Who's Going to Clean the Internet?

Kevin Peterson, CISSP
Director | Security & Network Transformation

KEVIN PETERSON, CISSP
Director | Security & Network Transformation

29 Years in Security

8 Years as a Fortune 15 Security Practitioner

5 Years as a Silicon Valley Product Manager

3 Years as a Silicon Valley Security Executive

2 IT Related Patents

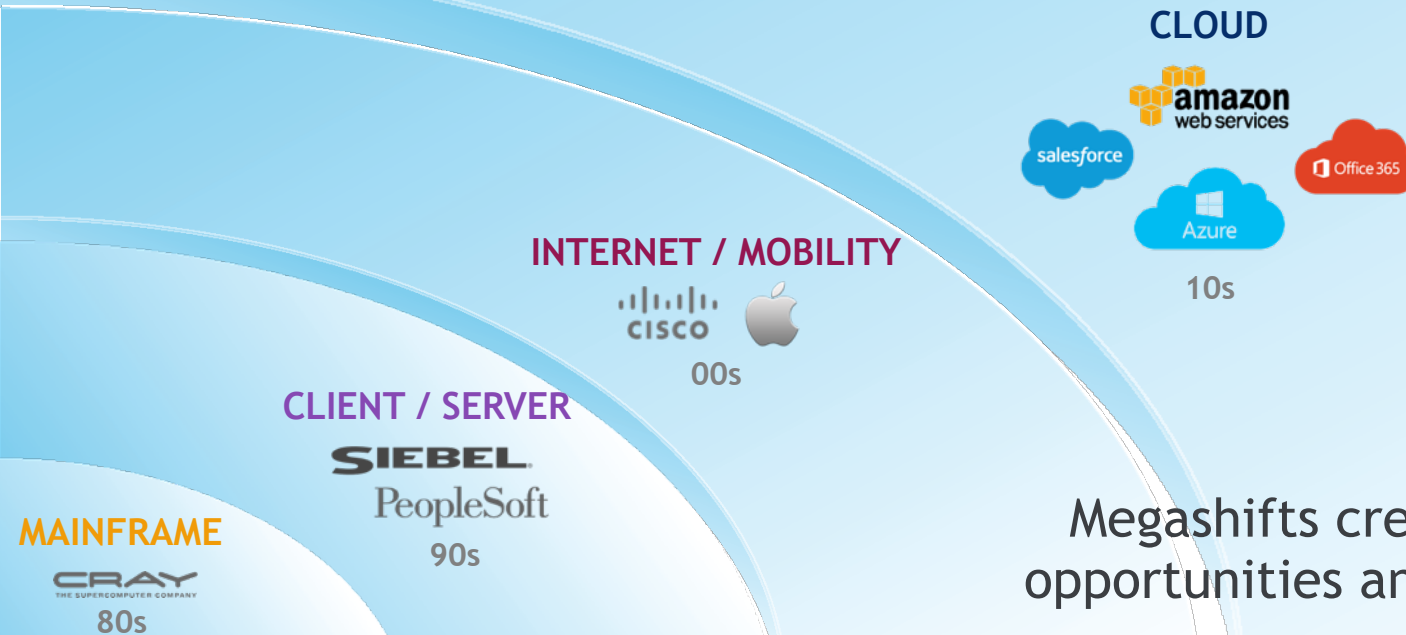**1** IT Security Book

47 Speaking Events in 2016 Alone

And more **blog posts**, **webcasts**, **white papers**, and **social media posts** than can be reliably counted.

U.S. AIR FORCE

Microsoft

zscaler

JUNIPer NETWORKS

McKESSON

SHERIFF KNOX COUNTY

Plus multiple **advisory board positions** from Silicon Valley to higher education.
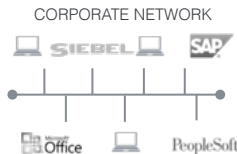
Cloud and mobility are creating the biggest megashift

CLOUD

amazon
web services

salesforce

Azure

Office 365

10s

INTERNET / MOBILITY

CISCO

00s

CLIENT / SERVER

SIEBEL

PeopleSoft

90s

MAINFRAME

CRAY
THE SUPERCOMPUTER COMPANY

80s

Megashifts create business opportunities and new leaders

Internet Gateway: Security perimeter to protect the corporate network
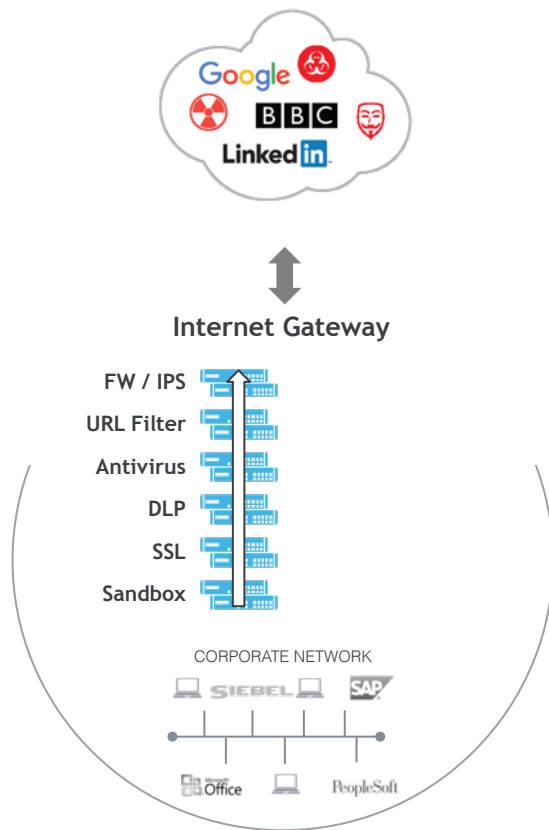

CORPORATE NETWORK

Circa 1987 – 1994– 1999 – 2000 – 2004

Internet Gateway: Security perimeter to protect the corporate network

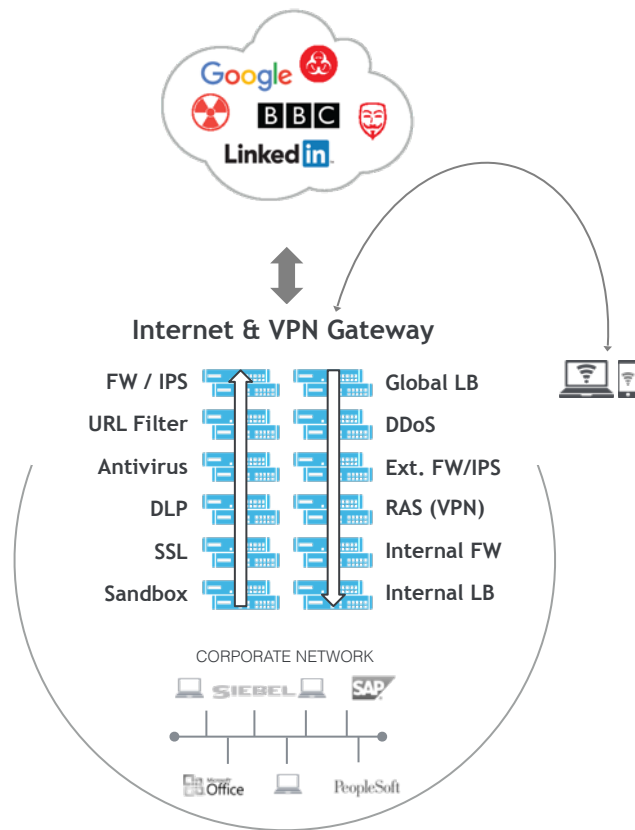**Internet gateways**
Secure access to the Internet

