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Ingredients of a Holistic Approach to Information Security Risk Management

Presented by

Gerry Blass, ComplyAssistant and Mike Chirico, Sensato



TRANSFORMING HEALTHCARE THROUGH IT



> Background Information
> Breaches and Incidents
> Holistic Approach
> CyberSecurity
> Summing it Up



Gerry Blass

- President & CEO of ComplyAssistant
- Gerry Blass brings over 30 years of experience in healthcare information technology. Prior to ComplyAssistant, Gerry was the Chief Information Security Officer (CISO) for a major healthcare system in New Jersey.
- In 2002 Gerry founded ComplyAssistant to provide software and service solutions for HIPAA and IT strategic planning. Today, ComplyAssistant provides software and service solutions to over 100 healthcare organizations with a focus on compliance regulations, including HIPAA-HITECH-OMNIBUS, PCI, HITRUST, Meaningful Use, Accreditation, OIG (federal and state), Conflict of Interest, and other federal and state healthcare regulations.
- Gerry is an active member of HIMSS and participates in national and various chapter events. Gerry contributes to industry publications and actively shares content in HIPAA 411, a LinkedIn group he co- founded, along with many other related LinkedIn groups. Gerry presents at industry association events, including HIMSS, HFMA, AITP, NCHICA, and HCCA. Gerry was recently elected to the New Jersey HIMSS Board of Directors, and heads up the Security, Privacy and Compliance Task Force.

Mike Chirico Bio and Pic



Mike, a privacy and security attorney, has over twenty years of experience with various public accounting firms, including several Big Four firms, providing a broad range of advisory services including IT General Control audits, business process redesign and improvements, internal audit co-sourcing, pre & post implementation reviews, business continuity and disaster recovery, Sox 404 Compliance, and Service Organization Control Reporting. Mike is also an attorney in New Jersey.

Additional experience includes: documentation, controls rationalization, compliance testing and reporting; extensive experience evaluating, designing and managing IT audit methodologies; Performed Service Organization Control testing & reporting (SOC One & Two). Mike has assisted many clients with evaluating and re-engineering IT policy & procedure taxonomy to satisfy regulatory scrutiny.

holistic

Holistic means encompassing the whole of a thing, and not just the part. *Holistic* medicine looks at the whole person for answers, not just at physical symptoms.



Background Information

Seems easy from 30,000 Feet



And more complicated up close!



- Lack of organizational mandates and oversight
- Political obstacles
- Lack of adequate \$\$ and human resources to mitigate risk
- Policies for the most part were not fully operational and evidence documentation is not organized or does not exist

Results

- Increased data breaches
- Government audits were no longer reactive, but also proactive
- HITECH (2009)
- Omnibus (2013)
- Increased penalties and lawsuits for both CEs and BAs
- Orange is the new black

To know where we are and where we are going....

We need to look at where we have been...Yogi Berra?

1970s & 80s Evolution



1970s & 80s I Evolution





1970s & 80s I Evolution



Low Access - High Security:

- Identifiable health information mainly in 3 places - on a main frame computer located in a secure computer room, on back up tapes at an offsite location, and on hard copy
- User workstations were "dumb"
- Access to information was limited
- Potential risk was much lower mainly hard copy charts, reports and screen prints

Low Access - High Security:

- Motivation for unauthorized access for monetary gain was low
- Most unauthorized access was due to workforce concern for fellow employees, neighbors, etc..

| 990s Evolution

Intelligent Workstations (Clients) with Graphical User Interface (GUI)





The PC and Internet Storm:

- A numbers game
- Identifiable information in many places, unprotected
 - Lans and wans
 - Distributed servers
 - Smart workstations
 - ► Email
 - ► CDs

With reluctance, Arthur Ashe says he has AIDS Tennis pioneer criticizes tip to press that forced revelation.



April 09, 1992 | By Susan Reimer | Susan Reimer, Staff Writer

Arthur Ashe, a pioneering black man in professional tennis and an eloquent activist in issues of race and sports, said yesterday that he has AIDS.

"I have AIDS," he said. "I am sorry that I have been forced to make this revelation now, at this time."



