

# SASE 戰術策略邁向數位

Cato Networks. The Global SASE Leader.

Regional Sales Director

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#### 什麽是SASE?

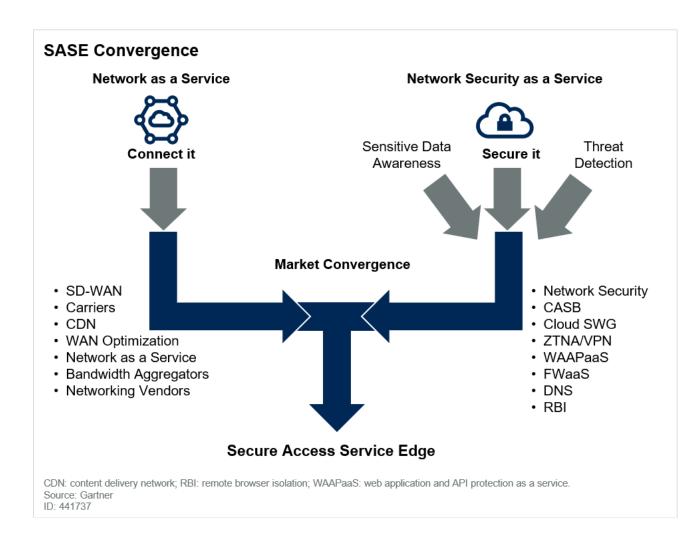
With the Secure Access Service Edge (SASE)

Gartner 認為SASE的網路架構能夠替企業帶來簡單、易於擴展、彈性、低延遲及安全性,這些優點應該擴展到企業每一個連結點上。

"Customer demands for simplicity, scalability, flexibility, low latency and pervasive security force convergence of the WAN edge and network security markets".

#### **Gartner**

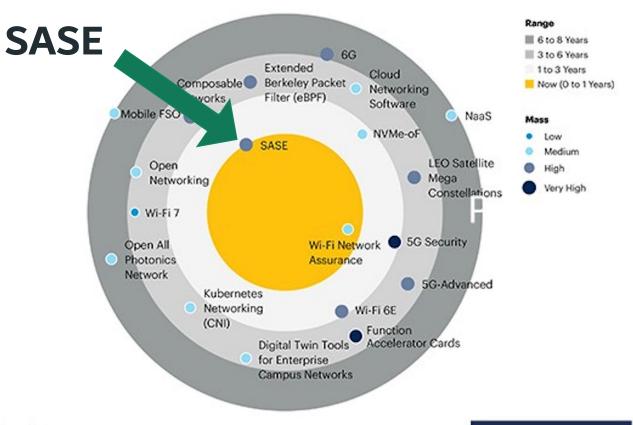
Market Trends: How to Win as WAN Edge and Security Converge Into the Secure Access Service Edge, 2019





### 未來的1年內將成為主流

#### **Impact Radar for Communications**



Source: Gartner 749438\_C

Published by:

Gartner.

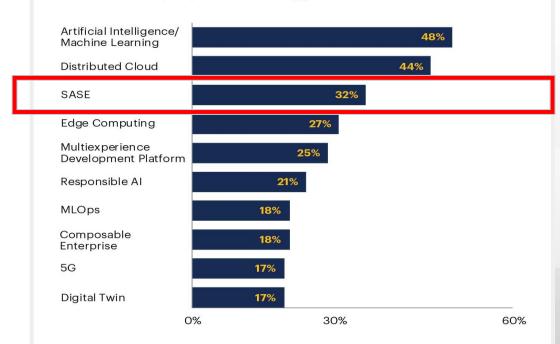




### SASE已在CIO 心中計畫部署

#### **State of Deployment for Emerging Technologies**

Percentage of Respondents Who Have Already Deployed or Plan to Deploy a Technology in Next 12 Months



#### gartner.com

n = 2,363, CIOs and technology executives answering, excluding don't know Q. What are your enterprise's plans in terms of the following digital technologies and trends? Note: MLOps = machine learning operationalization; SASE = secure access service edge Source: 2022 Gartner CIO and Technology Executive Survey

