

Cloud Automated Testing Operation Guide



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Operation Guide

Creating a Custom Probe

Creating a Network Quality Task

Last updated: 2025-07-24 15:28:51

Network quality monitoring targets application network stability, route stability, and DNS resolution accuracy rate, including ICMP latency and packet loss rate, etc., for monitoring. This document introduces how to create a network quality task.

Directions

Creating a Dial Test Task

1. Log in to the [Cloud Automated Testing console](#), then click **Task List** in the left navigation bar.
2. Click **Create Task** at the top of the task list page.
3. Configure the basic information according to the following instructions.

Configuration Item	Description
Dial test type	Select "customized ping test".
Task type	Select the "network quality" task type.
Dial test task name	Customized ping test task name.
Probe address	Please enter the Web application address that requires probing (starting with http:// or https://) Example: 1. Domain name: <code>https://www.tencent.com</code> 2. Domain port: <code>https://www.tencent.com:80</code> Description: When using TCP or UDP protocol for Ping monitoring, you need to enter port.
Test frequency	Supports testing frequencies of 1 minute, 5 minutes, 10 minutes, 15 minutes, 30 minutes, 1 hour, 2 hours, and 4 hours. For example, selecting a 5-minute frequency means each testing point is tested every 5 minutes.
Custom execution	Execute daily by default at the specified frequency. You can also customize the execution plan as needed. For example, you can configure the dial test task to run from 8:00 AM to 9:00 AM on a specific day of the week.
Task tag	CAT combines with Tencent Cloud resource tag function to offer you permission granting to sub-accounts by tags and cost allocation by tags. For more details, see Resource Tag to configure.

4. Configure the detection point according to the following instructions.

4.1 Selection method: Select a recommended testing node group or a custom testing node group (the recommended testing nodes are commonly used nodes).

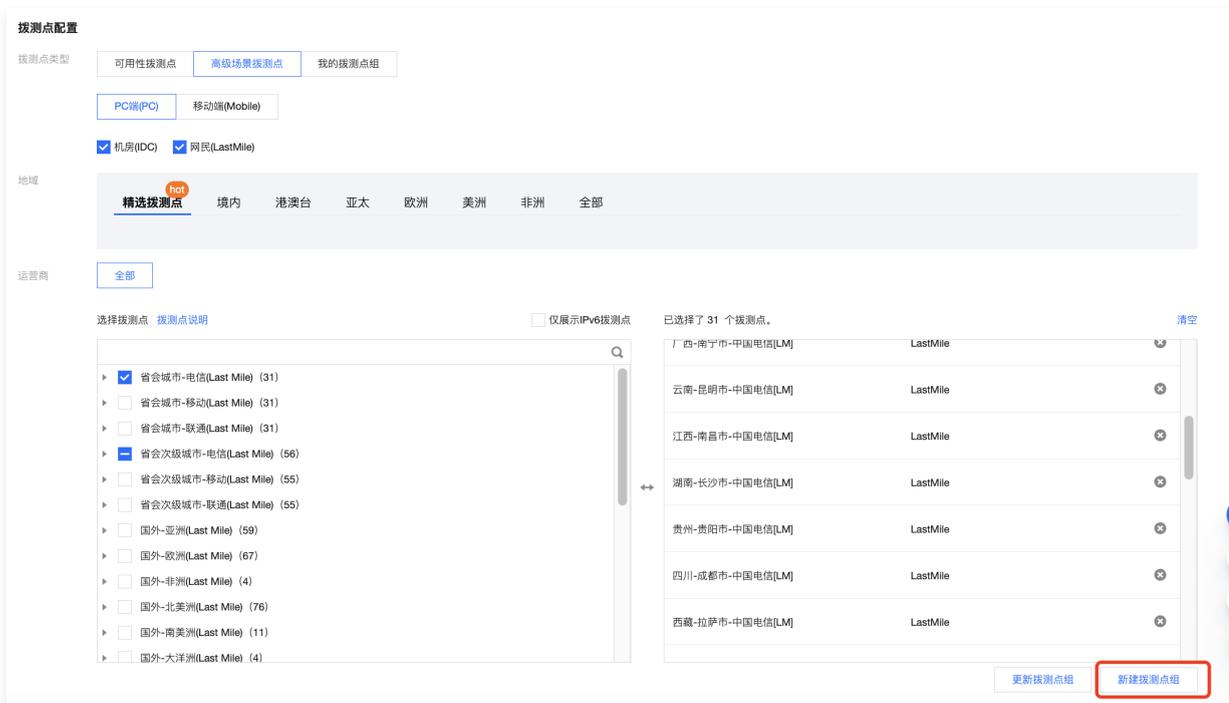
4.2 Select a testing node.

