DIGITAL GUARDIAN

iSecurity
The Hub of Security Innovations

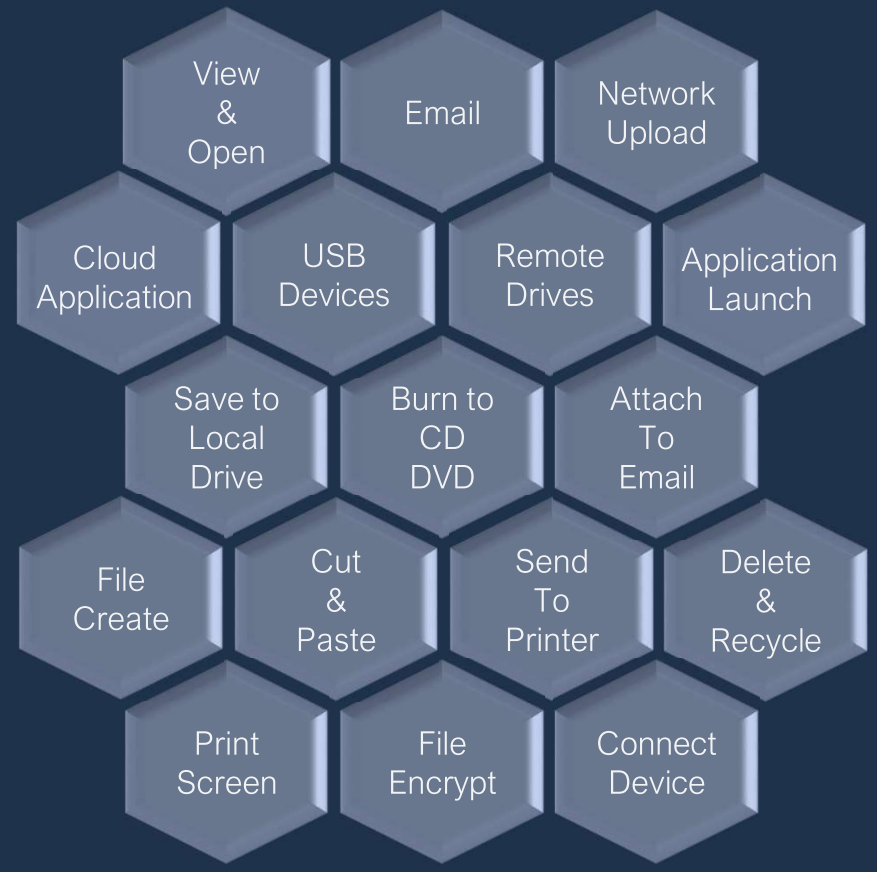
內外兼顧，企業資料保護的王牌

iSecurity Jason /數位資安 賴銘俊

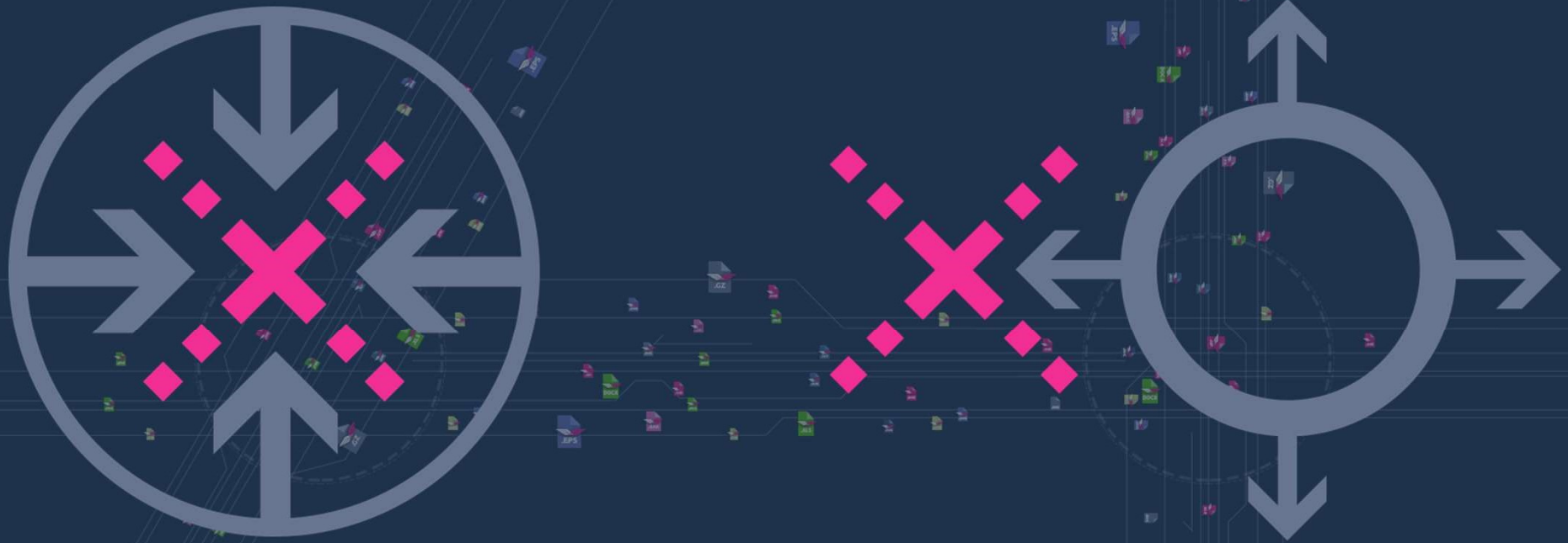
Date：2018/03

如何保護資料?
Where 、 What 、 When & How

- Trade Secrets
- Customer Data
- Non-public Information
- Development Projects
- Credit Card Data
- Source Code
- Unstructured Data



有任何單一agent可以同時保護內賊與外部攻擊嗎?



