# **2022 KHNOG 4 Conference** Sharing for better community !

# **安美国电信** (-) Alibaba Cloud KHNOG

Cambodia Network Operators Group

# **安中国电信** (---) Alibaba Cloud

- 4: Our Solutions
- 5: Q&A

# **1: Introduction of China Telecom 2: Progress of CTGNet POP** 3: Develop Cloud Security Strategy

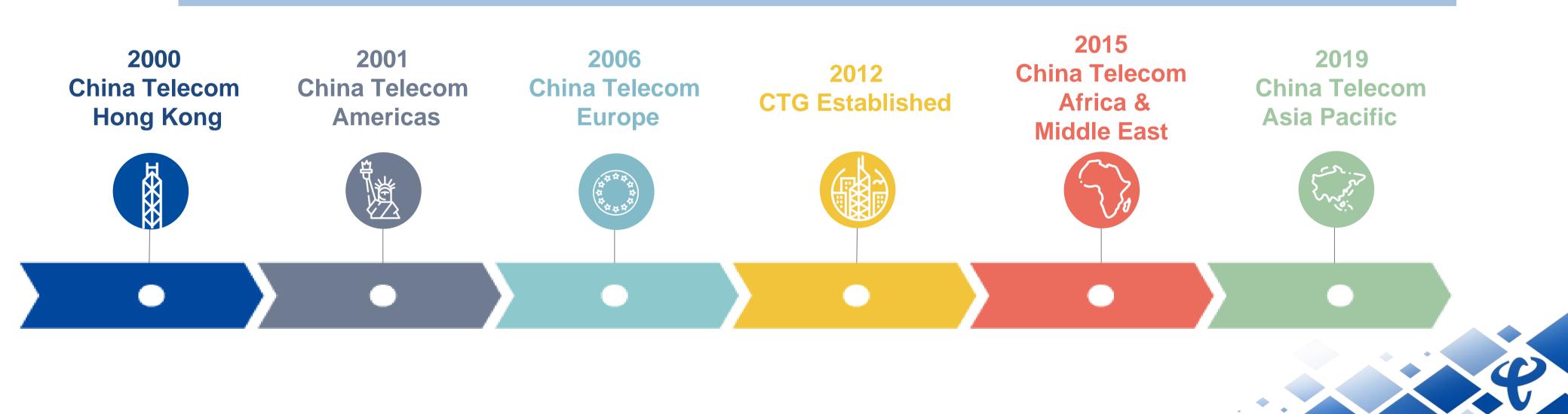
# About Us

WE are world-class integrated telecommunication services provider with an agile and forward-looking spirit, innovative products and business models, and industry-leading technologies.

WE set up our first overseas office in 2000, and established China Telecom Global Limited (CTG) in 2012, to further enhance our global service quality.

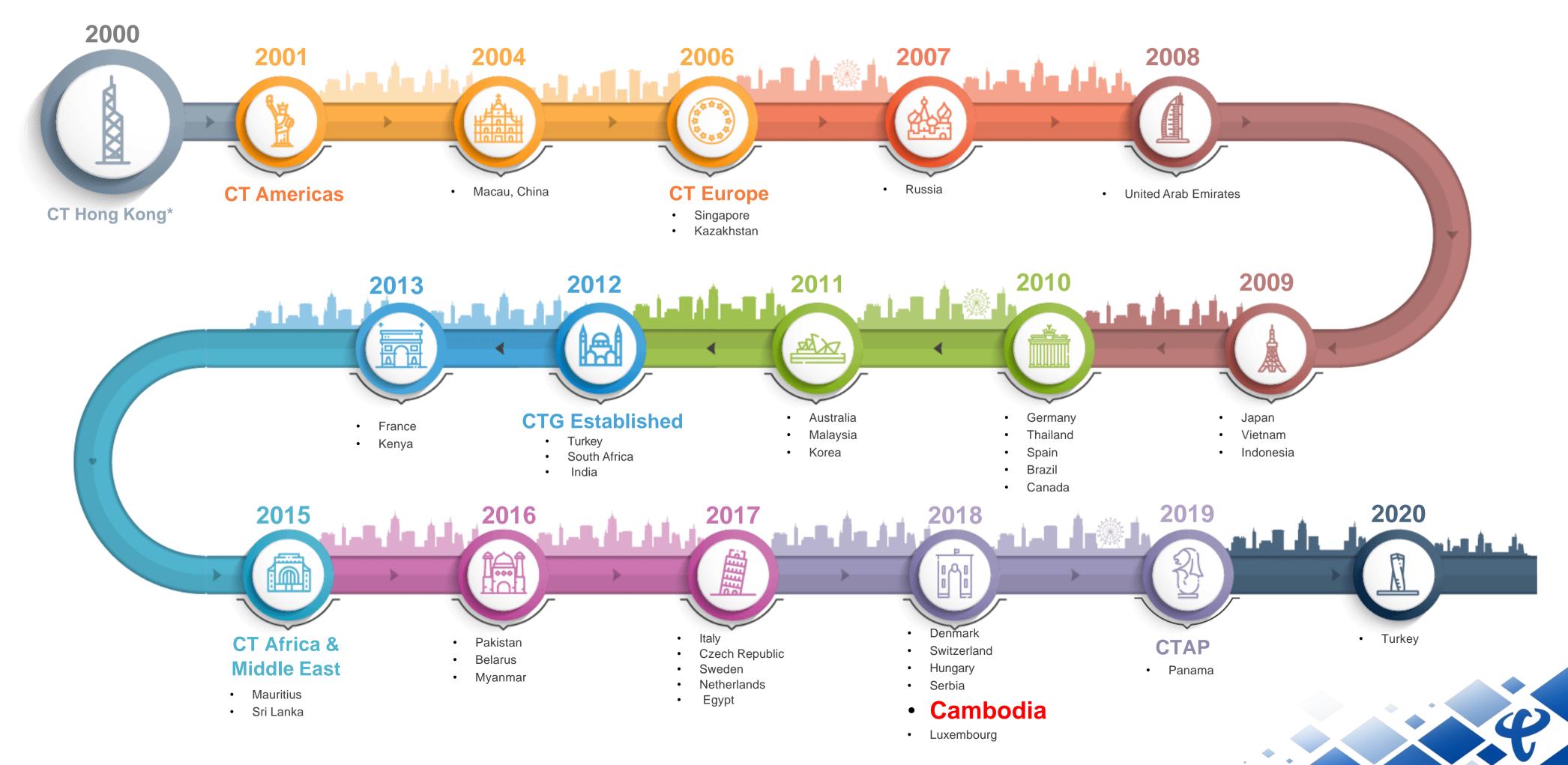
WE deliver a wide portfolio of high-quality and integrated communications solutions to international carriers, multinational enterprises and overseas Chinese customers.

WE are dedicated to create value for our customers in their business transformation, enabling them to achieve business growth, enhance global footprints and maintain competitive edges by digitalisation.