- availability testing node group: only supports network quality and port performance task types, suitable for network quality monitoring, interface availability monitoring, hijacking, and blocking detection.
- Advanced scenario test nodes: Page User Experience Monitoring, Streaming Lag Monitoring, Availability Testing Under Poor Network Conditions, CDN Selection and Path Optimization. Covers IDCs, PC terminals, and mobile testing nodes inside and outside Chinese mainland.
 - Recommended testing node group: We recommend commonly used testing node groups.
 - Custom testing node group: **Select region** > **Select node type** > Check the testing nodes in the box on the right. Node type descriptions are as follows:

Dial Test Point Type	Description

PC client	IDC	The probe point deployed on the PC represents the PC user experience.
	Internet users (LastMile)	The probe point deployed on the terminal user's PC represents the terminal PC user experience.
mobile terminal		The probe point deployed on the mobile terminal phone represents the mobile customer.

- My Testing Node Group: You can select a commonly used testing node group in "Advanced Scenario Test Point" and click **Create Testing Node Group** in the bottom-right corner. Next time you create a task, directly select my testing node group to quickly choose the commonly used testing points you created.



Note:

Since IDC and LastMile have different network environments, IDC is more stable than LastMile.

- If you need to monitor business availability, you can choose a relatively stable IDC.
- To view suggestions for end users' access experience and network conditions, you can select multiple options such as LastMile or mobile terminals. You can simulate the access experience of terminal users to applications.

5. Configure test parameters (optional). The system defaults to configuring commonly used test parameters for you, or you can customize test rules. Configuration instructions are as follows:

Configuration Type	Configuration Item	Description	Default Value
Capture packets	-	Support disabling packet capture, request error packet capture, and all packet capture.	Disable
Ignore private IP	-	When the DNS Resolution Result is a private IP address (such as reserved addresses like 127.0.0.1, 0.0.0.0), it will be judged as a probe failure. If this situation is not ignored, this item dial testing result will not be shown, and no alarm or probe cost will be generated.	
Ping Monitoring	Protocol Type	Supports ICMP, TCP, and UDP protocol types.	ICMP
	Monitor timeout (seconds)	Define monitoring timeout time, with a value range of 0 – 60 seconds (excluding 0).	20 second

			ds
	Execution interval (seconds)	Define the execution interval for Ping monitoring tasks, with options of 0.5s, 1s, 2s, 3s, 4s, 5s, 10s.	0.5 second
	Number of packages (units)	Fill in the number of test data packages.	4
	Package size (KB)	The size of ICMP packets during a Ping operation, which can be used to analyze the variations in network transmission for different packet sizes. Note: This parameter is only available when the Ping protocol is ICMP.	32KB
	Split Package	The DF flag in the IP packet header. When the DF bit is 0, it means the router can segment the upper layer data packet (splitting is allowed by default). When the DF bit is 1, it means the router cannot perform segmentation. If an IP packet cannot be forwarded without segmentation (e.g., when hitting the MTU limit), the router will discard it.	Segmentation
DNS Monitoring	Monitor timeout (seconds)	Define monitoring timeout time, with a value range of 0 – 45 seconds.	5 second
	Query method	Recursive: The DNS query client only interacts with the LocalDNS, which initiates queries to the root service, hierarchical domain name servers, authoritative servers, etc. Iteration: The DNS query client interacts with multi-level DNS servers manually and queries the final result independently.	recursive recursion
	Specify an NS server	Server designated for DNS resolution, fill in the NS service address.	–
	dig command	Whether the monitoring result of the dig command format is enabled.	Disable
	DNS Server Type	If you select the DNS server IP for IPv6, you need to check "Only display IPv6 test points" when selecting a test point.	IPV4
Tracert monitoring	Monitor timeout (seconds)	Define monitoring timeout time, with a value range of 0 – 300 seconds (excluding 0).	60 seconds
	Maximum hop count (units)	Used to set the maximum number of hops during Tracert detection. If the destination IP is not arrived after exceeding the maximum limit, it is considered a probe error. Adjustable based on actual conditions.	20
Hijack monitoring parameter	DNS hijacking allowlist	When the DNS resolution result IP is not in this allowlist, it is considered hijacked. The hijack result can be selected and viewed in the multi-dimensional analysis result details. For details, see Hijack Monitoring Parameter Description .	–
	DNS hijacking blocklist	When the DNS resolution result IP is in this blocklist, it is considered hijacked. The hijack result can be selected and viewed in the multi-dimensional analysis result details. For details, see Hijack Monitoring Parameter Description .	–