Internet Gateway

FW / IPS
URL Filter
Antivirus
DLP
SSL
Sandbox

CORPORATE NETWORK

SIEBEL   SAP

Office   PeopleSoft

Circa 1987 – 1994– 1999 – 2000 – 2004

Internet Gateway: Security perimeter to protect the corporate network

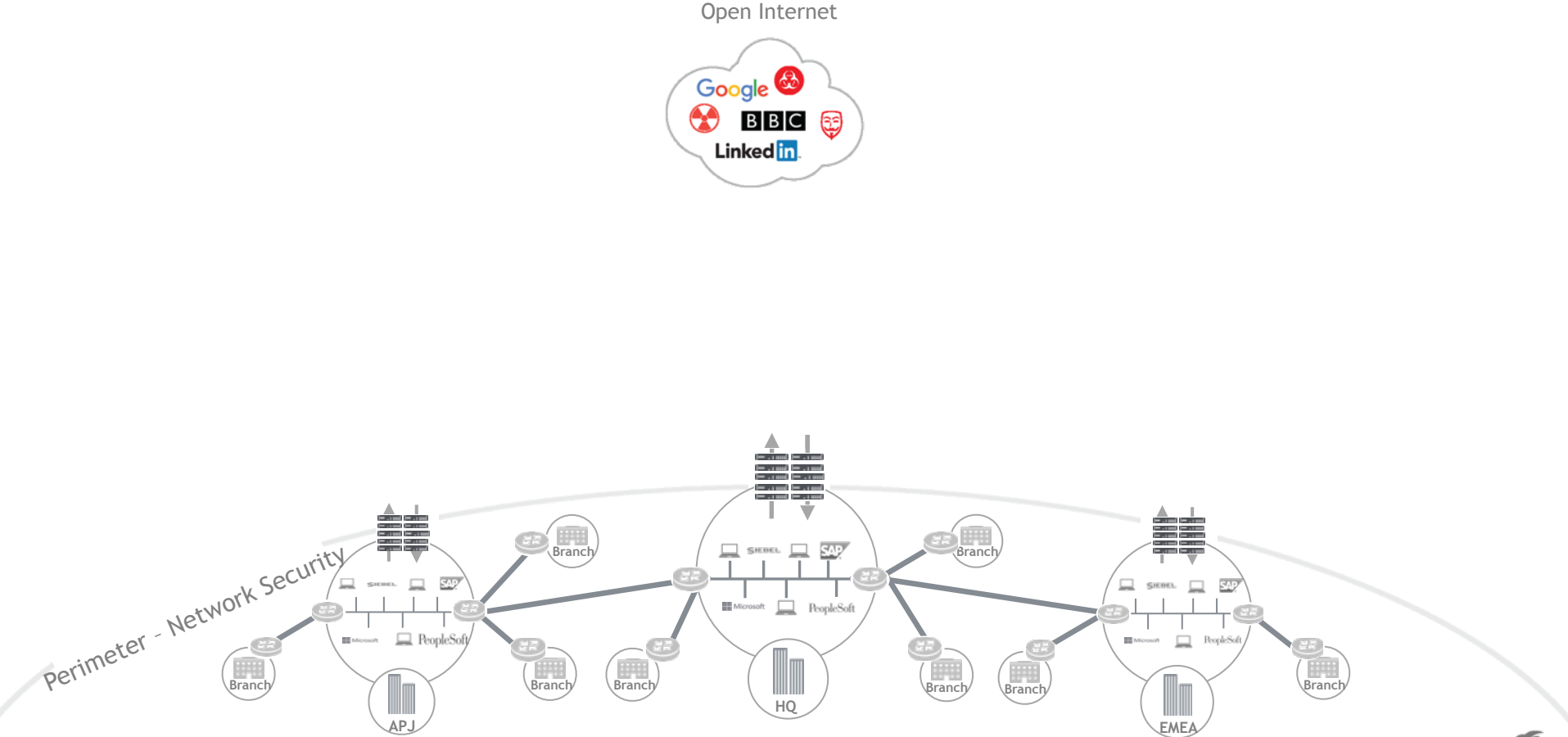**Internet gateways**
Secure access to the Internet

VPN gateways
Remote access to DC apps

Internet & VPN Gateway

FW / IPS	Global LB
URL Filter	DDoS
Antivirus	Ext. FW/IPS
DLP	RAS (VPN)
SSL	Internal FW
Sandbox	Internal LB

CORPORATE NETWORK

SIEBEL   SAP

Office   PeopleSoft

Circa 1987 – 1994– 1999 – 2000 – 2004

Cloud and mobility break network security

Open Internet

Perimeter – Network Security

Cloud and mobility break network security
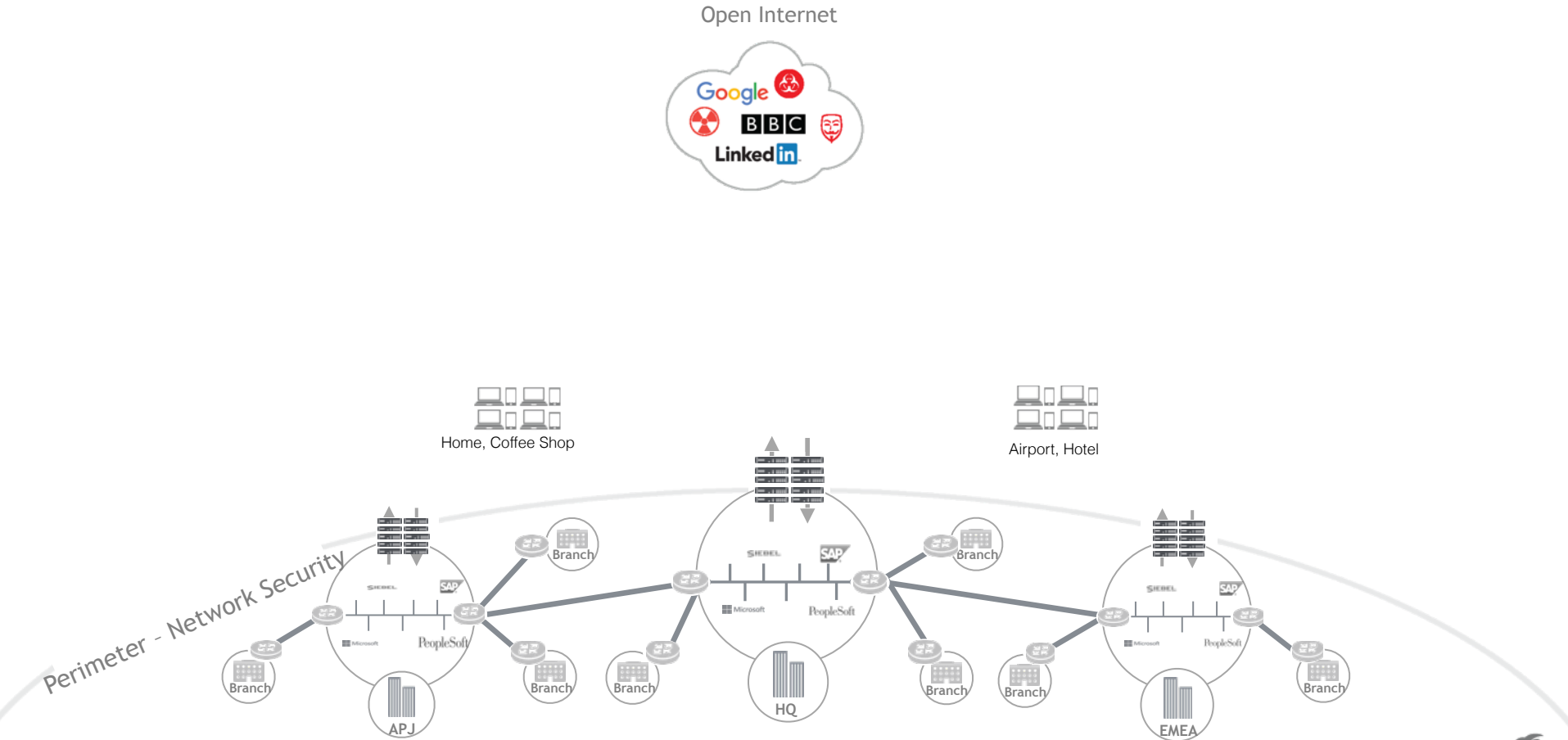
Open Internet