The PC and Internet Storm:

- Arthur Ashe's PHI disclosed to the Enquirer
- Motivation increased for unauthorized access for monetary gain
- HIPAA signed into law in 1996
- By then, the technology storm made access to PHI easier which was good for providing care, but bad for information security

 The "Hurricane of Technology" during the 1990s created geometric numbers of locations of PHI that have certainly contributed to the large number of breaches today

- The 2000's Evolution





The 2000's Evolution



Evolution - The 2000's



The 2000's N Evolution



Population Health Drives IoT

Service Delivery via the Internet of Things



•Source: Semantic Scholar - BSN-Care

Population Health - Disruption Starship Enterprise Security Scanner

A new ecosystem of disruptive business models must arise



Source: mnhospitals.org

Breaches / Incidents



- Since 2009, there has been a large increase with healthcare organizations migrating from hard copy to electronic medical records
- Much of it was done with a major focus on meeting Meaningful Use measures for \$\$ incentives
- The secondary focus in many organizations, especially smaller ones, was on information security
- In some cases a simple checklist was completed to be able to check the box on the measure that required an SRA
- As a result, the attackers considered healthcare to be a prime target



NOTABLE HEALTHCARE BREACHES





June 2017 - "We have no indication that customer data has been lost or removed from our network. We have made rapid progress in restoring our systems safely with enhanced security. As computers and systems are brought back online, we are adding further security controls as we work to restore full functionality for our customers".


140 million plus records breached!!

Admin, Admin !!

Holistic Approach

WHERE IS YOUR PHI?







Data in transit

Data at rest

Data in use

Need to protect against threats!



ELEMENTS OF AN HOLISTIC

Security Risk Assessments (SRAs)

- Rule Assessment
- Administrative Audits / Exercises
 - PHI locations and controls
 - Threat assessment
 - Policies and procedures
 - Proactive Recurring Audits
 - ► E.g. Employee and Third Party Vendor (BA) termination notifications
 - ► Facilities
 - Third Party Vendors (BAs) SRAs
 - Medical Device Vendors
 - Other MEDIUM to HIGH RISK BAs
- Technical Testing and controls
- Exercises
 - Disaster Recovery and Business Continuity
 - Cybersecurity

Rule Assessment

Part 164 - Security and Privacy
164 - Subpart C - Security Standards for the Protection of Electronic Protected Health Information
164.308 - Administrative safeguards.
164.308(a)(1)(i) - Security Management Process
164.308(a)(1)(ii)(A) - Risk Analysis (Required)
164.308(a)(1)(ii)(B) - Risk Management (Required)
164.308(a)(1)(ii)(C) - Sanction Policy (Required)
164.308(a)(1)(ii)(D) - Information System Activity Review (Required)
164.308(a)(2) - Assigned security responsibility.
164.308(a)(3)(i) - Workforce security
164.308(a)(3)(ii)(A) - Authorization and/or supervision(Addressable)
164.308(a)(3)(ii)(B) - Workforce clearance procedure (Addressable)
164.308(a)(3)(ii)(C) - Termination procedures (Addressable)
164.308(a)(4)(i) - Information access management.
164.308(a)(4)(ii)(A) - Isolating health care clearinghouse functions (Required)
164.308(a)(4)(ii)(B) - Access authorization (Addressable)
164.308(a)(4)(ii)(C) - Access establishment and modification (Addressable)
164.308(a)(5)(i) - Security awareness and training.
164.308(a)(5)(ii)(A) - Security reminders (Addressable)
164.308(a)(5)(ii)(B) - Protection from malicious software (Addressable)
164.308(a)(5)(ii)(C) - Log-in monitoring (Addressable)
164.308(a)(5)(ii)(D) - Password management (Addressable)
164.308(a)(6)(i) - Security incident procedures.
164.308(a)(6)(ii) - Response and Reporting (Required)
164.308(a)(7)(i) - Contingency plan.
164.308(a)(7)(ii)(A) - Data backup plan (Required)
164.308(a)(7)(ii)(B) - Disaster recovery plan (Required)
164.308(a)(7)(ii)(C) - Emergency mode operation plan (Required)
164.308(a)(7)(ii)(D) - Testing and revision procedures (Addressable)
164.308(a)(7)(ii)(E) - Applications and data criticality analysis (Addressable)
164.308(a)(8) - Evaluation.
164.308(b)(1) - Business associate contracts and other arrangements.
164.308(b)(3) - Written contract or other arrangement (Required)

Rule Assessment

Part 164 - Security and Privacy

164 - Subpart C - Security Standards for the Protection of Electronic Protected Health Information

164.310 - Physical safeguards.

