



# Secluded Semiconductor scenario

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# AGENDA

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- How does Zscaler fit into M-22-09 Mandate
- Securing Secluded SemiConductor's environment
- Disaster Strikes!
- Securing IOT /OT in a DR scenario
- Securing Smart City traffic
- Restoration of Services
- Q&A

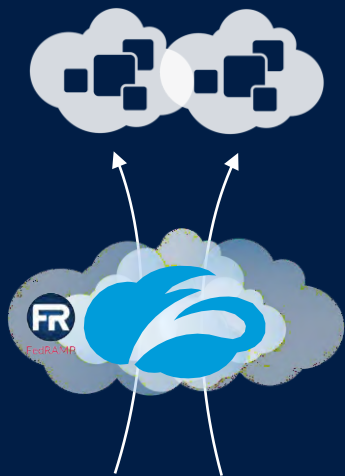
# Mapping to the M22-09 Mandate and the Zero Trust Pillars



# Zscaler Federal Security Cloud

Securely transform IT for a cloud world

Governance policies connect users to apps from anywhere,  
over any network based on TIC 3.0 Framework



**FAST. SECURE. RELIABLE.**

**Market  
Leader**

**50** of the **Forbes  
Global 2000**  
Nasdaq: ZS

**Proven  
Scale** **400**

**transactions**  
processed daily

**FedRAMP  
High +  
Moderate  
+ IL 5**

**5** **data centers** across the U.S.  
\*For FedRamp High we leverage  
AWS Gov Cloud

# Zscaler: Secure and fast access to any app, from anywhere



## Zscaler Internet Access (ZIA)-TIC 3.0

Securely connects users to externally managed SaaS applications and internet destinations

## Zscaler Private Access (ZPA)- Zero Trust

Securely connects authorized users to internally managed applications



**Any device, any location, on-network or off-network**



# Zscaler Digital Experience: Visibility From The End-user To The App

Proactive visibility and diagnostics of end-user experience issues



## End-to-end visibility

from user out to SaaS/web applications

## Proactive monitoring

of performance anomalies on end-user device, network (local/WAN) and apps

## Simplified monitoring workflow

with real-world performance benchmarking and scoring

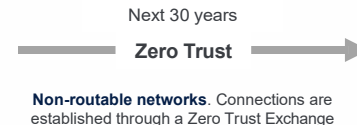
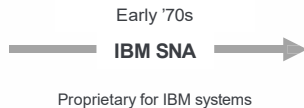
## Isolate issues faster

eliminating IT delays and finger pointing

# Zscaler Zero Trust Connectivity

Securely connect authorized users, devices and workloads over any network

## Shift in Network Architectures



## Zero Trust Connectivity

1 A 'switchboard' connects users, devices, apps using business policies

2 Apps are destinations, not network resources. The network is transport.

3 Users, devices, apps are never on the same network

### Users

Direct app access, no VPN



Work from anywhere  
Any internet connection

### Sites - Branches, Factories, Warehouses

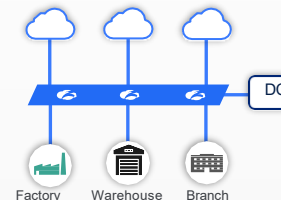
Local internet breakouts (SD-WAN), shortest path



Connects users and devices  
IoT/OT - badge readers, remote printing, cameras

### IaaS/PaaS -Cloud to Cloud, data center or sites

Routable Mesh to Zero Trust Network Access



Multi-cloud and hybrid environments (Cloud to DC)  
No virtual FWs needed

### Designed to minimize latency

150 locations - shortest path to connect. Peering in Internet Exchanges. Direct fiber connectivity with Microsoft

### Reliable, better quality of service

Prioritize apps (M365 or Zoom over YouTube). Premium China connectivity

### Superior Security

Eliminate VPN (employees, Third parties). No lateral threat movement, App segmentation without network segmentation



*The Federal Government can no longer depend on conventional perimeter-based defenses to protect critical systems and data.*

*-President Biden*

# Federal Zero Trust Strategy

## Overview and purpose

On January 26, 2022, the [Office of Management and Budget](#) (OMB) released the [Federal Zero Trust Strategy](#) in support of [Executive Order 14028, “Improving the Nation’s Cybersecurity”](#), to adapt civilian agencies’ enterprise security architecture to be based on zero trust principles.

The strategy is published as [OMB Memorandum M-22-09, “Moving the U.S. Government Toward Zero Trust Cybersecurity Principles”](#). The goal of the strategy is to accelerate agencies toward a **shared baseline of early zero trust maturity**.

*OMB memo M-22-09 provides guidance on how to achieve the Zero Trust mandates of the Executive Order. It further codifies the importance of moving off of legacy security structures into a Zero Trust architecture to include:*

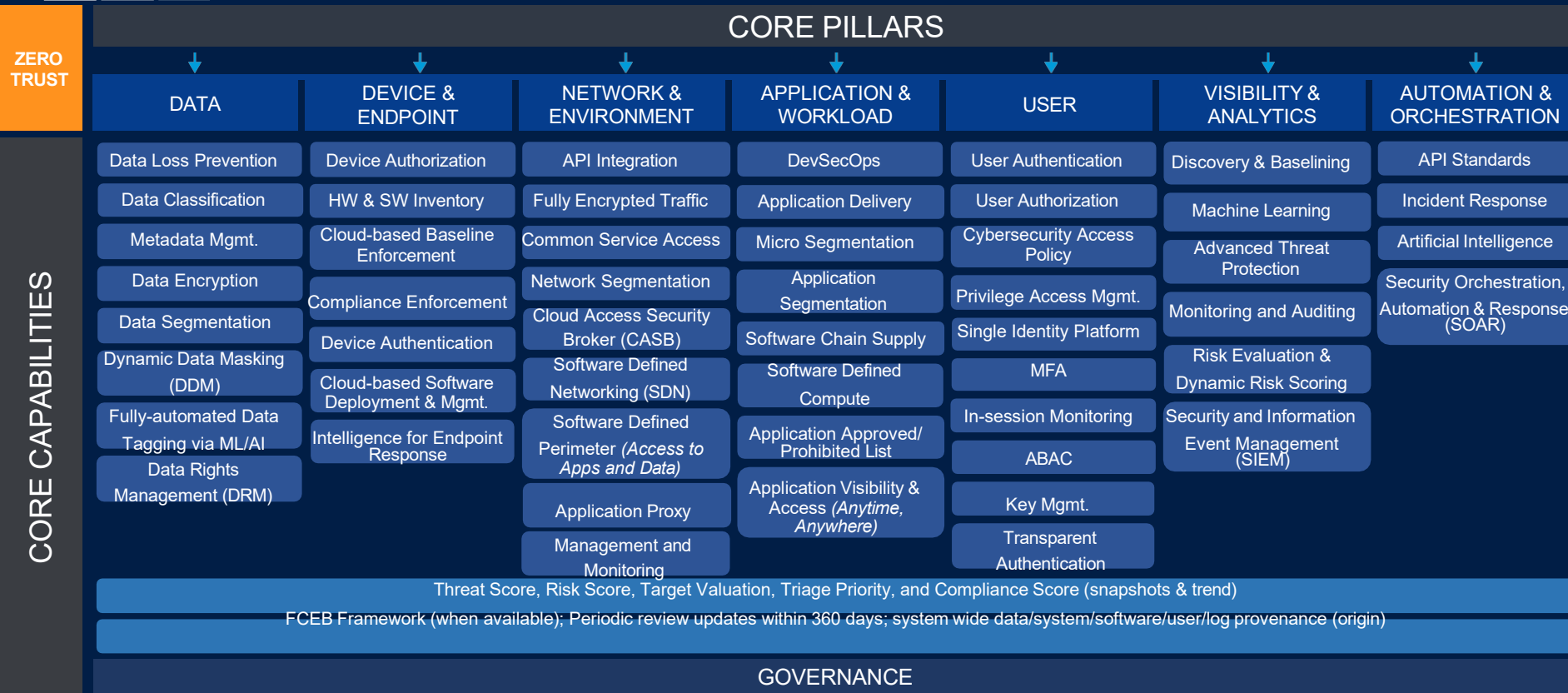
- *No longer depend on conventional perimeter-based defenses to protect critical systems and data.*
- *Provide secure access applications over the public Internet, without relying on a virtual private network (VPN).*
- *Encrypting DNS and HTTP traffic using TLS 1.3 for all internal and external connections to include APIs.*