INSIDER THREATS

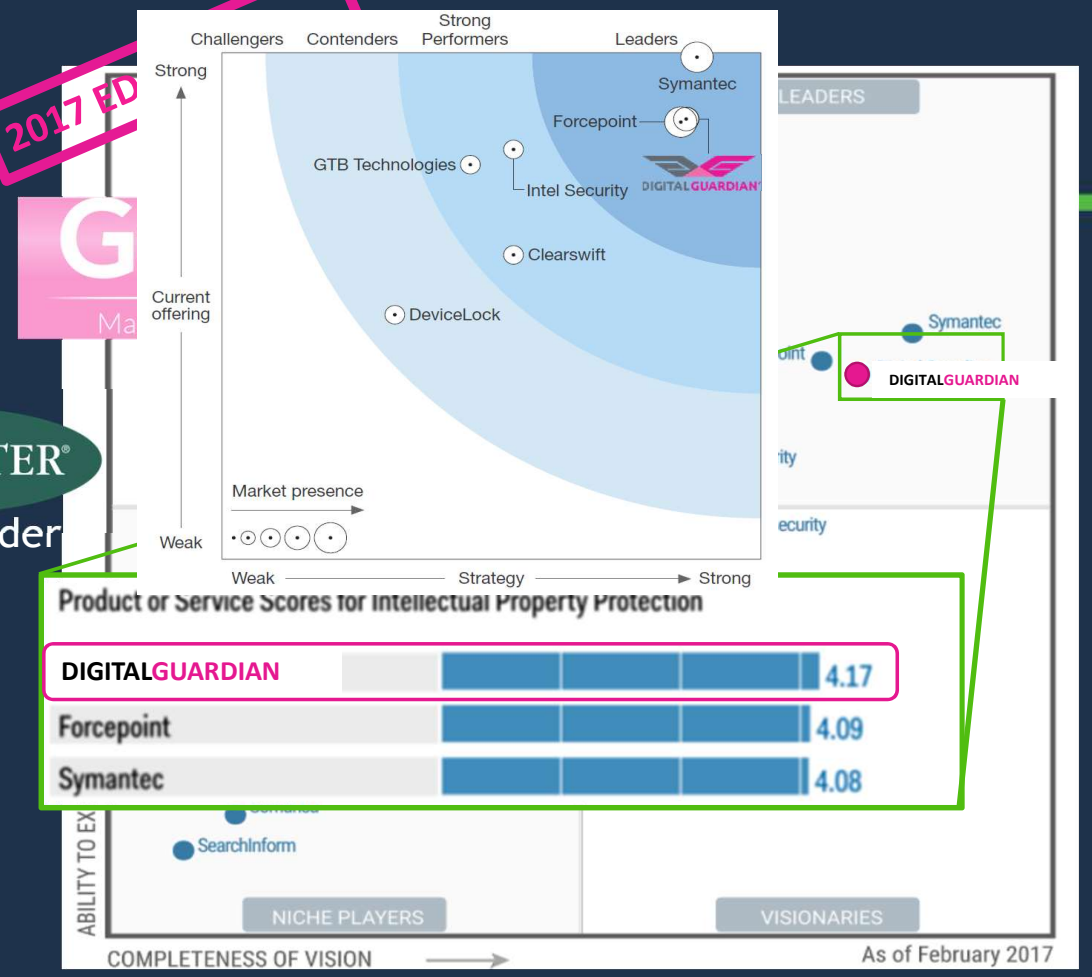
OUTSIDER THREATS

DIGITALGUARDIAN

- 2003 年由Verdasys公司成立
  - 總部位於麻州波士頓 (Waltham, MA)
    - London, Amsterdam, Paris, Toronto, Munich, Tokyo offices
  - 已經在六十個國家安裝超過三百萬個agent
  - 取得超過二十個專利技術
  - 數位資安2004年開始代理
- 2017 Gartner 及Forrester評比為領先者
  - 有DLP評比開始，連續六年居於第一象限
  - 企業智慧財產保護的第一名
  - 整合資安法規、內部與外部威脅三大功能之解決方案
  - 前十大專利商有七家使用DG
  - 前十大汽車製造業有七家是DG客戶
- 不間斷的資料保護 (Anytime ,anywhere)
  - Windows, OSX, Linux, offline/online, *cloud & mobile*
  - Network, Endpoint, Cloud, Database
  - 資料保護、追蹤、加密、應用程式管理、網路行為、周邊管控與事件調查， 不受限於平台與連線與否

FORRESTER®

Wave Leader



"Digital Guardian offers one of the most advanced and powerful endpoint DLP agents and integration. In addition to Windows, both Apple OS X and Linux are supported."

"The Digital Guardian solution for endpoint covers DLP [for DLP agents and inside threat level] and endpoint detection and response (EDR) in a single platform."

最廣的能見度 Deepest Visibility

Network

Cloud

Data Repositories

Endpoint

Data Events

- File Copy/Move
- Email Attachments
- File Save As
- USB Usage
- File Upload/Download
- Printer Activity

User Events

- Unauthorized Applications
- Behavioral Trends Over Time
- Anomalous User Activity
- Non-Compliance Activity

System Events

- Process Executions
- DLL Image Loads
- Network Operations
- Binaries Written To Disk
- Registry Modifications

Combining **system**, **user** and **data** insights provides the visibility you need to protect against **all** threats

DIGITALGUARDIAN®

iSecurity

使資料免於遭受內部與外來的威脅
Secure Data from Insider & Outsider Threats

Threat Aware Data Protection Secures Sensitive Data Assets

Harnessing our:

能見度
Visibility

Deepest Visibility

識別力
Understand

Real-Time Analytics

保護力
Protect

Flexible Controls

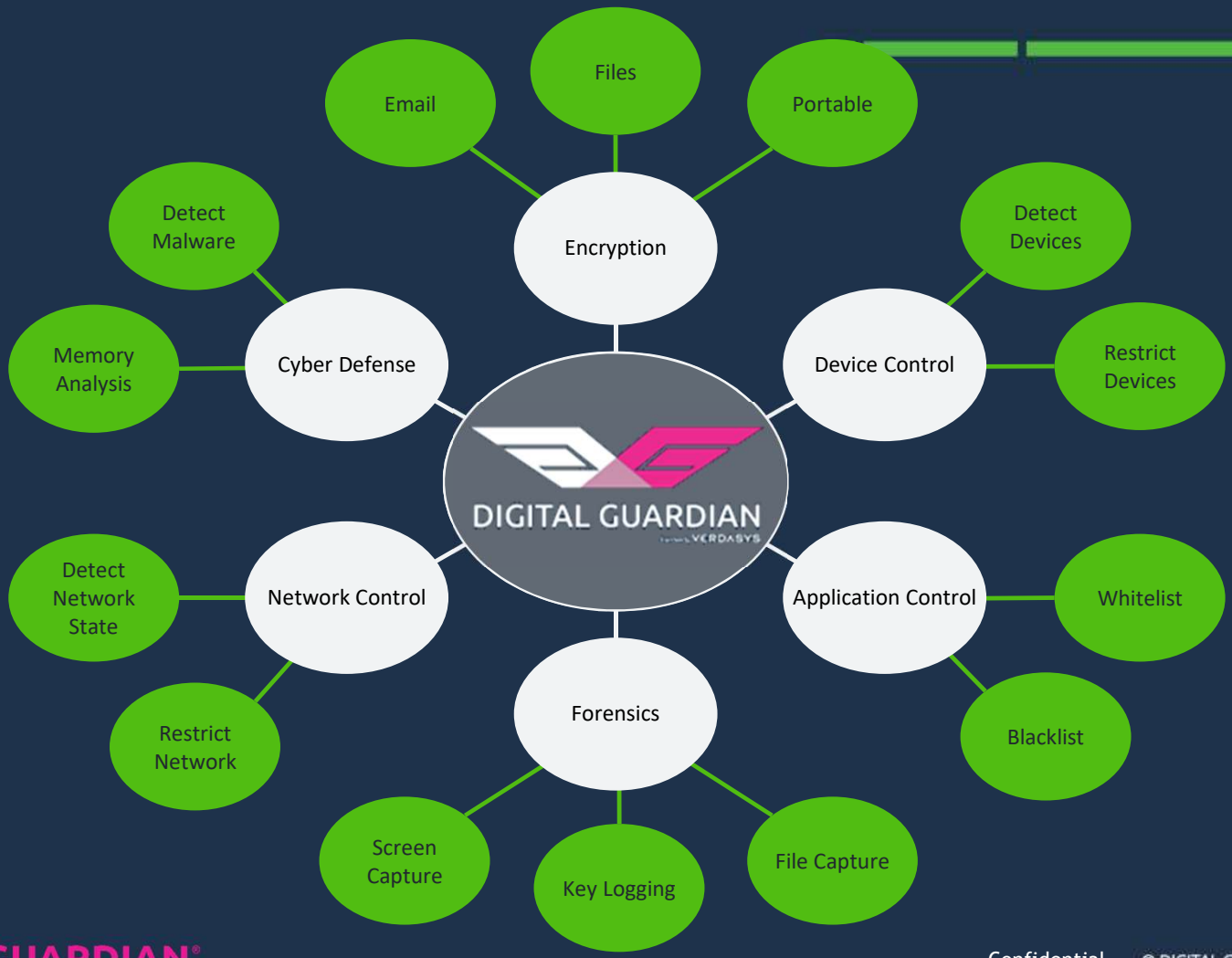
Stops Data Theft From INSIDER & OUTSIDER Threats

DIGITALGUARDIAN

DIGITALGUARDIAN ENDPOINT AGENT

Data loss prevention

超越傳統的DLP



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DIGITAL GUARDIAN FOR ADVANCED THREAT PROTECTION

Verizon 資料入侵報告

- 78% of advanced and targeted attacks involved spear-phishing scams with emails containing malicious attachments
- 23% of users open Phishing messages and 11% click on the attachments
- 95% of malware showed up for less than a month and several didn’t last more than 1 week.
- 70-90% of malware samples are unique to one organization
- 15% of incidents still take days to discover.

DIGITALGUARDIAN®
Advanced Threat Protection

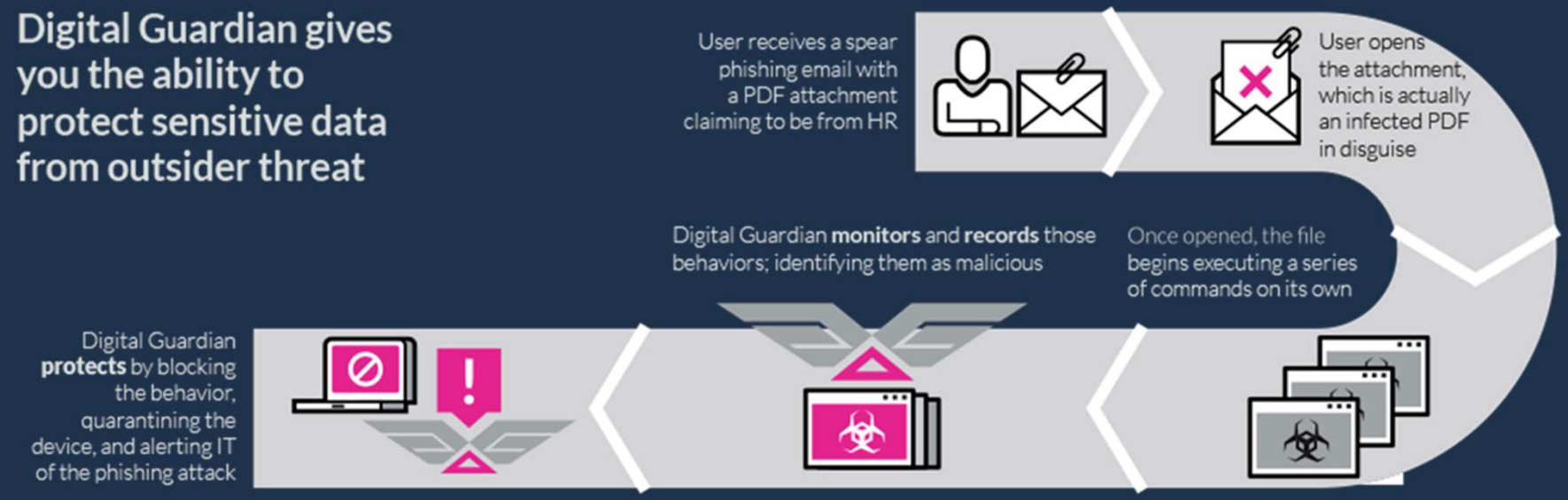
DIGITALGUARDIAN FOR ADVANCED THREAT PROTECTION

- 運用既有DG Agent的技術
  - Kernel Level Agent
  - Stealth Technology
- 即時行為分析
  - Malicious software
  - System compromise
- 針對APT擴充DG事件類型
  - Deep visibility into events across the user machine, at both the kernel and user level

