

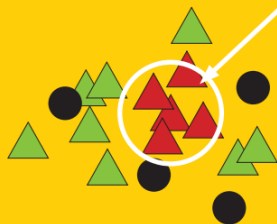


Introducing Risk-Adaptive Protection

Carl Leonard
Principal Security Analyst

PREDICTIVE POLICING

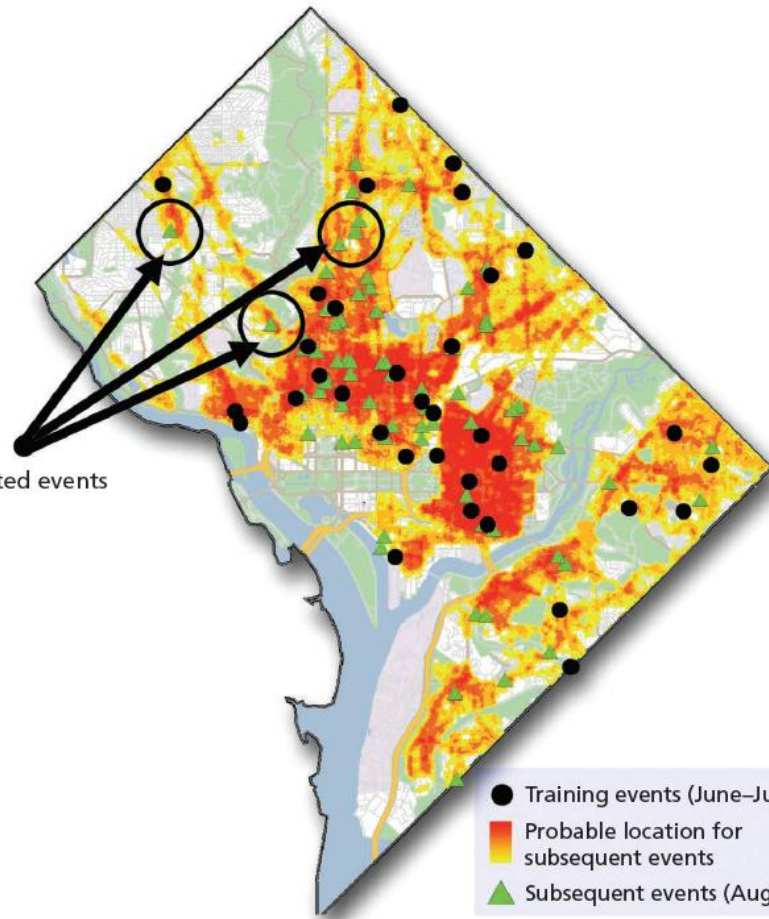
The Role of Crime Forecasting
in Law Enforcement Operations



Walter L. Perry, Brian McInnis, Carter C. Price,
Susan C. Smith, John S. Hollywood



Predicted events



- Training events (June–July)
- Probable location for subsequent events
- ▲ Subsequent events (Aug–Sept)

MATURITY MODELS

VISIBILITY

CONTROL

PREDICT



CURRENT MISSION FOR MODERN SECURITY ORGANISATIONS

Protect the important data
wherever it resides

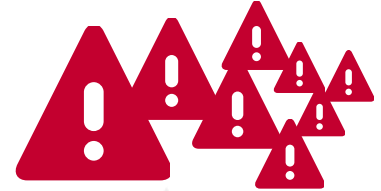


without



Frustrating Users

Overwhelming
Administrators



Mistaking



for



TODAY'S SECURITY APPROACH – DEFEND AS MUCH AS POSSIBLE!



HOW DO YOU MANAGE AND CONTROL DATA WHEN IT'S IN USE & IN MOTION?

Who	What	Where	How	Action
Human Resources	Source Code	Evernote	File Transfer	Confirm
Customer Service	Credit Card Data	Dropbox		Block
Marketing	Personal Data	Business Partner	Instant Messaging	Notify
Finance	M&A Plans	Facebook	Peer-to-Peer	Remove
Accounting	Employee Salary	OneDrive	Email	Encrypt
Sales / Marketing	Financial Report	Malicious Server	Print	Quarantine
Legal	Customer Records	Removable Media	File Copy	Confirm
Technical Support	Manufacturing Docs	Competitor	Print Screen	Audit
Engineering	Research	Customer	Copy/Paste	Notify



TODAY'S SECURITY APPROACH

USER

DEPT.

