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# Information Risk Management Essentials

*March 17, 2015*

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# Discussion Flow



1. Introduction - Bob
2. Setting / Situation / Challenges - Kathy
3. Turning Point (Information Risk Management Maturity) – Kathy & Bob
4. Call to Arms – Kathy & Bob





***“First, Do No Harm.”***

***-Hippocrates, 4<sup>th</sup> Century, B.C.E.***

***OR***

***-Auguste François Chomel (1788–1858),  
Parisian pathologist and clinician***



***It’s a Patient Safety / Quality of Care Journey ...  
Not a HIPAA Compliance Destination***

## The Risk Problem We're Trying to Solve



What if my Protected Health Information is shared? With whom?  
How?

**CONFIDENTIALITY**

**PHI, PII  
Credit Card,  
Intel. Prop.**

**INTEGRITY**

What if my Protected Health Information is not complete, up-to-date and accurate?

**Don't  
Compromise  
C-I-A!**

**AVAILABILITY**

What if my Protected Health Information is not there when it is needed?

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## Sentara Background



SENTARA  
HEALTHCARE

- 125-year not-for-profit history
- Headquartered in Norfolk, VA Sentara includes 12 hospitals, 5 medical groups, 3,800-provider medical staff, Optima Health plan, Advanced imaging centers, Home health and hospice, Nightingale air ambulance, Rehab and therapy centers, Nursing and assisted living centers
- Ranked as one of the nation's top integrated healthcare systems by Modern Healthcare magazine for more than a decade.



**Complexity, High-Growth, Lots of End Points**



## Setting / Situation



1. Narrowly Focused IT Security Efforts
2. Silo-ed Risk Assessment approach:  
business line / focus area
3. Multiple Roles & Hats: Care Provider,  
Health Plan, Business Associate,  
Vendor
4. Increasing Participation in Federal  
Programs
5. Meaningful Use Attestations



OCR Transaction Number: [REDACTED]

Page 4

**INITIAL DATA REQUEST**

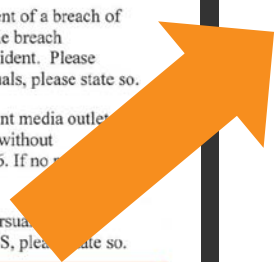
In connection with OCR's investigation into the matters raised by the breach report, we request that [REDACTED] provide the following information to OCR within ten (10) business days from receipt of this letter. Please number responses to correspond with the enumerated requests. Electronic copies are encouraged. Please no staples or double-sided pages.

1. The name, title, email address, mailing address, and telephone number of the individual(s) designated to work with OCR during the subject investigation.
2. Please indicate if [REDACTED] conducted an internal investigation of the incident. If so, please provide a copy of its finding. Please also provide any corroborating documentation, such as interview notes, police reports, forensic reports, access logs, etc.
3. Please state how many individual's PHI was disclosed via the unsecured FTP server.
4. Please provide [REDACTED] policies and procedures to ensure PHI is safeguarded (45 C.F.R. § 164.530(c)), as well as policies and procedures related to impermissible uses and disclosures (45 C.F.R. §164.502(a)). Indicate the dates of implementation and any redrafting of the policies, since April 14, 2003.
5. Please indicate any and all steps taken to mitigate the potential harm caused by the impermissible disclosure of PHI on the unsecured FTP server.
6. Please provide [REDACTED] policy on notifying individuals in the event of a breach of PHI. (45 C.F.R. §§ 164.404). Please also provide a sample copy of the breach notification letter that was issued to affected patients regarding the incident. Please include the dates of notification. If no notification was sent to individuals, please state so.
7. Please provide evidence that [REDACTED] provided notice to a prominent media outlet. The evidence should include documentation that notice was provided without unreasonable delay and within the requirements of 45 C.F.R. §164.406. If no notice was sent to the media, please state so.
8. Please provide evidence that [REDACTED] provided notice to a HHS pursuant to the requirements of 45 C.F.R. §164.408. If no notification was sent to HHS, please state so.
9. Please submit a copy of [REDACTED] most recent risk analysis, as well as a copy of all risk analyses performed for or by [REDACTED] within the past 6 years pursuant to 45 C.F.R. § 164.308(a)(1)(ii)(A). If no risk analysis has been performed, please state so.