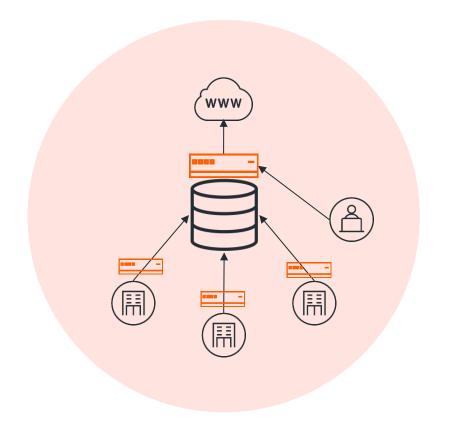
Gartner





#### 模糊的安全防護邊界

#### From Security in Location to Security Everywhere





salesforce

Office 365

RingCentral

Security in Location

Applications in On-premises Datacenter

Most Users in the Office

Security Everywhere
Applications Everywhere
Users Everywhere



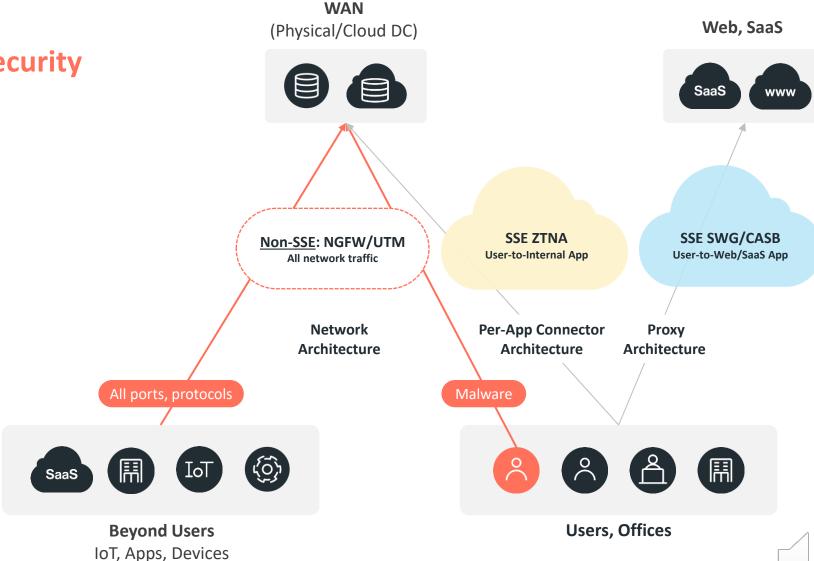


### 現今的網路環境如何達到無邊界的資安防護架構?

Blind spots and complexity

### **<u>Different</u>** Traffic, <u>Different</u> Security

- Fragmented multiple security architectures
- Inconsistent multiple policy engines
- Limited Visibility for WAN security
- Unoptimized public internet for global access