*The memo includes deadlines for implementation plans, inventories, policy changes, and more. **Each agency’s acceptable implementation plan is due by March 2022.***



# Zero-Trust


## Capability Model



# Zero-Trust Architecture

## Capability Mapping to Zscaler

 Meets

 Partially Meets

Not Applicable

### CORE PILLARS

ZERO TRUST

DATA

DEVICE & ENDPOINT

NETWORK & ENVIRONMENT

APPLICATION & WORKLOAD

USER

VISIBILITY & ANALYTICS

AUTOMATION & ORCHESTRATION

Data Loss Prevention

Device Authorization

API Integration

DevSecOps

User Authentication

Discovery & Baselining

API Standards

Data Classification

HW & SW Inventory

Fully Encrypted Traffic

Application Delivery

User Authorization

Machine Learning

Incident Response

Metadata Mgmt.

Cloud-based Baseline Enforcement

Common Service Access

Micro Segmentation

Cybersecurity Access Policy

Advanced Threat Protection

Artificial Intelligence

Data Encryption

Compliance Enforcement

Network Segmentation

Application Segmentation

Privilege Access Mgmt.

Monitoring and Auditing

Security Orchestration, Automation & Response (SOAR)

Data Segmentation

Device Authentication

Cloud Access Security Broker (CASB)

Software Supply Chain

Single Identity Platform

Dynamic Data Masking (DDM)

Cloud-based Software Deployment & Mgmt.

Software Defined Networking (SDN)

Software Defined Compute

MFA

Risk Evaluation & Dynamic Risk Scoring

Fully-automated Data Tagging via ML/AI

Intelligence for Endpoint Response

Software Defined Perimeter (Access to Apps and Data)

Application Approved/Prohibited List

In-session Monitoring

Security and Information Event Management (SIEM)

Data Rights Management (DRM)

Application Proxy

Application Visibility & Access (Anytime, Anywhere)

Key Mgmt.

Transparent Authentication

Management and Monitoring

Threat Score, Risk Score, Target Valuation, Triage Priority, and Compliance Score (snapshots & trend)

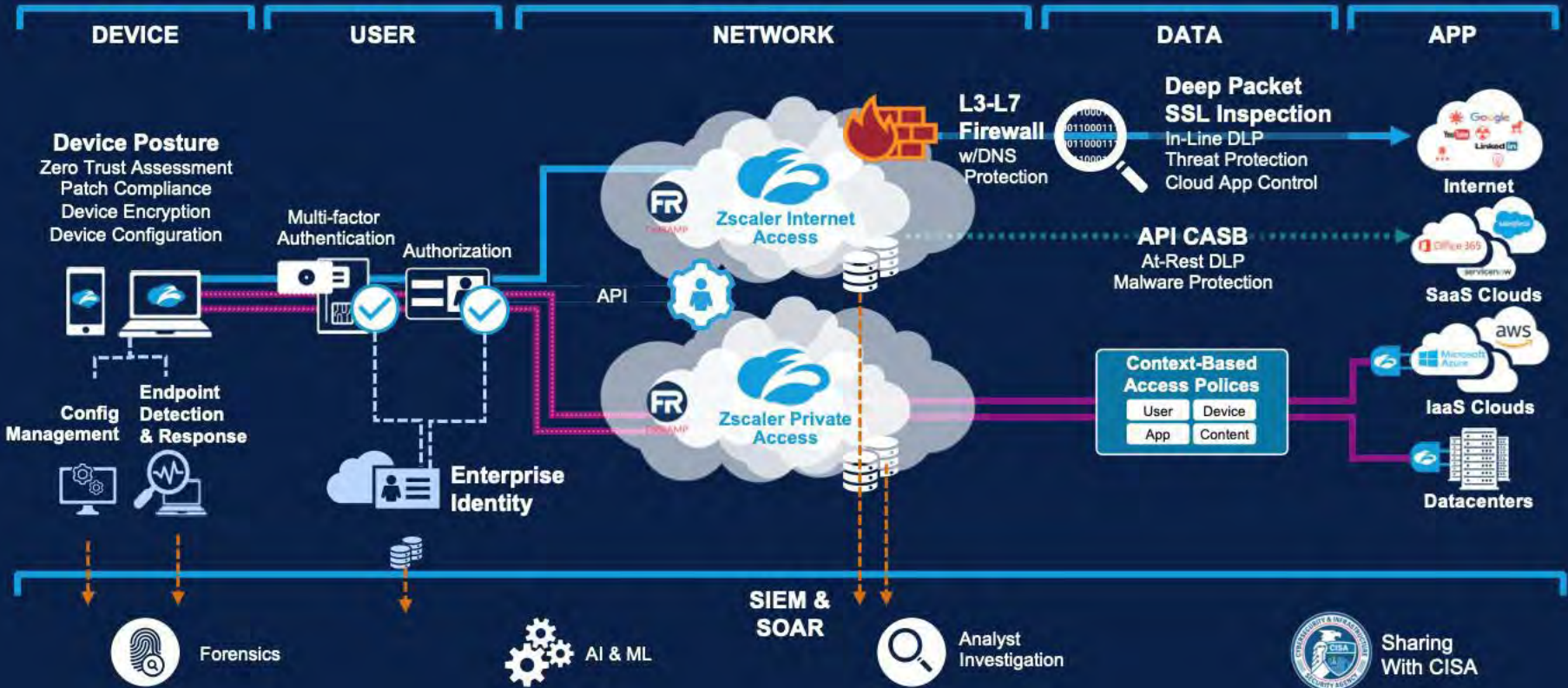
FCEB Framework (when available); Periodic review updates within 360 days; system wide data/system/software/user/log provenance (origin)

### GOVERNANCE

CORE CAPABILITIES

# Zscaler Zero Trust Architecture

## Capability Mapping Diagram



# Securing Secluded Semiconductor's Users and IOT/OT



# Semiconductor Island Background

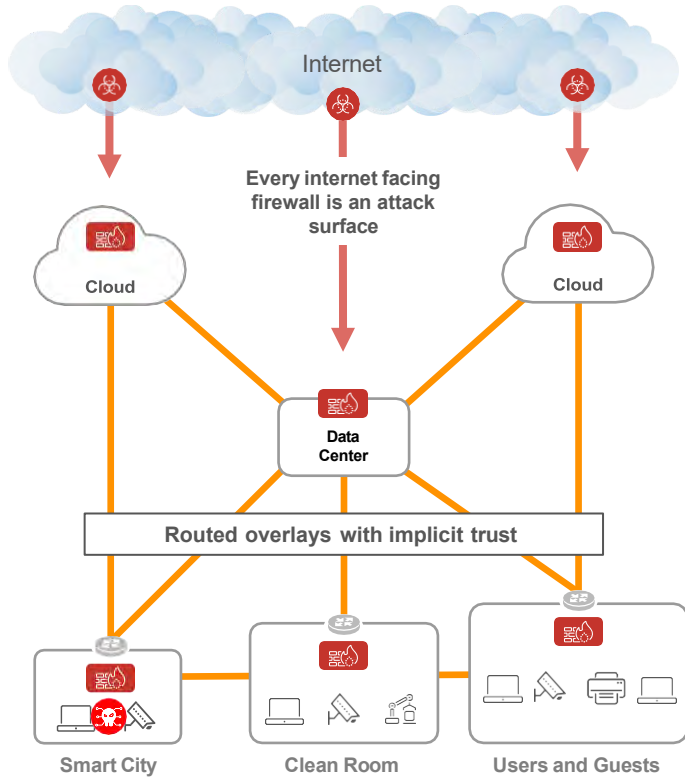
## *Background information*

- **Secluded Semiconductors, Inc. has established a manufacturing facility on an island 1,000 miles from the continental United States (U.S.).**
- **Manufacturing runs 24x7x365**
- **1000 Employees- 20 IT, 50 Clerical, 500- Manufacturing, 400- in support functions**
- **Power is provided by green energy self sustaining – Solar , Wind with Standby deisel generators**
- **Shipping port on the island handles raw materials for chips as well as goods and services for the employees.**