Home, Coffee Shop

Airport, Hotel

Perimeter – Network Security

Branch

Branch

Branch

APJ

Branch

Branch

HQ

Branch

Branch

Branch

Branch

EMEA

Branch

Cloud and mobility break network security

SaaS   Open Internet   IaaS

"GE will run 70 percent of its workload in the cloud by 2020"

Jim Fowler, CIO

Home, Coffee Shop

Airport, Hotel

Perimeter – Network Security

Branch

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Cloud and mobility break network security

SaaS

Open Internet

IaaS
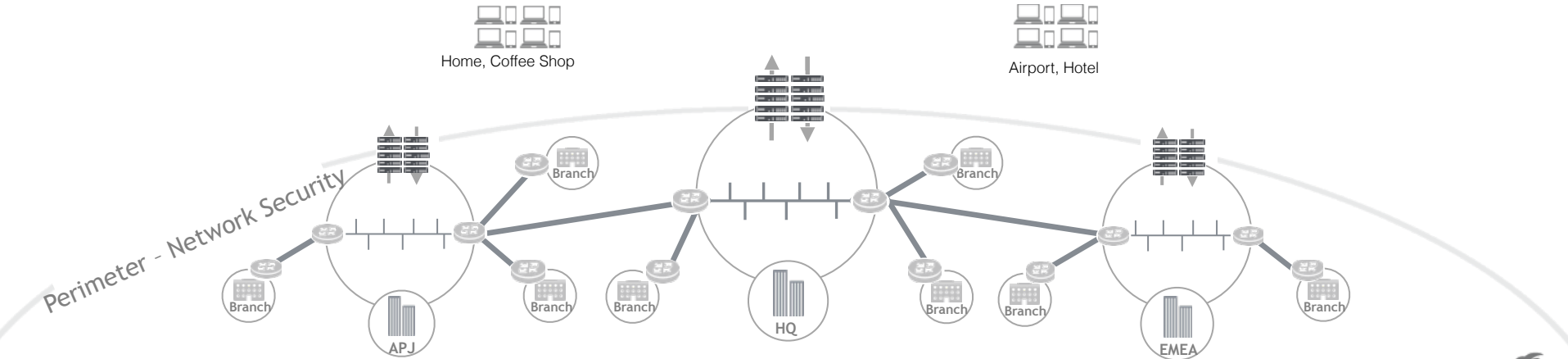
"GE will run 70 percent of its workload in the cloud by 2020"

Jim Fowler, CIO

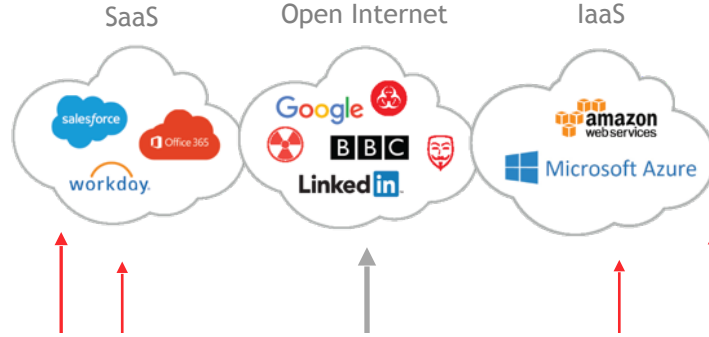**"Office 365 was built to be accessed via direct Internet connection"**
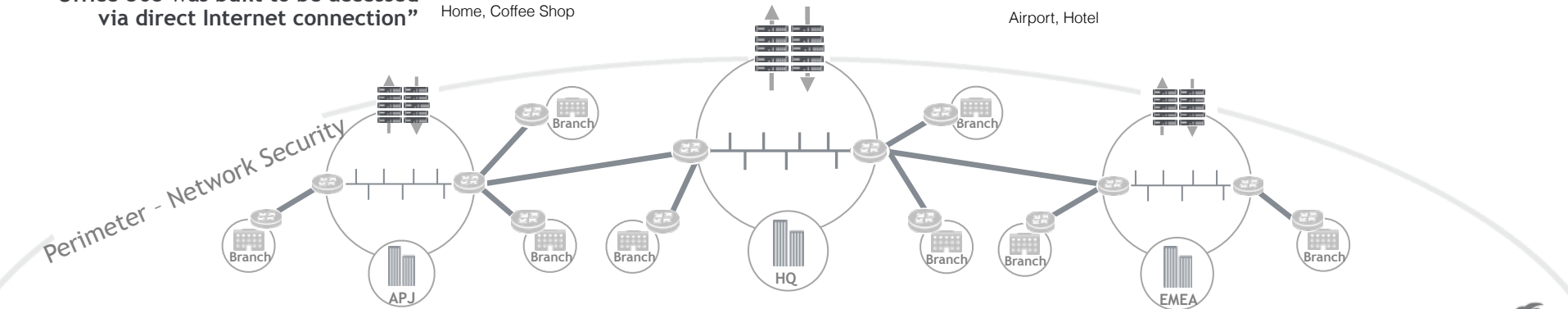
Home, Coffee Shop

Airport, Hotel

Perimeter – Network Security

Branch

Branch

Branch

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Branch

EMEA

Cloud and mobility break network security

SaaS

Open Internet

IaaS

"GE will run 70 percent of its workload in the cloud by 2020"

Jim Fowler, CIO

"The Internet will be our new corporate network by 2020"

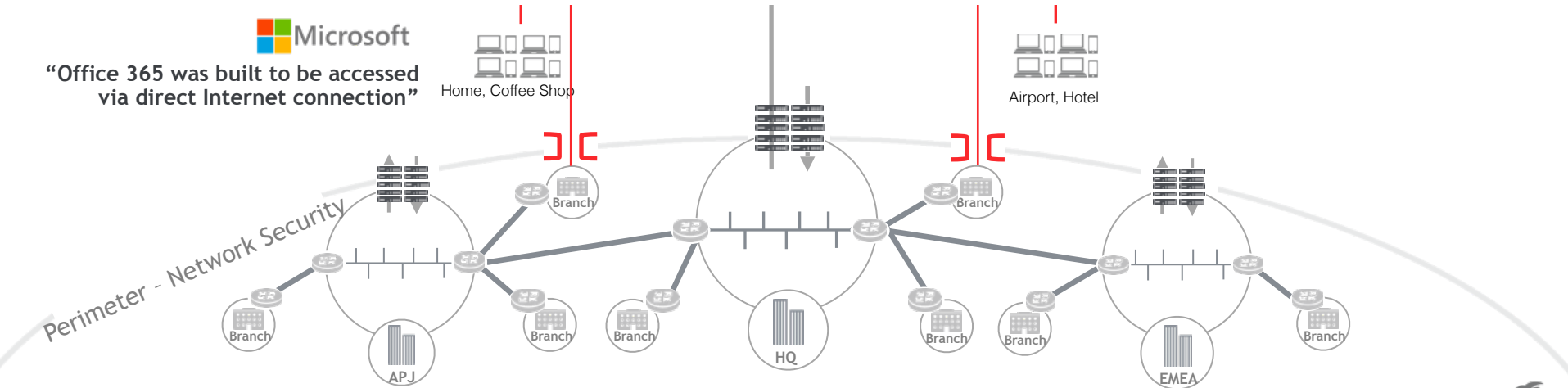*Frederik Janssen, Head of Infrastructure*
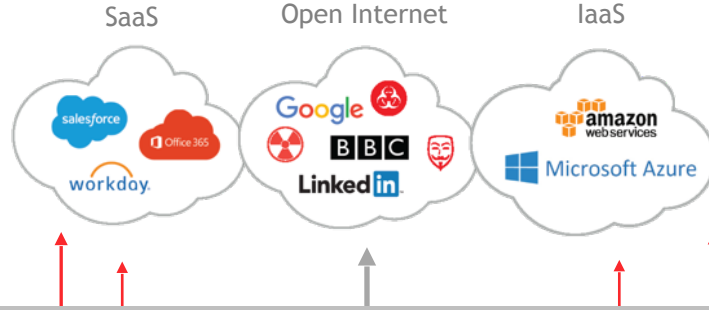
The Internet is Your New Corporate Network