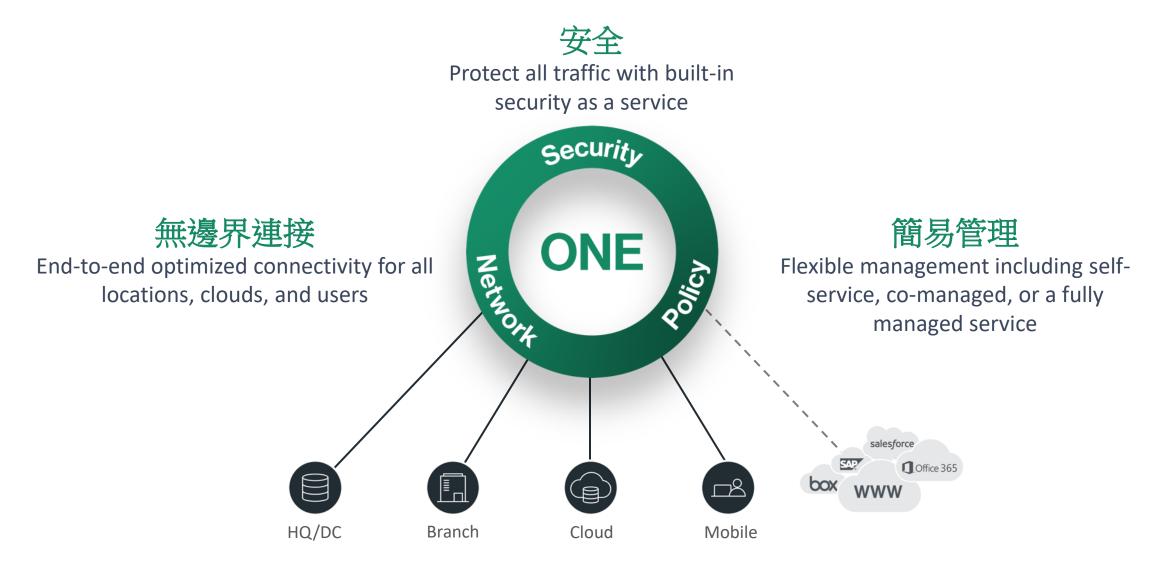




# **Cato Networks SASE Solution**



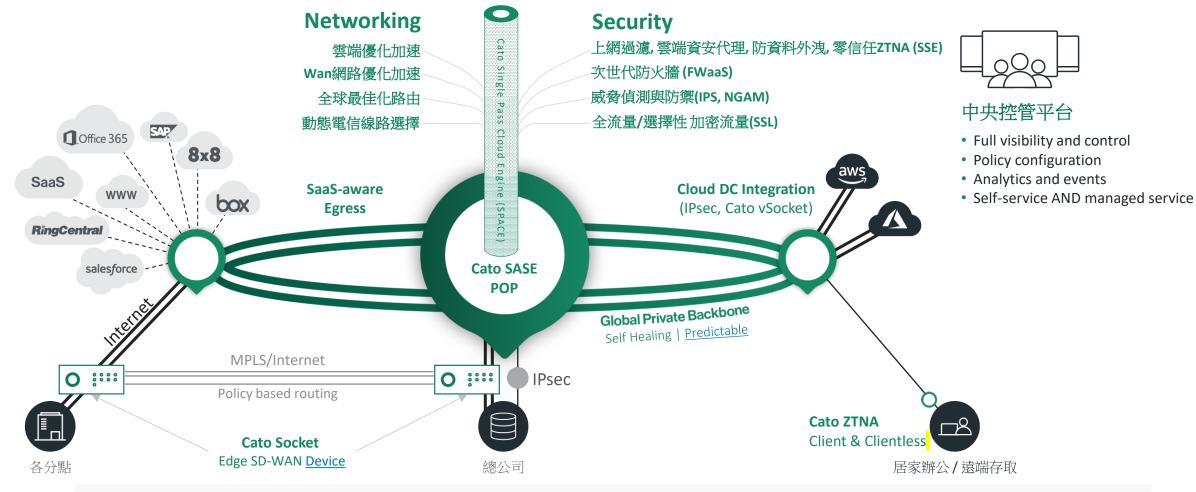
#### 我們需要更簡單、安全及快速的網路環境





#### Cato SASE Cloud

The Power of Networking and Security Convergence



### 所有流量

All Ports/Protocols

#### 所有方向

East/West, South/North

檢查所有流量

Any source/destination

#### 所有資料流

User-Apps, IoT, Apps-to-Apps, Machine-Machine,

#### 優化整體網路

Last mile, Middle Mile, Global



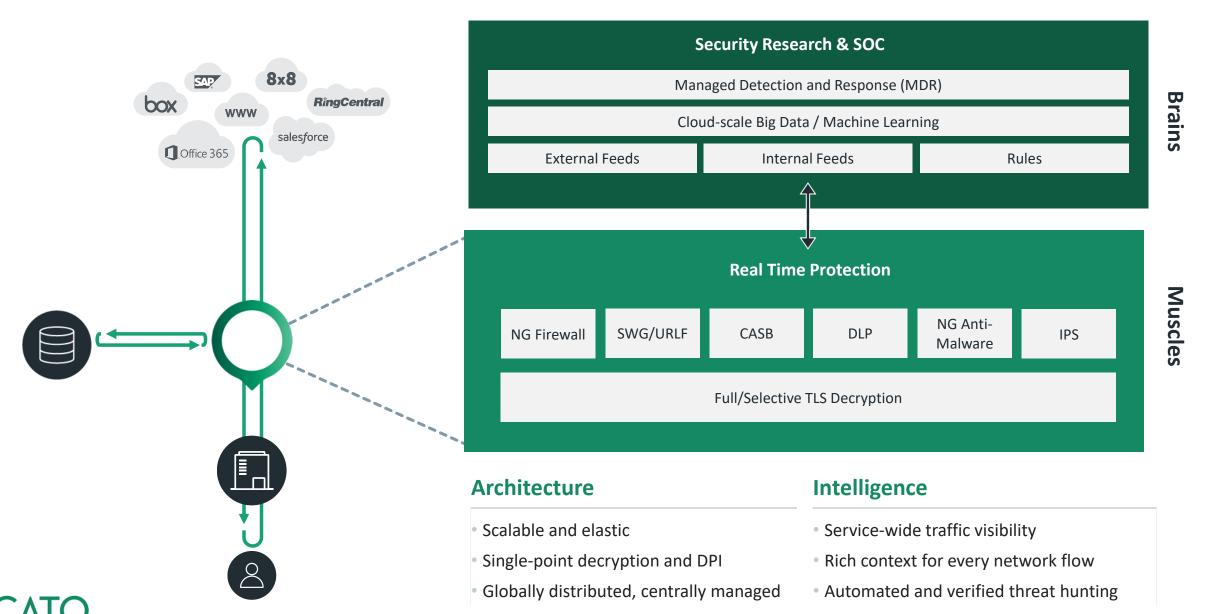




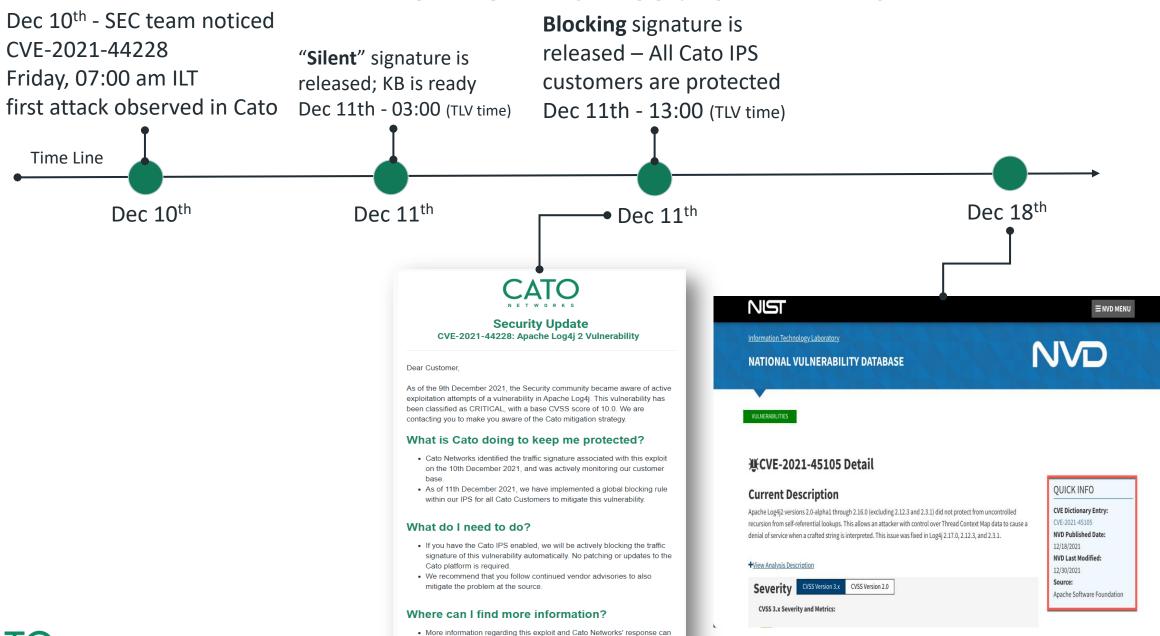
所有應用程式

Physical DC, Cloud DC, SaaS

#### **Security-as-a-Service Overview**



#### THREAT HUNTING – APACHE LOG4J VULNERABILITIES



be found in this Knowledge Base article.



### Cato雲PoP全球分佈圖:75個PoP、《網路即是安全》

Brussels, Belgium

Dublin, Ireland O

Manchester, UK

London, UK <

Paris, France

O Madrid, Spain