# Migrating Semiconductor Island's to Zero Trust

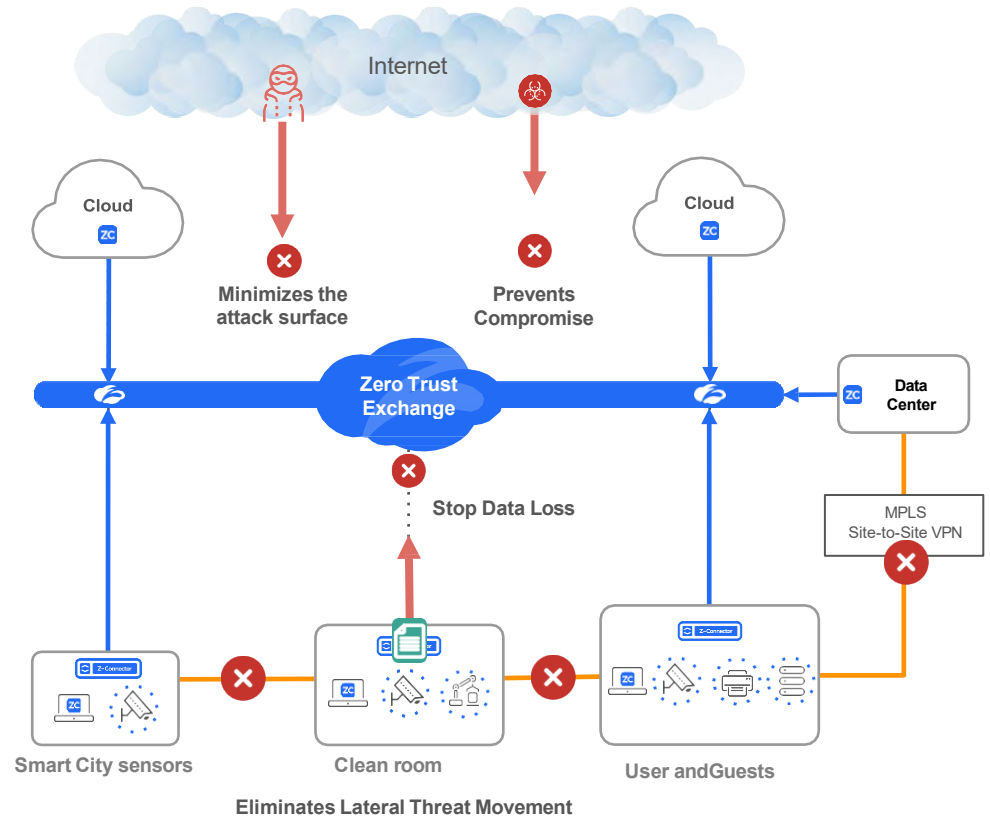
## Prior architecture

Mesh of site-to-site VPNs



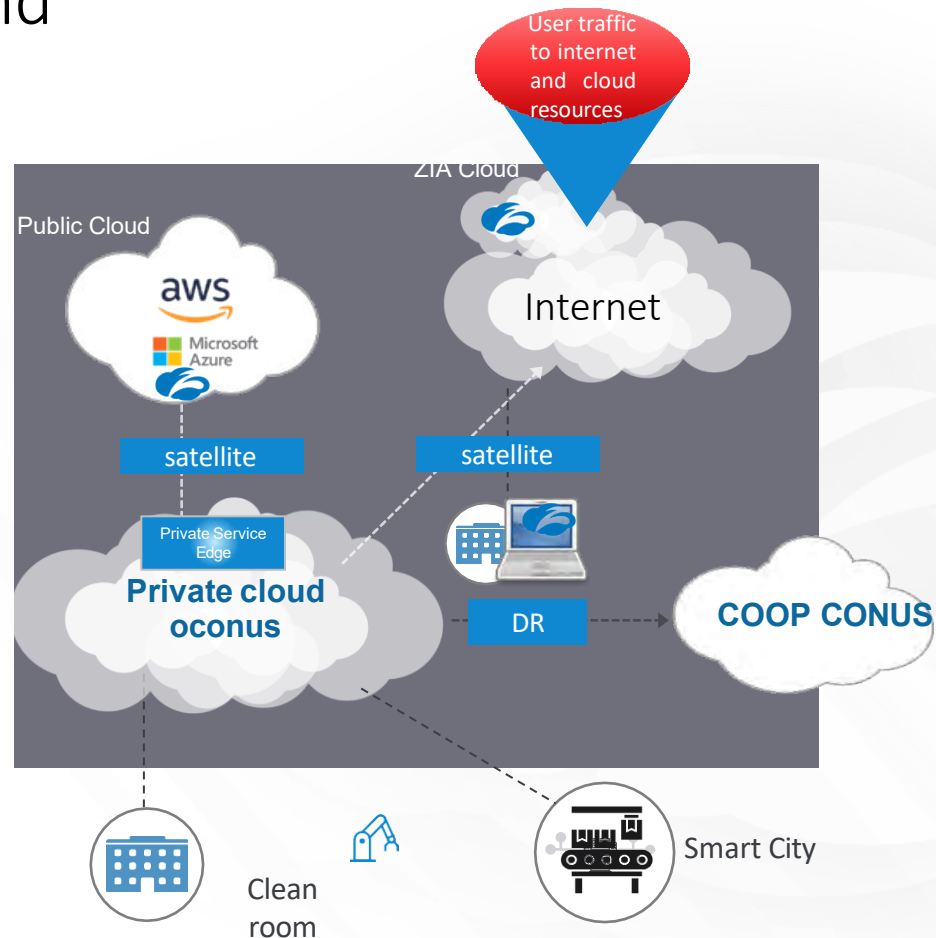
## Zero Trust Architecture

Connects any site without routed overlays or VPNs



# Overall Semi Conductor Island

- 3 separate systems- Clean Room, Production, SCADA systems
- Smart sensors across infrastructure – terrabytes of information
- Smart City – measures and balances power needs across city and manufacturing needs
- Organization uses a mix of Hybrid cloud- on premises data center, COOP data center on Mainland, public cloud for other processes like order processing, social media, etc,
- Satellite and 5 G cellular coverage for island residents and manufacturing



# Zscaler and Airgap for Semiconductor Island Use case







# Safe Harbor

## Forward-Looking Statements

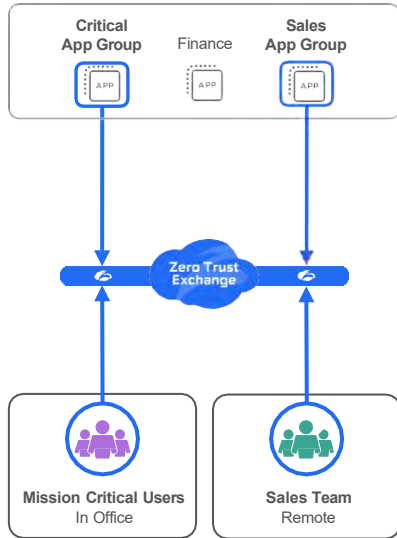
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In some cases, you can identify forward-looking statements by terms such as “anticipate,” “believe,” “continues,” “contemplate,” “could,” “estimate,” “expect,” “explore” “intend,” “likely,” “may,” “plan,” “potential,” “predict,” “project,” “should,” “target,” “will” or “would” or the negative of these terms or other similar words. Zscaler based these forward-looking statements largely on its current expectations and projections about future events that it believes may affect its business. Actual outcomes and results may differ materially from those contemplated by these forward-looking statements. All forward-looking statements in this message are based on information available to us as of the date hereof, and we do not assume any obligation to update the forward-looking statements provided to reflect events that occur or circumstances that exist after the date on which they were made.