DG ATP 的優點

- Visibility into the Full Attack Lifecycle for more effective detection
  - Not just a list of IOCs
- Detects Malware and Non-Malware Based Attacks
  - Not all attacks employ malware
- Detects Known and Unknown Attacks
  - Detects the behavior of the threat, not the specific component
- Continuous endpoint visibility
  - Combination of both Kernel and User mode monitoring gives a 360 degree view

進階持續性攻擊(APT)之偵測範例
Example of Advanced Persistent Threat Detection



DG ATP 的保護範圍

- Email Attacks
  - Phishing
  - Spear Phishing
- Web Browser Attacks
  - Watering Hole
  - Drive-by Downloads
  - Malvertising
- Ransomware protection
- Physical Threats
  - Candy Drop
  - Social Engineering
  - Malicious Insider
- Existing Threat Detection
  - Malware actions occurring before ATP was installed
  - Install ATP to gain that visibility

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DIGITALGUARDIAN Network Appliance

DG Network Appliance 產品功能

掃描 DLP

尋找、矯正機敏資料

- 檔案共享, DBs, SharePoint, CMS, 伺服器與筆電
- 拷貝、移動、刪除

網路 DLP

監視/控制網路流量

- EMail, Webmail, HTTP/S, FTP/S, TCP/IP
- 阻攔, 隔離, 加密

整合AD　事件管理　稽核　**集中管理平台**　報表　政策管理　Syslog/SIEM

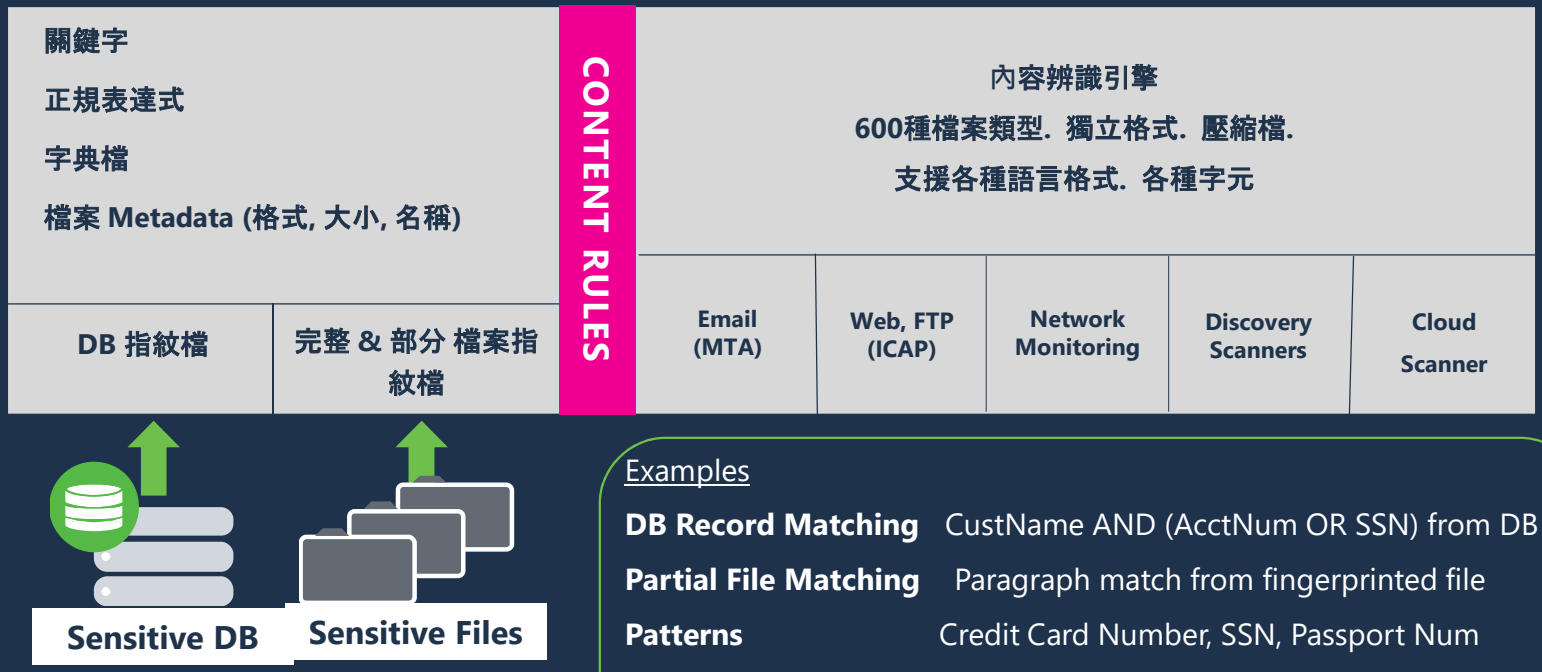
雲端 DLP

稽核與保護雲端儲存上的資訊

- Box、Sharefile、Egnyte、OneDrive
- 報表、稽核、警示、移動、刪除

DG Network Appliance深入的內容辨識

高精準度的辨識能力

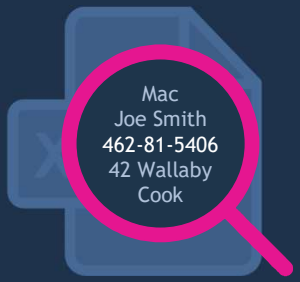


Examples

DB Record Matching	CustName AND (AcctNum OR SSN) from DB
Partial File Matching	Paragraph match from fingerprinted file
Patterns	Credit Card Number, SSN, Passport Num
Regular Expressions	Medical Record Number, Email Address
Dictionaries	HIPAA Code Sets - NDC, LOINC, HCPCS
	US Addresses

使用者分類檔案
DG User Classification

How DG Classifies ?