O Casablanca, Morocco

Vancouver, Canada 🔘 O Calgary, Canada O Montreal, Canada Seattle, WA O O Minneapolis, MN Portland, OR O Detroit, MI O Boston, MA Chicago, IL O San Jose, CA O New York, NY Columbus, OH 🔾 Santa Clara, CA O Denver, CO O Cincinnati, OH O Los Angeles, CA O O Ashburn, VA O Charlotte, NC O Dallas, TX O Atlanta, GA Las Vegas, NV 🔾 Houston, TX 🔾 O Miami, FL Mexico City, Mexico

韓國 首爾 日本,東京 O Stockholm, Sweden 上海 Amsterdam, Netherlands 香港 Munich, Germany

越南,胡志明市 珀斯 墨爾本 悉尼

中國, 北京 印度, 孟買 泰國. 曼谷 馬來西亞. 吉隆玻 新加坡 南非,約翰尼斯堡

Beijing, China Osaka, Japan Seoul, South Korea Tel Aviv, Israel O O Shanghai, China Hong Kong O Taiwan 台灣 Dubai, UAE Mumbai, India Bangkok, Thailand Chennai, India O Ho Chi Minh City, Vietnam Kuala Lumpur, Malaysia O Singapore O Manila Philippines Jakarta, Indonesia 🔘 巴西, 聖保羅 Johannesburg, South Africa