164.310(a)(1) - Facility access controls.

164.310(a)(2)(i) - Contingency operations (Addressable)

164.310(a)(2)(ii) - Facility security plan (Addressable)

164.310(a)(2)(iii) - Access control and validation procedures (Addressable)

164.310(a)(2)(iv) - Maintenance records (Addressable)

164.310(b) - Workstation use.

164.310(c) - Workstation security.

164.310(d)(1) - Device and media controls.

164.310(d)(2)(i) - Disposal (Required)

164.310(d)(2)(ii) - Media re-use (Required)

164.310(d)(2)(iii) - Accountability (Addressable)

164.310(d)(2)(iv) - Data backup and storage (Addressable)

Rule Assessment

Part 164 - Security and Privacy

164 - Subpart C - Security Standards for the Protection of Electronic Protected Health Information

164.312 - Technical safeguards.

164.312(a)(1) - Access control.

164.312(a)(2)(i) - Unique user identification (Required)

164.312(a)(2)(ii) - Emergency access procedure (Required)

164.312(a)(2)(iii) - Automatic logoff (Addressable)

164.312(a)(2)(iv) - Encryption and decryption (Addressable)

164.312(b) - Audit controls.

164.312(c)(1) - Integrity.

164.312(c)(2) - Mechanism to authenticate electronic protected health information (Addressable)

164.312(d) - Person or entity authentication.

164.312(e)(1) - Transmission security.

164.312(e)(2)(i) - Integrity controls (Addressable)

164.312(e)(2)(ii) - Encryption (Addressable)

164.314 - Organizational requirements.

164.314(a)(1) - Business associate contracts or other arrangements.

164.314(a)(2)(i) - Business associate contracts (Required)

164.314(a)(2)(ii) - Other arrangements (Required)

164.314(a)(2)(iii) - Business associate contracts with subcontractors. (Required)

164.314(b)(1) - Requirements for group health plans.

164.314(b)(2)(i)-(iv) - Requirements for group health plans. (Required)

164.316 - Policies and procedures and documentation requirements.

164.316(a) - Policies and Procedures.

164.316(b)(1) - Documentation.

164.316(b)(2)(i) - Time limit (Required)

164.316(b)(2)(ii) - Availability (Required)

164.316(b)(2)(iii) - Updates (Required)

Potential PHI Locations

- With PHI potentially in so many places today, the first step is to inventory all potential locations:
 - Portable devices
 - Multi-user workstations in public settings
 - Single user workstations
 - Servers
 - Medical Devices
 - Remote access
 - Cloud remote hosts
 - Wi-Fi
 - Emails
 - Copiers

Potential PHI Locations

- With PHI potentially in so many places today, the first step is to inventory all potential locations:
 - External hard drives
 - Backup tapes
 - BYOD
 - Hardcopy and electronic disposal
 - Other electronic transmissions

Potential PHI Locations

- With PHI potentially in so many places today, the first step is to inventory all potential locations:
 - Affiliated organizations such as:
 - ► HIEs
 - ACOs
 - Third party business associates (BAs)
 - Population Health
 - Internet of Things
 - TeleHealth / TeleMedicine
 - Patient Portals



Need to Analyze and Document

For each location examine and document:

Current controls

Administrative (e.g. workforce training, etc..)