Creating Batch Dial Test Tasks

Note:
Support batch addition of up to 20 dial test tasks.

You can click "+Add" on the right of the task name on the new task page, and then enter the task name and task address. Once created successfully, multiple dial test tasks will be displayed in the task list.

任务信息

任务名称 · 拨测地址 · +添加 您还可以添加9个任务

请按填写示例规则填写 [填写示例](#)

拨测频率 ·

自定义执行

说明: 默认每日按频率执行, 也可根据需求自定义执行计划

Creating a Page Performance Task

Last updated: 2025-07-24 15:29:05

This task is used in Web page performance experience scenarios. It can obtain users' experience data when accessing Web pages under different environments, such as ISPs, urban regions, browser versions, operating systems, and devices, to fully understand the page's performance. This document introduces how to create a page performance task.

Directions

1. Log in to the [cloud probing console](#).
2. Click **Task List** in the left menu bar.
3. Click **Create Task** at the top of the task list page.
4. Configure the basic information according to the following instructions.

Configuration Item	Description
Dial test type	Select "customized ping test".
Task type	Select the "page performance" task type.
probe address	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> <p>Note: When using TCP or UDP protocol for Ping monitoring, enter port.</p> </div> <p>Please enter the Web application address to be probed (must start with <code>http://</code> or <code>https://</code>).</p> <p>Example:</p> <ol style="list-style-type: none"> 1. Domain name: <code>http://www.tencent.com</code> 2. Domain port: <code>http://www.tencent.com:80</code> <p>Note: When using TCP or UDP protocol for Ping monitoring, the port must be specified.</p>
Dial test task name	Custom ping test task name.
Test frequency	Supports dial test frequencies of 1 minute, 5 minutes, 10 minutes, 15 minutes, 30 minutes, 1 hour, 2 hours, and 4 hours. For example, selecting a 5-minute frequency means each dial test point is tested every 5 minutes.
Custom execution	Execute by default daily at a specified frequency. You can also customize the execution plan as needed. For example, you can set the dial test task to run from 8:00 AM to 9:00 AM every Monday. To learn about Cron expressions, please see Cron Expression Description .
Task tag	CAT combines with Tencent Cloud resource tag functionality to provide you with the ability to grant sub-account permissions by tag and tag accounting functionality. For more details, see Resource Tag to configure.

5. Configure the detection point according to the following instructions.

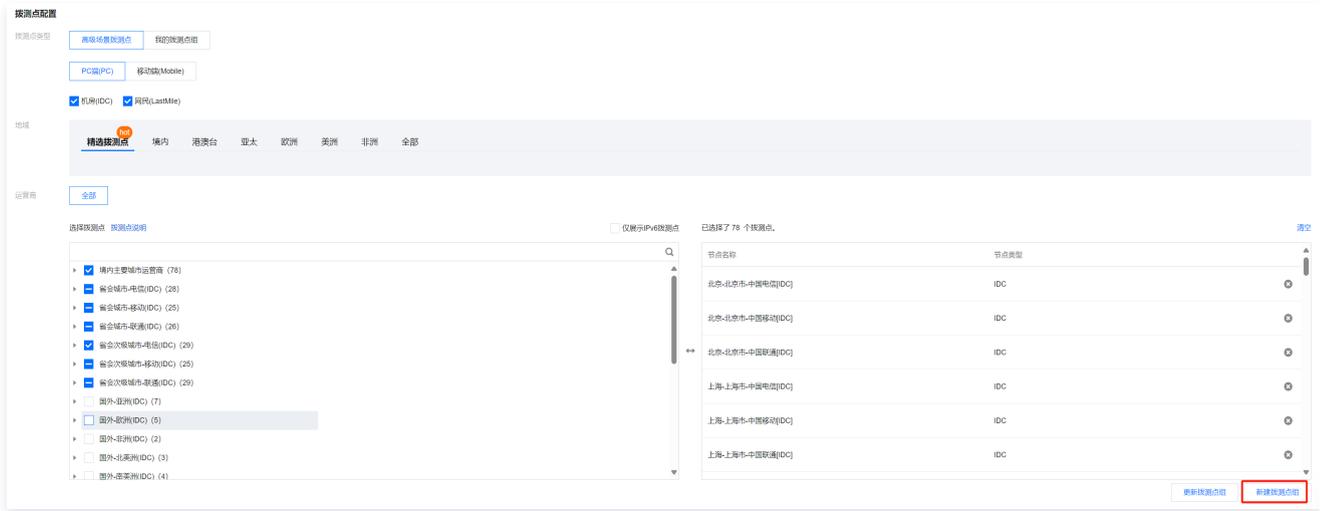
5.1 Selection method: Select a recommended test point group or a custom test point group (the recommended detection nodes are commonly used nodes).