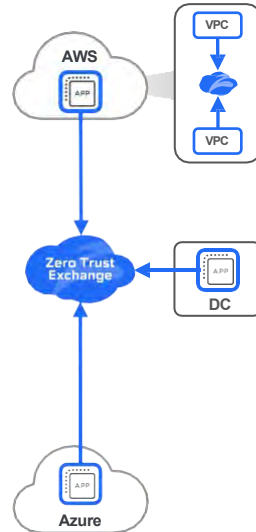
# Four Areas of Zero Trust Segmentation

## 1 User Segmentation Remote, In Office



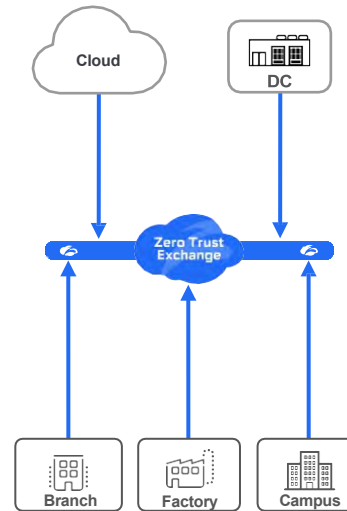
Only Mission Critical Users can access Critical Apps  
Sales Team can only access Sales Group Apps

## 2 Workload Segmentation Cloud, DC, Branch



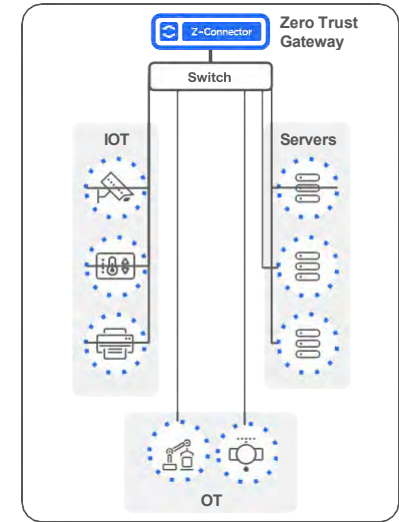
VPC to VLAN  
VPC to VPC / VNET  
Workload to Workload

## 3 Branch/Campus Segmentation Between branches, campus, cloud, DC



Zero Trust SD-WAN (No Site-to-Site VPN / MPLS)  
Each branch is a Starbucks

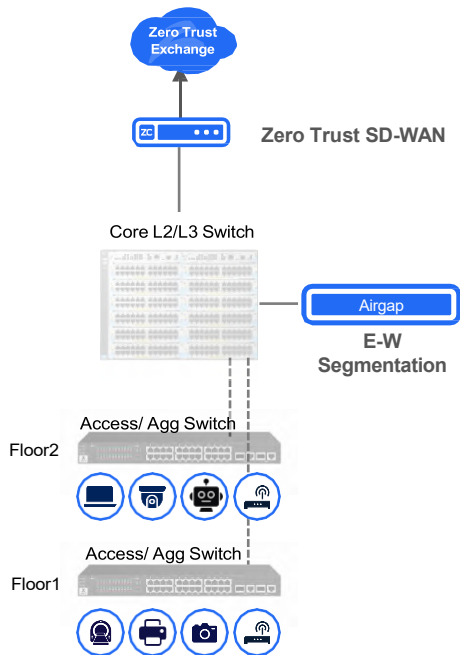
## 4 Device Segmentation Inside branch, factory, campus



Automated IoT / OT Segmentation  
Segment of 'one' for every device

# Agentless Zero Trust Segmentation

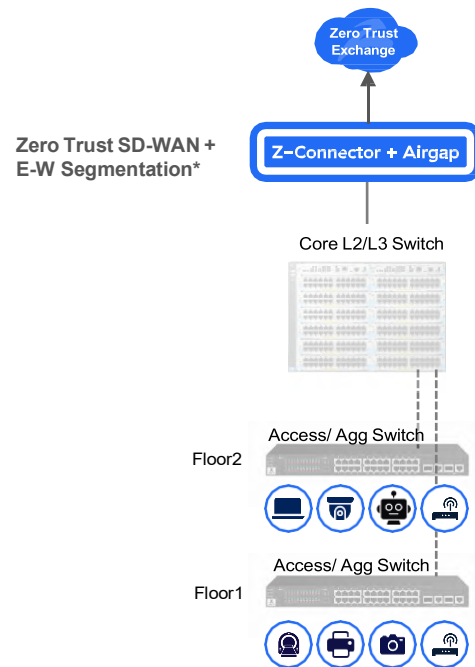
## How it Works



Shipping Today

- 1 Assumes the role of default gateway for VLANs
- 2 Auto-provisions every endpoint with a /32 subnet mask through the intelligent DHCP proxy
- 3 Automatically classifies device into groups (IT, IoT, OT, Servers)
- 4 Enforces group-based policies e.g. RDP access to cameras denied except from Admins
- 5 Ransomware Kill Switch™ enforces policies based on threat level for faster incident response

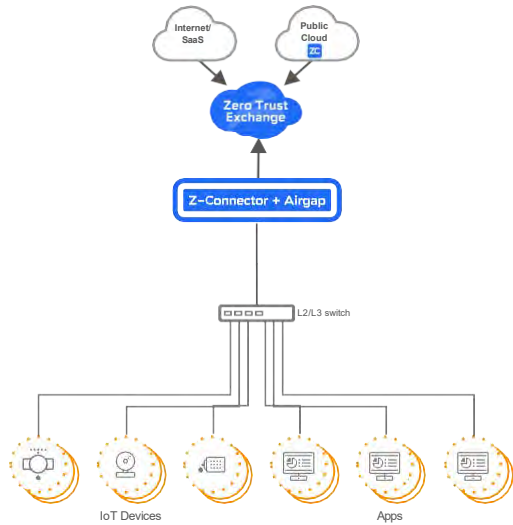
- ✓ Up to 80Gbps/Node
- ✓ 70 Microsecond Latency
- ✓ HA active/standby
- ✓ Hitless Upgrade



\*Coming soon.

# Zscaler + Airgap: Key Use Cases

## East-West Firewall Replacement

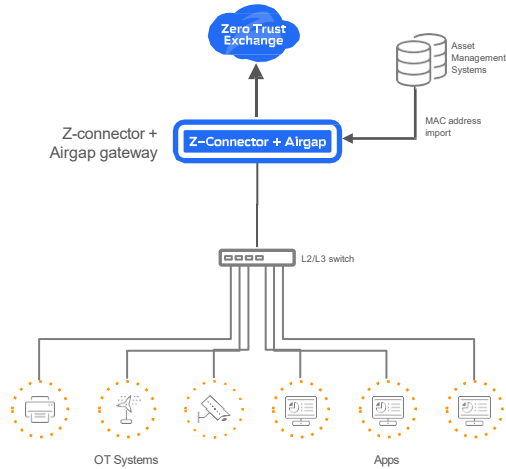


Automatic provisioning of every device into a segment of one (/32)

Autonomous grouping of devices, users and apps

Dynamic policy enforcement for east-west traffic

## IT/OT Segmentation

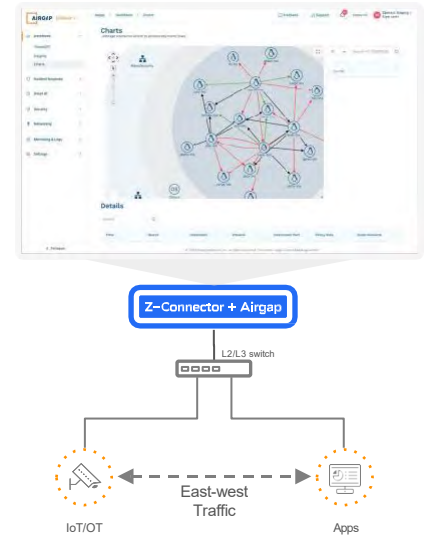


Device discovery and classification; Segregate IT devices from OT devices.