DEVICE

GEO

DATA
TYPE

DEST.

METHOD

ACTION



HR



PCI



MIKE



SALES



PII



Dropbox



BEN



IT



ADMIN



BILL



























OPS



IP





























TODAY'S SECURITY APPROACH

USER	DEPT.	DEVICE	GEO	DATA TYPE	DEST.	METHOD	ACTION
	 HR			PCI			
 MIKE	 SALES			PII	 Dropbox		
 BEN	 IT			ADMIN			
 BILL	 OPS			IP			




























TODAY'S SECURITY APPROACH

USER	DEPT.	DEVICE	GEO	DATA TYPE	DEST.	METHOD	ACTION
	 HR			PCI			
 MIKE	 SALES			PII	 OneDrive		
 BEN	 IT			ADMIN			
 BILL	 OPS			IP	 http://		



TODAY'S SECURITY APPROACH

USER	DEPT.	DEVICE	GEO	DATA TYPE	DEST.	METHOD	ACTION
	 HR			PCI			
 MIKE	 SALES			PII			
 BEN	 IT			ADMIN			
 BILL	 OPS			IP			



TODAY'S SECURITY APPROACH

USER

DEPT.

DEVICE

GEO

DATA
TYPE

DEST.

METHOD

ACTION



BILL



SALES



PII



STU



IT



ADMIN



OPS



IP

























Dropbox



PHI

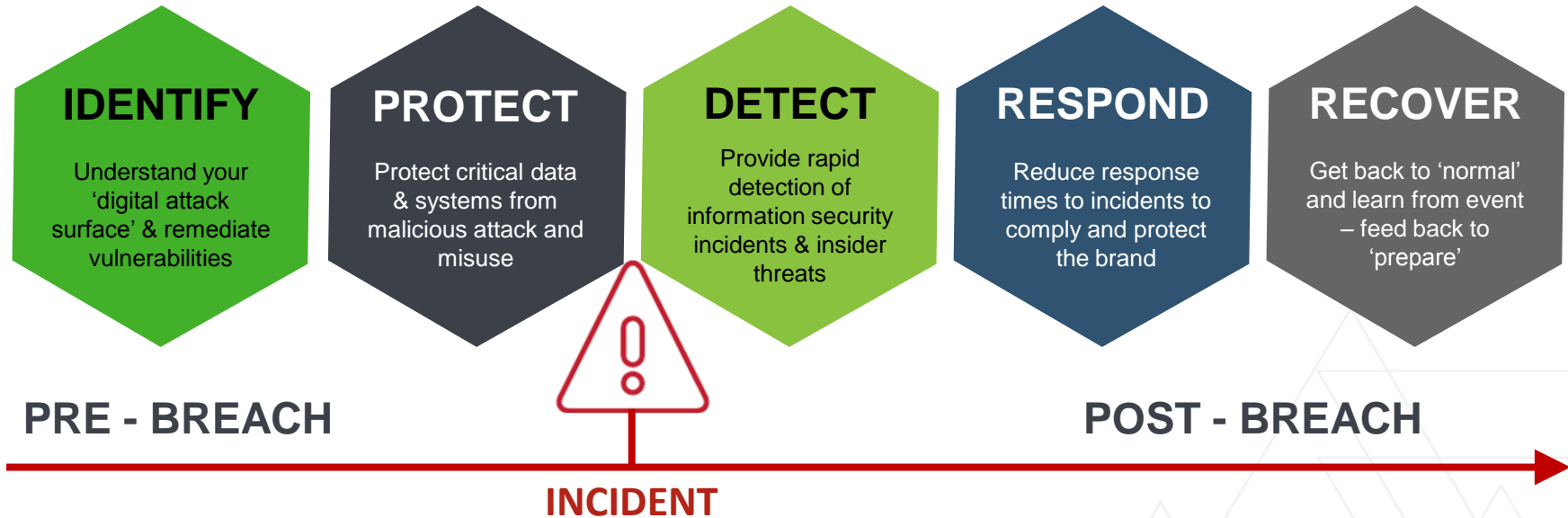


TODAY'S SECURITY APPROACH























USER	DEPT.	DEVICE	GEO	DATA TYPE	DEST.	METHOD	ACTION
 BILL	 SALES			PII			
 STU	 IT			ADMIN			
	 OPS			IP	 Dropbox		
				PHI			