5.2 Select a test point:

- Advanced scenario test nodes: Page User Experience Monitoring, Streaming Lag Monitoring, Availability Testing under Poor Network Conditions, CDN Selection and Path Optimization. Covers IDCs, PC terminals, and mobile testing nodes inside and outside Chinese mainland.
 - Recommended test point group: Recommend commonly used test points.
 - Custom test point group: **Select test point region** > **Select test point type** > Check the test points in the box on the right. Test point type descriptions are as follows:

Dial Test Point Type		Description
PC client	IDC	The probe point deployed on a PC represents the PC user experience.
	Internet users (LastMile)	The probe point deployed on the terminal user's PC represents the terminal PC user experience.
mobile terminal		The probe point deployed on the mobile terminal phone represents the mobile terminal customer.

- **My Testing Node Group:** You can select commonly used testing node groups in "Advanced Scenario Test Point" and click **Create Testing Node Group** in the bottom-right corner. Next time you create a task, directly select my testing node group to quickly choose your created commonly used testing nodes.



! Selection recommendation

Since the network environment of IDC is different from that of LastMile, IDC is more stable than LastMile.

- If you want to monitor business availability, you can choose a relatively stable IDC.
- To view the access experience and network conditions of end users, it is recommended to select LastMile or mobile terminals for multiple choices, and simulate the access experience of end users to applications.

6. Configure ping test parameters (optional). The system defaults to configuring commonly used ping test parameters for you. Alternatively, you can customize ping test rules. Configuration instructions are as follows:

Configuration Item	Description	Default Value
Ignore private IP	When the DNS resolution result is a private IP address (such as reserved addresses like 127.0.0.1 or 0.0.0.0), it will be judged as a probe failure. If this situation is not ignored, the test result will not be shown, and no alarm or probe cost will be generated.	-
Custom Host	Custom Host is used to specify the interpretation method of a domain name during probing, and is used to resolve the domain name to a static IP (or another domain name, similar to CNAME). Support polling or random monitoring by IP address. For multiple IPs, use a half-width comma separator. For example: <ul style="list-style-type: none"> • IPv4: 192.168.2.1,192.168.2.5:img.a.com 192.168.2.1?[8080]:img.a.com • IPv6: [0:0:0:0:0:0:1][8080],[0:0:0:0:0:0:2][8081]:www.a.com 	-
Traffic hijacking (identify element)	When a page undergoes a 302 redirect, if the elements on the redirect page exceed the set value, the page is considered hijacked. Hijacking details can be checked by selecting options on the Multidimensional Analysis Page .	-