Automatic isolation of unknown MAC addresses

Integrates with asset management systems for dynamic policy updates

## Automatic Device Discovery & Classification



Automatic device discovery and classification for east-west LAN traffic

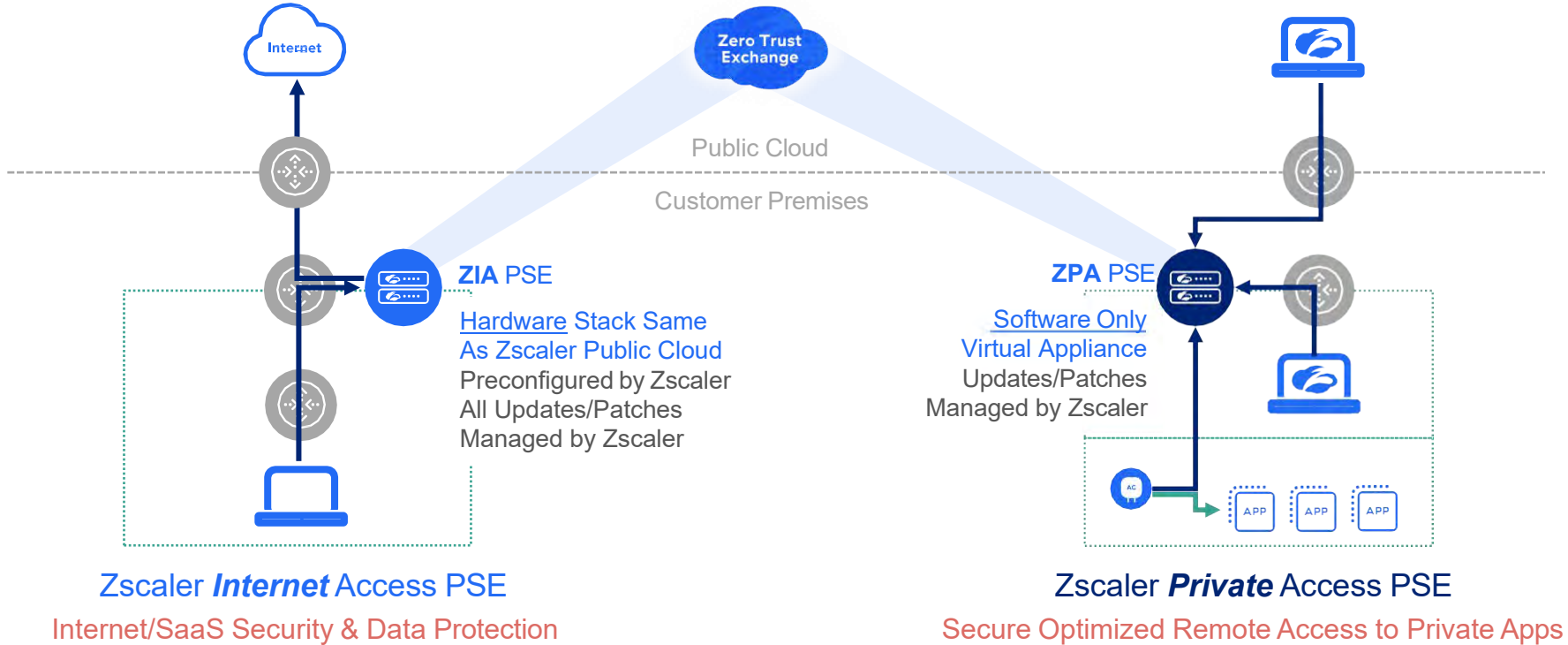
Realtime automapping and policy management

Querying, tagging and alert monitors with 3<sup>rd</sup> party integrations

Comprehensive use cases. Eliminate operational complexity and reduce cost.

# What's a Private Service Edge (PSE)?

NOTE: PSEs ARE AN OPTIONAL COMPONENT



# Use Cases (Why Would this be a good architectural fit )



## Regulatory Restrictions

Rare scenarios where use of Zscaler data centers is limited in certain countries



## Geographically Isolated Locations

Provide optimal secure connectivity in situations where latency to nearest Zscaler data center is suboptimal

Example: Islands or countries with poor Internet connectivity



## Sites With High User Density or Traffic Loads

Large campus environments

Example: 30K+ users in a single location



## Source IP Dependent Legacy Apps

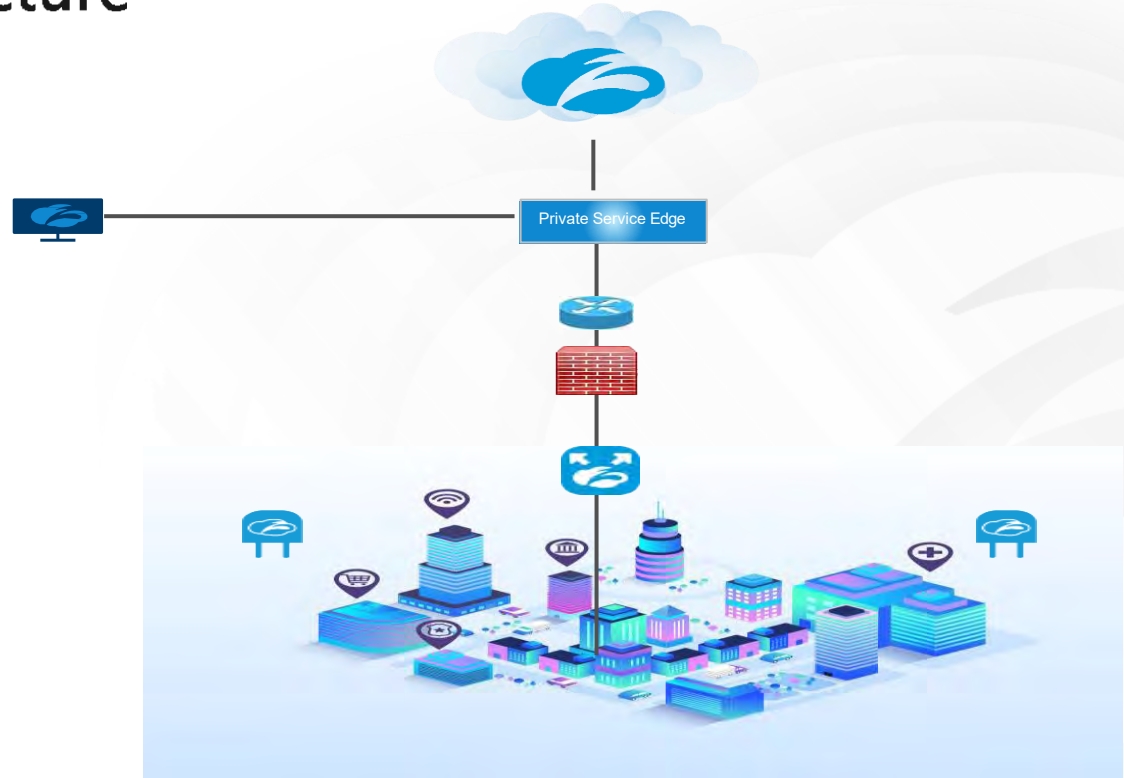
Organizations with a *large number or high volume* of Internet resources with source IP dependent access requirements.