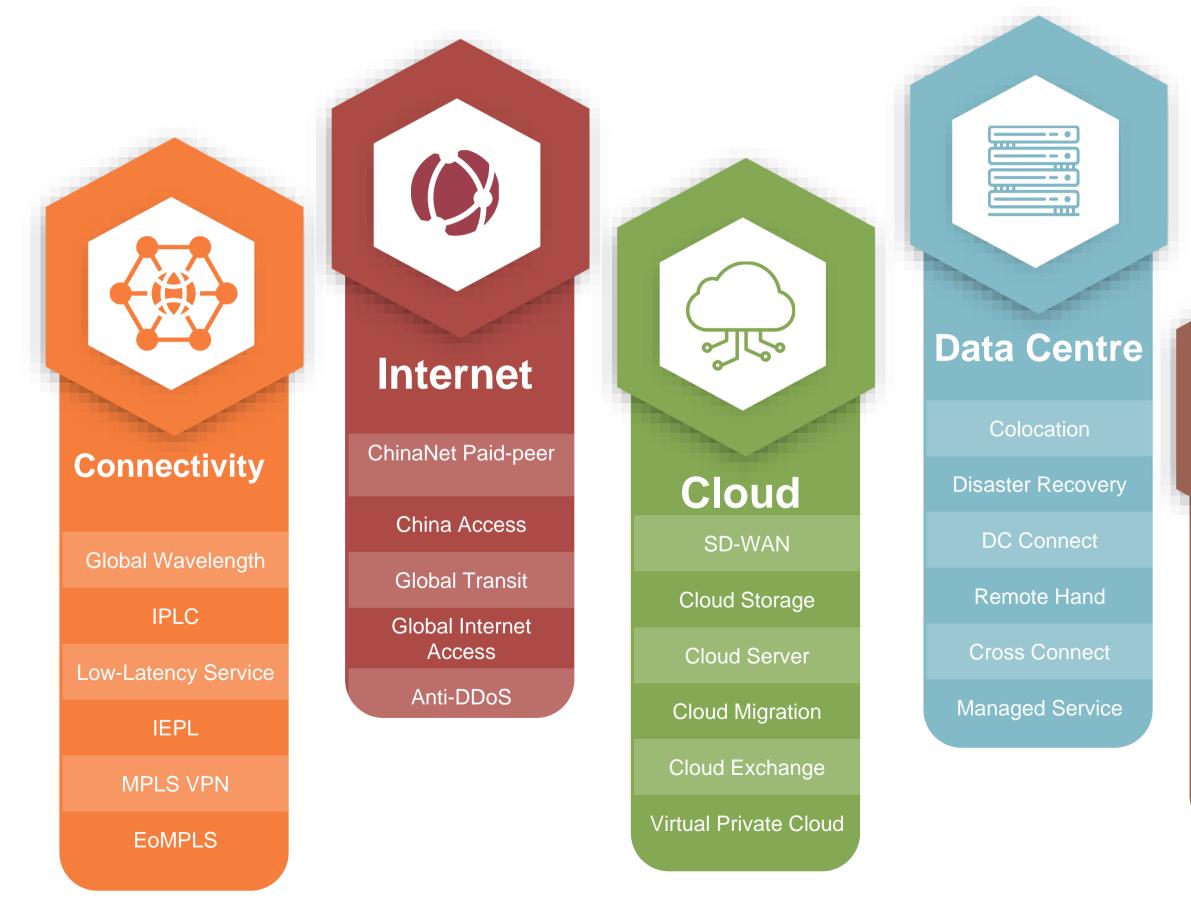
# **CTG Cambodia founded in 2018**





# **Our Products Portfolio**

A full suite of industry-specific solutions is readily available to cater the digital needs of every industry.





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# Media & Content

Content Delivery Network

Media Exchange



## Mobility

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CTExcel Mobile Services

Enterprise Communication / Value-added Services

## loT

Global Connectivity Services

M2M / Consumer eSIM Services

## Roaming Services

IPX

Sponsor Roaming

## **Our Qualification**

## LICENSE

FOR

## THE PROVISION OF INTERNET SERVICES

### WITHIN THE KINGDOM OF CAMBODIA

GRANTED BY

## **TELECOMMUNICATION REGULATOR OF CAMBODIA** (TRC)

TO

## **BRANCH OF CHINA TELECOM GLOBAL** LIMITED



ក្រសួងប្រែសណយនងទូរគមនាគមន។ - ពាក្យស្នើសុំវិញ្ញាបនបត្ររបស់លោក WANG HONGTAO ចុះថ្ងៃទី០៤ ខែមីនា ឆ្នាំ២០២០។ តបតាមសេចក្តីយោងខាងលើ អគ្គនាយកដ្ឋានបច្ចេកវិទ្យាគមនាគមន៍ និងព័ត៌មាន សូមផ្តល់វិញ្ញាបនបត្រ ការផ្តល់សេវាប្រឹក្សានិងសេវាបច្ចេកទេសផ្នែកបច្ចេកវិទ្យាគមនាគមន៍ និងព័ត៌មាន ជូន សាខាក្រុមហ៊ុន ធាយណា ឆេលីខម គួប៊ីល លីមីធីត (BRANCH OF CHINA TELECOM GLOBAL LIMITED) ដែលមានទីស្នាក់ការស្ថិតនៅផ្ទះលេខ៦៦ អគារវន្លនេះ ជាន់ទី២០ បន្ធប់២០០៦ ផ្លូវព្រះមុនីវង្ស ភូមិ១ សង្កាត់វត្តភ្នំ ខណ្ឌដូនពេញ រាជធានីភ្នំពេញ។ សាខាក្រុមហ៊ុន ធាយណា ឆេលីខម គ្លូប៊ូល លីមីធីត (BRANCH OF CHINA TELECOM GLOBAL LIMITED) ត្រូវគោរពយ៉ាងមឹងម៉ាត់នុវច្បាប់បទបុញ្ញតិពាក់ព័ន្ធ និង លក្ខខណ្ឌនានាដែលកំណត់ដោយក្រសងរៃបេសណីយ៍និងទរគម-នាតមន៍។ សាខាក្រុមហ៊ុន ឆាយណា ពេលីខម ត្តូបិល លីមីធីត (BRANCH OF CHINA TELECOM GLOBAL LIMITED) មានកាតព្វកិច្ចត្រូវបង់កម្រៃផ្សេងៗស្របតាមការកំណត់របស់ក្រសួងសេដ្ឋកិច្ច និងហិរញ្ញវត្ថុ និង ក្រសួងប្រៃសណីយ៍និង ទរគមនាគមន៍។ ក្នុងករណីមិនអនុវត្តតាមលក្ខខណ្ឌដែលមានចែងក្នុងអនុក្រឹត្យលេខ ១១០ អនក្រ.បក ចុះថ្ងៃទី២១ ខែកក្កដា ឆ្នាំ២០១៧ ស្តីពីការផ្តល់ការអនុញ្ញាតបំពេញប្រតិបត្តិការលើវិស័យបច្ចេកវិទ្យាគមនាគមន៍ និងព័ត៌មាន និង បទប្បញ្ញត្តិ ពាក់ព័ន្ធផ្សេងៗ សាខាក្រុមហ៊ុន ឆាយណា ផេលីខម ភ្លូបិល លីមីធីត (BRANCH OF CHINA TELECOM GLOBAL LIMITED) ត្រូវទទួលខុសត្រូវចំពោះច្បាប់ជាធរមាន។ ញ្ញែាបន៍បត្រមានសុពលភាពរយៈពេល ៣ (បី) ឆ្នាំ គិតចាប់ពីថ្ងៃចុះហត្ថលេខាត្តនៅ។ 🎢 ចមួនដូន: -ក្រសួងសេដ្ឋកិច្ចនិងហិរញ្ញវត្ថ

