



CLOUDI-FI  
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# Cloudi-Fi integration within Zscaler ZIA

Empower your Zscaler with a compliant identity provider for guest, BYOD and IoT

## KEY FEATURES OF OUR SOLUTION

- Extend existing Zscaler tenant to guests, BYOD and IoT with total control and visibility
- Authenticate corporate guests, BYOD and IoT as well as customers with hotspots
- Provide personalized onboarding and security for users
- Ensure compliance with local regulations (Data privacy and Internet provider regulations)
- Leverage captive portal services for Hotspots and Retailers
- Enable quick & frictionless deployment using existing infrastructure

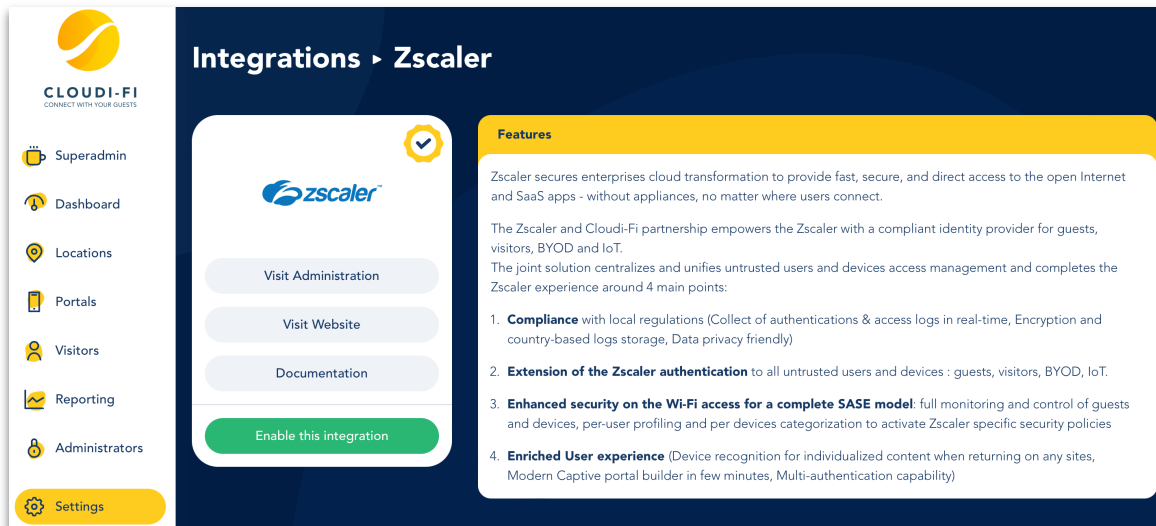
## INTEGRATIONS

- Cloudi-Fi
- Zscaler ZIA

The rise of cloud adoption by enterprises has **democratized distributed networks**. As the Internet is consuming corporate networks, local Internet breakouts with SD-WAN and Wi-Fi are becoming essential (and often sufficient) to users' connectivity and productivity.

Distributed networks by nature are promoting **cloud-based services** gradually replacing central infrastructure. Zscaler **authenticates and secures employees and their managed devices**. Still, the lack of complete and accurate identification of users (such as consultants, freelancers, and employees with BYOD) and untrusted devices like IoT makes organizations continue to authenticate on central infrastructure (controller, anchor controller, NAC, etc.). This consumes bandwidth resources unnecessarily and adds complexity in managing those users and devices.

Cloudi-Fi is **extending the authentication capability** of Zscaler to authenticate (and secure accordingly) all users and devices, including BYOD and IoT. This is particularly relevant to existing Zscaler ZIA customers who are one click away of this capability.



Zscaler integration into the Cloudi-Fi administration interface

# HOW IT WORKS

Cloudi-Fi is a 100% cloud-based SaaS solution that **centralizes and unifies Guests, BYOD and IoT access management**. It seamlessly integrates within Zscaler and is particularly suited for **SD-WAN** architectures with local internet breakouts. Cloudi-Fi increases **visibility, compliance, and control** of Internet usage by all users.

## Identify your users for a personalized experience

Easily **identify** and **personalize** your guests and visitors. **Profile your users** to apply specific **security policies** and adapt your Wi-Fi usage accordingly. **Multiple authentication modes can be combined:** employee sponsorship, SMS, QR code, social networks, Teams, Slack .... User will be **automatically recognized** for future visits.