"Office 365 was built to be accessed via direct Internet connection"
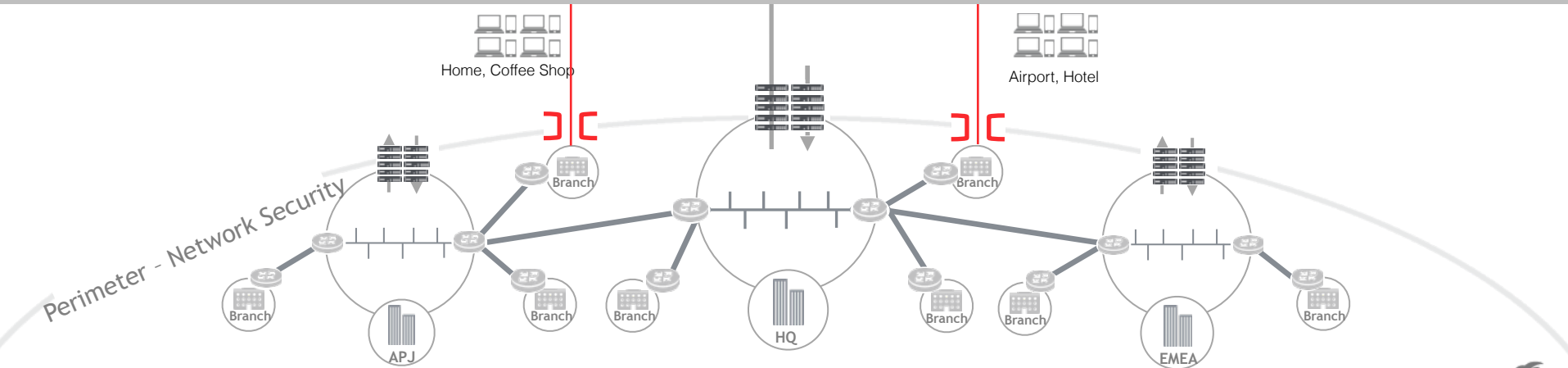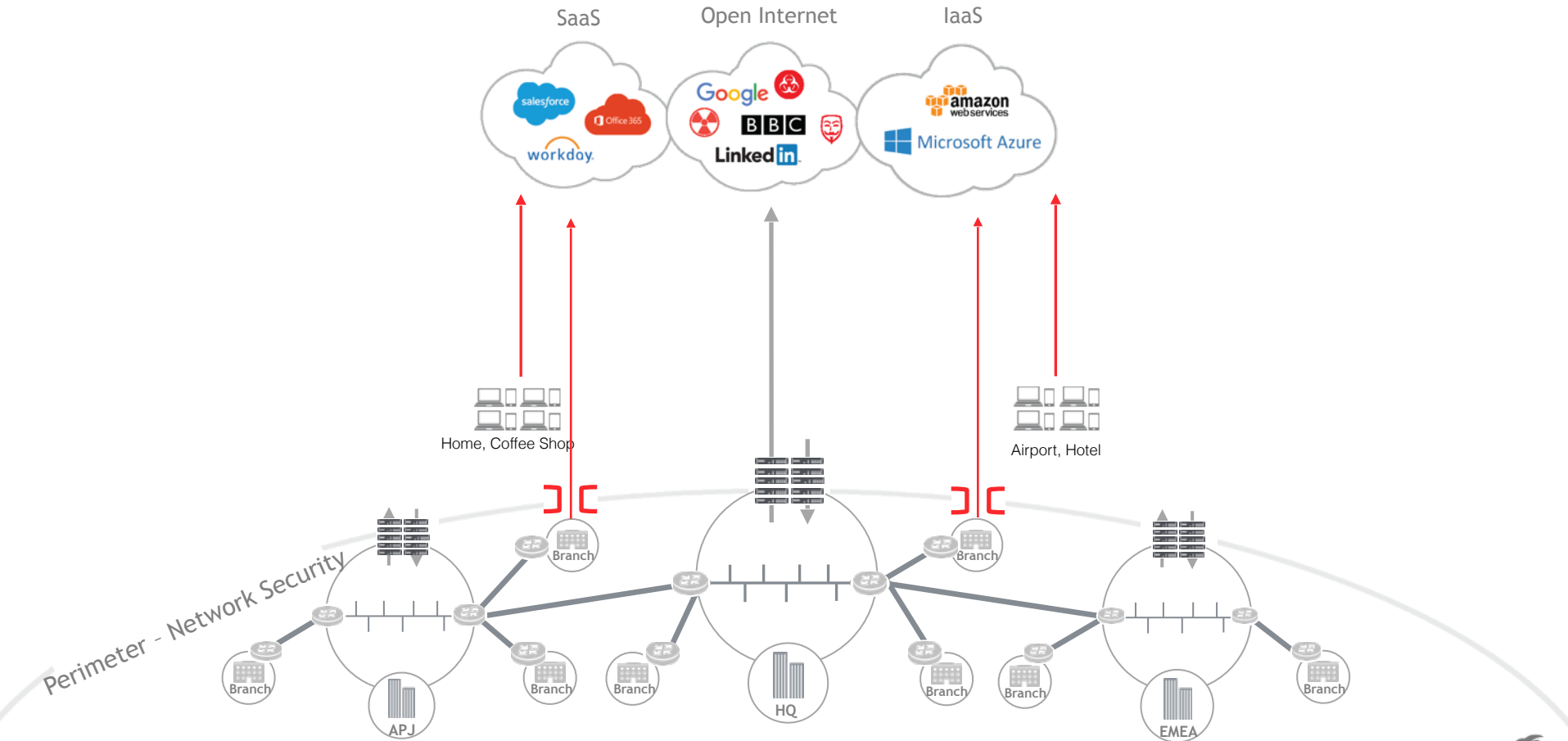
Home, Coffee Shop