加拿大、卡爾加里 加拿大, 溫哥華 華盛頓州. 西雅圖 俄勒岡州. 波特蘭 加利福尼亞州, 聖約瑟 加利福尼亞州, 洛杉磯 科羅拉多州. 丹佛 德克薩斯州, 達拉斯 墨西哥, 瓜達拉哈拉

伊利諾州, 芝加哥 Quito, Ecuador 加拿大, 蒙特利爾 O Lima, Peru 麻塞諸塞州,波士頓 紐約 O São Paulo, Brazil 弗吉尼亞州, 阿什本 俄亥俄州, 哥倫布 Santiago, Chile 佛羅里達州, 邁阿密

加拿大,多倫多

佐治亞州. 亞特蘭大

Uptime SLA

O San José, Costa Rica



75+ PoPs

荷蘭. 阿姆斯特丹 捷克, 布拉格 羅馬尼亞, 布加勒斯特 德國, 法蘭克福 以色列, 特拉維夫 阿拉伯聯合酋長國

愛爾蘭. 都柏林

西班牙, 馬德里

法國. 巴黎

O Prague, Czechia



Perth O

1,100+

Enterprise Customers



Sydney O

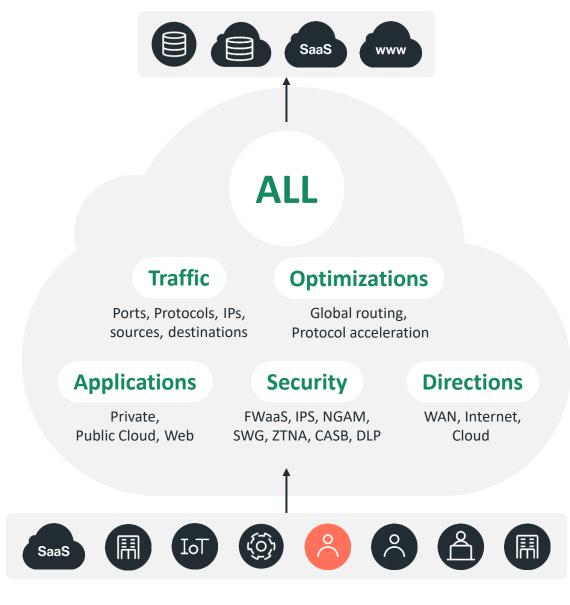
Melbourne O Auckland, New Zealand O

#### Cato SSE 360: 提供無邊界的資安防護架構

Beyond user-to-application access

#### **All Traffic, Same Security**

- Converged one architecture for all edges
- Simple one policy engine and rule base
- Holistic
   all traffic, all edges, all directions
- Optimized w/ global private backbone



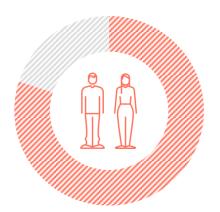


#### IT的陰影!



### 97% of cloud apps

used in the enterprise are shadow IT1



#### 80% of workers

admit to using SaaS applications at work without getting approval from IT<sup>2</sup>



The average company has

975 unknown cloud services<sup>3</sup>



Shadow IT is

#### 50% or more

of IT spending at large enterprises<sup>5</sup>



#### 67% of teams

have introduced their own collaboration tools into an organization<sup>4</sup>



## 40% of organizations

have experienced a cloud-based data **breach** in the past 12 months<sup>6</sup>



# IT的盲點

























受管制其及授權軟體

未授權之軟體

**Shadow IT** 



#### **Predefined Data Sets for Profiling of Sensitive Data**



350 Data Types

- Social security numbers [USA]
- Credit cards [Global]
- Bank account details [Germany]
- National identification numbers [Japan]

• ...



8 Compliance Categories

- PII
- PCI DSS
- HIPAA
- Financial Data

...



30 Countries

- Germany
- Italy
- UK
- US
- Japan

• ..



40 File types

- Java
- PDF
- Excel
- Executable
- Microsoft Word
- •

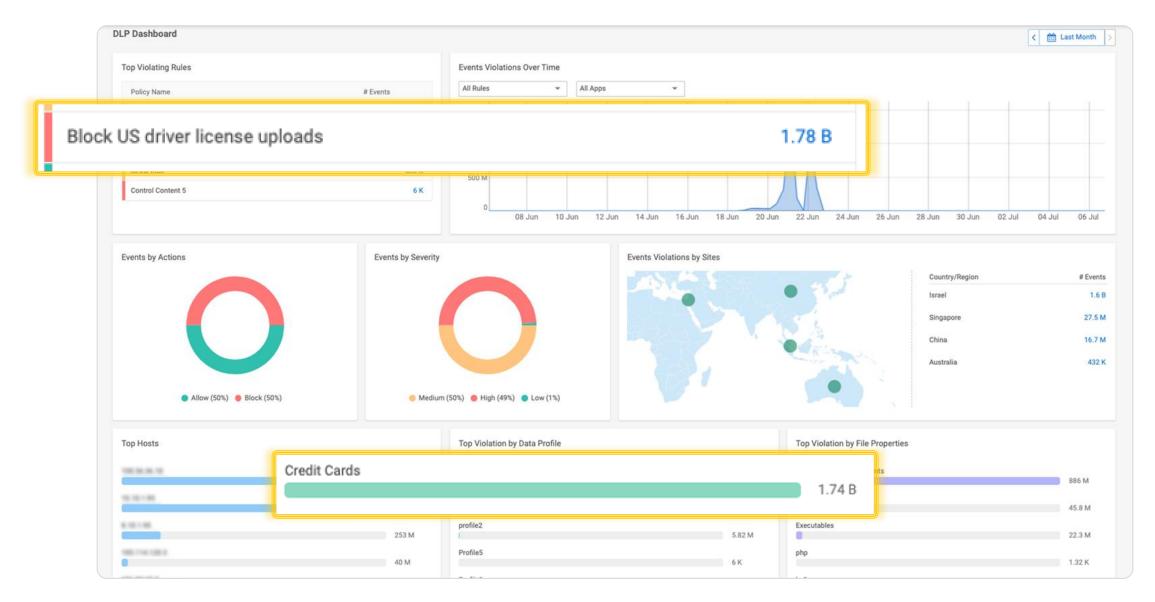
#### A profile consists of a combination of data types