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ក្រសួទថ្ងៃចសណីយ៍និទន្ធរគមនាគមន៍

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หสถายหฎาลยะยุทธิญาตรธาตรธ์ อ๊อกัส์เงล

លើវិស័យបច្ចេកវិទ្យាគមនាគមន៍ និងព័ត៌មាន។

ក្រសួងប្រៃសណីយ៍និងទូរគមនាគមន៍។

ទិញ្ញាមឧទ្យុគ



• ដើម្បីជនដោប • -សាមីខ្លួន (ដើម្បីអនុវត្) -ឯកសាវ-កាលឬវត្ថិ





# **Our Professional Team**





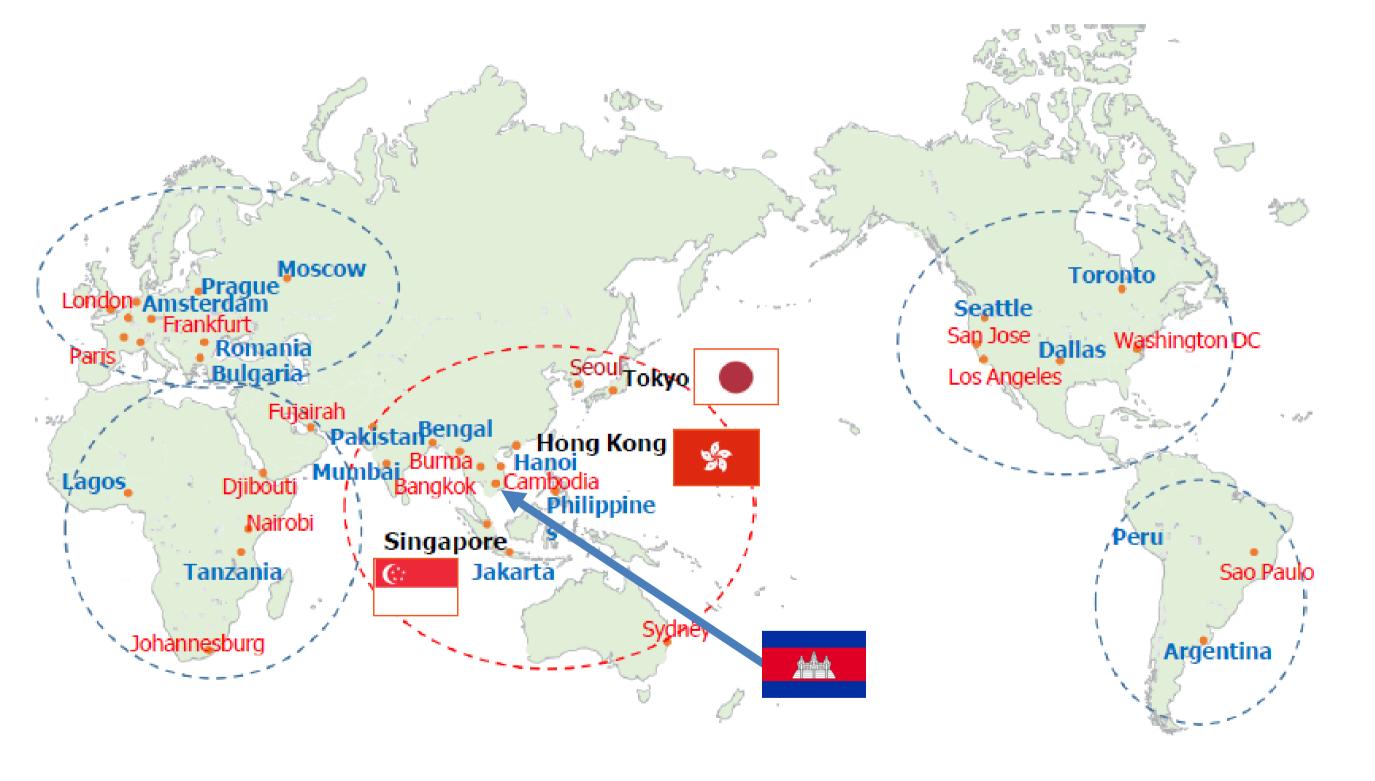


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## **CTGNet Roadmap & Service Coverage**



Ready Established 2020 Established 2021~2022





## **Global Transit**

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IP transit service of access to world-wide internet resources for ISPs and ICPs