Airport, Hotel

Perimeter - Network Security

Branch

Branch
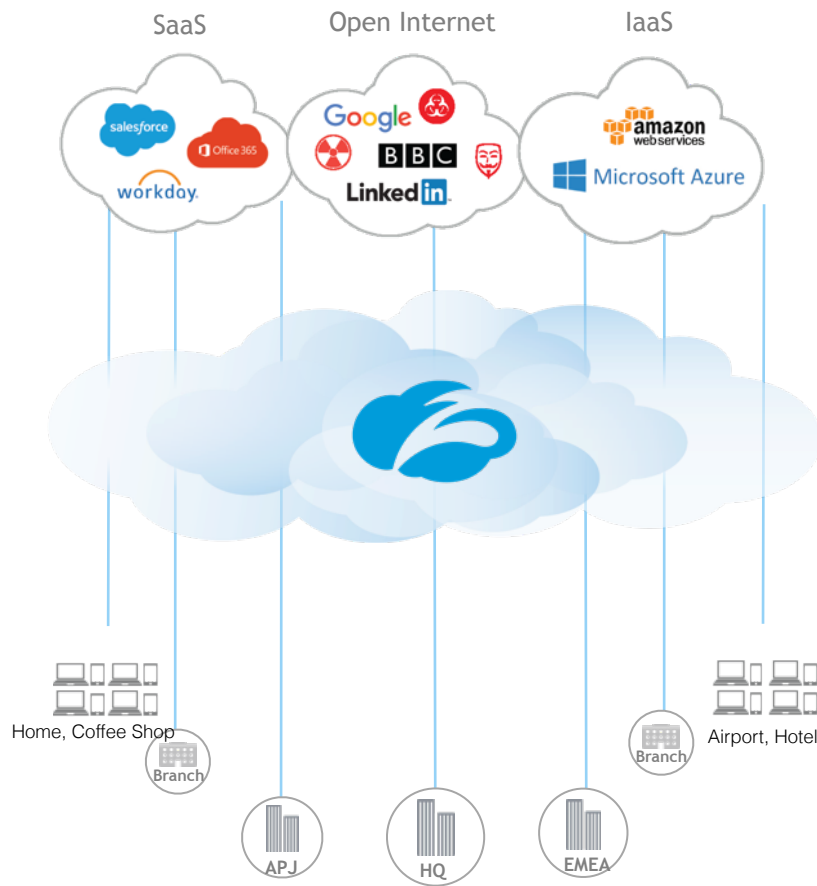
Branch

APJ

Branch

HQ

Branch

Branch

Branch

EMEA

Branch

Cloud and mobility break network security

SaaS Open Internet IaaS

How do you secure a network (Internet) you don't control?

Home, Coffee Shop

Airport, Hotel

Perimeter - Network Security
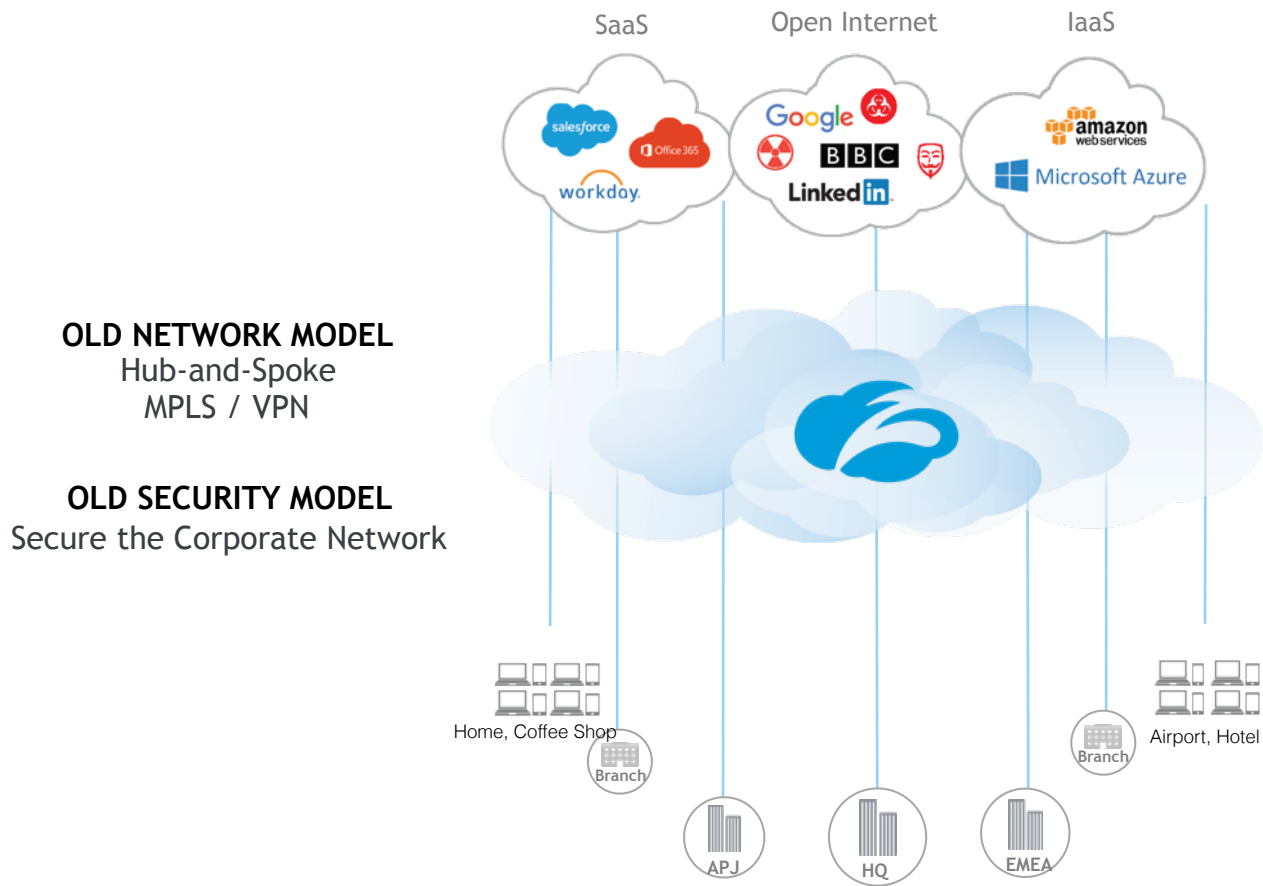
Branch
Branch
APJ
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Branch
HQ
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Branch
Branch
EMEA
Branch