For example, the profile "PCI Germany" consists of:

- International Bank Account Numbers [Germany]
- Bank account details [Germany]
- Credit card numbers [Universal]



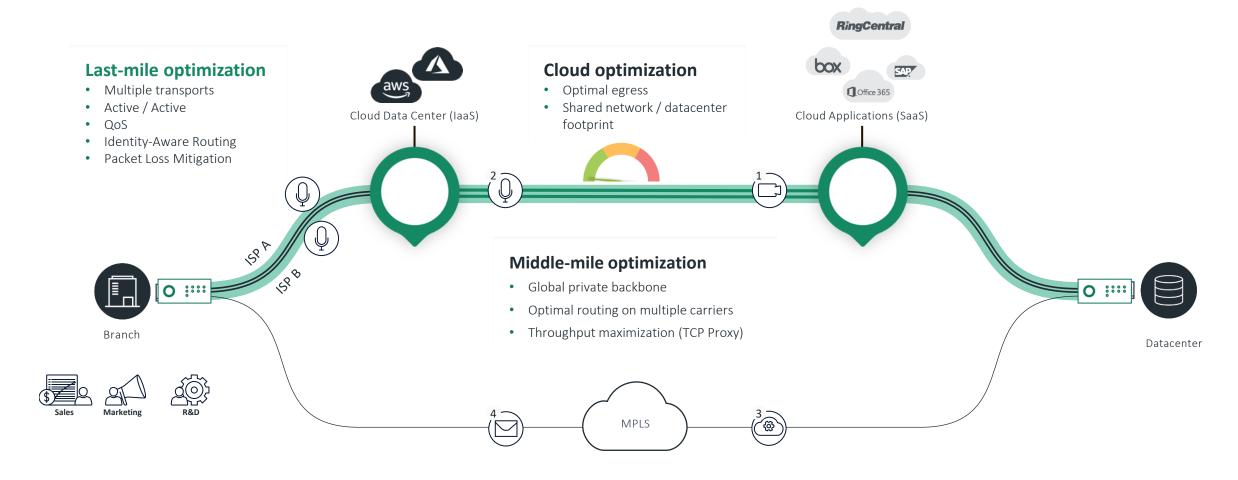
#### **DLP Dashboard**





#### **Network Optimization**

#### Optimized WAN and Cloud Connectivity

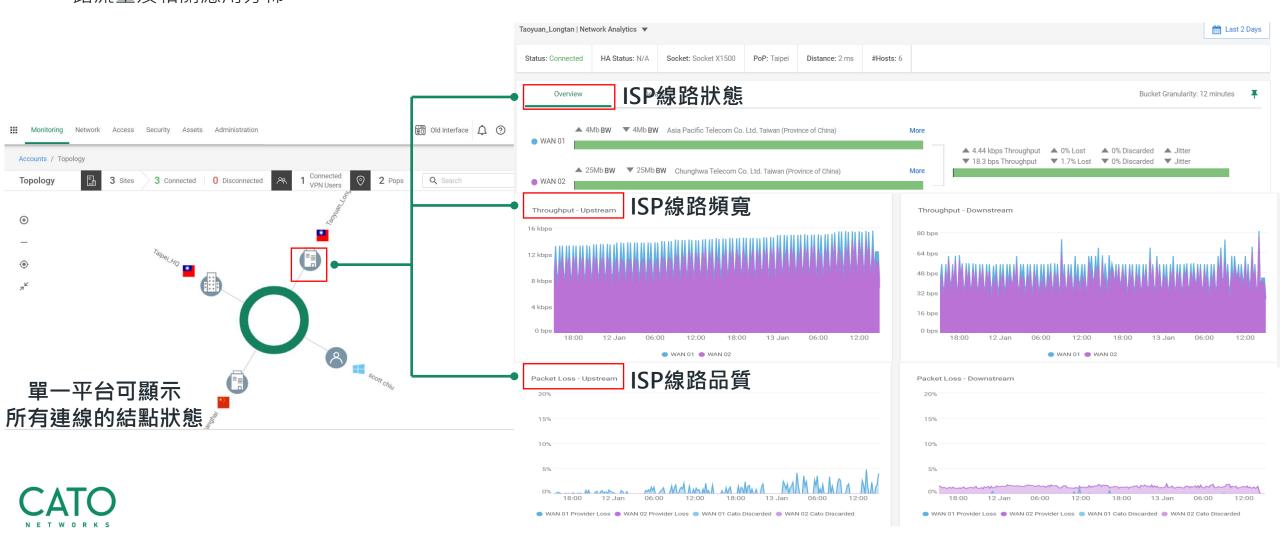


Multi-Segment optimization

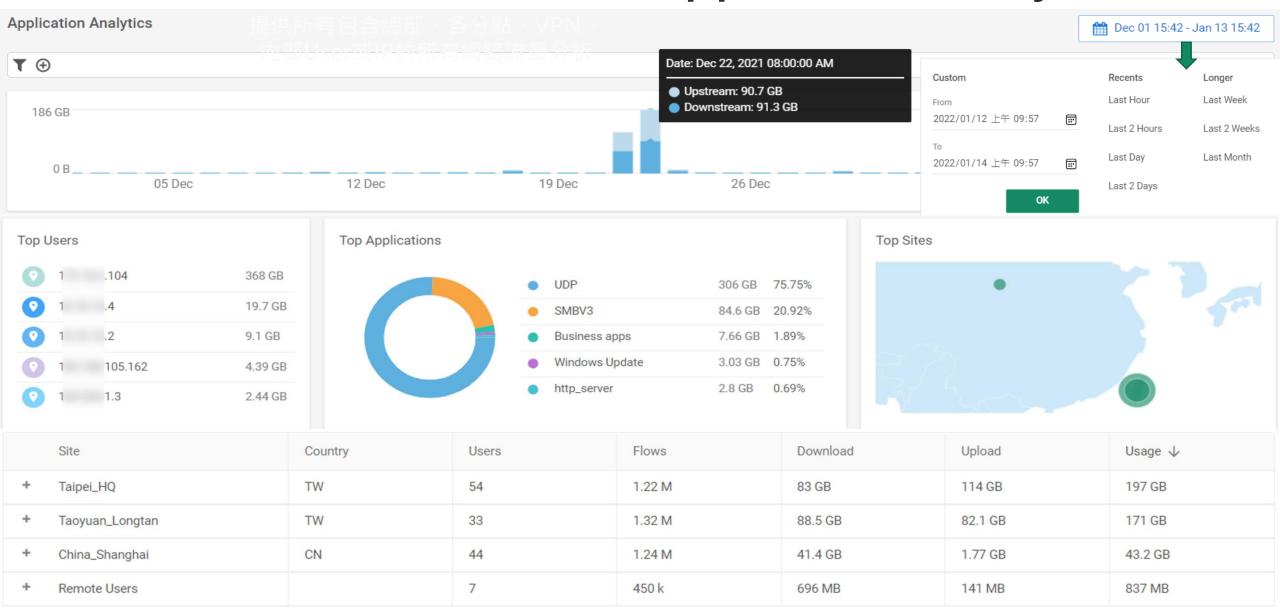


# NoC網路流量分析機制-Network Analytics

▶藉由Cato SASE Cloud 功能介面上所提供的NoC網路流量分析機制,可讓網管人員統一且快速得知集團內整體網路流量及相關應用分佈。



# NoC網路流量分析機制-Application Analytics



# SoC 日誌機制-Events Fields



> Category

# Cloud Apps Security Risk Score-風險分析

➤ Cato給每個雲端應用分配一個風險分數・介於0 (無風險) 到10 (非常高風險) 之間・以協助客戶評估該應用是否符合企業的安全政策要求。Cato採用內部人工智能引擎來分析相關數據和指標並生成風險分數・包括・

- 一般性、合規性和安全性數據(顯示在需應用程序目錄中)
- 基於最近有關該雲端應用提供或開發公司的新聞文章的情緒分析(機器學習技術)。
- 有關軟件漏洞和違規行為的訊息
- 來自Cato研究實驗室的內部威脅情報和領域相關訊息

Zoom

Zoom is a software company that offers a communications platform that connects people through video, voice, chat, and content sharing.

Internet Conferencing, Voip Video

#### General

Zoom is a software company that offers a communications platform that connects people through video, voice, chat, and content sharing. It has an easy, reliable cloud platform for video and audio conferencing, collaboration, chat, and webinars across mobile devices, desktops, telephones, and room systems. Zoom unifies cloud video conferencing, simple online meetings, and group messaging into one easy-to-use platform. The companys mission is to create a people-centric cloud service that transforms the real-time collaboration experience and improves the quality and effectiveness of communications. Zoom was founded in 2011 and is headquartered in San Jose, California, United States.



San Jose, California, United States



http://zoom.us



△ 1001-5000



#### Compliance

(X) ISAE 3402



(X) SOC 2

✓ ISO 27001

× SOC 3

(X) SOX

✓ HIPAA

#### Security

✓ MFA

SSO

Encryption At Rest

Trusted Certificates

Audit Trail

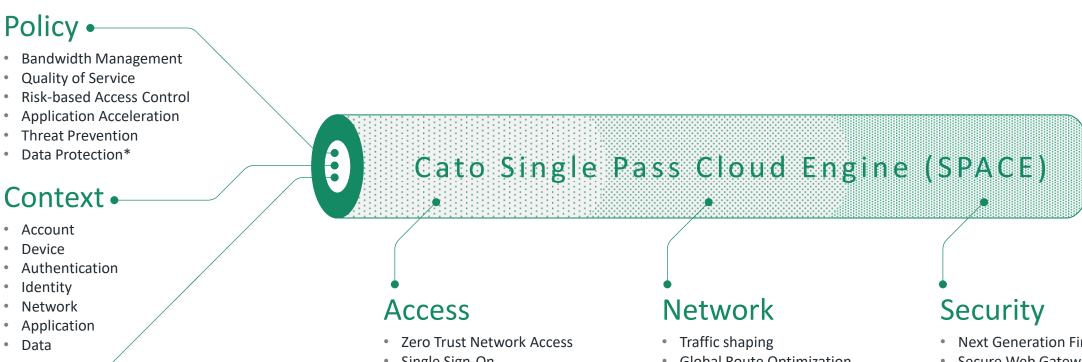
HTTP Security Hea

TLS Enforcement

Remember Passwords

#### Single Pass Cloud Engine (SPACE): Just-in-time Contextual Policy Enforcement

The building block of the Cato SASE backbone architecture



- Flows•
- Branches
- Users
- Applications
- Clouds
- Systems
- IoT

- Single Sign-On
- Multi Factor Authentication
- Risk-Based Application Access
- Global Route Optimization
- WAN & SaaS Acceleration
- Multi-Cloud Networking