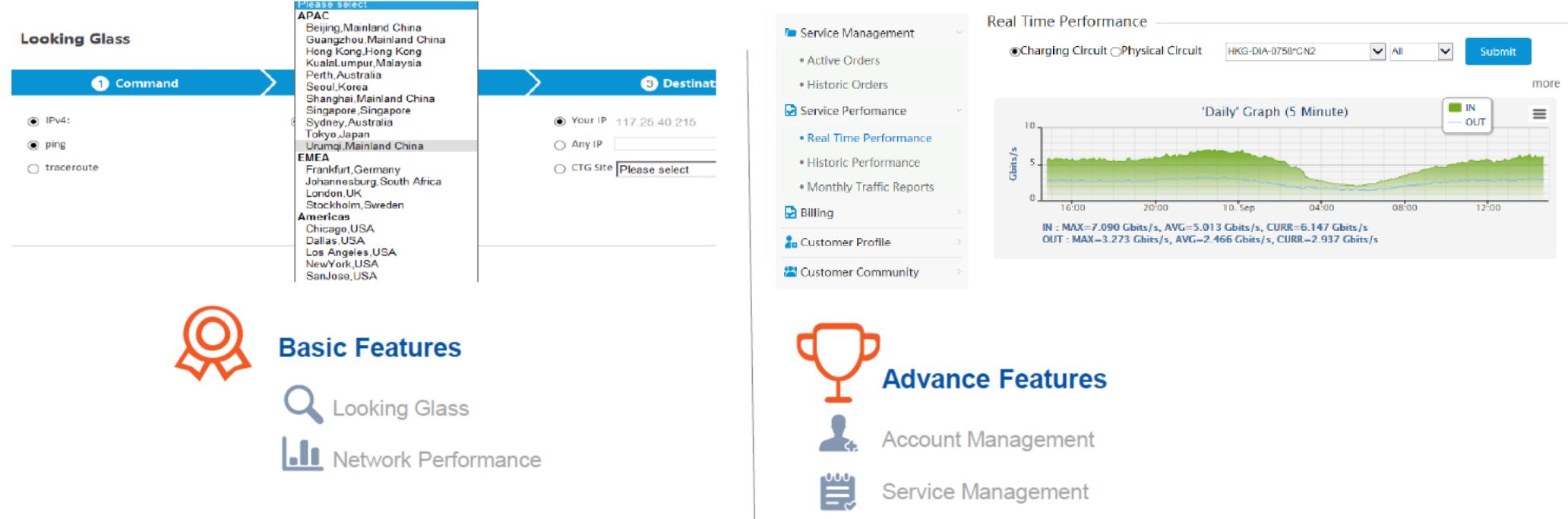
## **Global Internet Access**

 Dedicated Internet Access service with premium china access for enterprises



## **GIS Customer Portal**

provides real-time monitoring and aggregated reporting of connectivity and network quality for GIS customers url: http://ipms.chinatelecomglobal.com/ or http://183.91.49.53/public/index.html



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- Service Performance
- **Business Statistics**



# **Global Internet Service (GIS)**

## Including access to Internet resources (particularly in China) and IP transit provided by CTG

## **Global Internet Services**



\*Value-added Services are additional services which need to be bundled with the basic services and cannot be sold separately.



## Value-added Services\*



## RDNS



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## **China Telecom & Alibaba Cloud Partnership**







- China Telecom is a global Elite Channel Partner with Alibaba Cloud and in Cambodia China Telecom also a distributor of Alibaba Cloud service as well with the partnership strategy to develop cloud business in
- Cambodia.



## **Cloud Security Challenges**

How to meet the **compliance requirements** for your industry in your region?

How to manage your cloud **assets** and perform daily **operations** in a secure manner?

Design a Secure Cloud Environment for Your Business in Three Steps



Step 1: Assess Security Risks

**Step 2: Build Security Capabilities** 

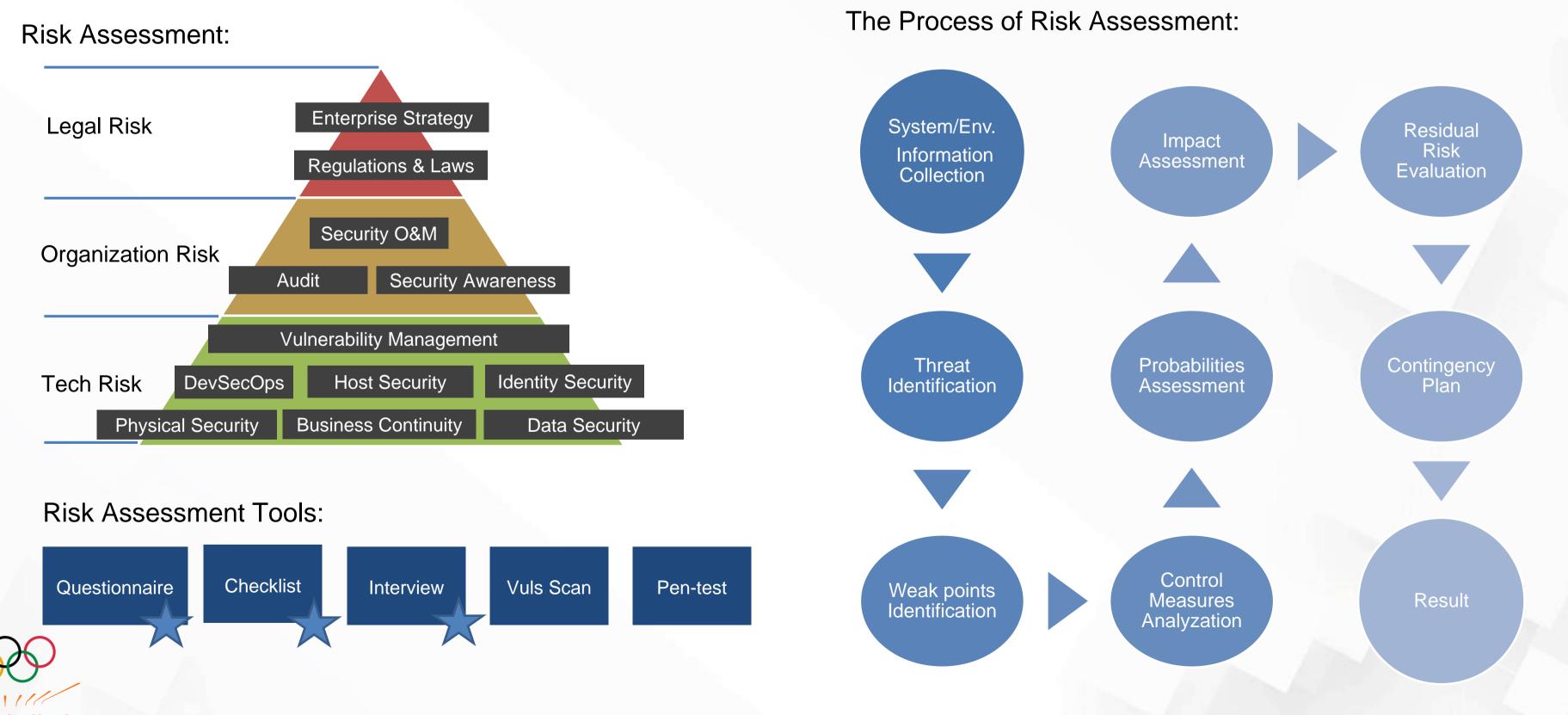




Step 3: Manage Business Risks

## **Build Security Visibility with Risk Assessment**

Security risk assessment is the foundation for building enterprise information systems. Systems without security assessment might contain vulnerabilities that could cause huge losses to your enterprise.



C-J Alibaba Cloud dwide Cloud Services Partn



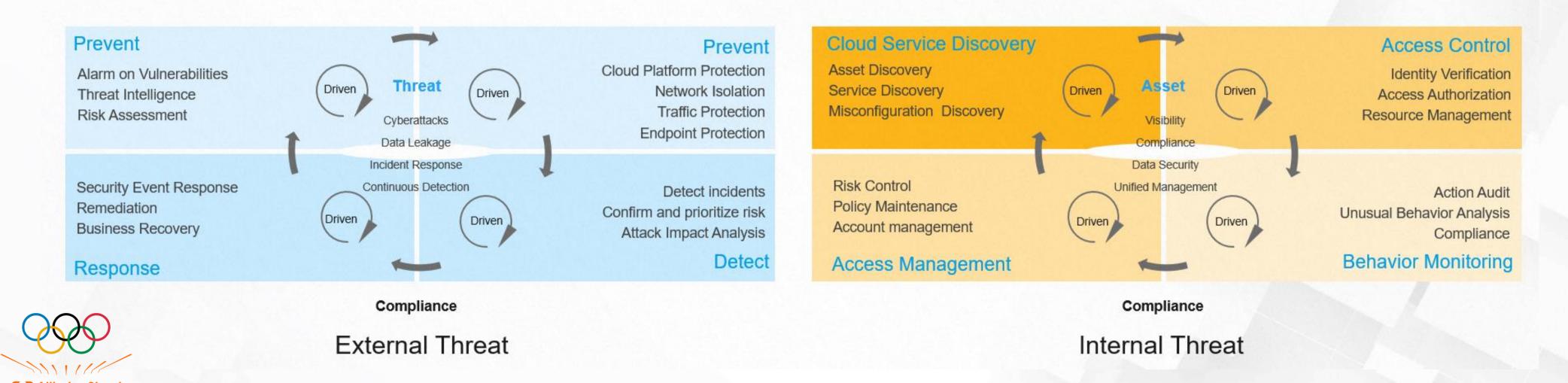
## **Build Controllability with Security Capabilities**