## Ensure compliance

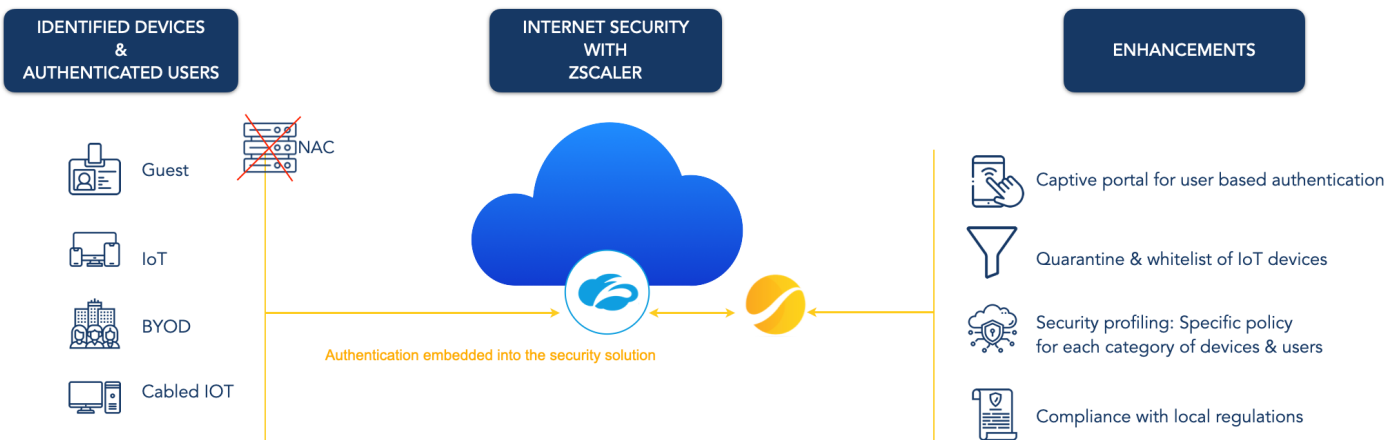
With local data centers around the world, personal data encrypted, user management of his data. **Cloudi-Fi makes sure the users comply with local regulations: Data privacy** (GDPR, CCPA, LGPD...) but also internet service provider laws.

## IoT

Cloudi-Fi manages IoT access, security, and compliance. With its cloud-based DHCP service, Cloudi-Fi provides **discovery, identification, and classification** of all IoT devices. In combination with Zscaler, the solution allows IoT-specific security policies in line with a Zero Trust strategy.

## Adopt a global solution

Cloudi-Fi can be deployed instantly, remotely, across the world regardless of the existing infrastructure. The architecture is **flexible and suited for SD-WAN environments with local internet breakouts**. The solution also interconnects with existing digital solutions.

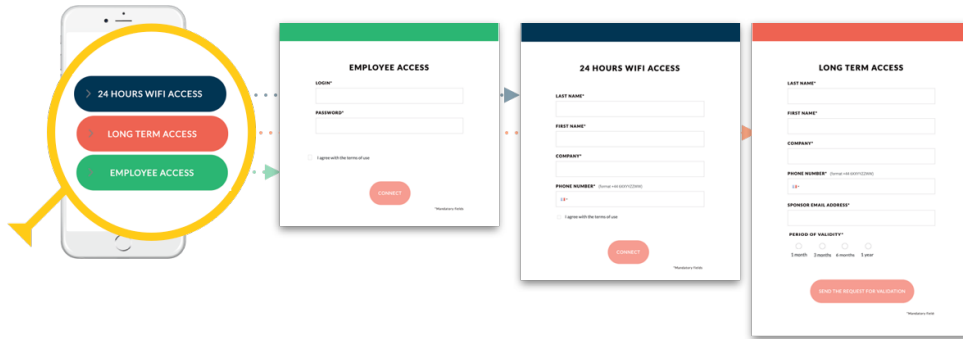




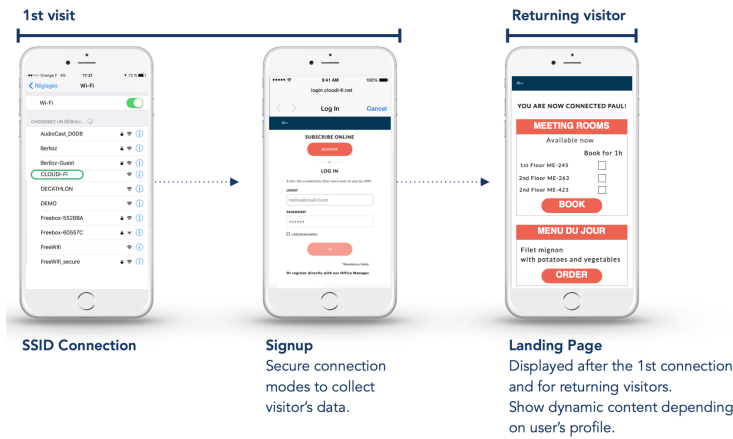
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# APPLICATION

With **Corporate networks**, the solution uses the local Internet breakouts efficiently while removing the dependence to central solution.