Example: Large hospital systems accessing 1000s of online medical journals

# Smart City Architecture

Managed Zscaler User  
Accessing Smart City Devices  
for Maintenance

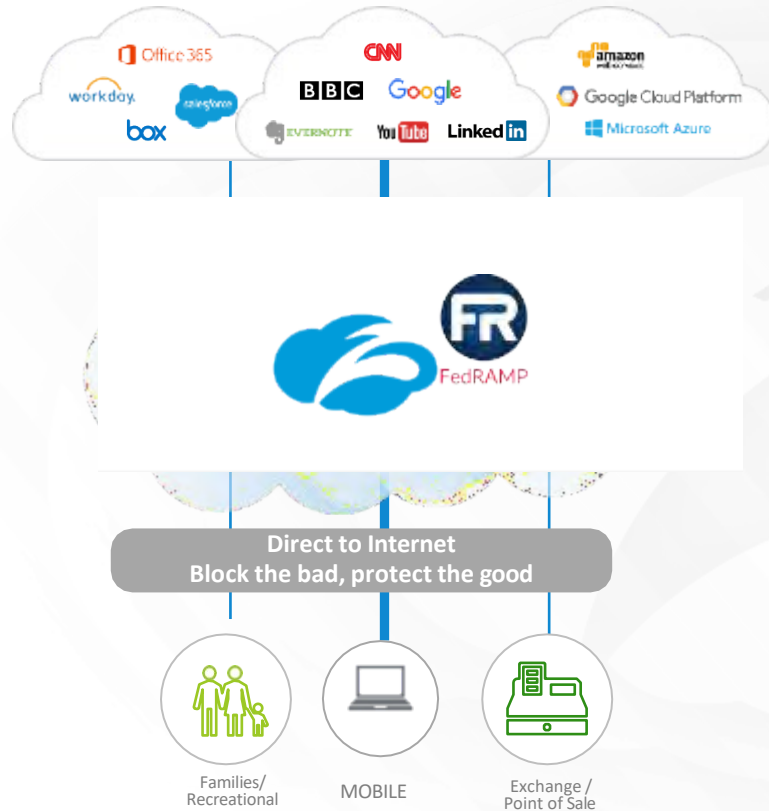
Leverage Air Gap for  
segmentation and discovery of  
the sensors



# Secure Employees, Guest Wi-Fi access / Point of Sale

## Employees and Contractor Use Cases

- Supports Secure Internet access for Residents of Semiconductor Island
- Supports Contractor access
- Exchange / Point of Sale systems







Disaster Hits !

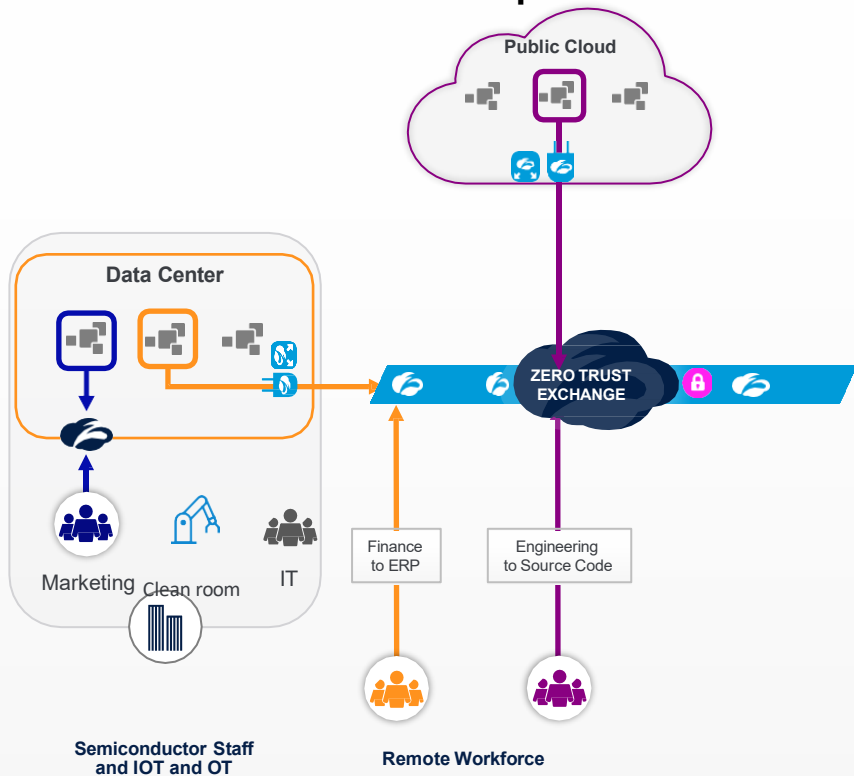
# Rule #1 lets not make a bad situation worse- why Zero Trust is important

- If Jurassic Park Teaches us anything.... People will capitalize on a bad situation .
- Ransomware or other attacks during a crisis would be the worst possible scenario

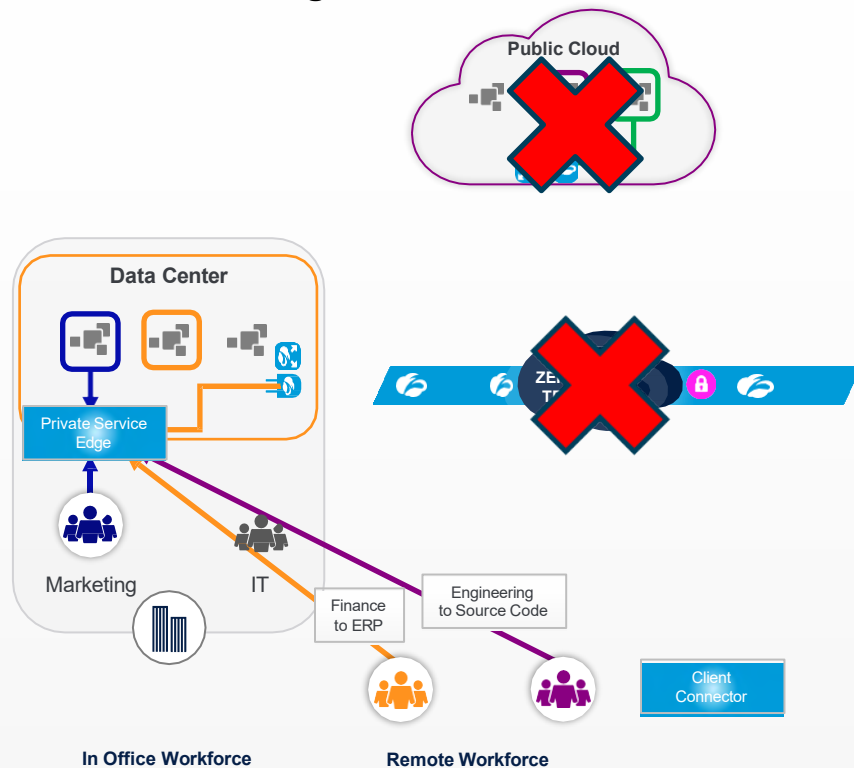


# Proposed Zero Trust DR Design

## Normal Operation



## During DR



# Customer-controlled disaster recovery – Assumptions

- Outage can last multiple hours to days
- Zscaler Cloud Infrastructure is completely unavailable
- During this period
  - Mission critical applications will be made available
  - Availability is critical, specific capabilities will be unavailable
    - Full Authentication
    - Policy configuration and updates
    - Enrollment of new clients
    - Logging and Analytics

# Customer Initiated Disaster Recovery

- Supports **cloud free** functionality mode
- Customer **initiates** manual DR mode switch
- Provides access to customer identified **critical** applications
- Supports **enrolled users** in the system prior to DR switching
- Requires **deployment** and maintenance of ZPA **Private Service Edges** and **Client Connector**