## Adaptive Security Architecture for both external and internal threats

The cloud security protection framework should be established considering both the external and internal threats. Traditionally, many enterprise mainly focus on preventing a cyber attack, rather than a continuous response. Also in cloud environment, threats are not only coming from the "outside". With zero-trust concept, the access management and protection is also crucial to prevent internal attacks.

Gartner Attack Protection

- J Alibaba Cloud





## Gartner Access Protection

## Manage Business Risks for Great Value





- Client identity & traffic characteristics & message decoding & signature verification
- Message/fingerprint/identity mapping & behavior analysis & machine learning
- Block & JS verification/Captcha & rate limiting & traffic marking + data spoofing...
- Large traffic DDoS mitigation

## Guarantee the continuity of business





Verify the ID authenticity and extract the information via OCF

Alibaba Cloud



- •ID Verification and Anti-Counterfeiting
- •OCR Verification Performance
- •Face Match
- •Risk Control——Prevent reuse of face and ID attack

**Reduce Identity Fraud** 







- •Multiple service centers
- •Live stream moderation
- •Video &audio moderation
- •Image & text moderation

Satisfy the requirements of compliance, establish enterprise image



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- •Atomic capabilities of risk control: Identify security risks in devices, mobile phones, and IP addresses.
- •Risk management in all scenarios
- •Various feature variables: supports custom variables, cumulative variables, and lists to analyze risk features from multidimensions

Detecting fraudulent behavior/attacks which may cause their losses in online businesses.

## A Secure Cloud Environment for Your Business with Alibaba Cloud

Assess Security Risks

Simulates full-scale, in-depth attacks to test your system security and proactively identify risks in your business processes;

Provides security consulting service with asset surveys, security baseline scanning, vulnerability scanning, personnel interviews, etc., to evaluate the current status of business system security;

Detects ransomware, various viruses, and web tampering to protect cloud and on-premises servers, and performs compliance assessment to meet regulatory compliance requirements;

Alibaba Cloud Security Products



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Penetration Test

Managed Security Service



security management system;

with visualized information;

applications;

centralized manner, monitors all O&M in real time;





## Visible



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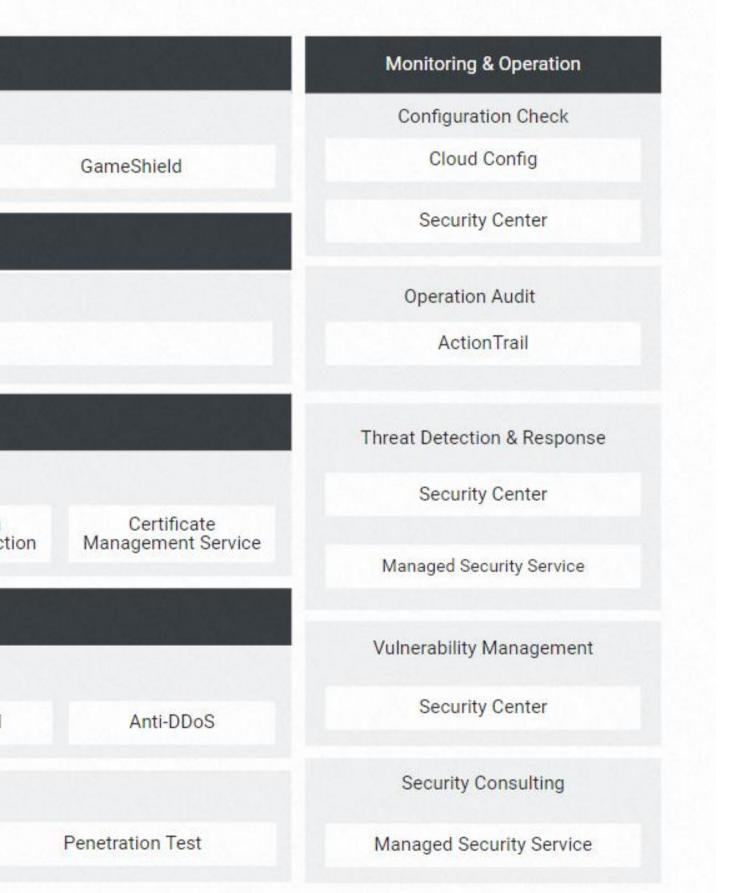
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## **Security Portfolio Overview**

Account Security	Business Security			
Identity & Access	Risk Control			
	Fraud Detection	Content	t Moderation	
IDaaS		Applicat	tion Security	
	Application Protection			
Resource Directory	Web Application Firewall (WAF)			
Resource Access Management	Data Security			
	Data Protection			
Audit	Key Management Service	Data Encryption Service	Sensitive Data Discovery & Protection	
	Infrastructure Security			
Bastionhost		Network Security		
	Secure DCDN	Security Group	Cloud Firewall	
ActionTrail	Host & System Security			
	Security Center	Ba	Bastionhost	

