# STANDARD INFORMATION SHARING FORMATS





# **AGENDA**

- Information Sharing from the Practitioner's view
- Changing the focus from Risk to Threat
- Why Share? Lead with Intelligence
- Threat vs Privacy







### THE CHALLANGE...

How to Effectively utilize Cyber Threat Intelligence Information to identify Threat or the intent to compromise an organisation and communicate the Threat to the organisation and community.

- Consume Cyber Security Intelligence Information
  - Information in which Cyber Threat teams have access to as part of Cyber Threat Operations
- Standardize & Normalize Cyber Threat Intelligence
  - Information which can be used in a repeatable, reliable and weighted fashion
- Community & Partner Information Exchange
  - Ability to share and communicate Cyber Threat Information in a standardized and efficient manner
- Apply Integrity & Fidelity Rating
  - Verify & Validate Cyber Threat Intelligence Information
- Understand Motivation and Intent of Threat Actors
  - Apply situational context to campaign of attack



# MAKING USE OF THE INFORMATION

### Information Exchange

■ Ability to share threat information with the community via the STIX framework & associated TAXII protocols.

### Use of Threat Information

- Intelligence led Cyber Threat Operations that can effectively detect and mitigate malicious actors and/or campaigns.
- 'Threat Summery' or 'Brief' to assist with identification, mitigation and remediation of malicious acts

### Threat Actor Motivation

- Ability to determine the 'How?' And 'Why?' motivation indicators relating to specific malicious activity.
- Understand Intent of the Threat Actor

#### Greater Threat Awareness

 Enable Cyber Threat Operations to determine the threat landscape more efficiently and effectively

#### Metrics

- □ Ability to evaluate effectiveness of intelligence sources .
- Threat Visualizations
- Threat Summary
- Making Cyber Threat Measurable





# **CHANGING FOCUS FROM RISK TO THREAT**



## **ITS ABOUT PERSPECTIVE**

- This conversation is not about Risk, its about Threat
- Risk Assessments are the hidden weapon of the Attacker
- Threats are operational
- Risks can be easy to mitigate, Threats not so much



## ITS ABOUT CHOICE

"With Risk you have a choice to accept it. With Threat it is thrust upon you regardless if you want it or not!"

**Risk** is the potential that a chosen action or activity (including the choice of inaction) will lead to a loss (an undesirable outcome). The notion implies that a choice having an influence on the outcome sometimes exists

ISO27005: **Threat** is a potential cause of an incident, that may result in harm of systems and organization

A **threat** is an act of coercion wherein an act is proposed to elicit a negative response.



# **WHY SHARE?**



## LEAD WITH INTELLIGENCE

"An Intelligence led response to Cyber Threat will provide a mechanism to allow both the public and private sectors to formulate predictive and pro-active plans to mitigate the intent of groups that wish to undermine our Critical National Infrastructure and damage our economy."



## **REDUCE CAPABILITY**

Sharing cyber threat information within a community will reduce the ability of a bad actor to successfully execute a campaign



# **PREVENTION – THE OPPORTUNITY**

One members Threat detection becomes a communities Threat prevention



# **THREAT VS PRIVACY**



### **CONSIDERING PRIVACY**

### Privacy Concern Barriers for Private Sector

Disclosure Transparency Trust Brand Damage

Competitive Advantage Intellectual Property

## Service Privacy Assurance

- Privacy protection measures
- Data confidentiality markings
- No regulator recourse

### Potential Consequence

Selective Sharing Delayed Adoption Increased Threat

Reduced Effectiveness Financial Impact



### THREAT INFORMATION SHARING

- Privacy is a valid concern
- The opportunity is to create policy controls to allow privacy
- Make it attractive to join the community, not an overhead

Enabling organizations to collaborate and communicate Cyber Threat Information in a standard format with appreciation for the wider implications of what the data can mean to their business if it is misused will open the door for a successful service



# **Thank You**

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