Traffic hijacking (hijacking flag)	Set matching key information. Traffic hijacking functionality, classify and count the situation of 302 redirects during page browsing. (The monitoring premise is the presence of a 302 element on the page; generally, monitor the situation after a 302 occurs in the base document.)	-
Page tampering	<p>Supports multi-line input. Enter the page addresses that need to be monitored. Format: <code>domain name:element</code>. Elements can include wildcards. Multiple elements are allowed and separated by a vertical line ().</p> <p>The page address used for monitoring has displayed elements other than the domain name you entered. Common manifestations include behaviors such as pop-up ads, floating ads, and redirects.</p> <p>For example: The page address you set is: <code>www.cloud.tencent.com abc/efg/1.jpg</code>.</p> <p>If elements other than the base documents under <code>www.cloud.tencent.com</code> or <code>abc/efg/1.jpg</code> appear, the page is considered tampered with.</p>	-
DNS hijacking allowlist	When the DNS resolution result IP is not in this allowlist, it is considered hijacked. The hijacked result can be selected and viewed in the result details of Multidimensional Analysis .	-
DNS hijacking blocklist	<div data-bbox="389 763 1337 864" style="border: 1px solid #add8e6; padding: 5px; margin-bottom: 10px;"> <p>Note: Mobile page performance does not support blocklist setting.</p> </div> <p>When the DNS resolution result IP is in this blocklist, it is considered hijacked. The hijacked result can be selected and viewed in the result details of Multidimensional Analysis.</p> <p>Mobile page performance does not support blocklist setting.</p>	-

Creating a Port Performance Task

Last updated: 2025-07-24 15:29:18

Support monitoring ports through HTTP(s)/SSL/TCP/UDP protocols and methods such as GET/POST, including monitoring API response performance and availability. This document introduces how to create a port performance task.

Directions

1. Log in to the [Cloud Automated Testing Console](#), then click **Task List** in the left navigation bar.
2. Click **Create Task** at the top of the task list page.
3. Configure the basic information according to the following instructions.

Configuration Item	Description
Dial test type	Select "customized ping test".
Task type	Select the "Port performance" task type.
Protocol Type	Support HTTP(s), SSL, TCP, UDP protocol types
Task Name	Customized ping test task name.
Probe address	Fill in the Web application address that requires probing (starting with <code>http://</code>) Example: 1. Domain name: <code>http://www.tencent.com</code> 2. Domain port: <code>http://www.tencent.com:80</code> Remark: For HTTP(s) protocol type, you need to select the request type. For example, GET, POST, etc.
Test frequency	Supports probing frequencies of 1 minute, 5 minutes, 10 minutes, 15 minutes, 30 minutes, 1 hour, 2 hours, and 4 hours. For example, selecting a 5-minute frequency means each probing point is tested every 5 minutes.
Custom execution	Execute by default daily at a specified frequency. You can also customize the execution plan as needed. For example, you can set the dial test task to run every Monday from 8:00 AM to 9:00 AM.
Task tag	CAT combines with Tencent Cloud resource tag functionality to provide you with the ability to grant sub-account permissions by tag and perform tag accounting. For more information, see Resource Tag to configure.

4. Configure the detection point according to the following instructions.

4.1 Selection method: Select a recommended testing node group or a customized testing node group (the recommended testing nodes are commonly used nodes).