C-D Alibaba Cloud Worldwide Cloud Services Partner

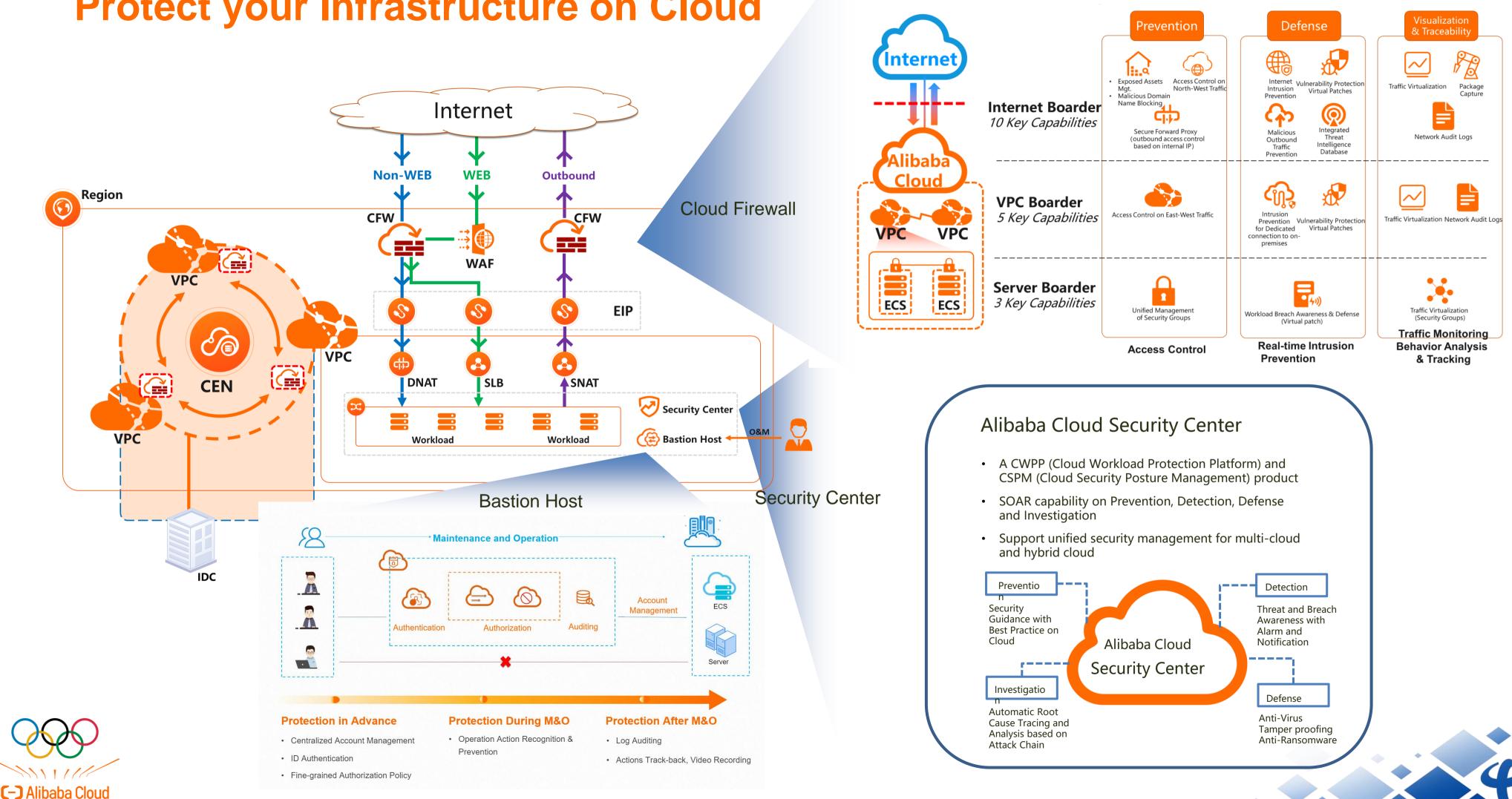




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## **Protect your Infrastructure on Cloud**

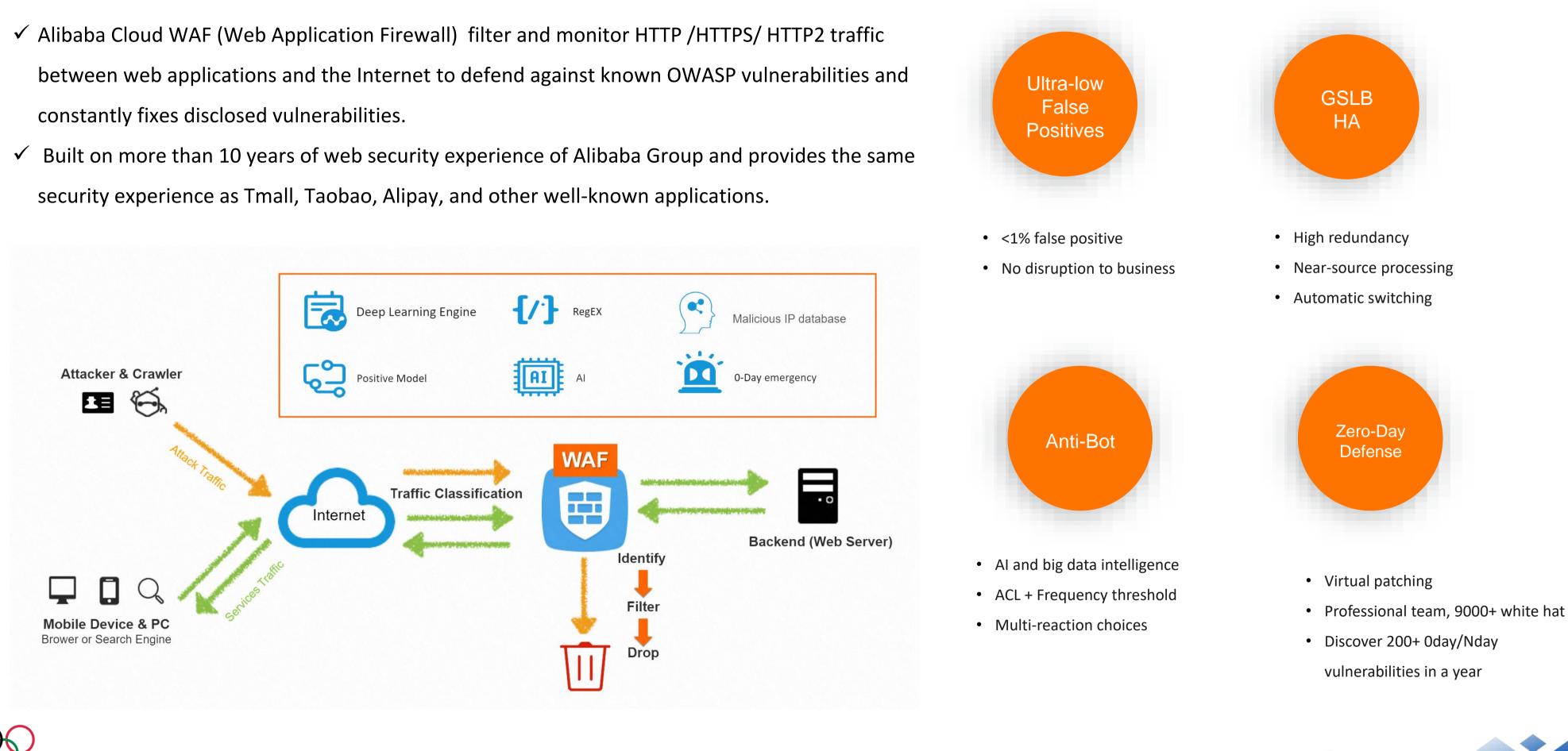
Worldwide Cloud Services Partner



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## **Protect your Application**

- constantly fixes disclosed vulnerabilities.
- security experience as Tmall, Taobao, Alipay, and other well-known applications.