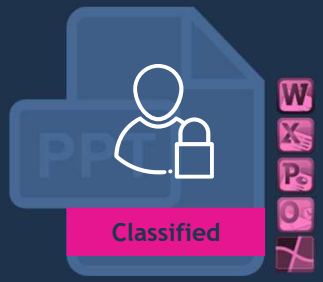


Content-based

File inspection to identify, tag and fingerprint sensitive data for lowest false positives

Context-based

Identify & tag sensitive data (structured and unstructured) even before you develop policies



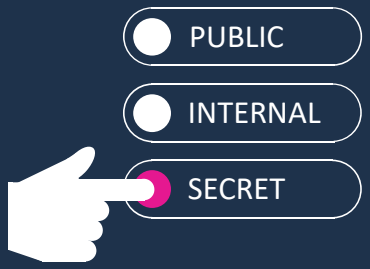
User-Based

Enable users to classify sensitive data based on business requirements

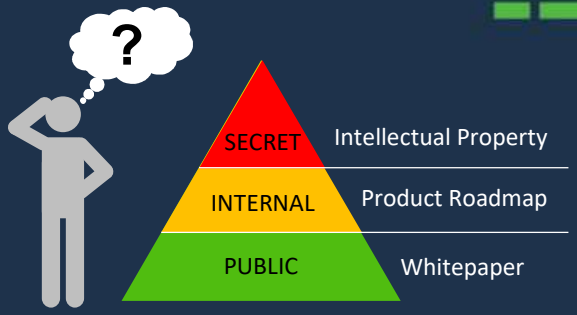
當今最廣泛之資料搜尋與標記解決方案

Most comprehensive data discovery & classification on the market today

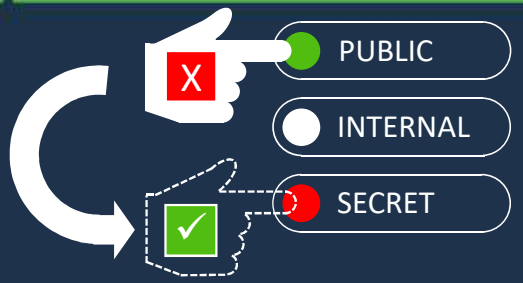
Use Case: **User Classification**



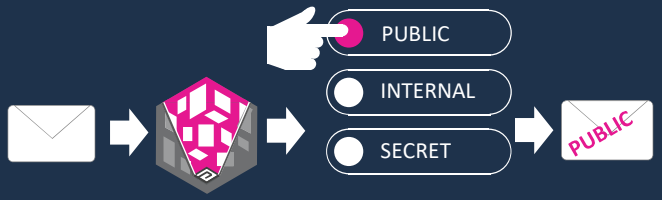
Company wants data owners to determine file & email sensitivity



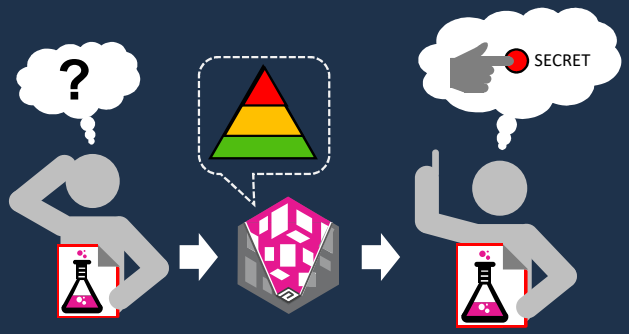
Users must classify data using Company's schema & guidelines



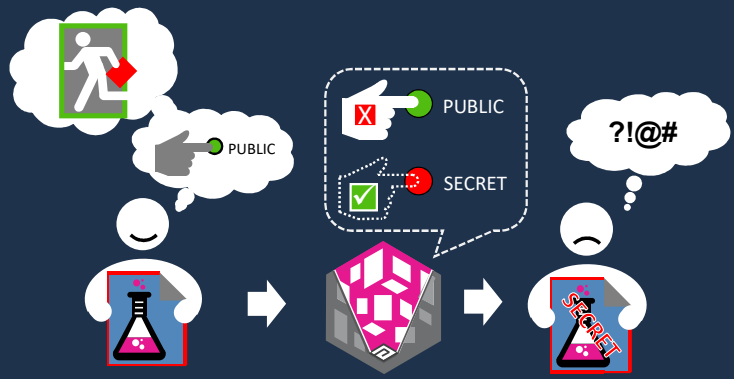
Users must also be audited to prevent misclassification of data



DG requires users to manually classify sensitive files & emails



DG prompts can educate users & guide proper classification



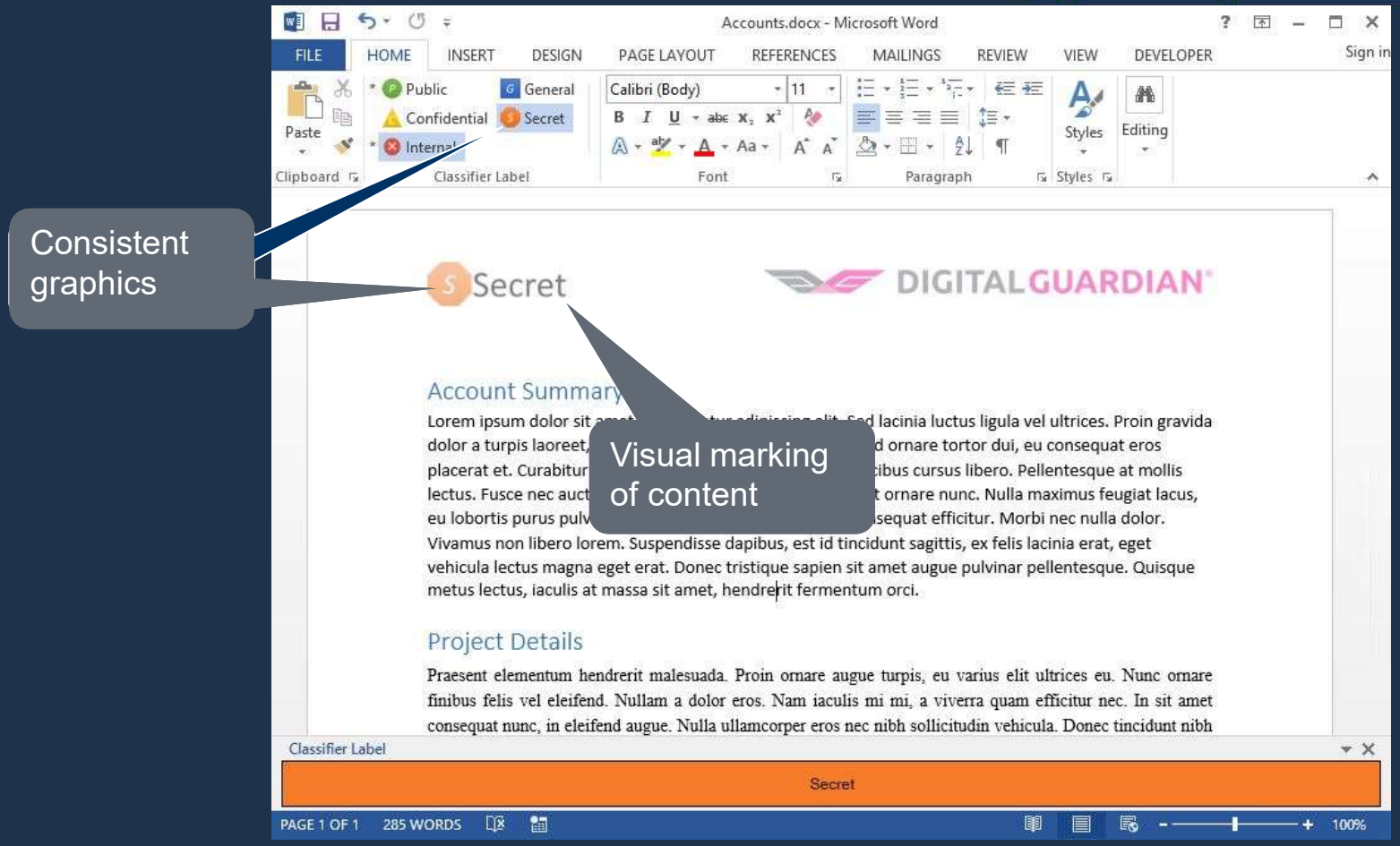
DG's automated rules can confirm & enforce correct classification

