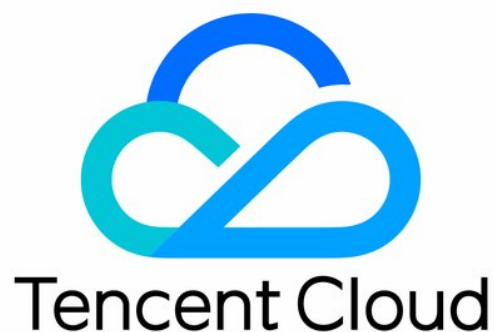


# **Global Application Acceleration Platform**

## **Product Introduction Product Documentation**



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# Product Introduction

## Product Overview

Last updated : 2020-02-28 14:00:53

### Overview

Tencent Cloud Global Application Acceleration Platform (GAAP) uses high-speed connections, cluster forwarding, and intelligent routing among global nodes to allow users in different regions to access the closest nodes so their requests can directly reach the origin server through high-speed connections, reducing access lag and latency.

GAAP provides graphical configuration interface. Within a few minutes, you can create a high-speed connection, use it to access business origin servers, and view the running status of the connection in the console.

### Product Advantages

#### **Global Deployment**

GAAP has more than 50 global nodes deployed across Asia, Europe, South America, North America, and Oceania. It provides stable and efficient high-speed connections for businesses around the globe that require cross-region access or server sharing, reducing access lag and latency.

#### **High stability and efficiency**

GAAP has five central nodes covering major regions around the world with a linkage stability of 99.95%. The network latency is below 60ms for intra-region communications and below 180ms for cross-continent or cross-region communications. A single GAAP connection can sustain 1 Gbps bandwidth and accelerate one million concurrent requests.

#### **Flexible Access**

GAAP provides graphical user interface for easy creation and use of high-speed connections. It supports IP and domain name access, nearby access through globally unified domain name, TCP and UDP protocols, and URL rule forwarding for HTTP and HTTPS.

#### **OPS Support**

GAAP supports the origin server to get real user IPs. It supports on-demand capacity expansion and service change imperceptible to your business; statistical analysis in multiple dimensions such as bandwidth, concurrence, packet loss, latency, and packet forwarding; cloud monitoring alarms for connections and origin servers.

# Product Features

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Key features of GAAP include acceleration proxy configuration, origin server management, acceleration statistics collection, connection monitoring, and acquisition of real user IPs.

## Acceleration Proxy

- GAAP supports configuring an acceleration connection by target user region and origin server region. It will automatically select the most appropriate connection based on the target user region and origin server region to achieve the shortest and optimal path from user to origin server, delivering a smoother access experience. For more information on configuration, see [Access Management](#).
- TCP and UDP forwarding are supported.
- Forwarding of URL rules is supported for HTTP and HTTPS.
- One listener can be bound with multiple origin servers, and one connection can have multiple listeners created.
- Configuration and modification of forwarding rules are supported, which take effect in real time and do not affect online business.
- Flexible configuration of acceleration forwarding rules within an connection satisfies scenarios that need step-by-step beta test verification. For more information on configuration, see [Listener Management](#).

## Origin Server Management

- GAAP can manage massive amount of origin servers whose types are IP and domain name, and add them in batches.

## Statistics Collection

- GAAP can collect statistics of an acceleration connection such as its bandwidth, concurrence, packet loss, delay, and packet forwarding volume. Based on the statistics, you can flexibly adjust the capacity cap of an acceleration connection as needed. For more information, see [Statistics](#).

## Connection Monitoring

- GAAP supports monitoring connection and origin server status. It alerts you promptly to connection or origin server problems for easier and quicker troubleshooting. For more information, see [Access Cloud Monitoring](#).

