

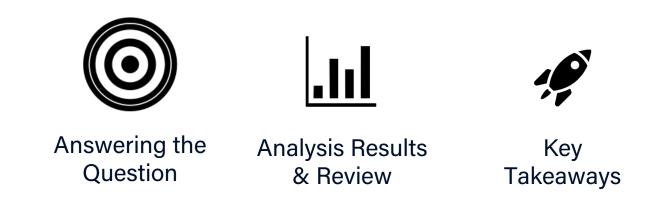
# Reducing Cyber Risk from Employees Working at Home

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## WEBINAR AGENDA



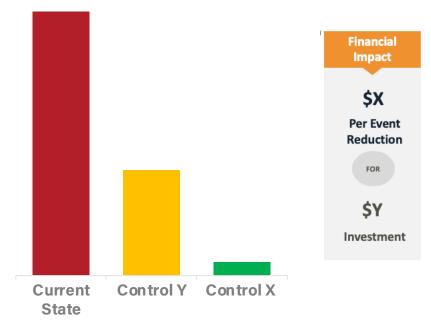


## **ANSWERING THE QUESTION**

Given our current climate, how can we reduce our Cyber Risk related to employees working from home?

## **Cost- Benefit Analysis**

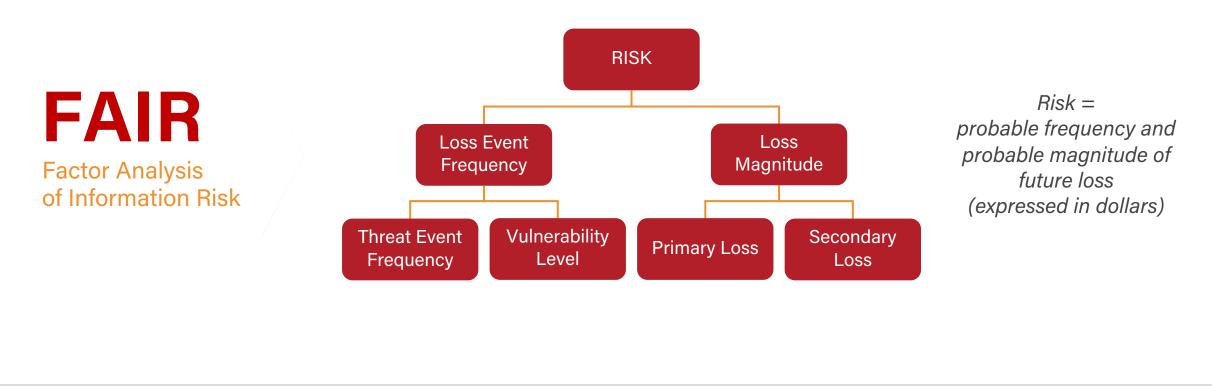
- 1. Identification and analyze baseline loss event(s)
- 2. Determine which factor(s) of the FAIR Model are impacted
- 3. Update baseline analysis for FAIR Model factor(s) impacted
- 4. Compare analysis deltas to annualized investment cost



#### Most Likely Annualized Loss Exposure (ALE) Comparison



## HOW TO MEASURE RISK





## ANALYSIS BACKGROUND

Large technology organization interested in the ability to...



Make effective, riskbased decisions related to protecting customer PII while employees are working from home



**Current State** = Determine how much risk is associated with an **employee** disclosing **customer PII residing on employee workstations** *via exfiltration to personal cloud solutions,* resulting in a **loss of confidentiality** 