POST-EVENT DETECTION WITH BEHAVIOURAL ANALYTICS

























POST-EVENT DETECTION WITH BEHAVIOURAL ANALYTICS

USER	DEPT.	DEVICE	GEO	DATA TYPE	DEST.	METHOD	ACTION
 BILL	 SALES			PII			
 STU	 IT			ADMIN			
	 OPS			IP	 Dropbox		
				PHI			






















POST-EVENT DETECTION WITH BEHAVIOURAL ANALYTICS

USER	DEPT.	DEVICE	GEO	DATA TYPE	DEST.	METHOD	ACTION	ANALYTICS
 BILL	 SALES			PII				
 STU	 IT			ADMIN				
	 OPS			IP	 Dropbox			
				PHI				




























RISK-ADAPTIVE PROVIDES *PRE-EVENT* DETECTION

USER	DEPT.	DEVICE	GEO	DATA TYPE	DEST.	METHOD	RISK	ACTION	ANALYTICS
 BILL	 SALES			PII					
 STU	 IT			ADMIN					
	 OPS			IP	 Dropbox				
				PHI					






























PROVIDES *PRE-EVENT* DETECTION

USER	DEPT.	DEVICE	GEO	DATA TYPE	DEST.	METHOD	RISK	ACTION	ANALYTICS
 BILL	 SALES			PII					
 STU	 IT			ADMIN			7		
	 OPS			IP	 Dropbox		19		
				PHI			41		



PROVIDES *PRE-EVENT* DETECTION

USER	DEPT.	DEVICE	GEO	DATA TYPE	DEST.	METHOD	RISK	ACTION	ANALYTICS
 BILL	 SALES			PII			19		
 STU	 IT			ADMIN			41		
	 OPS			IP	 Dropbox		66		
				PHI			89		



YOU NEED RISK-ADAPTIVE PROTECTION

Risk-adaptive protection dynamically applies monitoring and enforcement controls to protect data based on calculated behavioural **risk level of users** and the **value of data** accessed.

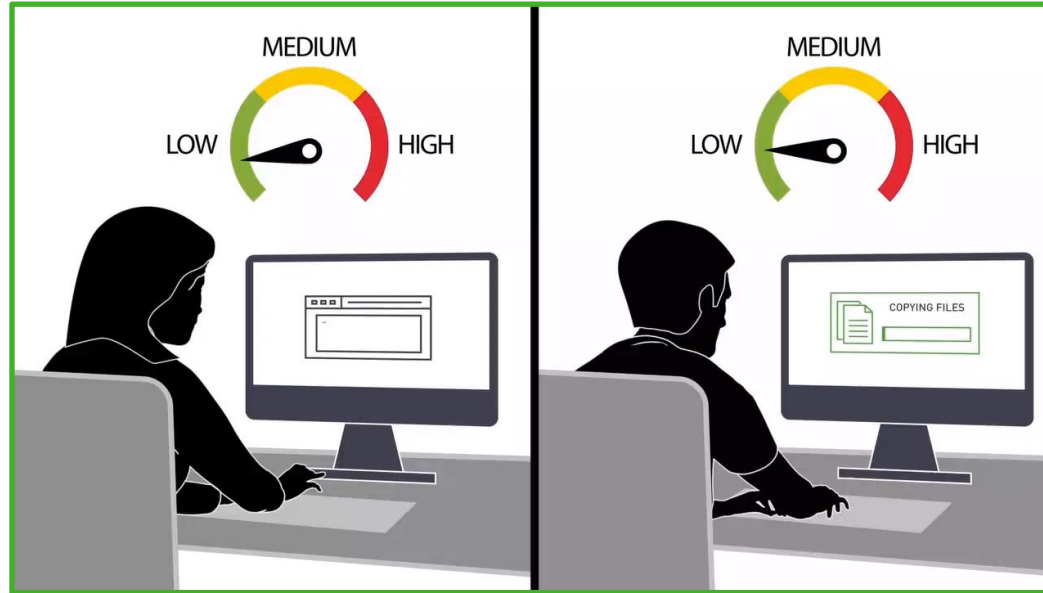
This allows security organisations to better understand risky behaviour and automate policies, dramatically reducing the quantity of alerts requiring investigation.