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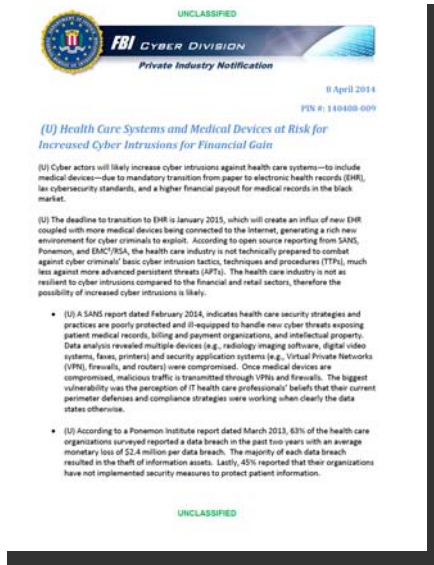
*“9. Please submit a copy of XYZ Hospital’s most recent risk analysis, as well as a copy of all risk analyses performed for or by copy XYZ Hospital within the past 6 years pursuant to 45 C.F.R. § 164.308(a)(1)(ii)(A). If no risk analysis has been performed, please state so.*”



# Recent FBI Healthcare Alerts: April / August 2014



*“Because the healthcare industry is not as “resilient to cyber intrusions [as] the financial and retail sectors, therefore the possibility of increased cyber intrusions is likely”*



*“...observed malicious actors targeting healthcare related systems, perhaps for the purpose of obtaining Protected Healthcare Information (PHI) and/or Personally Identifiable Information (PII).”*

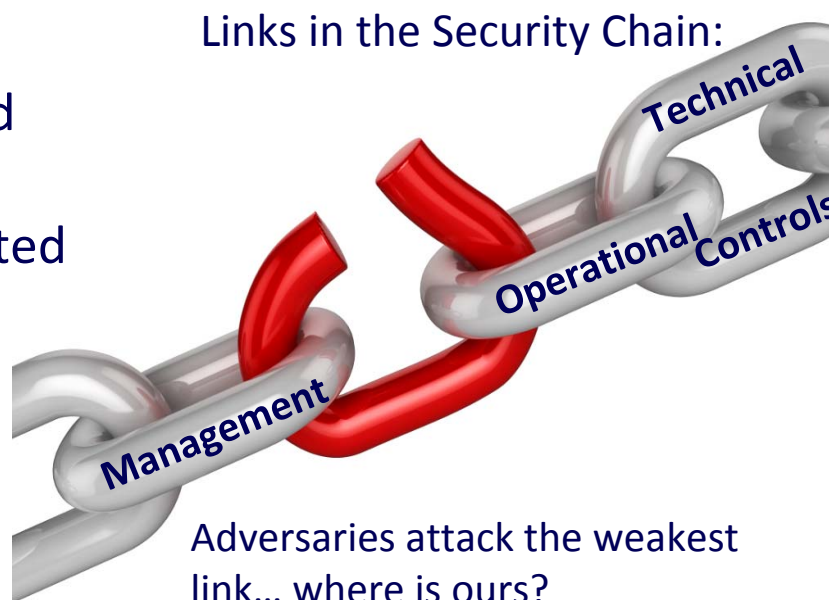


**Healthcare is the Next Cyber Security Battleground**

## Priorities / Challenges – December 2013



1. *Un-quantified Risk = Undefined Risk Tolerance*
2. Distributed Security Functions and Responsibilities
3. Flat Landscape: Everything is treated Equal
4. Framework and Strategy
5. Information Security Integration: business, workforce, organization risk
6. Governance



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## Turning Point – Q4 2014



1. Set Strategy and Vision
2. Identified and Vetted Candidate Partners
3. Choose Partner with Compatible Vision / Strategy to Create a Platform and “Teach Us How to Fish”
4. Adopted NIST Framework

### Here's What We Heard You Say & CLEARWATER COMPLIANCE

- Looking for a Partner to Implement in Phases and Make Organization Self-Sufficient:
  - I. PARTNER TO DO ONE FOCUSED RISK ASSESSMENT;
    - A. SHOULDER-TO-SHOULDER-AND-OJT-/KNOWLEDGE-TRANSFER-
    - B. FOCUSED-ON-FACILITY-OR-REGION-
  - II. PARTNER TO ASSESS / REVIEW / GUIDE Teach us how to fish...
  - III. WITHIN 2014, TAKE LEAD IN FULL-BLOWN RATION ENTERPRISE DATA CENTER Repeat I.
    - A. MOVING-NOW, -SO-MUST-POSTPONE-UNTIL-MOVE-COMplete