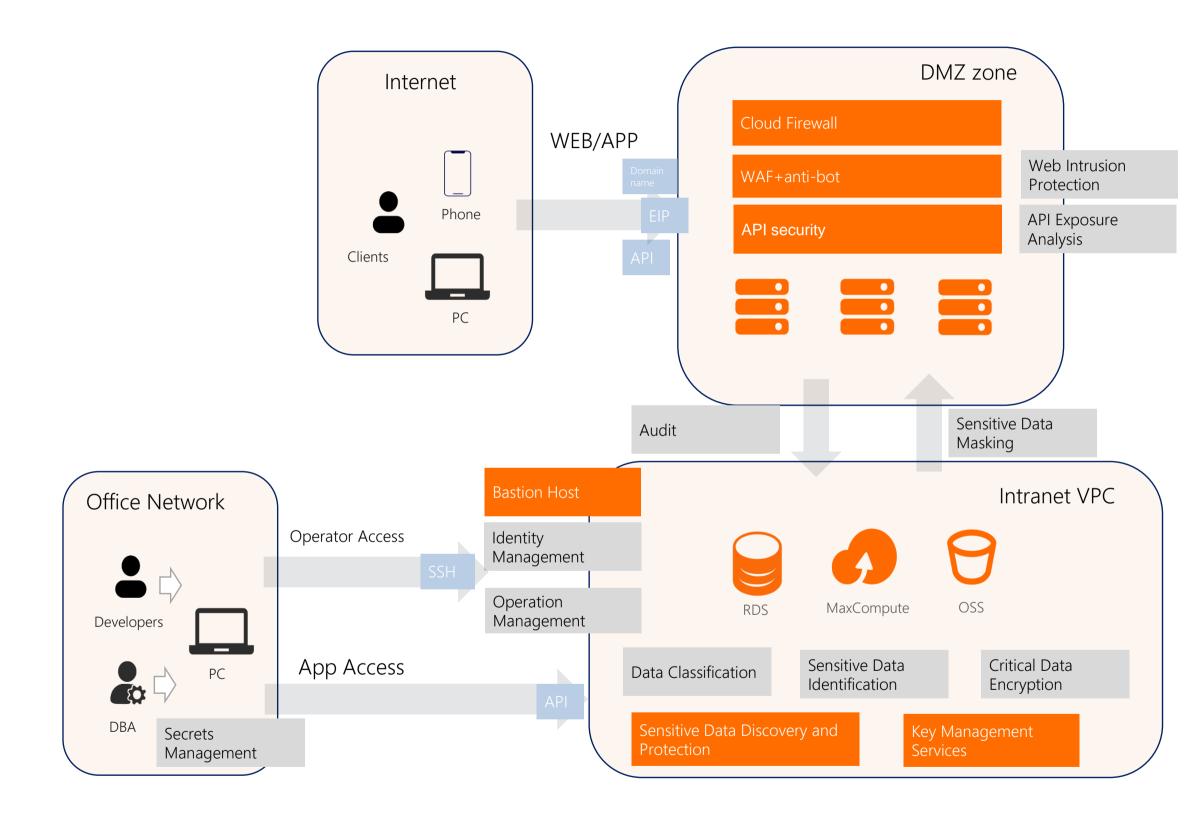


Alibaba Cloud



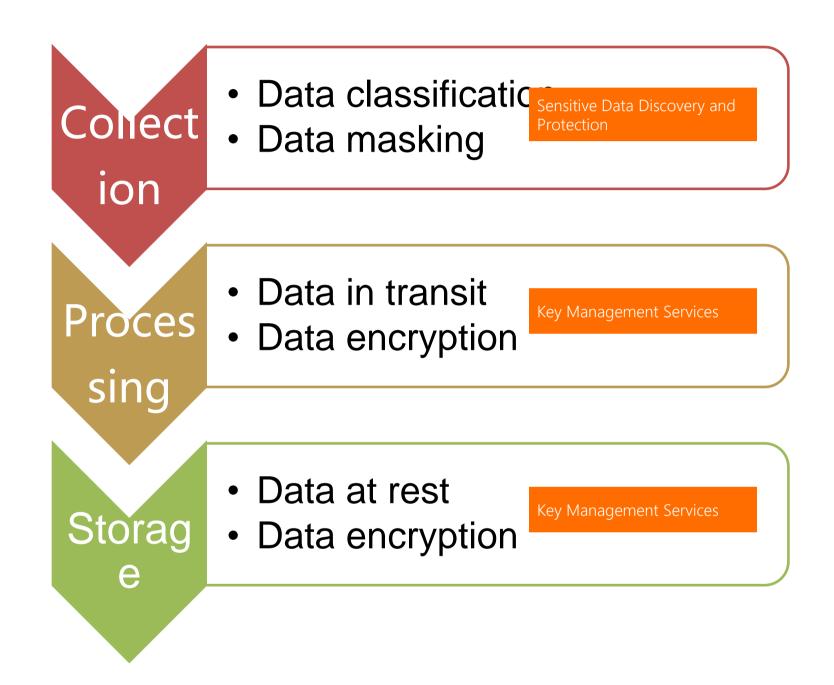


## **Protect your Sensitive Data on Cloud**





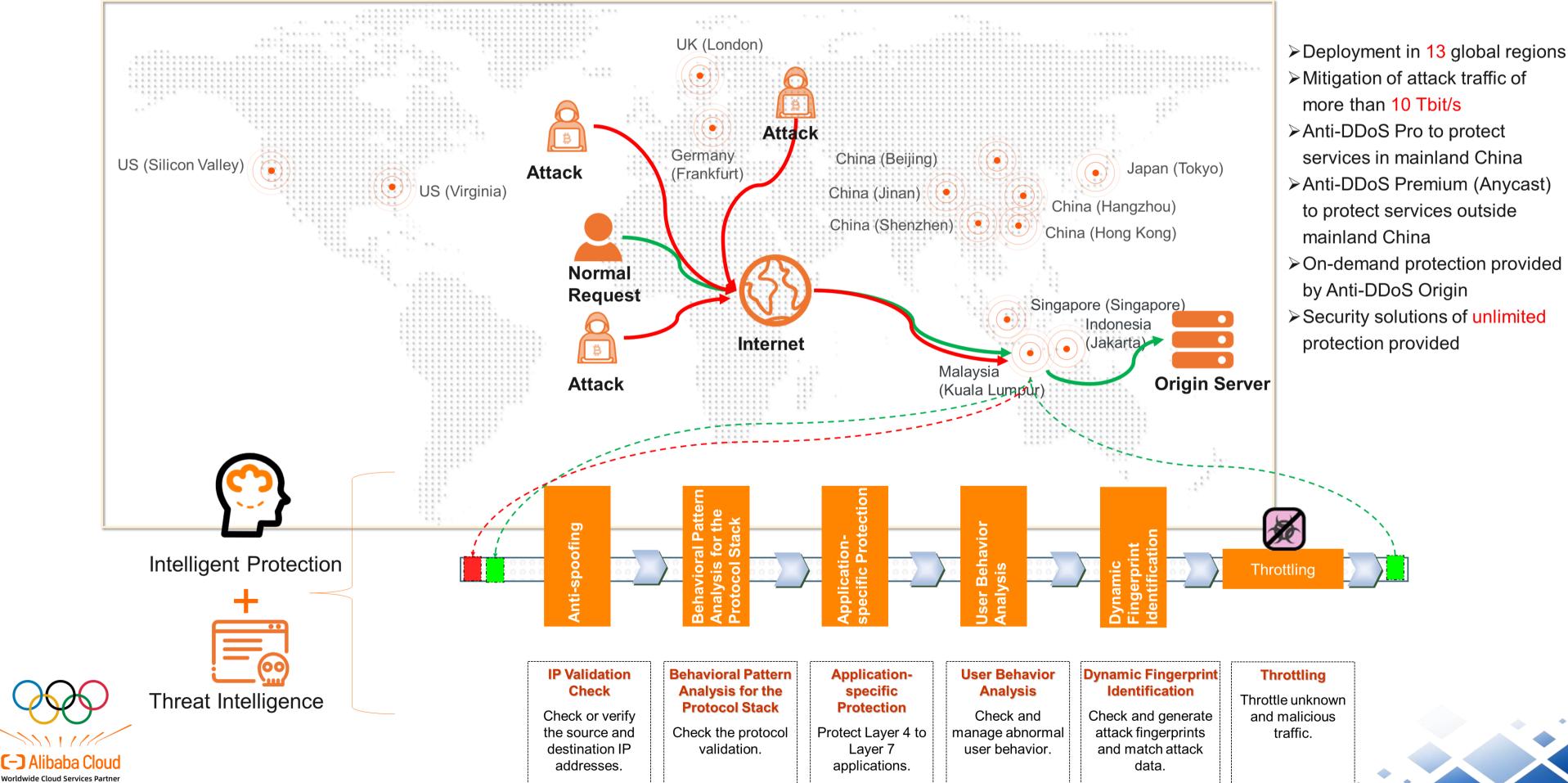






## **Protect your Business Continuity on Cloud**

- Alibaba Cloud Anti-DDoS can protect services against Tbit/s-level DDoS attacks.
- Alibaba Cloud Anti-DDoS works together with MCA to improve the quality of cross-border networks.





## **Security Services Catalog**

Managed Security Service Solution

- 1. Security Consulting Service : Provide Online security advisory by security professionals at Dingtalk group (5x8)
- 2. Security Assessment Service : Identify assets and perform security risk assessment
- 3. Vulnerability Scan : Conduct a comprehensive security vulnerability scan every quarter and provide remediation guidelines
- 4. Security Hardening Guidelines
- 5. Security Events Monitoring
- 6. Security Incidents Emergency Response (7x24)