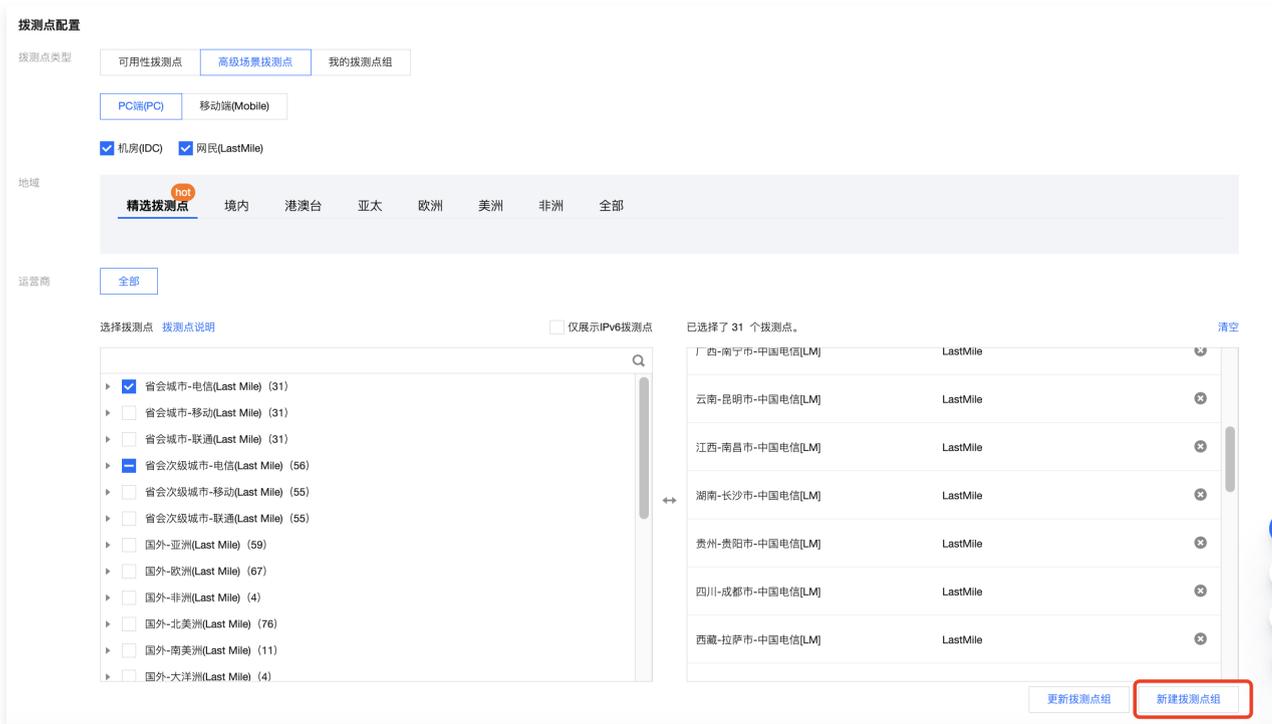
4.2 Select a testing node

- Availability testing node group: Supports only network quality and port performance task types, applicable to network quality monitoring, interface availability monitoring, hijacking, and blocking detection.
- Advanced scenario test node group: Suitable for page user experience monitoring, streaming lag monitoring, availability testing under poor network conditions, and CDN selection and path optimization. Covers IDCs, PC terminals, and mobile testing nodes inside and outside Chinese mainland.
 - Recommended testing node group: We recommend commonly used testing nodes.
 - Custom testing node group: **Select the test point region > Select the test point type >** Check the test points in the box on the right. The test point types are as follows:

Dial Test Point Type		Description
PC client	IDC	The probe point deployed on a PC represents PC user experience.
	Internet users (LastMile)	The probe point deployed on the terminal user's PC represents terminal PC user experience.

mobile terminal	The probe point deployed on the mobile terminal phone represents the mobile terminal customer.
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- **My Testing Node Groups:** You can select commonly used testing node groups in "Advanced Scenario Test Points" and click **Create Testing Node Group** in the bottom-right corner. Next time you create a task, directly select my testing node groups to quickly choose the commonly used testing nodes you created.



Selection recommendation

Since the network environment of IDC is different from that of LastMile, IDC is more stable than LastMile.

- If you need to monitor business availability, you can choose a relatively stable IDC.
- To view the access experience and network conditions of end users, it is advisable to select LastMile or mobile terminals for multiple selection, and simulate the access experience of end users to applications.

5. Configure ping test parameters (optional). The system defaults to configuring commonly used ping test parameters for you. Alternatively, you can customize ping test rules. Configuration instructions are as follows:

HTTP(s)

Configuration Item	Description	Default Value
Ignore private IP	When the DNS Resolution Result is a private IP address (for example, reserved addresses such as 127.0.0.1, 0.0.0.0), it will be judged as a probe failure. If this situation is not ignored, this item dial testing result will not be shown, and no alarm or probe cost will be generated.	-
Custom Host	Custom Host is used to specify the interpretation method of a domain name during probing, and is used to resolve a domain name to a static IP (or another domain name, similar to CNAME). Support polling or random monitoring by IP address. For multiple IPs, use a half-width comma separator. For example: <ul style="list-style-type: none"> ● IPv4: 192.168.2.1,192.168.2.5:img.a.com 192.168.2.1?[8080]:img.a.com ● IPv6: [0:0:0:0:0:0:1][8080],[0:0:0:0:0:0:2][8081]:www.a.com 	-
Requesting	Customize headers, Authentication, Query Parameters, and Cookies to add to the HTTP request. Authentication: HTTP Basic Access Authentication	-

configuration		
Verification method	Customize the method to verify API data requests, which can be statusCode, body, or header.	-