# Practical limitations while operating in DR mode

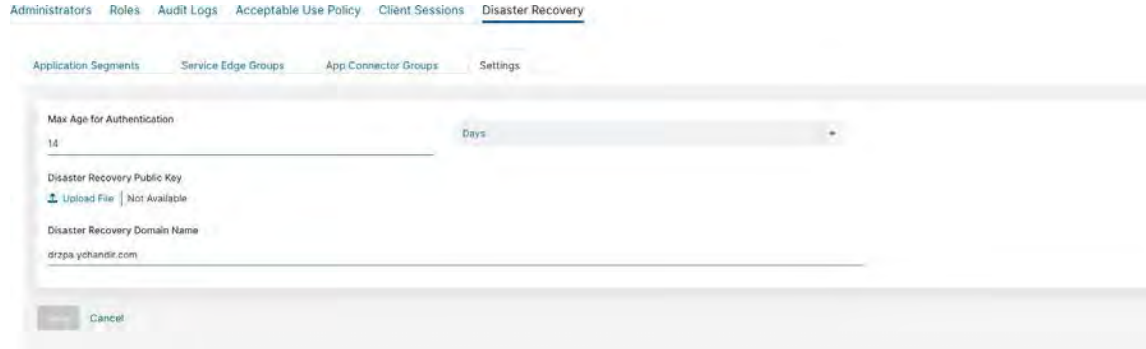
- Access through the Client Connector only
- No new users or enrollments during the DR period
- No policy or configuration updates
- No logging and analytics
- Does not support SIPA, Browser Access, Isolation, Branch/Cloud Connector, Inspection, Deception use cases

# 5 Steps

1. Configure DNS
2. Enable Private Service Edge for DR Mode
3. Enable App Connector for DR Mode
4. Select Business Critical App Segments for DR Mode
5. Configure App Profiles

# ZPA authentication Grace Period

By default we provide a 14 days reauthentication grace period for users that need to have their credentials revalidated to the ZPA IdP



The screenshot displays the 'Disaster Recovery' configuration page in a web application. The navigation menu at the top includes 'Administrators', 'Roles', 'Audit Logs', 'Acceptable Use Policy', 'Client Sessions', and 'Disaster Recovery'. Below the navigation, there are tabs for 'Application Segments', 'Service Edge Groups', 'App Connector Groups', and 'Settings'. The main content area shows the following settings:

- Max Age for Authentication:** A text input field containing the value '14', followed by a dropdown menu currently set to 'Days'.
- Disaster Recovery Public Key:** A section with a download icon and the text 'Upload File | Not Available'.
- Disaster Recovery Domain Name:** A text input field containing the value 'dirpa.yohandir.com'.

At the bottom left of the settings area, there is a 'Cancel' button.



# Testing Disaster Recovery Mode

ZPA Disaster Recovery Test Mode can be triggered by setting the TXT Value of the Activation Domain Name to b=Test. This will allow a small set of users assigned to a test App Profile, with Test Mode Enabled, to ensure the DR activation, and behavior is as expected. An example would be to validate the needed domains are added to the custom destinations pac file to allow a needed app to function in DR mode.


## ZPA DISASTER RECOVERY CONFIGURATION V. 3.7.14

Allow ZPA Disaster Recovery 




Activation Domain Name 


drzpa.ychandir.com

Domain Public Key 

Not Available [Upload](#)

Activation Domain Name 

drzpa.ychandir.com

ZPA Disaster Recovery Test Mode 



Enable this option if the users with this app profile are part of a group to test Disaster Recovery. It is recommended that Disaster Recovery is tested with few users periodically.

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Not Available [Upload](#)

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# Configuring Private Service Edge for DR

- Private Service Edge do not need to be exclusively used for DR mode
- You need to select the Private Service Edge that will participate in DR mode
- Always deploy Private Service Edge in clusters (a pair of Private Service Edge) for redundancy
- Private Service Edge mirror the policy and user database 10 times a day
- Each PSE pair supports up to 500Mbps of traffic

# Configuring Private Service Edge for DR (cont)

- Enable Disaster Recovery Mode for the Private Service edge group that will participate in DR

### Edit Service Edge Group ✕

Name Service Edge Group Status  Enabled  Disabled

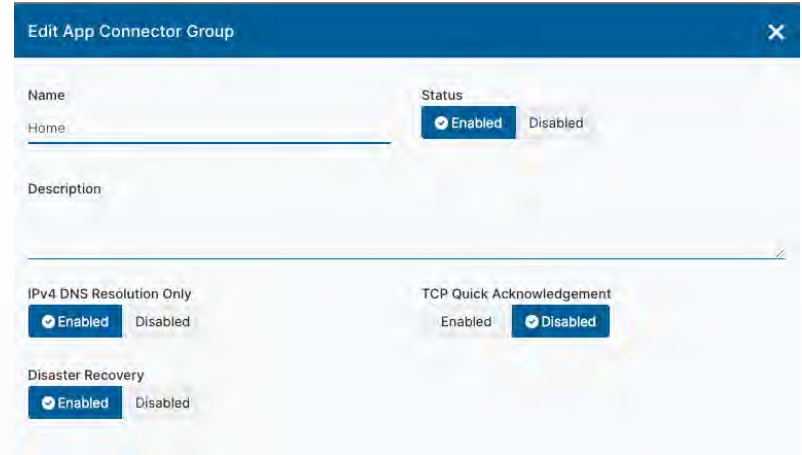
Description

Publicly Accessible  Enabled  Disabled Client Connector Trusted Networks

Disaster Recovery  Enabled  Disabled

# Configuring App Connector for DR

- App Connector Service Edge do not need to be exclusively used for DR mode
- You need to select the App Connector that will participate in DR mode
- Always deploy App Connectors in clusters (a pair of App Connectors ) for redundancy



**Edit App Connector Group** [X]

Name: \_\_\_\_\_

Home: \_\_\_\_\_

Description: \_\_\_\_\_

Status:  Enabled  Disabled

IPv4 DNS Resolution Only:  Enabled  Disabled

TCP Quick Acknowledgement:  Enabled  Disabled

Disaster Recovery:  Enabled  Disabled

# Configuring App Segments for DR

- Identify Business Critical App Segments
- Select those App Segments to be available during DR

Edit Application Segment - perdu.com

1 Application and Ports Configuration 2 General Information

GENERAL INFORMATION

Name  
perdu.com

Status  
 Enabled  Disabled

Disaster Recovery  
 Enabled  Disabled

Source IP Anchor  
 Enabled  Disabled

Description

# Verifying DR Mode

- SSH into Private Service Edge and/or App Connector
- Run the command `journalctl -f`

## DR OFF (Private Service Edge)

```
Dec 23 14:33:52 zpa-service-edge zpa-service-edge-child[1849]: Time skew: local time is ahead of cloud time by 0.001441s
Dec 23 14:33:52 zpa-service-edge zpa-service-edge-child[1849]: File descriptors(max[in-use]): System 94428|1584, Process 102408|540
Dec 23 14:33:57 zpa-service-edge zpa-service-edge-child[1849]: System Sockets: Created 223 TCP4 in-use 34, TCP6 time-wait 0, UDP4 in-use 11, TCP6 in-use 2, UDP6 in-use 5, Ports av
Dec 23 14:33:57 zpa-service-edge zpa-service-edge-child[1849]: collection call stats statistics_log: (0: 0, 0, 0, 0), (1: 0, 0, 0, 0), (2: 0, 0, 0, 0), (3: 0, 0, 0, 0)
Dec 23 14:34:46 zpa-service-edge zpa-service-edge[1649]: collection call stats event_log: (0: 0, 0, 0, 0), (1: 0, 0, 0, 0), (2: 17870, 126, 17870, 126), (3: 580, 4, 580, 4)
Dec 23 14:34:52 zpa-service-edge zpa-service-edge-child[1849]: ----- Status:ID=144118882821472014:Name=ServiceEdge-1671796540808:Ver=22.284.2:Mem(System)Process)=21%(DS:Disk Av
Dec 23 14:34:57 zpa-service-edge zpa-service-edge-child[1849]: Certificate will expire in 365 days, 18 hours, 34 minutes, 9 seconds
Dec 23 14:34:52 zpa-service-edge zpa-service-edge-child[1849]: Public Broker config connection, state foHh_connection_connected, [192.168.2.251]:38664:broker2.par2.prod.zpath.net:
91
Dec 23 14:34:52 zpa-service-edge zpa-service-edge-child[1849]: Private Broker to Public Broker control connection, state foHh_connection_connected, [192.168.2.251]:58402:broker8.p
b.196734.rx.b.174958
Dec 23 14:34:52 zpa-service-edge zpa-service-edge-child[1849]: Log(event_log) connection, state foHh_connection_connected, [192.168.2.251]:44624:broker1.par2.prod.zpath.net:[165.7
Dec 23 14:34:52 zpa-service-edge zpa-service-edge-child[1849]: Log(zpn_transaction_log) connection, state foHh_connection_connected, [192.168.2.251]:49014:broker7.par2.prod.zpath
174496
Dec 23 14:34:52 zpa-service-edge zpa-service-edge-child[1849]: Log(zpn_auth_log) connection, state foHh_connection_connected, [192.168.2.251]:58774:broker6.par2.prod.zpath.net:[169
Dec 23 14:34:52 zpa-service-edge zpa-service-edge-child[1849]: Log(zpn_ast_auth_log) connection, state foHh_connection_connected, [192.168.2.251]:58398:broker8.par2.prod.zpath.net
889
Dec 23 14:34:52 zpa-service-edge zpa-service-edge-child[1849]: Log(zpn_dns_log) connection, state foHh_connection_connected, [192.168.2.251]:33828:broker3.par2.prod.zpath.net:[169
Dec 23 14:34:52 zpa-service-edge zpa-service-edge-child[1849]: Private Broker to Public Broker log(stats_log) connection, state foHh_connection_connected, [192.168.2.251]:49018:br
95, tx b 372660, rx b 174518
```