使用者分類的好處

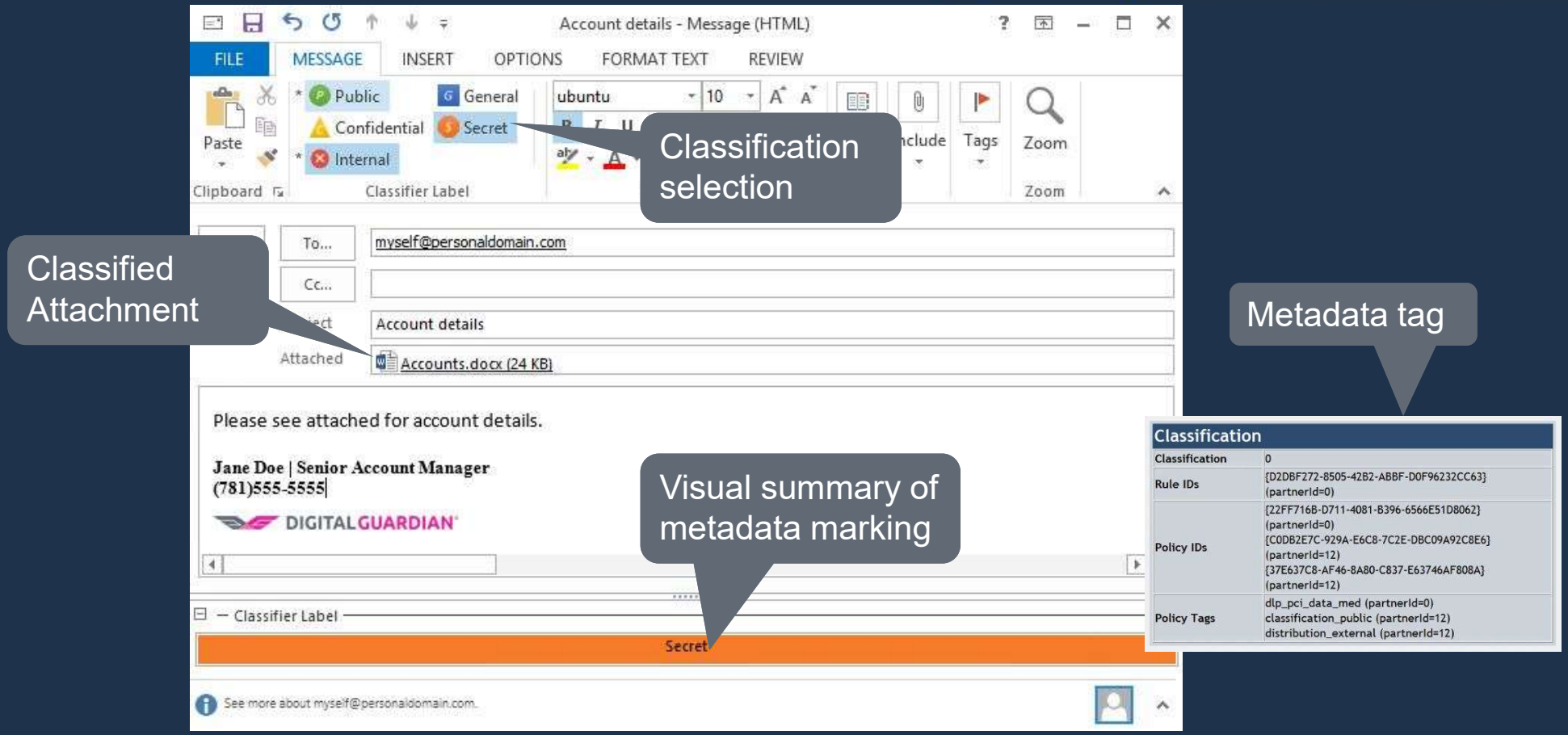
DIGITALGUARDIAN FOR USER CLASSIFICATION
Powered by Boldon James

- 專業—Incorporates data **owners** into the information security program by using their knowledge to classify data.
- 準確— Increases accuracy of data classification by providing additional context and verification of automated classification.
- 規範— Improves Data Loss Prevention by helping to ensure the right regulated and/or sensitive data is tagged.
- 優先— Increases Advanced Threat Protection efficiency by incorporating accurate data sensitivity context into alert prioritization.
- 全面— Delivers the most complete data classification offering in the industry.