HOW RISK-ADAPTIVE PROTECTION WORKS:

- 1) Risk levels are driven up and down by human behaviour
- 2) Each user has a unique and dynamic Risk Level which changes based upon behaviour
- 3) Risk Levels drive different outcomes
- 4) The security adapts to the risk levels as behaviours change



RISK-ADAPTIVE IN ACTION

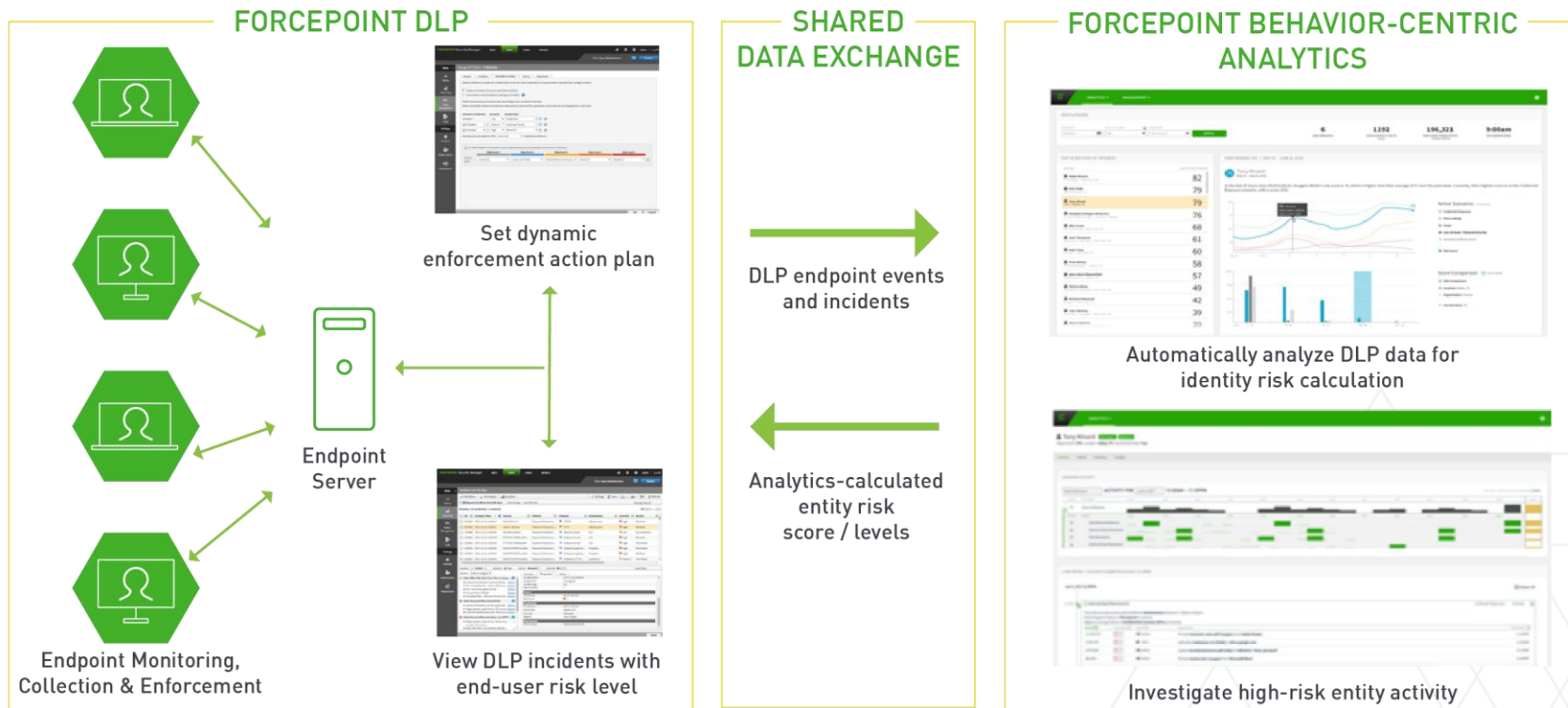


EACH USER HAS A DIFFERENT RISK LEVEL
LEVEL WOULD BE HIGH FOR SOME BEHAVIOUR



INTRODUCING DYNAMIC DATA PROTECTION

DELIVERING RISK-ADAPTIVE PROTECTION



DYNAMIC DATA PROTECTION PROVIDES AUTOMATED ENFORCEMENT

DATA SOURCES

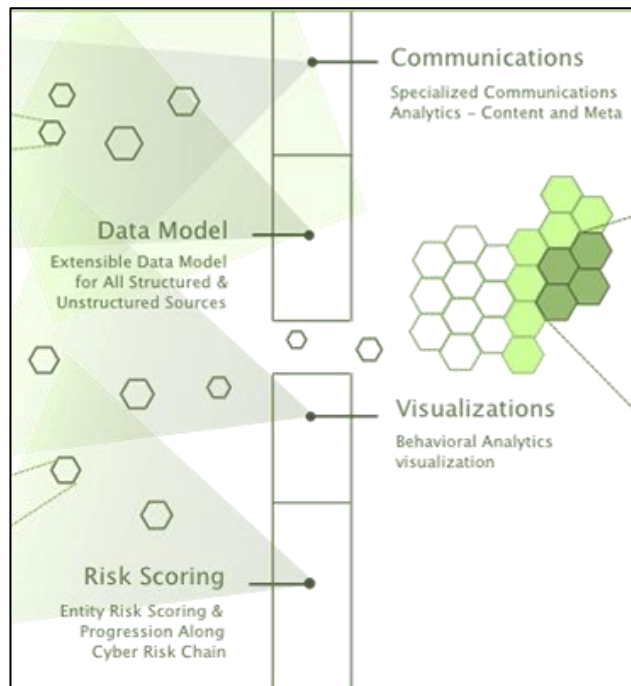
› ANALYTIC ENGINE AND INSIGHTS

› POLICY ENFORCEMENT

Forcepoint DLP

OR

Any Data Source



Forcepoint
Endpoint



GRADUATED ENFORCEMENT BASED ON RISK

For policies governing compliance use-cases or highly sensitive information, “Block All” can be the action plan for all risk levels.

☒ For Risk Adaptive Protection users, determine actions according to the source's risk level:

	Risk level 1	Risk level 2	Risk level 3	Risk level 4	Risk level 5
Action plan:	Block All	Block All	Block All	Block All	Block All

For policies where additional context can help inform decisions, additional granularity is now available.

☒ For Risk Adaptive Protection users, determine actions according to the source's risk level:

	Risk level 1	Risk level 2	Risk level 3	Risk level 4	Risk level 5
Action plan:	Audit Without Forensics	Audit Only	Audit and Notify	Drop Email Attachments	Block All



COMMON POLICY ENFORCEMENT ACROSS MULTIPLE CHANNELS

The screenshot displays the 'Data Loss Prevention' configuration window, which is divided into two tabs: 'Data Loss Prevention' and 'Discovery'. The 'Data Loss Prevention' tab is active and contains three main sections, each highlighted with a red box:

- Network Channels:** This section includes settings for various communication methods:
 - Email: Set to 'Encrypt' with a dropdown arrow. Below it is a checkbox for 'Encrypt on release' with an information icon.
 - Mobile email: Set to 'Permit' with a dropdown arrow.
 - FTP: Set to 'Permit' with a dropdown arrow.
 - HTTP/HTTPS: Set to 'Permit' with a dropdown arrow.
 - Chat: Set to 'Always permitted' in a greyed-out button.
 - Plain text: Set to 'Always permitted' in a greyed-out button.
- Cloud Channels:** This section includes a single setting:
 - CASB Service: Set to 'Quarantine with note' with a dropdown arrow and an information icon.
- Endpoint Channels:** This section includes settings for various endpoint activities:
 - Email: Set to 'Confirm' with a dropdown arrow.
 - Application control: Set to 'Block' with a dropdown arrow.
 - Removable media: Set to 'Encrypt with profile k' with a dropdown arrow.
 - HTTP/HTTPS: Set to 'Confirm' with a dropdown arrow.
 - LAN: Set to 'Confirm' with a dropdown arrow.
 - Printing: Set to 'Confirm' with a dropdown arrow.

With the DLP for IP Protection Suite, customers implement multiple action plans that provide the ability to protect data in motion, data in use and data at rest, even when the data gets stored in SaaS applications



BENEFITS OF DYNAMIC DATA PROTECTION

Intelligent DLP

Reduce the amount of DLP alerts that need to be triaged, transition DLP from broad to individual policies.

Increased Productivity

Provide greater flexibility in policies, and adapt enforcement based on calculated risk.

Proactive Security Management

Detect and respond to high-impact events in a shorter amount of time.



KEY TAKEAWAYS

- ▶ Leveraging analytics to inform enforcement leads to a proactive security posture
- ▶ A system in which control of both the analytics and enforcement mechanism allows for uniform policy enforcement and flexibility
- ▶ Learn more about Dynamic Data Protection at:
<https://www.forcepoint.com/solutions/need/dynamic-data-protection>