Physical (e.g. Facility Security Plans)

Technical (e.g. Controls and Testing)

Organizational (e.g. Policies and Procedures)

Future Plans

► Gaps

- Risk likelihood and impact
- Risk mitigation plan

PHI Vulnerability Assessment

A	5	C	D	E	F	G	н	1	J	K.	L	M
				Gaps		2017 Risk Level		D : 1 1		Mitigate /		
Turne	Status / Cantrala	Commonto	Eutore Dian	(Y or	Gap	(L - Low, M - Medium, H -		im, H -	RISK Level	Risk	Action	Mitigation
туре	Status / Controis	Comments	Future Plan	N)	Description	Likelihood	lign)	Dick	#DIV/01	Comment	(T, N, NA)	Recommendation
Email	Transport Layer Security (TLS) which encrypts the tarned or the route between email servera, CE implemented email encrypts onlution using fortimal. In order to help prevent smooping and eavesdropping					Lineiniood	mpuer	TUSK				
Mobile devices (laptops, tablets, smartphones)	IPhones and purchased Apple Mobile Device manungement software (MDM). Croce a phone is enrolled, IT can remotely push updates and wipe phone cut if compromised.											
USB flash drives, CD's and external hard drives.	we obtained the concern of the set of the se											
Multi user workstations - Generic (e.g. used by nursing, medical record coders, etc.)	workstation setup was rolled out to the units where users share PCs. The shared PCs are locked down and unique user ide and passwords are mandatory. Generic IDs have been eliminated. Screen Savers the outs set at xx minutes) are being pushed on all Workstations as another security measure.											
Single user workstations	user workstations, CD ROMs and USB ports are locked down on those workstations											
Backup tapes	redundancy backup for few important servers we do use tapes for back up. They are rotated and stored in a different building on campos. The tapes are slored inside a cabinet with a combination lock, in a room with a locking entry door. Only technical and operational staff have access to the back-up tapes. Back-up tapes are rotated on a daily basis and slored for an entire month. 30 tapes are topic in storage. Tapes are written over at the end of their 30 day cycle											
	Computer room, 1 at Main room, 1 at the hallway that leads to the Main Computer room. Those Comercia are being monitored 24 x 7 by CE Security department and MS Helpdeixld Comercia were installed at critical locations, 2 at main Computer room, 1 at Main room, 1 at the hallway that leads to the Main Computer room.											
Servers on facility network.	Those Cameras are being monitored 24 x 7 by CE Security department and MIS Helpdeak											

PHI Vulnerability Assessment

A	5	C	D	E	F	G	н	1	J	K.	L	M
				Gaps		2017 Risk Level				Mitigate /		
				(Y or	Gap	(L-Low, M-Medium, H-		ım, H -	Risk Level	Risk	Action	Mitigation
Туре	Status / Controls	Comments	Future Plan	N)	Description	High)			Score	Comment	(Y, N, NA)	Recommendation
						Likelihood	Impact	Risk	#DIV/0!			
Remotely nosted												
databases (Servers												
external to the ORG	Current SSAE16 documents for remotely hosted											
network)	databases has been obtained and reviewed by CE											
Wireless transmission -	A policy and procedure for CE Guest Network access has											
Internal / WIFI	been provided											
Remote access	Citrix Remote access from Outside CE Instructions and											
transmission	rules is given to any user granted access. Uploaded in CA											
ePHI sent to third parties	VPN connection. Any data sent via email is encrypted.											
	Portal risk been instance and used tomatements to log in											
Patient portal (If	securely (unique userid and password) and view their personal medical information. Passwords must be											
applicable)	changed every 90 days.											
	Contrast a contract with an outpace windor for hardcopy discoveral for the last 6 years. I school abredding hims are											
Hardcopy PHI disposal /	located throughout the facility and emptied periodically by											
storage	the vendor											
Clinical Engineering	Endpoint DLP and Data Discovery Agent, Hard Drive											
devices	Shredding , RTLS Tracking											
	assigned by department. CE owns the copiers and has a											
Copiers	service contract											
	at rest and in transit (task for EMR data at rest), internal											
	network subseability management, finewalls, internal											
	intrusion detaction system, retwork security monitoring, security management via patch management. Symaniac											
	endpoint security, Qualys, application and network											
Cyber Security	monitoring, and email privacy scanning											
Medical Devices	finwalls											
BYOD	No cutate devices are allowed to access information from the CE server											
Electronic media disposal	There is a formal procedure. All electronic media is demonstratized and cleaned or stredded, before disposed											
	Pax coversheets are used when information is sent out.											
Fax machines	Fax machines are in secured offices for inbound fax.											
Microfiche (if used)	no longer needed.											
Tele-Health	an outside group has access to perform bagnoate											
Communications	requires a unique user name and password for access											

THE TOP TEN!