## DR OFF (App Connector)

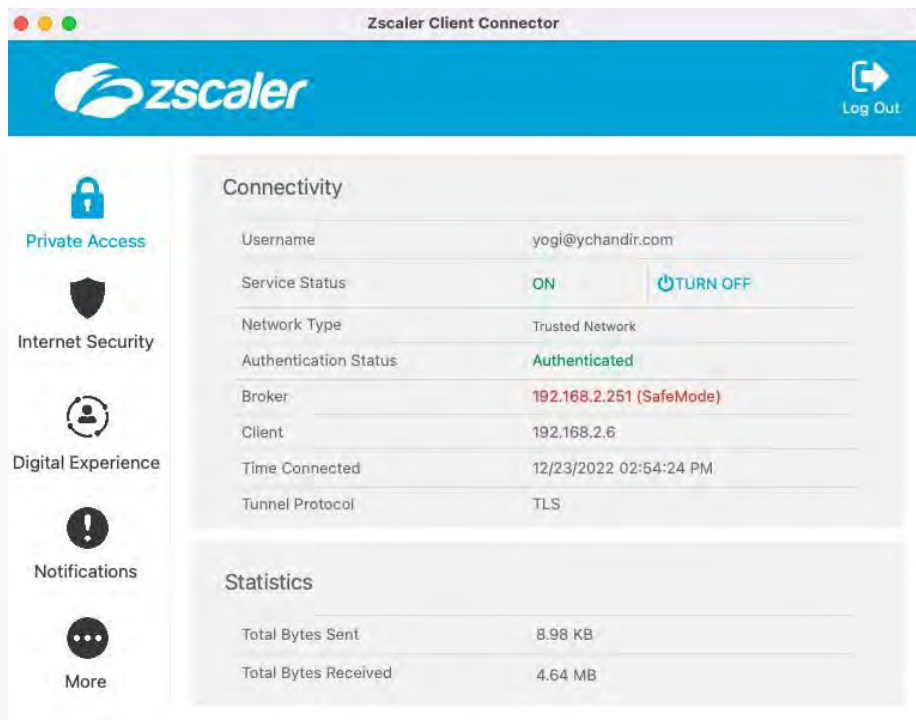
## DR ON (Private Service Edge)

```
Dec 23 14:36:52 zpa-service-edge zpa-service-edge-child[1849]: Time skew: local time is ahead of cloud time by 0.001441s
Dec 23 14:36:52 zpa-service-edge zpa-service-edge-child[1849]: File descriptors(max[in-use]): System 94428|1584, Process 102408|540
Dec 23 14:36:57 zpa-service-edge zpa-service-edge-child[1849]: System Sockets: Created 223 TCP4 in-use 34, TCP6 time-wait 0, UDP4 in-use 11, TCP6 in-use 2, UDP6 in-use 5, Ports av
Dec 23 14:36:57 zpa-service-edge zpa-service-edge-child[1849]: collection call stats statistics_log: (0: 0, 0, 0, 0), (1: 0, 0, 0, 0), (2: 0, 0, 0, 0), (3: 0, 0, 0, 0)
Dec 23 14:36:57 zpa-service-edge zpa-service-edge-child[1849]: collection call stats event_log: (0: 0, 0, 0, 0), (1: 0, 0, 0, 0), (2: 17870, 126, 17870, 126), (3: 580, 4, 580, 4)
Dec 23 14:36:52 zpa-service-edge zpa-service-edge[1649]: collection call stats statistics_log: (0: 0, 0, 0, 0), (1: 0, 0, 0, 0), (2: 17870, 126, 17870, 126), (3: 580, 4, 580, 4)
Dec 23 14:37:47 zpa-service-edge zpa-service-edge[1649]: collection call stats event_log: (0: 0, 0, 0, 0), (1: 0, 0, 0, 0), (2: 17870, 126, 17870, 126), (3: 580, 4, 580, 4)
Dec 23 14:37:49 zpa-service-edge zpa-service-edge-child[1849]: DR mode is requested through DNS. Activating DR
Dec 23 14:37:49 zpa-service-edge zpa-service-edge-child[1849]: DR config is written into files !
Dec 23 14:37:49 zpa-service-edge zpa-service-edge-child[1849]: DR mode is activated !
Dec 23 14:37:50 zpa-service-edge zpa-service-edge[1649]: launching thread zpn_pcap_thread, #9
Dec 23 14:37:50 zpa-service-edge zpa-service-edge[1649]: launching thread config_monitor, #22
Dec 23 14:37:50 zpa-service-edge zpa-service-edge[1649]: launching thread local_disp_cb_thread_0, #23
Dec 23 14:37:50 zpa-service-edge zpa-service-edge[1649]: launching thread local_disp_cb_thread_1, #24
```

## DR ON (App Connector)

# Verifying DR Mode (cont)

## DR ON (Client Connector)



The screenshot displays the Zscaler Client Connector interface. The top navigation bar includes the Zscaler logo and a 'Log Out' button. A left-hand sidebar contains navigation icons for Private Access, Internet Security, Digital Experience, Notifications, and More. The main content area is divided into two sections: 'Connectivity' and 'Statistics'.

**Connectivity**

Username	yogi@ychandir.com
Service Status	ON <a href="#">TURN OFF</a>
Network Type	Trusted Network
Authentication Status	Authenticated
Broker	192.168.2.251 (SafeMode)
Client	192.168.2.6
Time Connected	12/23/2022 02:54:24 PM
Tunnel Protocol	TLS

**Statistics**

Total Bytes Sent	8.98 KB
Total Bytes Received	4.64 MB



# SemiConductor Island Benefits Summary

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1. Identification of all IoT and OT assets
2. User traffic to critical applications are still secured during disaster following Zero Trust principals of least privileged access
3. Traffic to and from critical IOT and OT devices are still secured and segmented from the rest of the world
4. Plant can still run 24x7 for up to 2 weeks without internet.
5. Smart city sensors will also be secured during this transition.

# Zscaler Resources slide

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1. Zscaler Compliance Certifications- <https://www.zscaler.com/compliance/overview>
2. Zscaler for IoT/OT <https://www.zscaler.com/secure-your-ot-and-iot>
3. Zscaler IoT Discovery- <https://www.zscaler.com/products-and-solutions/iot-device-visibility>
4. Zscaler Air Gap Networks- <https://www.zscaler.com/blogs/company-news/zscaler-acquires-airgap-networks-extends-zero-trust-sase>
5. Zscaler Private Service Edges- <https://help.zscaler.com/zpa/about-zpa-private-service-edges>
6. Zscaler and CIMCOR - <https://www.cimcor.com/partners/zscaler>
7. Zscaler integrations <https://www.zscaler.com/partners/technology>

# Questions and Follow up