, by your leadership team. The answers tell you your immediate priorities.
2. Identify the one chapter in this book that describes the most significant gap in your organization's current survivability architecture. Start the action items from that chapter this week.
3. Set a twelve-month survivability goal: what is your target CISI score, LDI score, and State of Insurability twelve months from now? Make it specific. Put it on your personal agenda.

- 4.** Tell your General Counsel, CFO, and CISO that you are committing to the survivability architecture described in this book. Leadership commitment is the precondition for everything else.
- 5.** Schedule the first tabletop exercise. It is the single action that most quickly reveals the gap between the architecture on paper and the architecture in practice. Do it within ninety days.

## APPENDIX A

## CISI Domain Reference

The following table provides a concise reference for each of the ten CISI domains: point value, primary assessment criteria, most common findings, and first remediation step. Use this table in conjunction with the CISI assessment process described in Chapter 18.

Domain	Name	Pts	Key Criteria	Common Finding	First Step
D1	Auth & Access Control	25	MFA % complete, PAM, service accounts, access reviews	MFA incomplete; service accounts without MFA or rotation	Pull complete account inventory; compare to MFA enrollment; fix Tier 1 accounts immediately
D2	Endpoint Protection	25	EDR/XDR deployment %, anti-tampering, centralized alerting, mobile coverage	Incomplete EDR; no centralized alerting; uncovered device types	Pull full asset inventory; compare to EDR enrollment; schedule deployment for uncovered assets
D3	Data Governance	20	Classification operational status, data inventory, encryption, DLP, BA agreements	Classification policy not operational; PHI inventory outdated; unencrypted data at rest	Conduct PHI data mapping update; identify unclassified PHI; build classification operational rollout
D4	Network Segmentation	20	Segmentation zones, east-west controls, critical system isolation, zero trust progress	Flat network; no segmentation; unrestricted lateral movement	Document current network architecture; identify critical system isolation gaps; build segmentation roadmap
D5	Vulnerability Management	20	Critical patch SLA compliance, KEV compliance, exception process, scanner coverage	SLA not met; KEV vulnerabilities unpatched; exceptions without risk acceptance	Pull actual SLA performance data; identify KEV gaps; document all exceptions with formal risk acceptance
D6	Backup & Recovery	20	Offline/immutable copies, restoration test record, RTO/RPO, backup monitoring	No restoration test; no offline copies; RTO/RPO undefined	Schedule restoration test immediately; confirm offline backup copies exist; document RTO/RPO

<b>D7</b>	<b>Incident Response</b>	<b>20</b>	IR plan currency, tabletop exercise record, external retainer, playbooks	IR plan >12 months old; no recent tabletop; no retainer	Update IR plan; schedule tabletop within 90 days; establish retainer if not in place
<b>D8</b>	<b>Third-Party Risk</b>	<b>20</b>	Vendor risk tiering, assessment coverage, contractual requirements, access review	No formal vendor risk program; high-risk vendors unassessed; no contractual requirements	Build vendor risk tier list; schedule assessments for Tier 1 vendors; add security requirements to next vendor contract
<b>D9</b>	<b>Governance Risk &amp; Compliance</b>	<b>20</b>	Board cyber reporting, risk acceptance process, ERM integration, committee assignment	No board-level cyber reporting; informal risk acceptance; no ERM integration	Build quarterly board cyber risk report; formalize risk acceptance process; assign committee oversight
<b>D10</b>	<b>Insurer Exclusion Risks</b>	<b>25</b>	D10-NS nation-state exclusion; D10-TP third-party origination; D10-SY systemic event	Active flags on one or more sub-domains; exclusions not discussed with broker	Read policy exclusion section; identify active flags; schedule broker conversation on endorsements

## APPENDIX B

## The Master Preparation Checklist

Use this checklist to track your organization's survivability preparation. Group 1 actions are achievable within thirty days. Group 2 within ninety days. Group 3 within six months. The checklist reflects the full sequence described in this book, including the AI governance and documentation integrity actions introduced in Part Three.