Cloud and mobility break network security

Zscaler enables secure network and application transformation

SaaS

Open Internet

IaaS

Home, Coffee Shop

Branch

Airport, Hotel

Branch

APJ

HQ

EMEA

Zscaler enables secure network and application transformation

SaaS

Open Internet

IaaS

OLD NETWORK MODEL
Hub-and-Spoke
MPLS / VPN

OLD SECURITY MODEL
Secure the Corporate Network

Home, Coffee Shop

Branch

Airport, Hotel

Branch

APJ

HQ

EMEA

Zscaler enables secure network and application transformation

SaaS   Open Internet   IaaS

OLD NETWORK MODEL
Hub-and-Spoke
MPLS / VPN

OLD SECURITY MODEL
Secure the Corporate Network

NEW NETWORK MODEL
Direct to Internet
Broadband / Wi-Fi / LTE / 5G

NEW SECURITY MODEL
~~Secure the Network~~
Securely connect users to apps

Home, Coffee Shop
Branch

Airport, Hotel
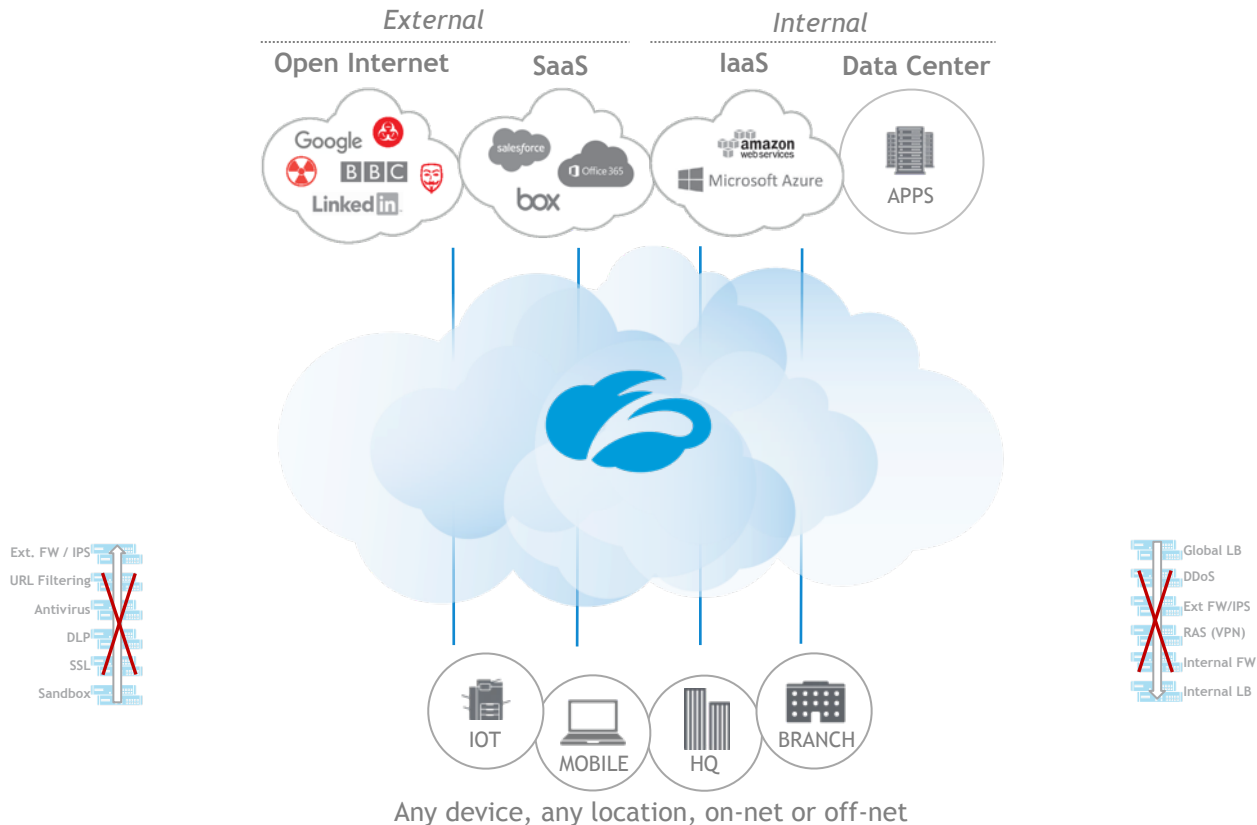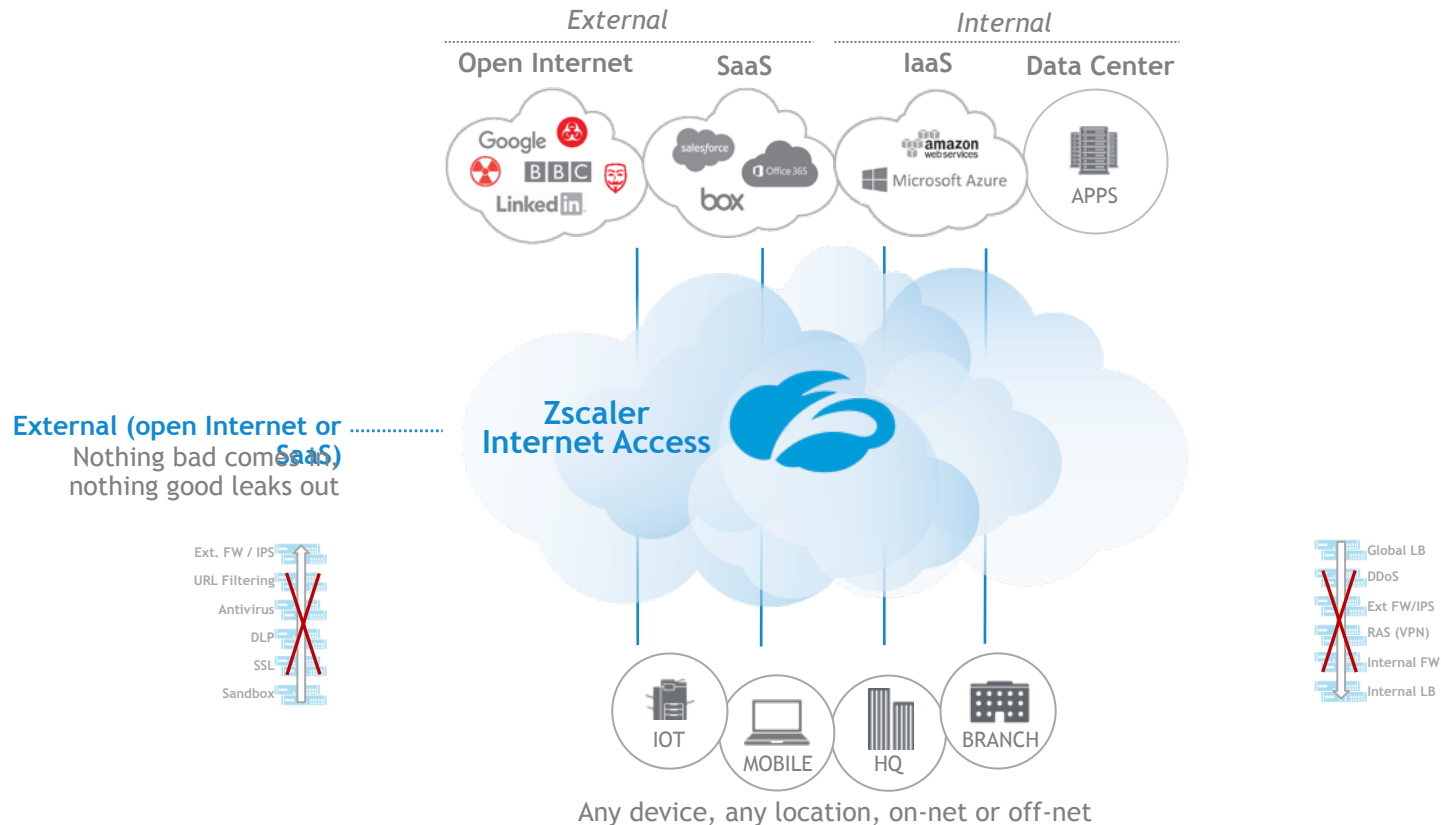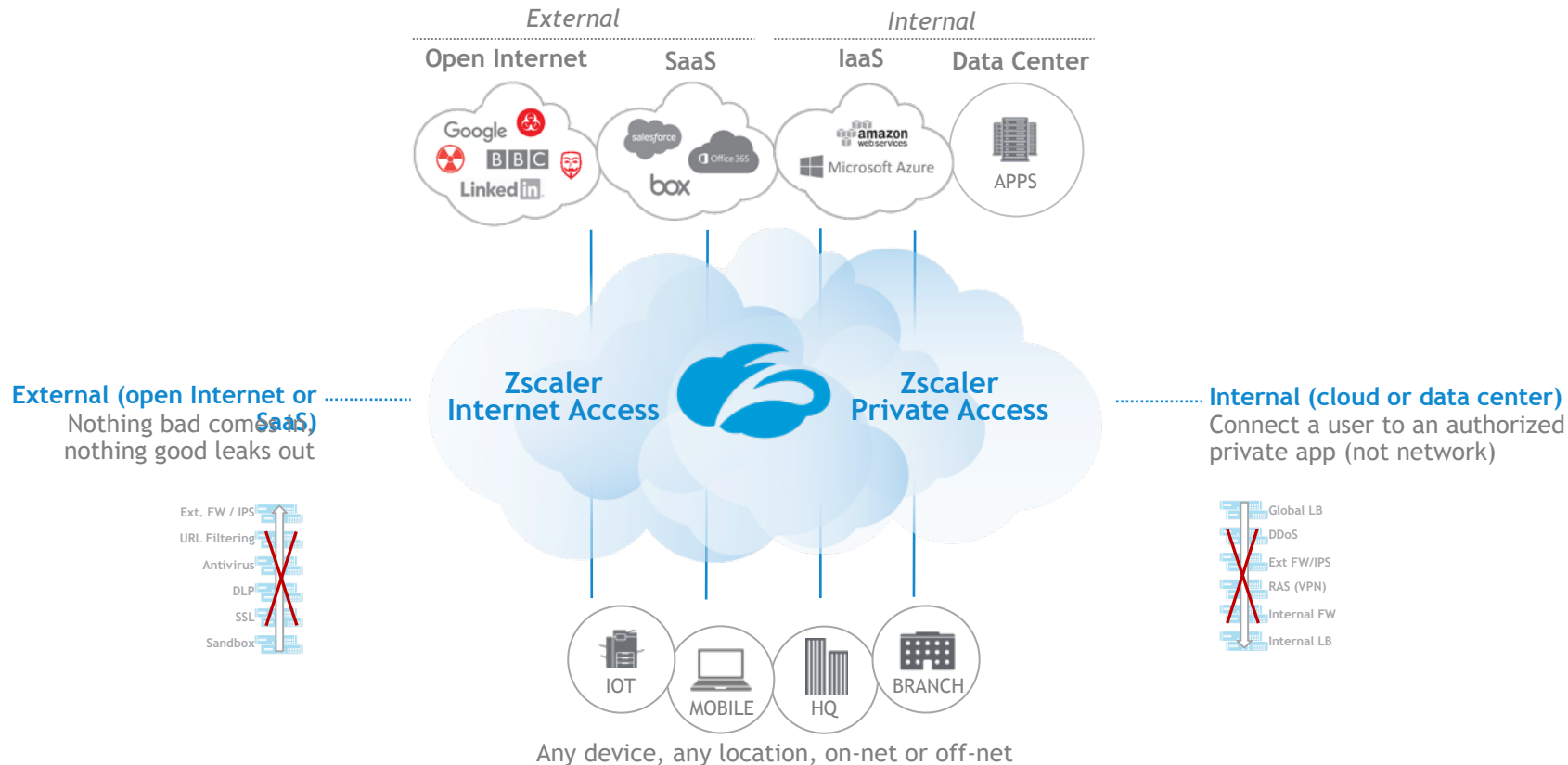Branch

