Cyber Security Management

The next 55 minutes…

- Establishing the context
- Cyber Security Management
- Getting a ‘Handle’ on things…
- Cyber Risk Management
- How do you …
- Reference Architecture
- Q & A
Establishing the context...

The multi billion dollar WILD GOOSE CHASE?

- **200%** 0 Days in 2016, compare with 125% in 2015
- **40%+** techniques not attributable
- **60%+** cyber crime focused, this number is increasing…
- **125%** Increase in 10M + Identity Exposure Hacks
- **429M** Total Identities Exposed in 2015
- **$500B** Impact of Cyber Attacks
- **88%** CEOs worried about Cyber Threats

*It's not a question of ‘IF’ only ‘WHEN’ you will be Hacked…*

- The Cyber Security Community
Cyber Security Management
Building blocks…

- **The Usual Stuff:**
  - Tone at the Top
  - Organizational Alignment
  - ‘World Peace’

- **Technology Hygiene**
  - Secure Infrastructure
  - Proactive Compliance
  - Monitoring / SIEMs etc.

- **The Innovative Stuff**
  - Analytics for Cyber
  - Risk Posture Analysis
  - Effective Cyber Security Metrics
Getting a ‘Handle’ on things…
Where do you start…

- Organizations often invest in a plethora of tools and technology. Include all GRC, SIEM, Access Controls, Change & Configuration Management as well as Security Log Management Software
- Technology Maturity vs. Organizational Maturity
- Technology Sophistication vs. Ease of Use
- Remember if buying a piece of technology could have solved the ‘Cyber Security’ challenge, we would not have had the challenge to begin with…

The case for change first begins with the acknowledgement of a problem / need…
Getting a ‘Handle’ on things...
The anatomy of a hack

Recon
- Find what lies beyond the curtain
- Gather information on weaknesses

Get in
- Find a way to get inside
- Use technology or people

Find Keys
- Get keys to the kingdom
- Find other doors to open

Explore
Getting a ‘Handle’ on things...

Case Studies

Case #1
The Strange Case of Transactional Monitoring

Case #2
I’ve got Access… Privileged Access!

Case #3
We use Advanced Analytics
Cyber Risk Management

Understanding Cyber Risk

- Access
- Users
- Security Assets
- Operations
- Privileged Access
- Business Data

Cyber Risk Management
Cyber Risk Management
Measuring Cyber Risk

Establish Objectives, Priorities
- What are we protecting, and Why?
- Risk / Cost / Value manifestation
- Third Parties, Outsourcing
- Strategy, Revenue, Legal impact
- Where the power is…
- Wall Street Journal First Page Items

Identify Impacted Assets
- Sound asset management
- Every asset is on the Internet
- People are assets too
- Audited vs. Unaudited Assets
- Ignored Assets
- End User Computing

Measure Risk
- Risk Metrics
- Gathering data, connecting the dots
- Aggregating Risk Metrics
- Monitoring Risk Posture
- Normalizing Risk Posture
- Operationalizing Risk Posture

Link to Financial Numbers
- Current spend, alignment to risk
- Opportunity price of spend
- Under served areas of risk
- Areas with excess risk coverage
- Cost of Mitigating the Risk
- Time required to Mitigate Risk
How do you...
Cyber Security Management, Analytics in Action…
Questions?

Krish Krithivasan  
*President & CEO, OEQ, Inc.*  
Krish.Krithivasan@oeq-inc.com