The different types of users are **profiled** to propose and adapt a **compliant, secure, and personalized** Wi-Fi access

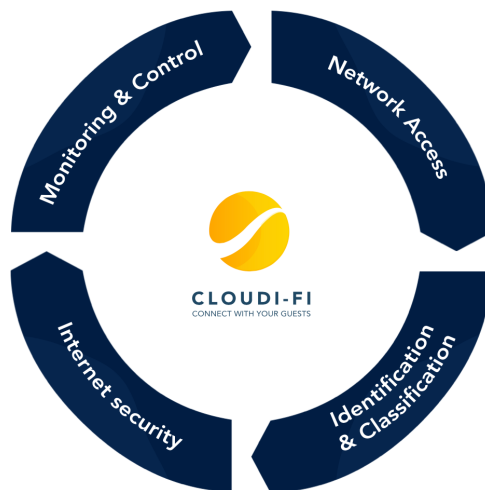


**Captive portal** pages can be leveraged to automate digital services on site.

With **IoT**, the solution accompanies the full IoT lifecycle by controlling the network access of the IoT assets, identifying, and classifying the IoT into category, applying automated IoT security rules accordingly and monitoring the IoT behavior in real time for control and remediation.

IoT-specific security policies  
Continuous control with ML  
Automated remediation

Automated quarantine & whitelisting  
Automated policies by Cloudi-Fi's API w/ supported security solutions  
Security risk assessment



DHCP service in the cloud  
Uncover shadow devices  
Global IP address Management

Device fingerprinting  
IoT identification and classification  
Asset inventory



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# ZSCALER AND CLOUDI-FI BENEFITS



One central management with delegated administration capabilities.

**URL & Cloud App Control**

Configure URL & Cloud App Control Policy  
Rules are evaluated in the order specified. Rule evaluation stops at the first match. Cloud app control policies take priority over URL policy. Default policy which is not visible is to allow all.

URL Filtering Policy | Cloud App Control Policy | Advanced Policy Settings

+ Add URL Filtering Rule

Rule Name	Action	Criteria	Label and Description
Daily guests	Allow	GROUPS Daily guests PROTOCOL DNS Over HTTPS; HTTP Proxy; FTP over HTTP; HTTPS; HTTP REQUEST METHODS GET; POST TIME Business Hours URL CATEGORIES News and Media; Art/Culture; Social Networking; Special Interests/Social Organizations; Sports; Tr...	DESCRIPTION Guests in self service with daily access
Consultants	Allow	GROUPS Consultants PROTOCOL DNS Over HTTPS; Tunnel SSL; HTTP Proxy; FTP over HTTP; Native FTP; HTTPS; HTTP; SSL; Tunnel REQUEST METHODS OPTIONS; GET; HEAD; POST; PUT; DELETE; TRACE; CONNECT; OTHER URL CATEGORIES Other Business and Economy; Corporate Marketing; Finance; Professional Services; Classifieds; Ot...	DESCRIPTION Guests sponsored by employees
BYOD	Allow	GROUPS BYOD PROTOCOL DNS Over HTTPS; Tunnel SSL; HTTP Proxy; FTP over HTTP; Native FTP; HTTPS; HTTP; SSL; Tunnel REQUEST METHODS OPTIONS; GET; HEAD; POST; PUT; DELETE; TRACE; CONNECT; OTHER URL CATEGORIES Other Business and Economy; Corporate Marketing; Finance; Professional Services; Classifieds; Ot...	DESCRIPTION Authenticated employees with personal device
Security Camera	Allow	GROUPS Cisco cameras; Eufy Security Cameras PROTOCOL HTTPS; HTTP REQUEST METHODS GET; POST; CONNECT	DESCRIPTION Autonomous New Security Cameras

Cloudi-Fi solution provides user profiling and identification which allows Zscaler to define **specific security policies per user profile.**

**Firewall Control**

Configure Firewall Control Policy  
Rules are evaluated in the order specified. Rule evaluation stops at the first match.

Firewall Filtering Policy | NAT Control Policy

+ Add Firewall Filtering Rule

Rule Name	Criteria	Action	Label and Description
Connected Screens	GROUPS Samsung screens LOCATIONS [FRA]Lyon; [GER]Berlin; [SP]Seville; [SWE]Gothenburg; [UK]Manchester NETWORK APPLICATIONS Secure DNS; IceCast; RTSP; SoundCloud; Yahoo Screen; UDP; Samsung A... NETWORK SERVICES UDP; HTTP; HTTPS; RTSP	Allow	DESCRIPTION EMEA screens
Security cameras	DESTINATION ADDRESSES 190.12.34.12; 190.12.34.1 DESTINATION COUNTRIES United States GROUPS Cisco cameras; Eufy Security Cameras NETWORK SERVICES FTP; HTTP; HTTPS	Allow	DESCRIPTION Central video repository
Sound system	GROUPS Sonos sound system NETWORK APPLICATIONS Qstream; SoundCloud; StreamAudio	Allow	DESCRIPTION Audio Streaming
Default Firewall Filtering ...	Any	Block/Drop	