Other configuration items for SSL, TCP, and UDP

Configuration Item	Description	Default Value
Request Type	Encode the request content in UTF-8 format. Binary stream: The request content must be filled with hexadecimal content. A third-party tool can be used to convert the request content into hexadecimal before filling. If the request content contains special characters or invisible characters (such as line breaks), it is recommended to use the binary method to fill in the request content.	-
Request content	Customized initiation of port performance testing request content.	-
Verification method	Customize the method to verify API data requests. <ul style="list-style-type: none"> No validation: No validation of data integrity. Exact match: The response data must be exactly the same as the filled-in data. Partially include: The response data must contain part or all of the filled-in data, and the size of data received must be greater than the number of bytes of the filled-in data. MD5: Save the response data as a file, perform MD5 calculation, compare the obtained value with the expected value, and ensure they are completely consistent. 	No validation

Creating File Transfer Tasks

Last updated: 2025-07-24 15:29:34

File transfer (upload/download) scenarios involve obtaining application data resources through file uploads/downloads, reflecting the actual bandwidth volatility. This document introduces how to create transfer tasks.

Directions

1. Log in to the [cloud probing console](#), then click **Task List** in the left navigation bar.
2. Click **Create Task** at the top of the task list page.
3. Configure the basic information according to the following instructions.

Configuration Item	Description
Dial test type	Select "customized ping test".
Task type	Select the "File Transfer (Upload/Download)" task type.
Task Name	Customized Ping Test Task Name.
Probe address	Please enter the Web application address to be probed (starting with <code>http://</code> or <code>https://</code>). Example: 1. Domain name: <code>http://www.tencent.com</code> 2. Domain port: <code>http://www.tencent.com:80</code> Remark: When using TCP or UDP protocol for Ping monitoring, you need to fill in the port.
Test frequency	Supports probing frequencies of 5 minutes, 10 minutes, 15 minutes, 30 minutes, 1 hour, 2 hours, and 4 hours. For example, selecting a 5-minute frequency means each probing point is tested every 5 minutes.
Custom execution	Execute by default daily at a specified frequency. You can also customize the execution plan as needed. For example, you can set it to execute dial test tasks every Monday from 8:00 AM to 9:00 AM.
Task tag	CAT combines with Tencent Cloud resource tag feature to offer you sub-account permission granting by tag and cost allocation by tag. For more details, see Resource Tag to configure.

4. Configure the detection point according to the following instructions.

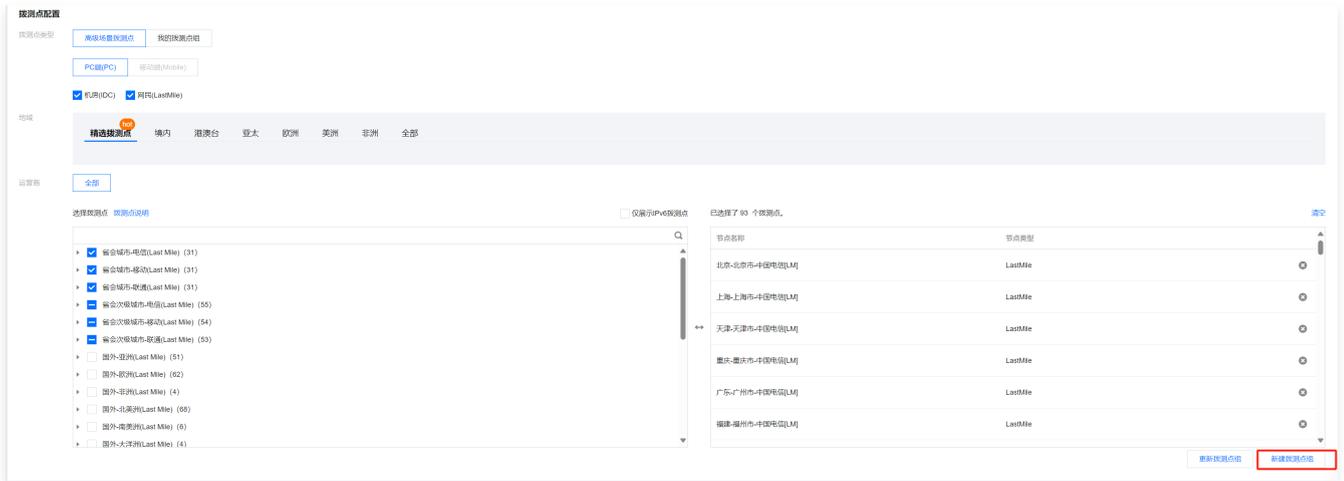
4.1 Selection method: Select a recommended testing node group or a custom testing node group (the recommended testing nodes are commonly used nodes).