### GROUP 1 — Within 30 Days

- Designate the three Clarity Targets in writing: Incident Decision Authority, Risk Acceptance Owner, External Communications Authority
- Pull and read the complete cyber insurance policy — all exclusions, all attestation requirements, all notice provisions
- Assign named individual as owner of insurance carrier notification
- Conduct the attestation accuracy review: compare top five attestations to actual evidence
- Initiate the MFA inventory: pull complete account directory, identify gaps
- Confirm attorney-client privilege is established for forensic work (or schedule meeting with GC to establish it)
- Establish or confirm external incident response retainer
- Fix Tier 1 MFA gaps: privileged accounts and service accounts without MFA
- Initiate broker conversation on attestation accuracy and Domain 10 exclusion exposure
- Create or update the Cyber Incident Decision Authority Matrix draft
- Commission an AI governance inventory: every AI tool in use across the organization — approved and unapproved — with the data categories being processed by each

## GROUP 2 — Within 90 Days

- Commission CISI assessment (evidence-based, under attorney-client privilege)
- Complete and board-approve the Decision Authority Matrix
- Schedule and complete tabletop exercise with C-suite and legal participation
- Build the ransom decision framework and obtain board approval
- Expand MFA remediation through Tier 2 accounts
- Conduct backup restoration test and document evidence
- Update incident response plan and confirm currency
- Build quarterly board cyber risk report template and deliver first report
- Produce CISI findings and brief board and broker simultaneously
- Initiate Domain 10 endorsement conversations based on specific findings
- Review cyber insurance application against current AI-enabled environment: identify any representations about data handling, access controls, or vendor dependencies that do not reflect the organization's actual state following AI adoptions since the last renewal
- Establish a policy for AI use in compliance artifact generation: any risk analysis, questionnaire response, board report, or attestation document that is substantially AI-generated must be verified against operational evidence before it is submitted or relied upon

## GROUP 3 — Within 6 Months

- Complete full CISI remediation Tier 1–3 roadmap
- Establish Stage 5 quarterly governance cycle (attestation review, governance update, board report, Domain 10 monitoring)
- Complete coverage renegotiation based on CISI findings and attestation corrections
- Achieve target CISI score band (Moderate Denial Risk minimum; Low Denial Risk target)
- Complete LDI governance assessment and reach target score
- Ensure all significant findings have documented disposition (remediation or formal risk acceptance)
- Build the pre-claim documentation package and organize it

- Identify specialized cyber insurance coverage counsel and establish relationship
- Complete vendor risk tier classification and begin Tier 1 vendor assessments
- Complete financial survivability model and confirm financial architecture is adequate
- Conduct a governance document audit: for every formal representation made in the past two years — insurance applications, vendor questionnaires, regulatory certifications, board security reports — evaluate whether current operational reality supports what was represented
- Review all vendor security questionnaires submitted in the past twenty-four months: identify any representations that are materially inaccurate given changes to the organization's security environment, including AI platform adoptions, and establish an update trigger process for future material changes

## APPENDIX C

## Glossary

Definitions for key terms used throughout this book.