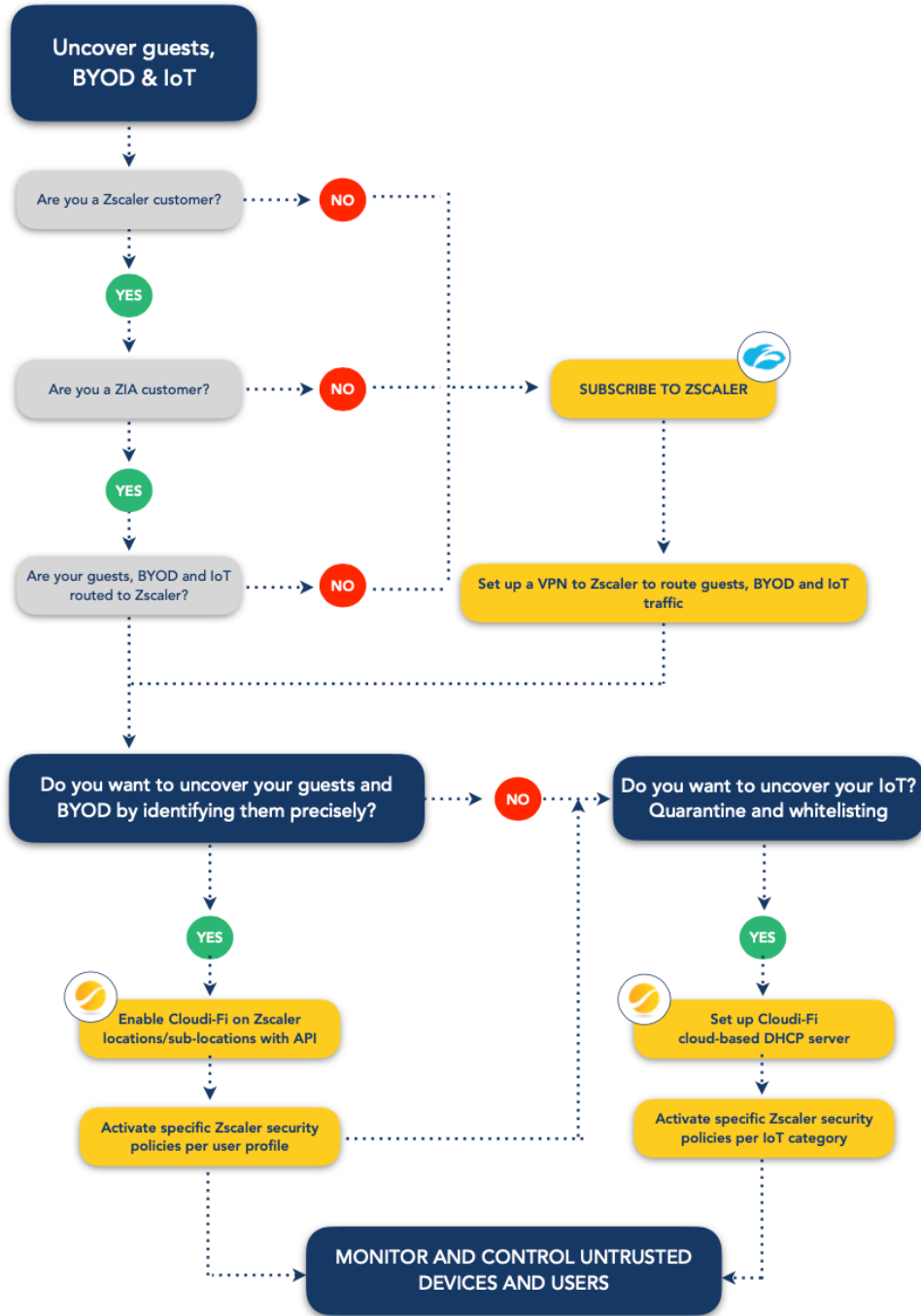
Cloudi-Fi solution provides IoT identification and classification which allows Zscaler to define **specific security policies per IoT category.**



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# ZSCALER AND CLOUDI-FI ELIGIBILITY



## SUMMARY

Zscaler offers security as a service through a unique zero trust platform. Combined with Cloudi-Fi services, enterprises gain visibility and control on Guests, BYOD and IoT use. The solution provides a full-featured compliant and secure solution.

To learn more about Zscaler and Cloudi-Fi solutions

Please visit

[Zscaler deployment](#)

[Zscaler Technology Partner page](#)

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