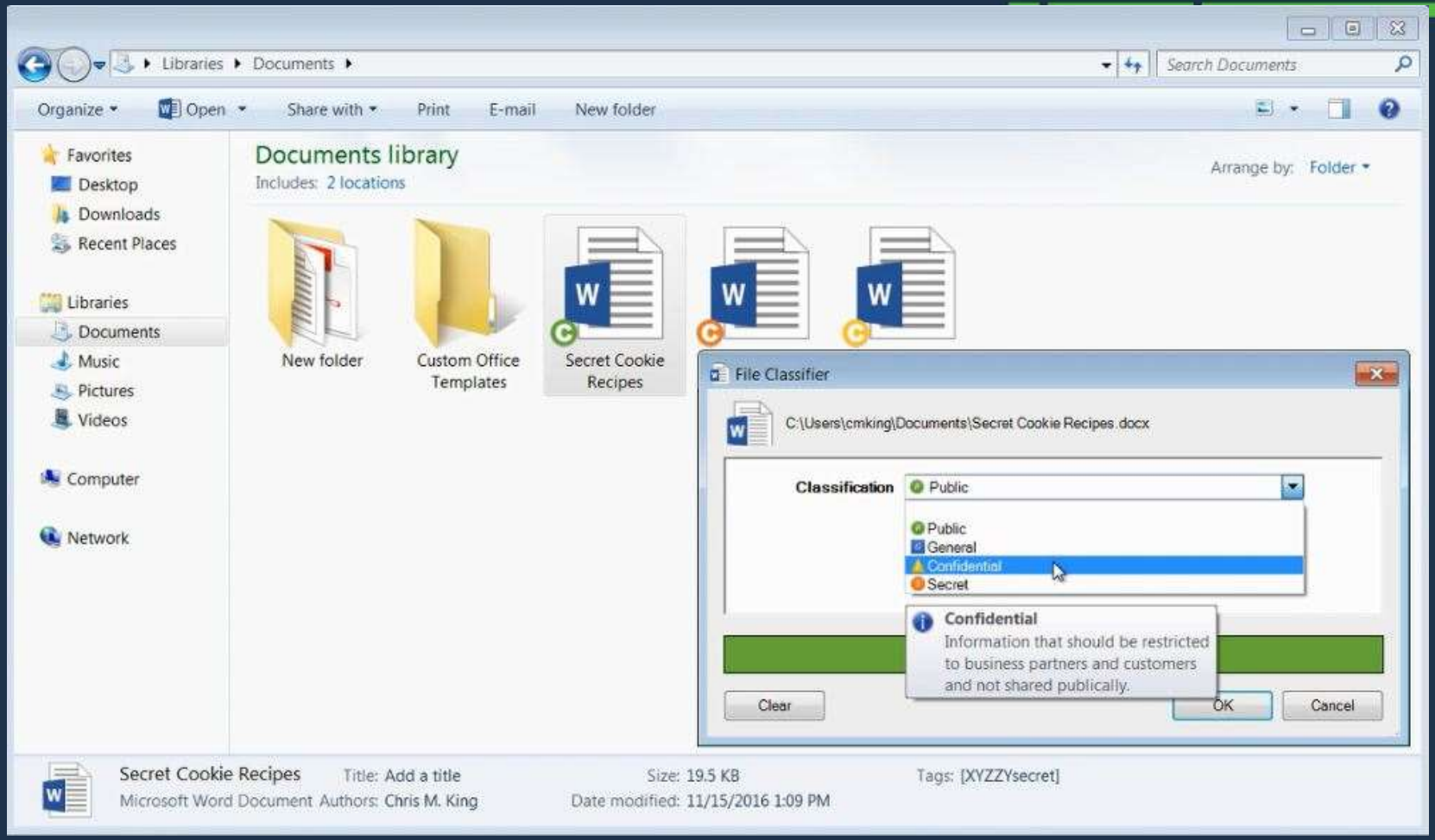
Classification for Office



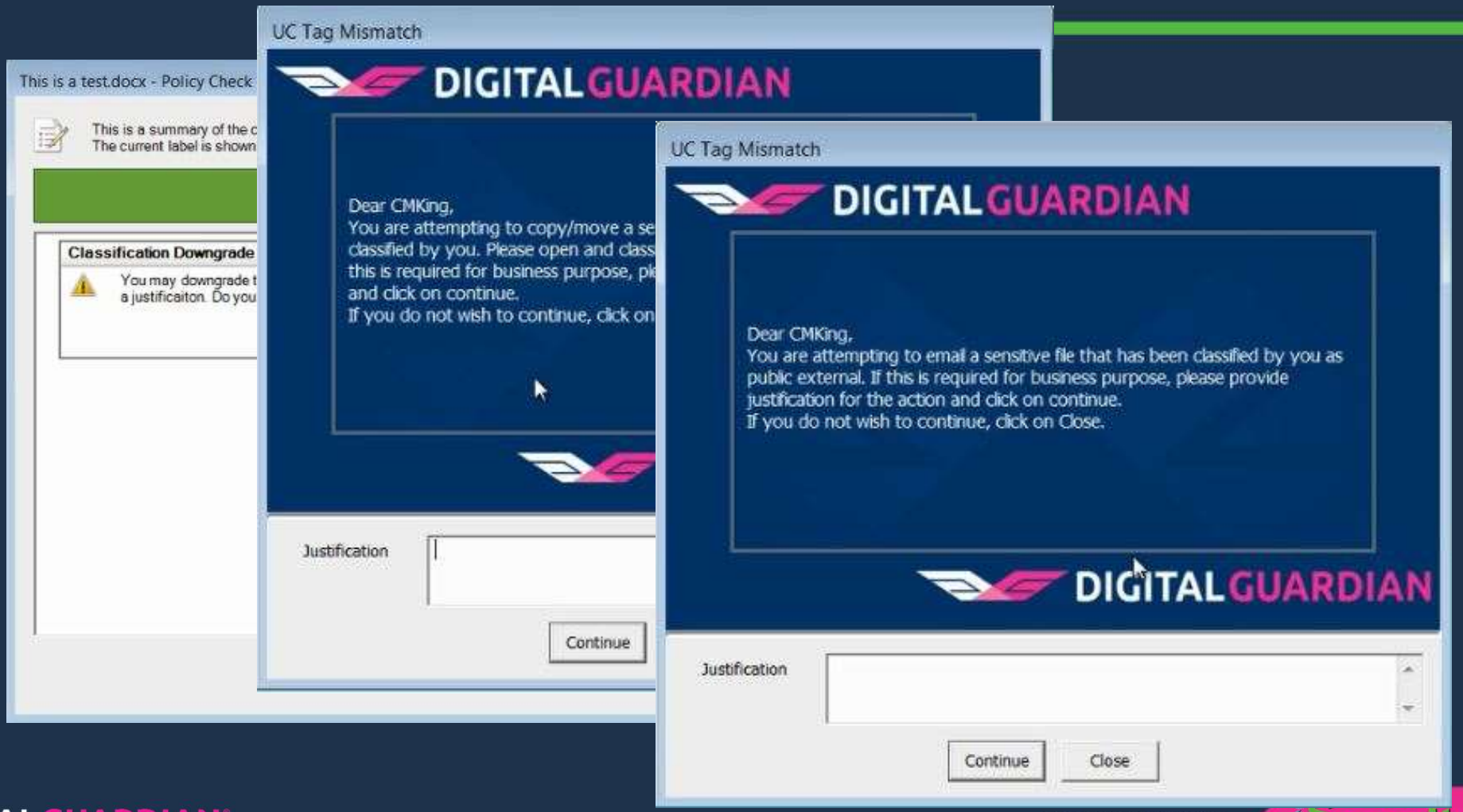
Classification for Email



Classification for Files



DG Prompts and Warnings

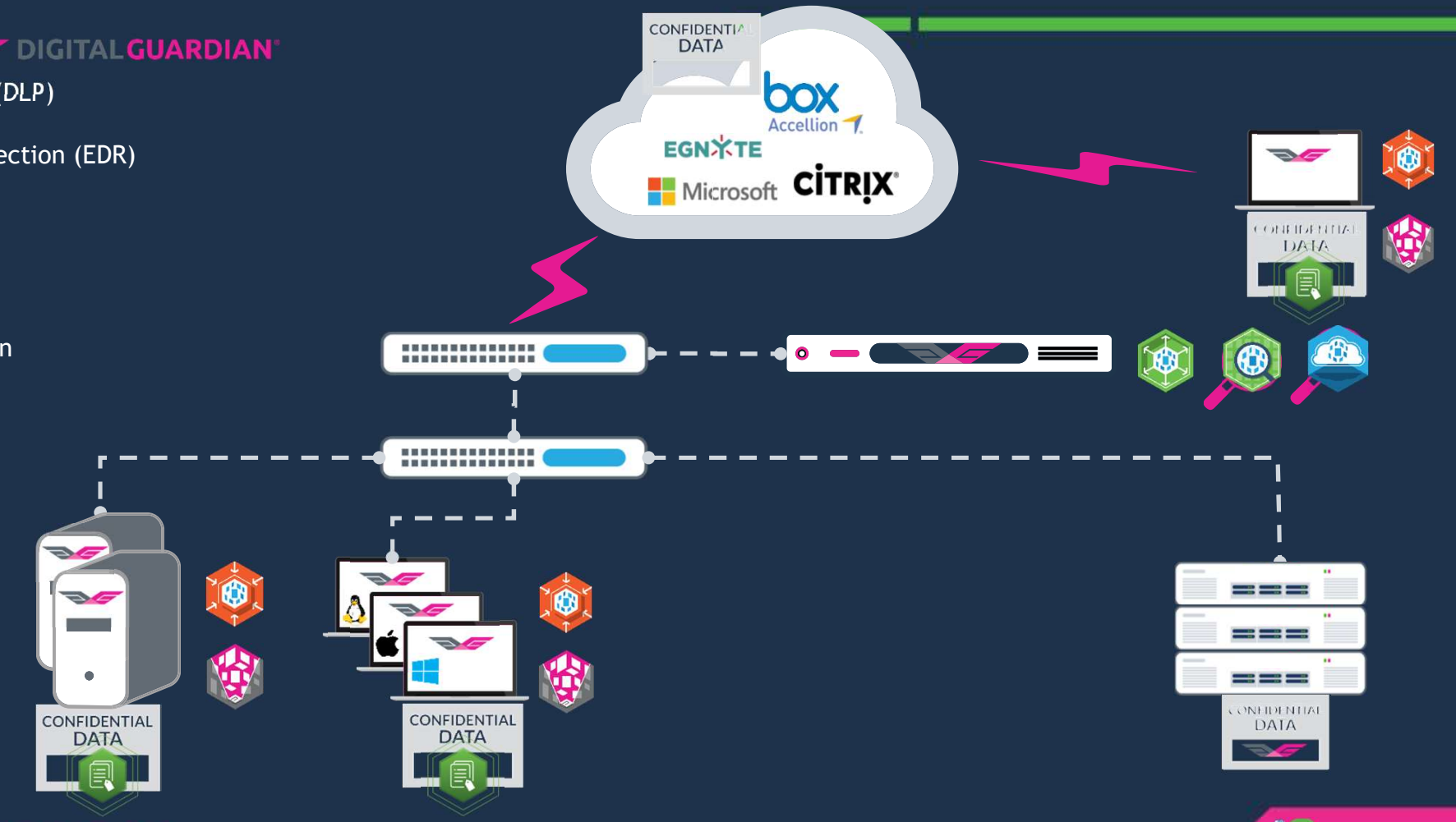


總結

DG Products Today

DIGITALGUARDIAN®

- DG Endpoint Agents (DLP)
- Advance Threat Protection (EDR)
- Network Appliance
- Data Discovery
- Cloud Data Protection
- Data Classification



總結

DG 解決方案	特性
Data loss prevention	• Kernel 層agent，擁有最廣能見度 • 同時支援Windows OSX 及 Linux三大平台 • “Capture all” ，不需要事先定義政策
Advanced threat protection	• Not just IOC (Indicator of compromise) • Behavior based Endpoint detection and response • Single agent for insider and outsider
User classification	• 強制使用者編輯Office相關檔案及Email時分類 • 可透過按右鍵之方式對一個或多個檔案分類 • 整合與互補內容(content)及屬性(context)標記之不足
Network Appliance	• 於閘道端過濾Web、FTP及SMTP，防範機敏資料外洩 • 事件(event)完全整合於同一管理介面 • 還有Discovery與Cloud之功能

總結

- 唯一Kernel層的agent
- 唯一不需要事先定義政策
- 唯一完整支援Windows(server/workstation)、Mac OS 、Linux
- 唯一提供三種標記方式的agent
- 唯一同時防範insider與outsider的解決方案
- IP保護的第一名

Thank you!

感謝您的聆聽，如有任何問題，
歡迎和我們聯繫

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