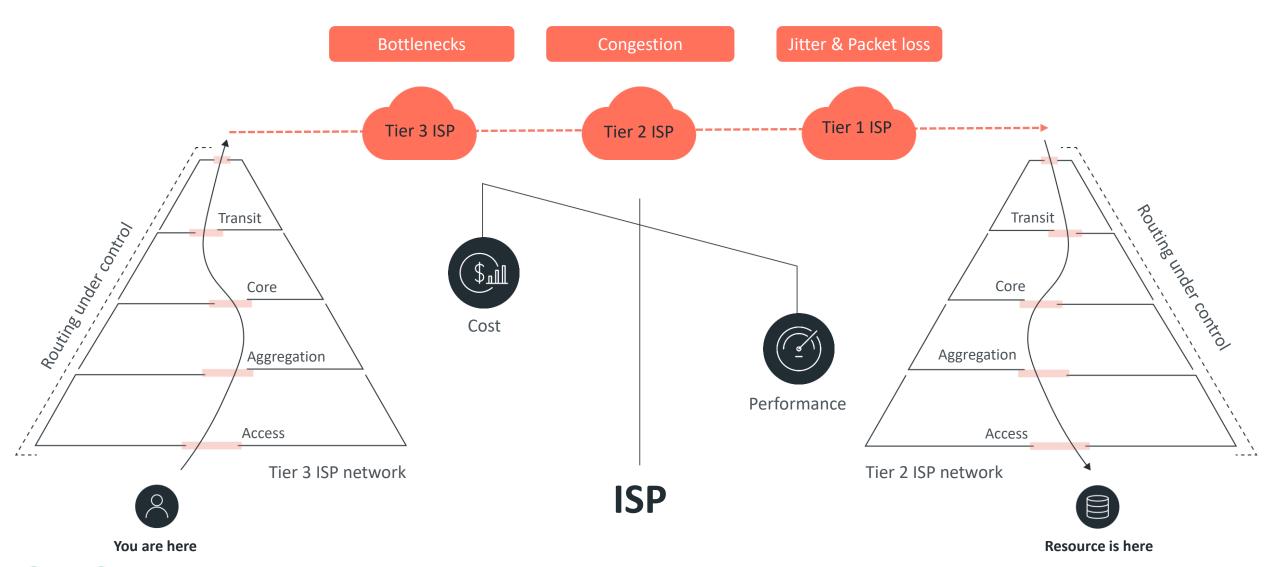
#### **High Performance**

- Up to 2 Gbps from a single edge
- W/ Full decryption
- W/ All security engines on

- Next Generation Firewall
- Secure Web Gateway
- Next Generation Anti Malware
- Intrusion Prevention System
- Cloud Access Security Broker\*
- Data Loss Prevention\*
- Remote Browser Isolation\*

#### **The Problem**

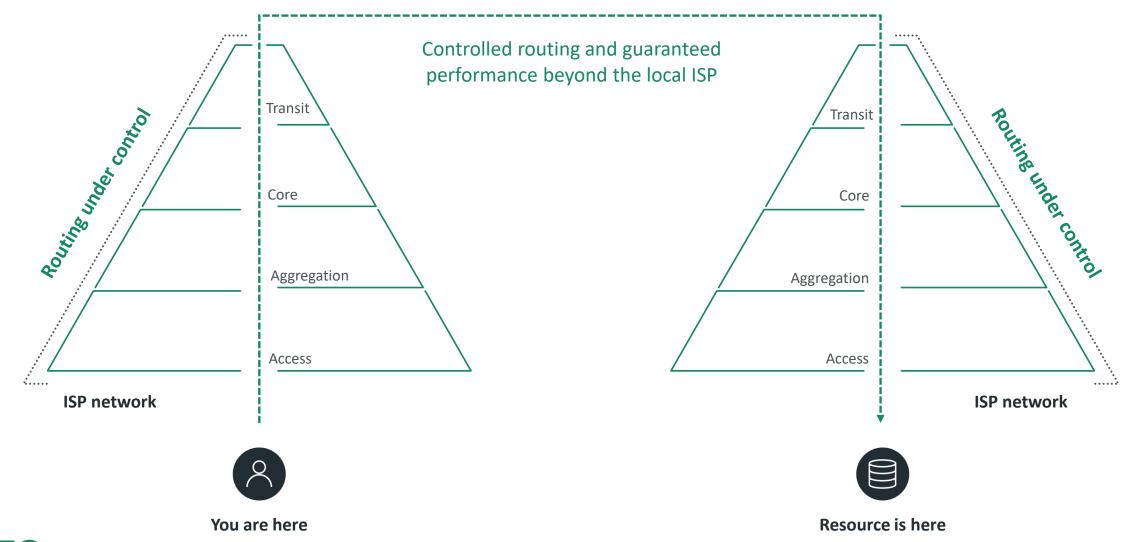
Unpredictable Routing and Unreliable Performance