- Be a functional organization by properly funding your information security program
- Empower your Chief Information Security Officer (CISO)
- Conduct periodic risk assessments (HIPAA rules, OCR Phase 2 protocols, NIST (including Cybersecurity framework), PCI, vulnerability scanning, external penetration testing, phishing exercises, facility physical security, etc.)
- Implement and maintain operational policies, procedures and plans (e.g facility security plans, etc.)
- Educate the workforce on a periodic general basis and focused as needed
- Implement a process to assess third party business associates for information security risk and contracts
- Mitigate known risk in the order of highest to lowest
- Protect vulnerable PHI in transit and at rest
- Be prepared for an OCR audit, now based on phase 2 protocols
- Be prepared to respond to an incident

Cyber Security

A Holistic Approach to Information Security: Risk Management and Beyond

2009

2010

2011

2012

2015f

2016f

October 2017

CYBERBIT PROTECTING A NEW DIMENSION

2013

2014

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Fact Check...

✓ Risk Assessments

✓ ISO 27k

✓ NIST 800 or CSF

✓ PCI DSS

Business Associates

✓ HIPAA Security Rule

Level Set...

Development and execution of Information Security policy

Compliance training

Development of effective Enterprise Information Architecture

IT infrastructure management

Business and IT alignment

Human resources management

Soft Skill Check...

Why do we do it?

What's our objective?

What drives us?

New World Order







2010 SOLUTIONS FOR 2020 PROBLEMS...





PWC Global State of Information Security Survey 2016

20%

Increase

Cybersecurity Spending PWC Global State of Information Security Survey 2016 23%

Increase

Cost of Attack to organization [\$4M] 2016 Cost of Data Breach Study - Poneman & IBM

Exploit Kit

Executing an Attack

\$1,367

40% decrease

Breach a Target

<24 hours

61

The Changing Landscape.....



NUANCE

Nuance was the victim of NotPetya a very violent strain of the Petya virus: Not Petya is not ransomware. There was no exfiltration of data. There was no command & control.

The only mission of this attack was to destroy systems using a highly effective cyber munition.

NUANCE

June 27 - 07:00AM EST: A cyberattack is launched

June 27 - 07:14AM EST: The attack is successful and has the following impact:

14,800 servers are impacted
7,600 will be destroyed beyond repair.
26,000 workstations are impacted.
9,000 will be destroyed beyond repair.





Security is a Process not a Product

So is education....

Think Holistic

'Systems' are not just the computers

2009

2010

2011

2012

2016f

2015f



2013

2014

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Think Holistic

2015f

2016f

Cyber Security Market 202.36 Billion USD by 2021

2009

2010

2011

2012



2013

2014

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Demand to Fill Cybersecurity Jobs...



(Peninsula Press - Standford, 2015)

This map shows the top 25 cities by percentage growth of cybersecurity job postings. Between 2007 and 2013

Security Leaders' #1 Investment Priority for 2017 is TRAINING

What improvements in IR is your organization planning to make in the next 12 months?

Additional training and certification of staff

Better definition of processes and owners

Better security analytics and correlation across event types and impacted systems

Improved utilization of current enterprise security tools already in place





Think Holistic

Cybersecurity Skills Shortage is in a State of Emergency



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Larger Attack Surface = Larger gap in skills

"As the Internet of Things (IoT) gains more traction, the lack of basic security standards in IoT devices will exacerbate the security skills gap"



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Training is Crucial

Verizon data breach 2016 http://www.verizonenterprise.com/verizon-insights-lab/dbir/2016/ Threat actors have the upper hand when technology is not maintained and they develop ways to circumvent how it works.

The Need for Prepared Personal

2015f

"...the value comes from the people. Software does not provide the answers; it provides the tools."



What is the biggest barrier to CIOs success?

CIOs see talent (skills and resources) as the No. 1 barrier to their success -22% of respondents. Gartner: 2016 CIO Agenda Survey - 7

	Barrier to success as CIO	Percentage of CIOs
1	Skills/resources	22%
2	Funding/budgets	15%
3	Culture/structure of organization	12
4	IT-business alignment	11%
5	Technology challenges (legacy, security, etc)	9%
6	Capacity/willingness to change	8%
7	Management sponsorship/understanding/relationships	8%

Note: Percentages represent the number of CIOs identifying an item as their main barrier.