APJ   HQ   EMEA
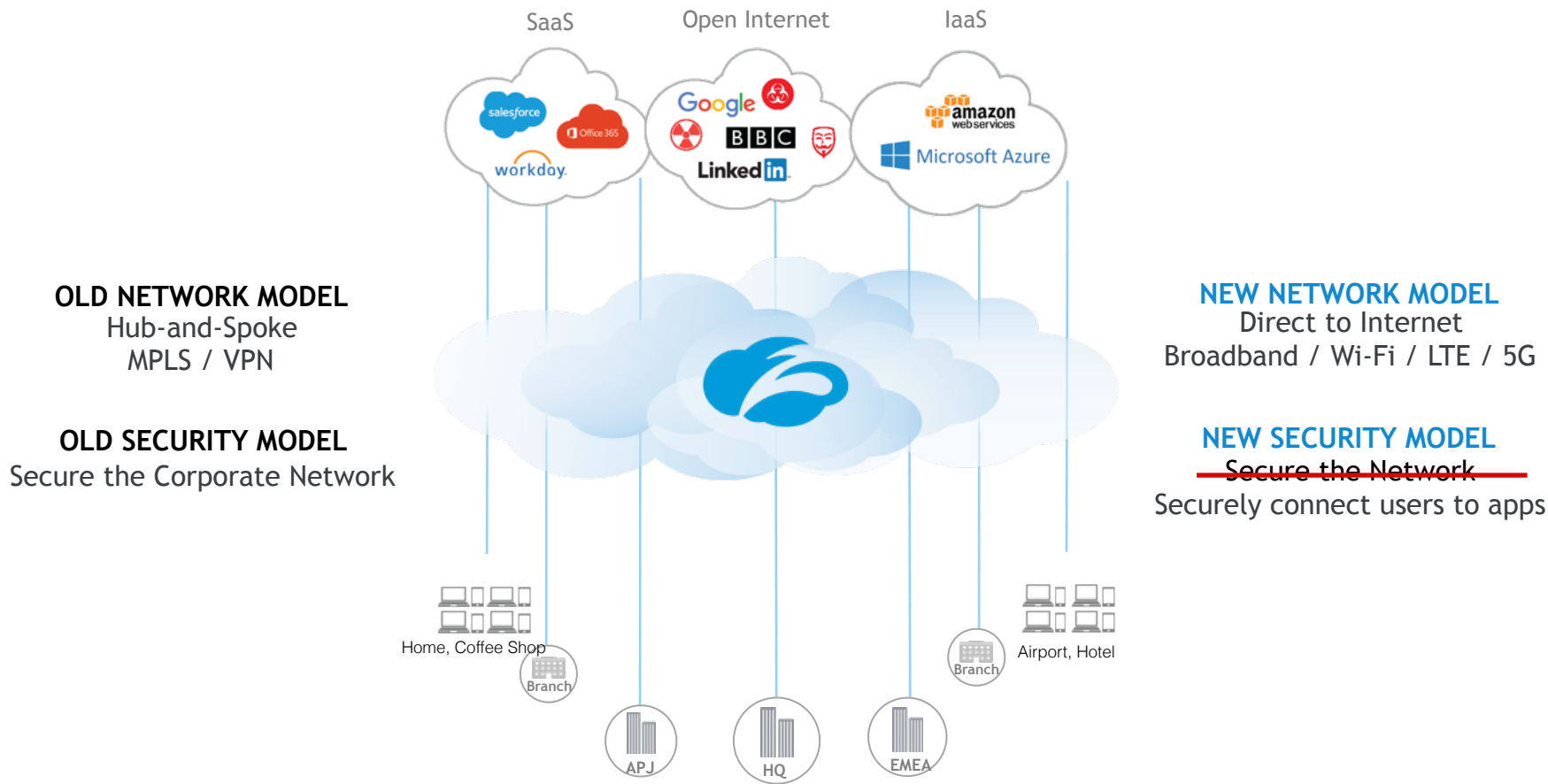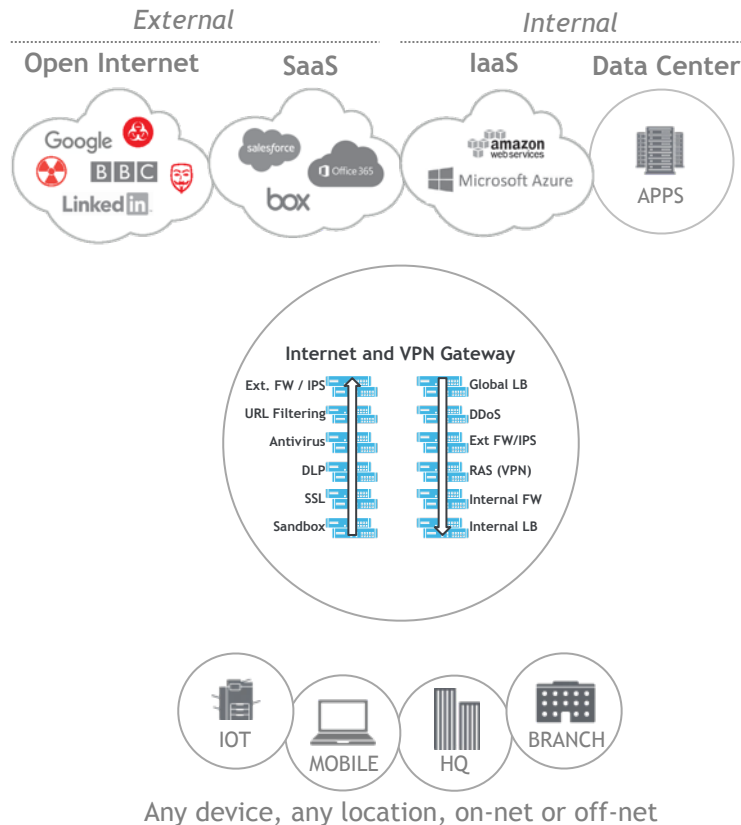
Zscaler enables secure IT transformation to the cloud