- 7. Configuration Guidance: Provide experts guidance to help customer configure and use security products

Penetration Test

Penetration Test is a service that simulates full-scale, in-depth attacks to test customer's system security. The service we provide will identify risks in customer's business process in advance, such as security defects and vulnerabilities. It also helps customers to improve defense capabilities and to protect against complex attacks.

PCI DSS, MLPS and ISO/IEC 270001 Compliance Services

Provide services including scoping review, gap analysis, implementation preparation, certification preparations and certification application assessment to help customer with compliance requirements.

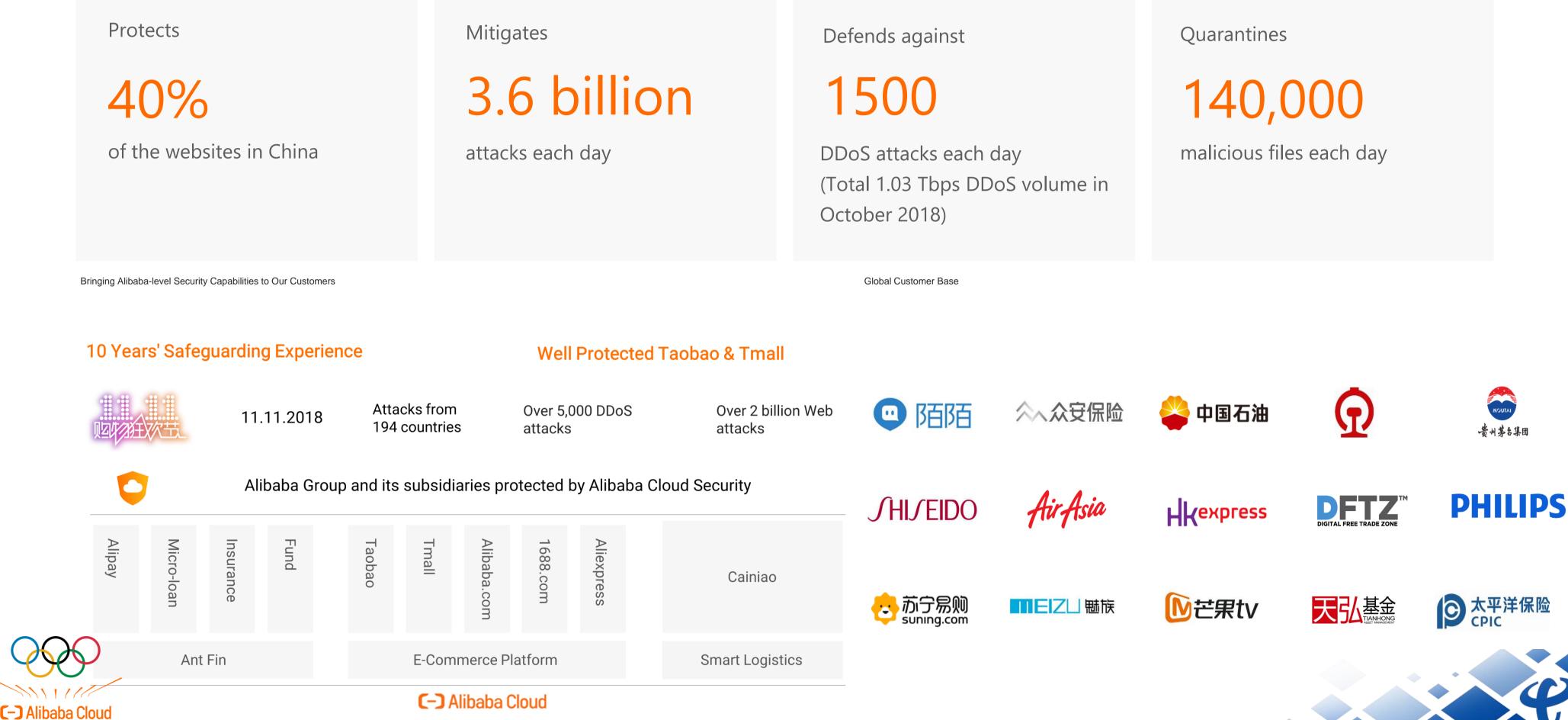






## Leading the Cloud Security Market in China

Worldwide Cloud Services Partne





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# **THANK YOU**