#### **The Solution**

#### **Private Backbone**





### Real world example: Public Internet (3x Playback)

Trace Route to 103.44.68.1



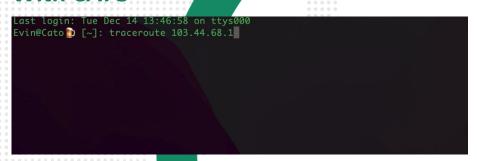


### Real world example: Public Internet

Trace Route to 103.44.68.1



#### With CATO

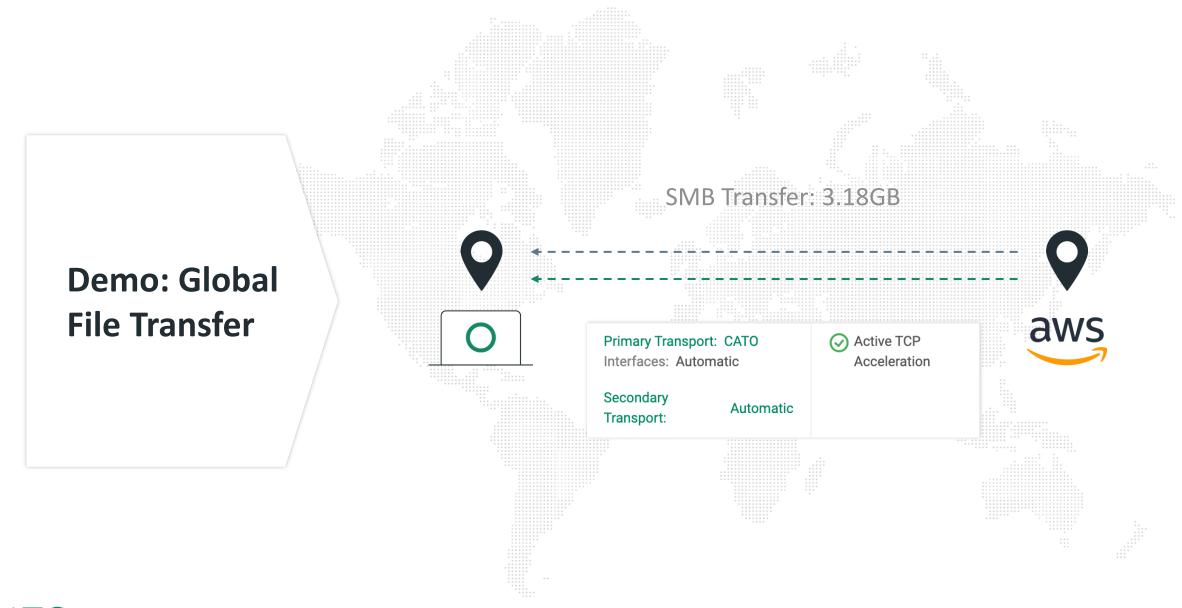




The Woodlands,
Texas







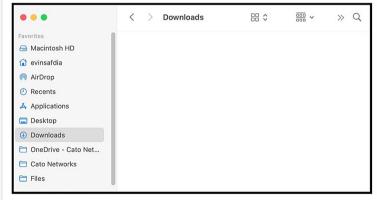


# Demo: Global File Transfer

(90x Playback Speed)















# Cato Networks 公司簡介



#### **Company Facts**



Shlomo Kramer, CEO (Check Point, Imperva)



**Gur Shatz, President & COO** (Imperva, Incapsula)



\$532M

\$2.5B Valuation



500+

**Employees** 



70+

PoPs



1,100+

Customers



17,000+

Branches and clouds



300,000+

Remote Users



150+

Countries



\$\frac{246\%}{}\$ ROI & Payback < 6 months according to Forrester



#### **Selected Customers by**

#### **Employees**

#### Sites

#### **Countries**

#### **Bandwidth**

#### **Remote Users**



SIXT

**SOLENIS** 

CLUBCORP®

25 Gbps

vitesco **TECHNOLOGIES** 

50,000

1,001

33

Hospitality

21,000

Automotive

Communications

Retail

Chemicals



45,000

Transportation



547

Services



28

Manufacturing



20 Gbps

Manufacturing



5,400

Holding



43,000

Food & Beverage



**254** 

Manufacturing



23

Manufacturing



18 Gbps

Construction

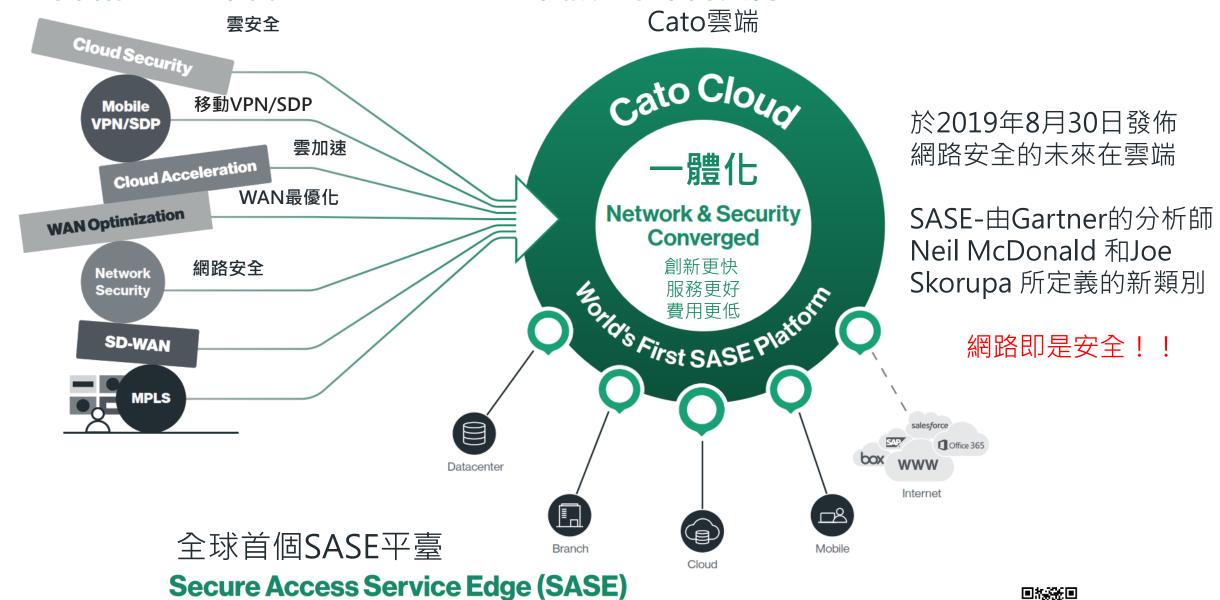


5,100

Manufacturing



#### 全球首推SASE平台 -- Gartner SASE架構是未來的趨勢





Cato is the convergence of networking and security in the cloud



# 導入Cato Networks 客戶所帶來的效益

降低資安/網路設 備的投資成本 降低跨國 線路成本 簡化管理網路 所耗的人力成本

增強網路 資訊安全防護邊 界

加速雲端應用程 式存取效能 大幅降低 人力成本





Cato SASE. Ready for Whatever's Next.