Closing the Cybersecurity Gap Requires Education

Reform education and training programs to include more hands-on learning

http://www.mcafee.com/us/resources/reports/rp-hacking-skills-shortage.pdf

The Attacker's Perspective



Simulation Models

Tabletop

- Highly Realistic
- Stresses Problem Solving
- Opportunity for Learning and Coaching
- Low Risk to Organizational Operations

Full Incident

Cyber Range (Virtual)

- Highly Realistic
- Involves Extended Teams
- Focuses on Operational Response
- Some Risk to Organizational Operations

- Highly Realistic C&C / Defend
- Involves Extended Teams
- Focuses on Learning & Operational Response
- Can be customized to emulate production

Incident Response Realities

• Most organizations do not have an incident response plan

Those organizations that do have an incident plan, often times don't:
test the plan.

- base it on current threat intelligence.
- update it periodically.
- have adequately trained teams

Cybersecurity Tactical Simulation (Table Top)

Safely analyze ability and readiness in responding to cybersecurity incidents.

Opportunity to evaluate the maturity of plans, quantify if their teams have the appropriate tools and skills

Determine if systems are able to withstand cybersecurity attacks.

Evaluate

Learn

Evolve

Cyber Range

- Command and Control v. IRT
- Virtualized Environment
- Rated Responses

Cybersecurity Tactical Incident Response FrameworkIncident Response
Tactical Training
& Protocol Based
FrameworkCybersecurity
Incident Response
Testing &
EvaluationCyber RangeReal World-
Realtime Incident
Response Training

Evaluate

Learn

81

Evolve

Risk Management

Bring it Home

Prepared Teams

Information Security

82

For the earnest student, taking responsibility means never forgetting to have fun.

Thank You!

For more information on how to use advanced simulation technologies to approach the training market, visit <u>http://go.cyberbit.net/cyberbit-range-learn-how/</u>

2015f

2016f

2009

2010

2011

2012



2013

2014

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Summing it Up

Effective Information Security Programs should include:

- An executive mandate
- Organizational governance and accountability
- Assigned responsibility (CISO), independent of IT (reporting to compliance, legal, risk, or internal audit; or where it makes sense for each org)
- Adequate budget human and controls

High Level

Effective Information Security Programs should include (cont'd):

- Organized evidence of due diligence
- Efficient collaboration for risk assessment and mitigation
- An operational IT contingency plan
- An operational cybersecurity plan
- A comprehensive workforce training program

What should you spend your money on?

- Risk Assessments
- Technology that detects and stops a breach
- Solutions that keep track of what you are doing to address your critical issues

- Reducing the risk of a breach
 - Internal
 - External (e.g. BA)
- Due Diligence vs. Negligence
- OCR pro-active and reactive audits
- Fear of major \$\$ penalties and lawsuits
- Protect organizational reputation

- Rule Assessments standards and implementation specifications
- Risk Assessments and mitigation
 - Technical e.g. network, encryption
 - Administrative e.g. ePHI vulnerability assessment, workforce training, BA monitoring, proactive audits
 - Physical e.g. facilities, workstations

- Covered entities and BAs should conduct a mock audit in order to be prepared for a real audit
- Need to be able to show documented operational compliance
- Need to drill down on each standard and implementation spec and provide documented proof of operational compliance

Be prepared to show evidence:

- Policies and procedures and operational audits
- Workforce training (attendance sheets, eLearning database)
- Risk assessments and mitigation
- Disaster recovery and business continuity plans and tests
- Cybersecurity tactical simulations
- Audits, incidents, and mitigation
- Facility audits and mitigation
- PHI vulnerability assessments and mitigation Information system activity reviews and workforce sanctions for violations, etc..

Future

- Change is the only constant
- More technology
- More vulnerabilities
- More controls required
- More of everything?
- Hopefully less breaches!

Still have questions after the event?

- Feel free to reach out to our presenters with any questions:
- Gerry Blass, ComplyAssistant (SPC Co-Chair) gerry@complyassistant.com
- Mike Chirico, Sensato (SPC Co-Chair) <u>mike.chirico@sensato.co</u>



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