## Embraced Information Risk Management Capability Advancement Model™ (IRMCAM™)

## Actions Taken

1. Assigned Responsibility and Authority
2. Formed Clearwater Partnership
3. Defined Program Elements:  
categorize, select, implement, assess,  
authorize, monitor (begin again)
4. Centralized Documentation
5. Standardized Tracking and Reporting  
Protocols
6. Engaged Leadership
7. *Assessed Maturity Level*



# Outcomes



1. Completed Bona Fide Risk Analyses:
  - A. 11 Hospitals
  - B. 133 EPs
2. Added Staff
3. Knowledge Transfer Started
4. Reporting Format Created
5. Established Governance
6. Executive Dashboard Under Development



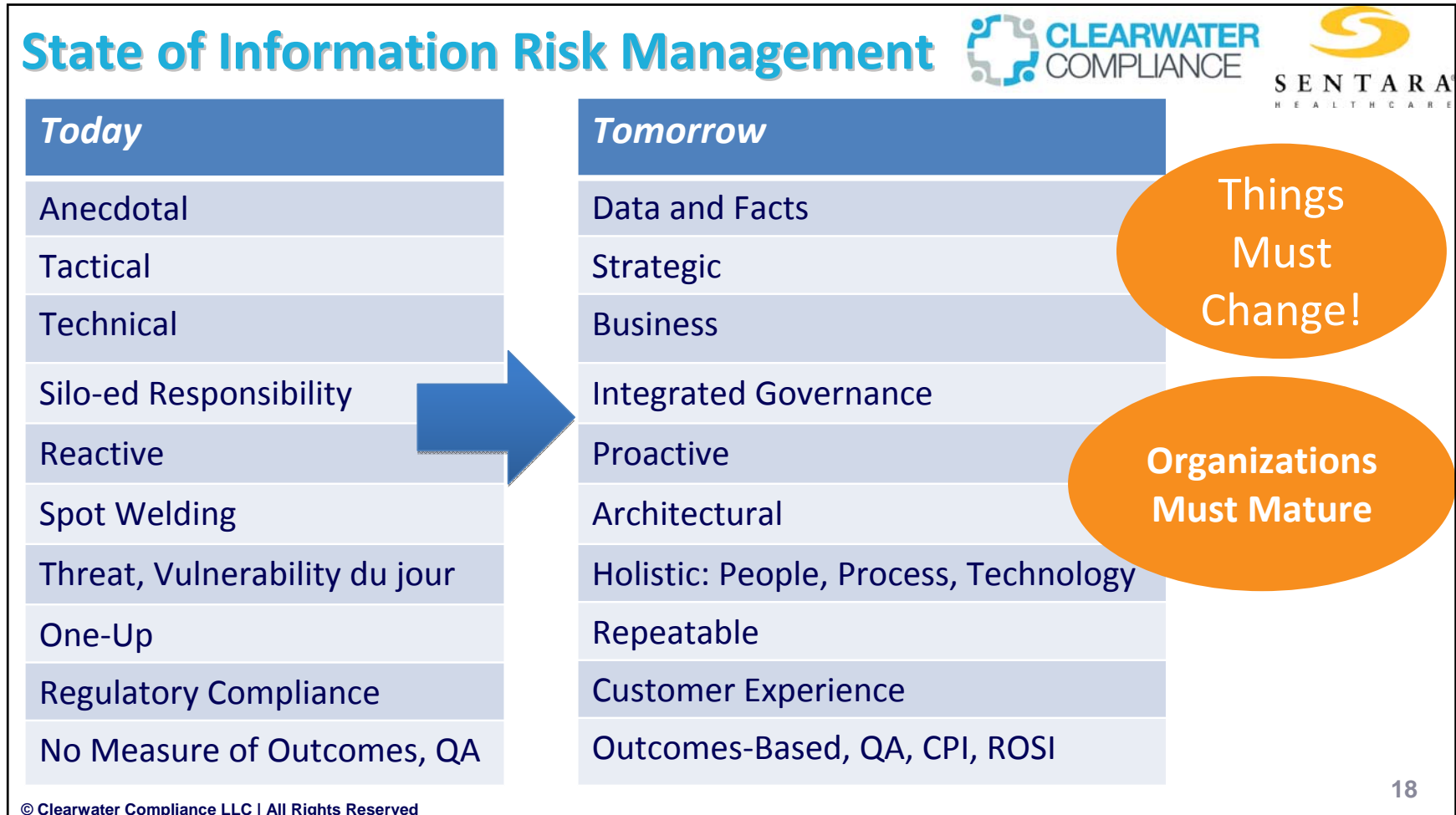


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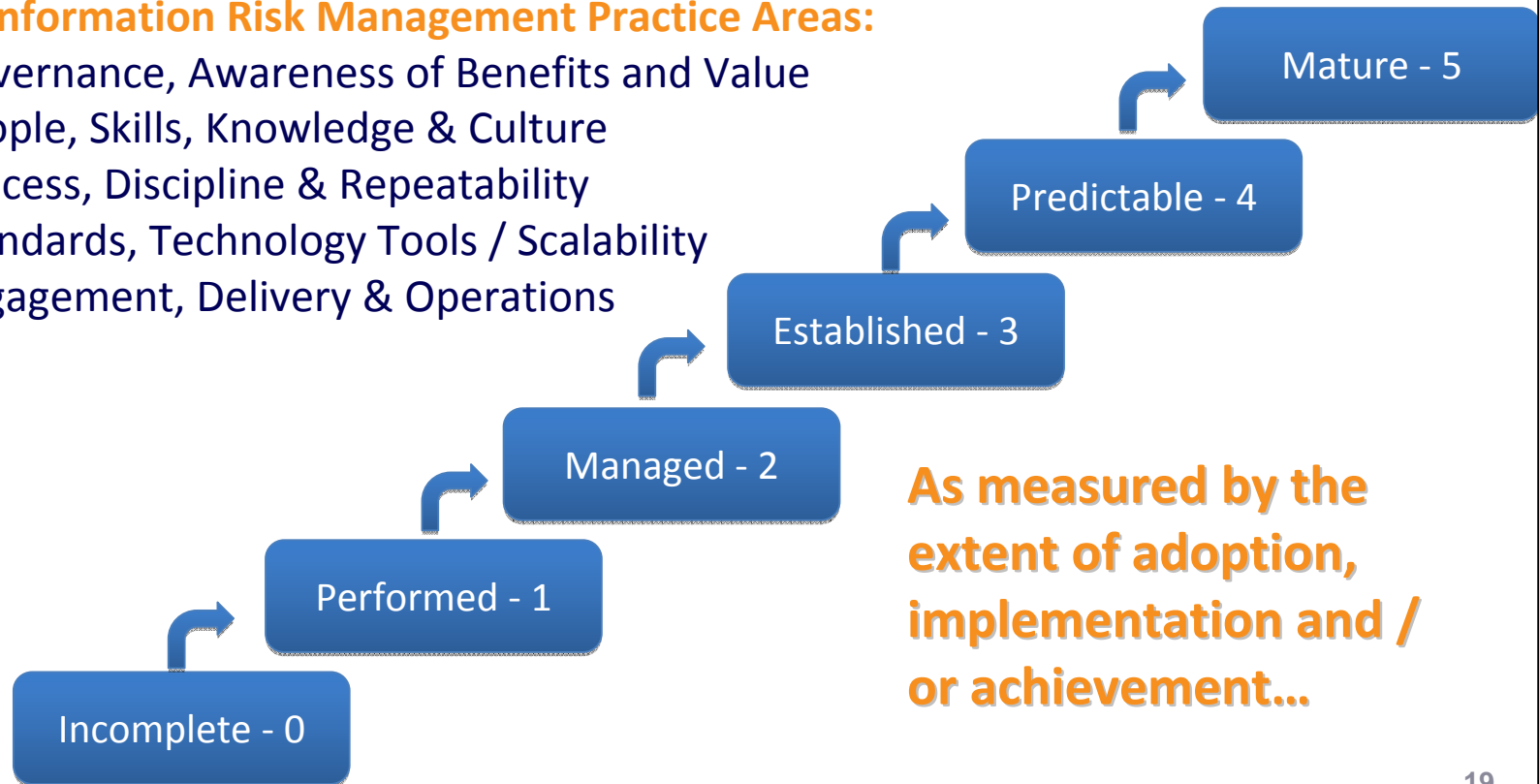


## IRMCAM Index (IRMCAMi™) and Levels



### Key Information Risk Management Practice Areas:

1. Governance, Awareness of Benefits and Value
2. People, Skills, Knowledge & Culture
3. Process, Discipline & Repeatability
4. Standards, Technology Tools / Scalability
5. Engagement, Delivery & Operations