## Obtaining real user IPs

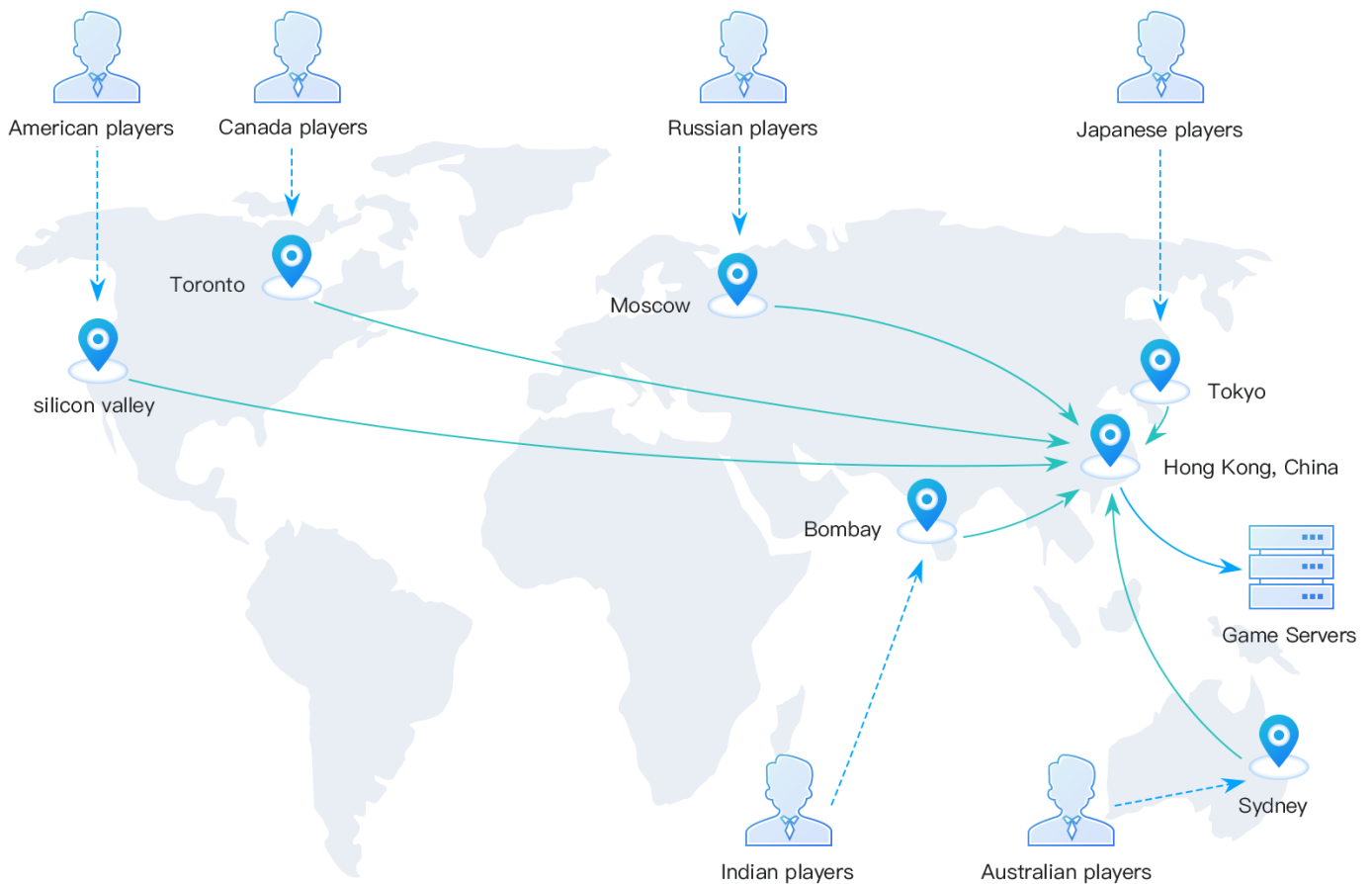
- GAAP supports TOA module to obtain real user IPs, ensuring effective IP passthrough for data analysis purpose. For more information, please see [Obtaining the Real IPs of Access Users](#).

# Application Scenarios

Last updated : 2020-03-04 11:40:08

## One server shared by game players worldwide

In general, many of our games are simultaneously accessible to players around the globe or across a large region, but this type of scenario may compromise game fairness and user experience due to network differences in various regions. The Global Application Acceleration Service allows multiple regions to use a unified domain name for access, allowing players in each region to access the nearest high-speed connections, enabling simultaneous acceleration of users worldwide or in the same region, directly improving user experience and ensuring game fairness.



## Cross-origin access acceleration



For businesses that require cross-origin access, network conditions in different regions often result in increased latency and packet loss, affecting the user experience of cross-domain business access. GAAP can create high-speed connections between the acceleration region (region where the user is located) and the origin server region (region where the server is located), which effectively reduce network latency and packet loss, ensure fast and stable network, and deliver better user experience. Such business scenarios include transnational websites, cross-border e-commerce, globally operated apps, global LVB, video, and global finance.