Term	Definition
<b>AI Governance Inventory</b>	A formal registry of every artificial intelligence tool in use across the organization — approved and unapproved — documenting the data categories being processed by each tool, the vendor relationship, applicable retention and security terms, and the business function it serves. The AI governance inventory is the prerequisite for evaluating AI-related exposure in insurance applications, vendor questionnaire representations, and post-incident investigations.
<b>AI-Generated Compliance Artifact</b>	A governance document — such as a HIPAA risk analysis, SOC 2 control narrative, vendor questionnaire response, board security report, or policy attestation — that was substantially produced using AI tools. AI-generated compliance artifacts carry a specific exposure risk: they can be comprehensive, internally consistent, and professionally written while describing controls that do not operationally exist. Any AI-generated compliance artifact submitted to an external party or relied upon in a governance context must be verified against operational evidence before that reliance occurs.
<b>Attestation Accuracy</b>	The degree to which representations made in a cyber insurance application accurately reflect the organization's actual security control state, as evidenced by system data rather than organizational belief.
<b>CCSF (Cybantage Cyber Survivability Framework)</b>	The five-stage Cybantage organizational framework: Stage 1 Score (CISI), Stage 2 Expose (LDI + Executive Exposure), Stage 3 Protect (Privileged Forensic Review), Stage 4 Verify (Forensic Deep Dive), Stage 5 Build & Sustain (CyberRes).
<b>CISI (Cyber Insurance Survivability Index)</b>	215-point, 10-domain scoring instrument measuring an organization's security control state against insurance coverage adequacy criteria. Score bands: 175–215 Low Denial Risk; 145–174 Moderate Denial Risk; 115–144 High Denial Risk; below 115 Critical Denial Risk.
<b>CyberRes</b>	The Stage 5 CCSF quarterly governance maintenance program that sustains the organization's survivability posture through attestation accuracy reviews, governance updates, board reporting, and Domain 10 monitoring.

<b>D10-NS / D10-TP / D10-SY</b>	The three Domain 10 sub-domains: Nation-State Attribution Risk (D10-NS), Third-Party Origination Risk (D10-TP), and Systemic Event Risk (D10-SY). Each represents a category of policy exclusion that can void coverage regardless of the organization's overall security control quality.
<b>External Communications Authority (ECA)</b>	One of the Three Clarity Targets: the sole designated individual authorized to communicate externally about a cyber event or security issue. All external communications — media, regulatory, customer, partner — must be authorized by the ECA during an active incident.
<b>Governance Document Audit</b>	A structured review of every formal governance representation an organization has made over a defined period — typically two years — including insurance applications, vendor questionnaires, regulatory certifications, and board security reports. The purpose is to identify gaps between what was represented and what the current operational environment would show under forensic examination. The governance document audit is a Group 3 preparation action and an ongoing obligation whenever the security environment changes materially.
<b>Incident Decision Authority (IDA)</b>	One of the Three Clarity Targets: the single individual with final authority to make binding decisions during an active cyber event. Pre-designated and documented before any event.
<b>LDI (Leadership Defensibility Index)</b>	100-point assessment of the executive leadership team's cyber governance architecture across seven Cyber-Aware Executive Leadership dimensions, producing the Three Clarity Target designations and governance gap analysis.
<b>Privilege Wrapper Architecture</b>	The legal engagement structure under which security assessments and forensic investigations are conducted under attorney-client privilege — meaning findings are potentially protected from compelled third-party discovery in regulatory proceedings and litigation.
<b>Risk Acceptance Owner</b>	One of the Three Clarity Targets: the individual or body with formal authority to accept residual cyber risk — including decisions to defer remediation — with documented, signed decisions.
<b>Three Clarity Targets</b>	The three governance designations required before any significant cyber event: Incident Decision Authority, Risk Acceptance Owner, and External Communications Authority.
<b>Three States of Insurability</b>	The three positions an organization can hold relative to cyber insurance payability: State 1 (Verifiable Insurability — coverage will pay), State 2 (Conditional Insurability — coverage will pay for some events), State 3 (Structural Uninsurability — coverage will not pay for the scenarios most likely to occur).
<b>Vendor Questionnaire Representation</b>	A formal representation of security posture made by a vendor to a client through a structured security questionnaire. Vendor questionnaire representations are incorporated by reference into master service agreements as warranties. When a representation is

	<p>inaccurate and the client suffers loss as a direct result, the warranty is breached. The individuals who completed, approved, or signed the master agreement incorporating inaccurate representations carry personal exposure through the same mechanisms described for insurance application attestations. Representations remain in effect for the duration of the contract and must be updated when the security environment changes materially.</p>
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