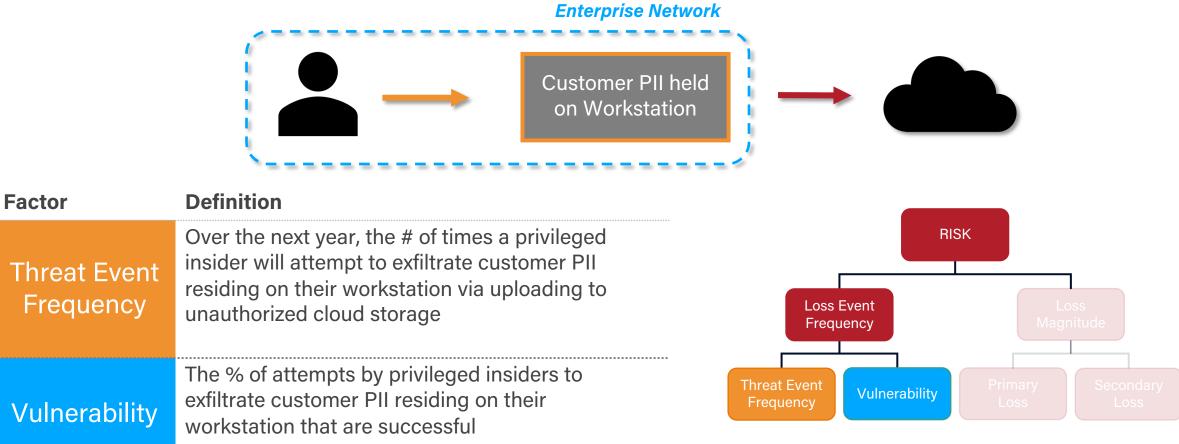
#### **Loss Event**



**Future State**: The risk reduction opportunity, in financial terms, of implementing DLP (data leak prevention) and/or blocking Cloud Hosting (IP blacklisting).



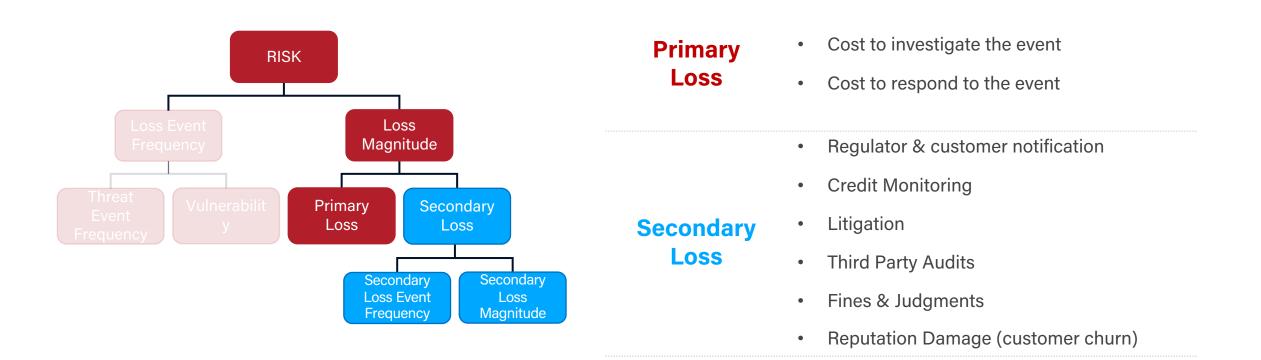
#### **Frequency Rationale**





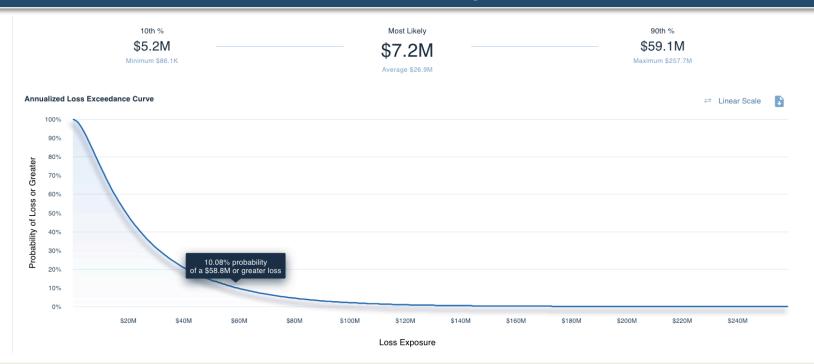
#### **Magnitude Rationale**

Loss Magnitude represents the estimated amount of loss that could materialize each time the loss event occurs





#### **Annualized Loss Exposure**



#### **Per event metrics**



Min: 12 times in 1 year Most Likely: 24 times in 1 year Max: 365 times in 1 year



Primary Loss (Direct Impact): \$500 - \$2K Secondary Loss (Indirect Impact) : \$2.5K - \$1.6M



## STEP 2: DETERMINE IMPACTED MODEL FACTOR(S)

#### Isolate the factor impacted by control change

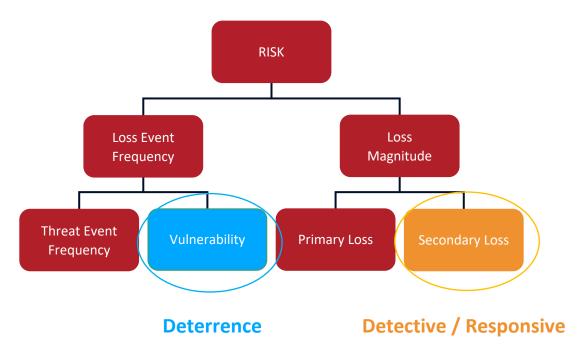
**DLP** (threshold block)