**As measured by the extent of adoption, implementation and / or achievement...**

		RISK MANAGEMENT IMPLEMENTATION MATURITY					
		Incomplete-0	Performed-1	Managed-2	Established-3	Predictable-4	Mature-5
KEY RISK MANAGEMENT PRACTICE AREAS	Engagement, Delivery & Operations	None	Some (ad hoc), Insufficient resources	Have framework & active when time permits	Becoming a Formal program	Formal program	Embedded in decision making, CPI
	Use of Standards, Technology Tools / Scalability	Not Using	Aware but Not Formalized Use	Using selectively	Using, repeatable results	Regular use, outcomes consistent	Sound understanding, consistent use of tools
	Process, Discipline, & Repeatability	No PnPs, formal practices	Some execution, no records or docs.	Some PnPs, docs; not consistently followed	Formal PnPs and doc, widely followed	Robust, widely adopted PnPs	Formal, continuous process improvement
	People, Skills, Knowledge & Culture	Little knowledge	Some risk skills training in parts of organization	Good understanding across parts of organization	Knowledge across most of organization	Sound knowledge of discipline and value	High degree of knowledge; refinement
	Governance, Awareness of Benefits and Value	Unsure of benefits; no executive focus	Aware of risk, but not clear on benefits	Aware of some benefits	Aware of most benefits; value realized	Aware of benefits and deployed across the organization	Incorporated into business planning and strategic thinking

ts Reserved

## Latest White Paper

### Industry Advisors

- David Finn | Health IT Officer | Symantec
- Meredith Phillips | Chief Information Privacy & Security Officer | HFH
- Eric Bergen | Independent Consultant
- Sam Homer, Ph.D. | Healthcare Technology Strategist | HCSC
- Kathy Jobses | CISO | Sentara Healthcare
- Ed Schreibman | Vice President of Healthcare Compliance | Expert Global Solutions, Inc.
- Ian Johansson | Corporate Compliance Officer | Aloha Care
- Deborah Schlesinger | Director Corporate Risk Management | SCAN Health Plan
- Adam Greene, JD | Attorney | Davis, Wright and Tremaine
- Matt Hanis | Vice President | Lockton
- Scott Blanchette | CIO | Kindred Healthcare
- Kyle Duke | CIO | TN Division of Health Care Finance & Administration
- Chris Dansie, Ph.D. | Assistant Professor | University of Utah

<http://clearwatercompliance.com/thought-leadership/irmcam/>

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# Clearwater Risk Management Capability Maturity Model Index (IRMCAMi™) – V4



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**CLEARWATER COMPLIANCE**  
Clearwater Information Risk Management Capability Advancement Model™  
(IRMCAM™) Assessment\_V4  
Risk Management Governance

Governance is usually defined as a system of processes and controls that ensures that stakeholder needs, conditions and options are evaluated to determine balanced, agreed-upon enterprise objectives to be achieved; setting direction through prioritization and decision making; and, monitoring performance and compliance against agreed-upon direction and objectives.

Risk Management Governance is a strategic business practice area that is part of overall governance and ensures that:

- Risk management activities align with the enterprise's opportunity and loss capacity and leadership's subjective tolerance of it; and,
- The risk management strategy is aligned with the overall business strategy

In organizations that are information risk-mature, enterprise decisions consider the full range of (risk) opportunities and consequences. Furthermore, risk-mature organization understand and derive value from their information risk management program.

Assess your risk management governance by answering the questions below.

**I. For each statement below, on the scale from 0% to 100%, please indicate the extent or degree to which your organization has adopted or has implemented the practice indicated. (0% indicates no adoption/implementation; 20% minimally; 40% partially; 60% largely; 80% almost; and 100% indicates full adoption/implementation.) \***

	0%	20%	40%	60%	80%	100%
The board or governance body has issued formal, written guidance for information risk management. *	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There is awareness of all external requirements (e.g., regulatory, customer, etc.) for information risk management in the organization. *	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Information risk management is viewed as a business enabler. *	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There is recognition of the need to actively manage information risk in the organization. *	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The board or governance body has defined the organization's information risk appetite and risk tolerance across the organization. *	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The organization's information risk tolerance threshold is, defined by considering the risk appetite, applied to each organizational objective. *	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Senior executives consider all aspects of information risk in their decisions. *	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

1. Prepare to use the Clearwater Information Risk Management Capability Maturity Model™.
2. Set the desired information risk management maturity level for the organization.
3. Complete the Clearwater Information Risk Management Capability Maturity Model Index™ tool
4. Identify any gaps that may exist between the desired state of maturity and the current state.
5. Assess all identified gaps that may exist between the desired and the current state.
6. Rank order identified gaps and remediate the highest priority gaps.
7. Document results and repeat the assessment periodically.

# Contact



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