Fast and secure policy-based access to apps and services over the Internet

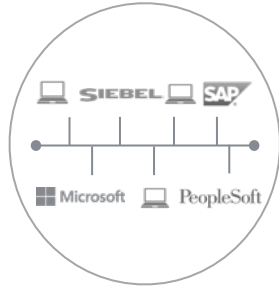# Zscaler enables secure IT transformation to the cloud

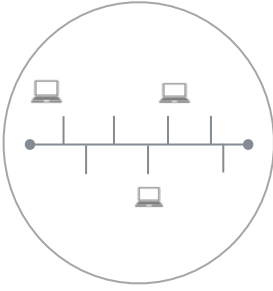Fast and secure policy-based access to apps and services over the Internet

Any device, any location, on-net or off-net

Zscaler enables secure IT transformation to the cloud

Fast and secure policy-based access to apps and services over the Internet

External   *Internal*

Open Internet   **SaaS**   **IaaS**   **Data Center**

Google
BBC
LinkedIn

salesforce
Office 365
box

amazon webservices
Microsoft Azure

APPS

Zscaler Internet Access

External (open Internet or SaaS)
Nothing bad comes in,
nothing good leaks out

Ext. FW / IPS
URL Filtering
Antivirus
DLP
SSL
Sandbox

Global LB
DDoS
Ext FW/IPS
RAS (VPN)
Internal FW
Internal LB

IOT   MOBILE   HQ   BRANCH

Any device, any location, on-net or off-net

Zscaler enables secure IT transformation to the cloud

Fast and secure policy-based access to apps and services over the Internet

Any device, any location, on-net or off-net

Zscaler enables secure IT transformation to the cloud

Zscaler enables secure IT transformation to the cloud

Zscaler enables secure IT transformation to the cloud

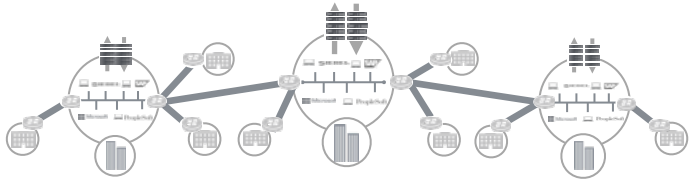**APP TRANSFORMATION**

DATA CENTER › CLOUD (SAAS/IAAS)

SaaS

Open Internet

IaaS

Zscaler enables secure IT transformation to the cloud

SaaS   Open Internet   IaaS

APP TRANSFORMATION
DATA CENTER > CLOUD (SAAS/IAAS)

NETWORK TRANSFORMATION
HUB AND SPOKE > DIRECT-TO-CLOUD
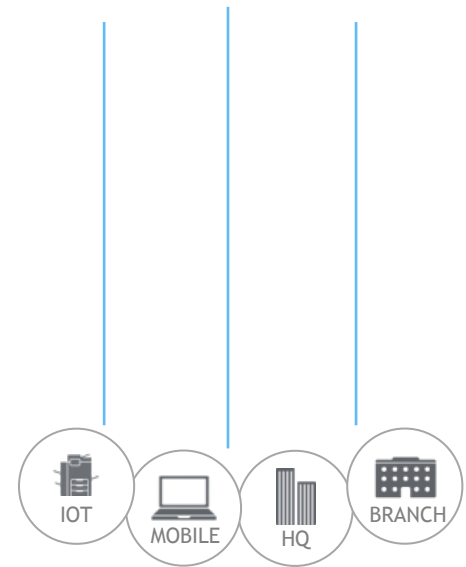
IOT   MOBILE   HQ   BRANCH

Zscaler enables secure IT transformation to the cloud

SaaS   Open Internet   IaaS

APP TRANSFORMATION
DATA CENTER ❯ CLOUD (SAAS/IAAS)

Internet & VPN Gateway

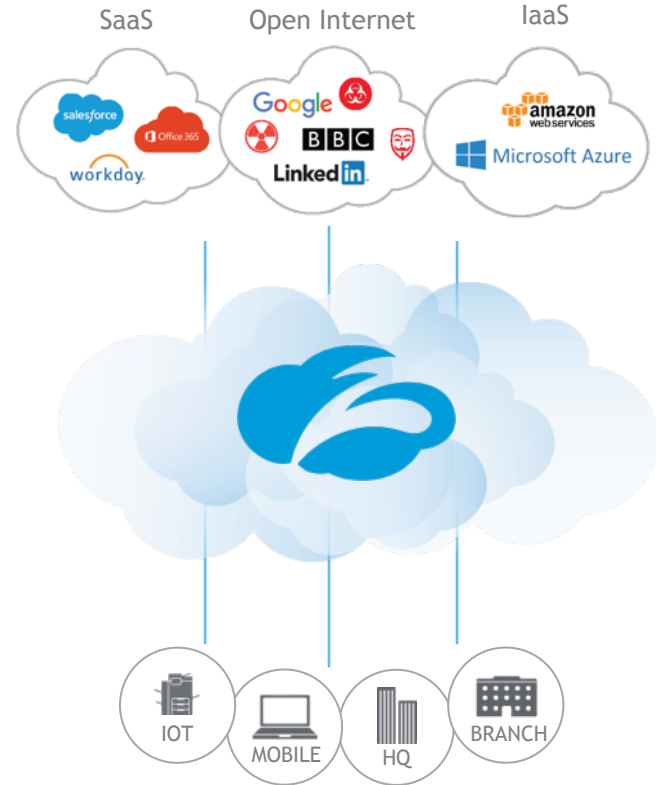|	
FW / IPS	Global LB
URL Filter	DDoS
Antivirus	Ext. FW/IPS
DLP	RAS (VPN)
SSL	Internal FW
Sandbox	Internal LB
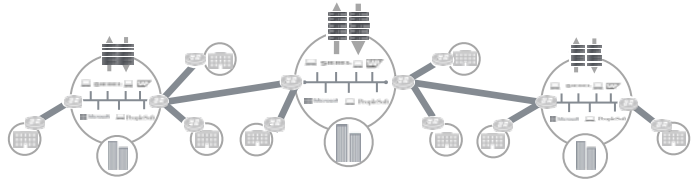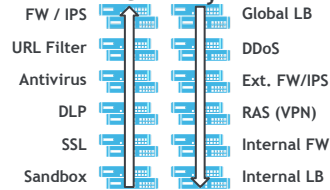
SECURITY TRANSFORMATION
NETWORK SECURITY ❯ USER AND DATA SECURITY

NETWORK TRANSFORMATION
HUB AND SPOKE ❯ DIRECT-TO-CLOUD

IOT   MOBILE   HQ   BRANCH

Better User Experience   **Reduced Business Risk**   **Business Agility**   **Lower TCO**   **Competitive Advantage**

Zscaler: The market leader in cloud security

Largest Cloud Security Platform in the World	
Mature Global Cloud Operations	
Experienced Team with Pioneers in Cloud Security	

Unparalleled Cloud Scale

40B
Daily requests

100
Data centers

185
Countries served

Most Discerning Enterprise Customers

2,700 CUSTOMERS

P&G   GE   Nestlé

UNITED   NHS   SIEMENS

Over 80 of the Fortune 500
54% International

Global Partners

Deutsche Telekom   at&t   HCL   BT

accenture   verizon   TATA   orange Business Services

CDW   OPTIV   shi

New Leaders Are Born When Megashifts Take Place
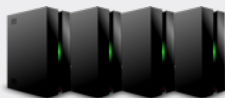
New Leaders Are Born When Megashifts Take Place