Cloud Hosting Block (blacklisted IP addresses)

#### Consider the extent of the impact

**Reduction of exfiltrated records** 

Additional workarounds employees may take if cloud hosting sites are blocked on their workstation



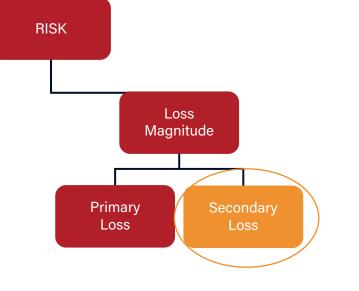


## STEP 3: UPDATE BASELINE FAIR MODEL FACTOR(S)

### **Data Loss Prevention** (block above threshold)



Reduction of approximately 9,500 records, that the employee has legitimate access to, being exfiltrated.

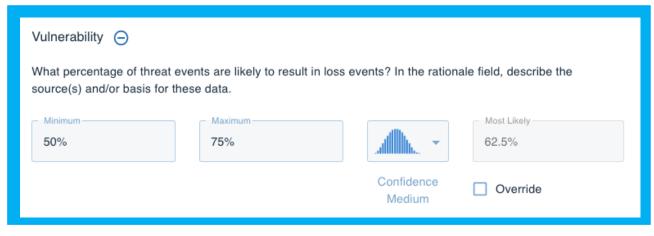


**Detective / Responsive** 

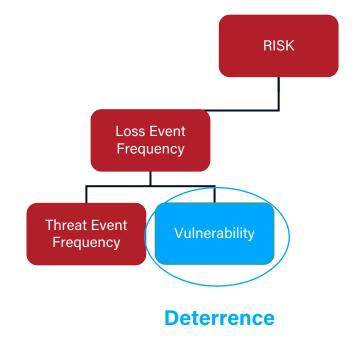


## STEP 3: UPDATE BASELINE FACTOR(S)

### **Cloud Hosting Block** (*IP address blacklisting*)



Reduction of likelihood that the employee would successfully exfiltrate the sensitive information to their personal cloud systems with Cloud Hosting IP addresses blacklisted.





## STEP 4: COMPARE DELTAS TO INVESTMENT COST

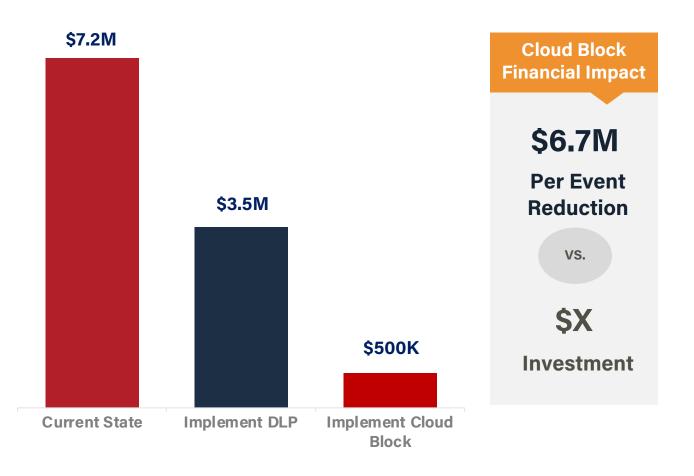
#### Key Driver - DLP (over a given threshold)

Reduction of potential records breached, therefore reducing the magnitude of the loss event

#### **Key Driver - Cloud Hosting Block**

Reduction in the likelihood of the exfiltration of any sensitive information to personal cloud systems

#### Most Likely Annualized Loss Exposure (ALE) Comparison





# Which control should we invest in - to maintain control over sensitive corporate information while our employees are working from home?

#### Without FAIR and RiskLens:

"We need this new software/control because we're currently at **high risk** of experiencing a data breach.

The likelihood is **medium** and the impact is **high**, meaning it's a **high risk**."

#### With FAIR and RiskLens:

"Our Cost Benefit analysis shows that the ROI of control A exceeds the ROI of control B by \$X. Here is my quantitative risk analysis to show that"





## **KEY TAKEWAYS**

## Cyber Risk Quantification provides the business lens you need to:

Communication of Cyber Risk in financial terms

Effectively prioritize remediation efforts via riskbased decisions