4.2 Select a testing point:

- Advanced scenario test points: Page User Experience Monitoring, Streaming Lag Monitoring, Availability Testing under Poor Network Conditions, CDN Selection and Path Optimization. Covers IDCs, PC terminals, and mobile testing nodes inside and outside Chinese mainland.
 - Recommended test point group: Commonly used test points.
 - Custom test point group: **Select test point region** > **Select test point type** > Check the test points in the box on the right. Test point types are as follows:

Dial Test Point Type	Description
IDC	The probe point deployed on a PC represents the PC user experience.
Internet users (LastMile)	The probe point deployed on the end user's PC represents the end-user PC experience.

- My Testing Node Groups: You can select commonly used testing node groups in "Advanced Scenario Test Points" and click **Create Testing Node Group** in the bottom-right corner. Next time when creating a task, directly select my testing node groups to quickly choose the commonly created testing nodes.



Selection recommendation

Since the network environment of IDC is different from that of LastMile, IDC is more stable than LastMile.

- If you need to monitor business availability, you can choose a relatively stable IDC.
- To view the access experience and network conditions of end users, it is advisable to select LastMile or mobile terminal for multiple selection, and simulate the access experience of end users to the application.

5. Configure test parameters (optional). Configuration instructions:

File upload

Configuration Item	Description	Default Value
Upload method	Option POST or PUT two upload methods	POST
Download address of the file to be uploaded	Optional configuration, if not specified, the probe point will automatically generate the upload test file.	-
MD5 of the file	Verify the integrity of the file to be uploaded. This is only valid after configuring the download link for the file to be uploaded.	-
Transmission size	Download up to the specified size. If the file size is less than this value, the download will end after completing the file.	1024KB
File Name	Specify the file name of the file to be uploaded.	-
Ignored private IP	When the DNS Resolution Result is a private IP address (such as reserved addresses like 127.0.0.1 or 0.0.0.0), it will be judged as a probe failure. If this situation is not ignored, this item's dial testing result will not be shown, and no alarm or probe cost will be generated.	-
Custom Host	Support polling or random monitoring by IP address. Use a half-width comma separator for multiple IPs. For example: IPv4: 192.168.2.1,192.168.2.5:img.a.com 192.168.2.1?[8080]:img.a.com IPv6: [0:0:0:0:0:0:1][8080],[0:0:0:0:0:0:2][8081]:www.a.com	-

File download

Configuration Item	Description	Default Value
Ignore private IP	When the DNS Resolution Result is a private IP address (such as reserved addresses like 127.0.0.1 or 0.0.0.0), it will be judged as a probe failure. If this situation is not ignored, this item's dial testing result will not be shown, and no alarm or probe cost will be generated.	auto

Transfer size (KB)	Download up to the specified size. If the file size is less than this value, the download will end after completing the file.	1024KB
Custom Host	<p>Custom Host is used to specify the interpretation method for domain names during probing, and is used to resolve domain names to a static IP (or another domain name, similar to a CNAME).</p> <p>Support polling or random monitoring by IP address. Use a half-width comma separator for multiple IPs. For example:</p> <p>IPv4: 192.168.2.1,192.168.2.5:img.a.com 192.168.2.1[8080]:img.a.com </p> <p>IPv6: [0:0:0:0:0:0:1][8080],[0:0:0:0:0:0:2][8081]:www.a.com </p>	-
DNS hijacking allowlist	If the DNS resolution result IP is not in this allowlist, it is considered hijacked. The hijacking result can be selected and viewed in the multidimensional analysis result details.	-
DNS hijacking blocklist	If the DNS resolution result IP is in this blocklist, it is considered hijacked. The hijacking result can be selected and viewed in the multidimensional analysis result details.	-

Creating an Audio and Video Experience Task

Last updated: 2025-07-24 15:29:47

The audio and video experience scenario monitors the playback of streaming media websites and App video files, retrieves data such as buffering rate, lag duration, and time to first frame during playback, helps enhance video playback experience and user experience effect. This document introduces how to create an audio and video experience task.

Directions

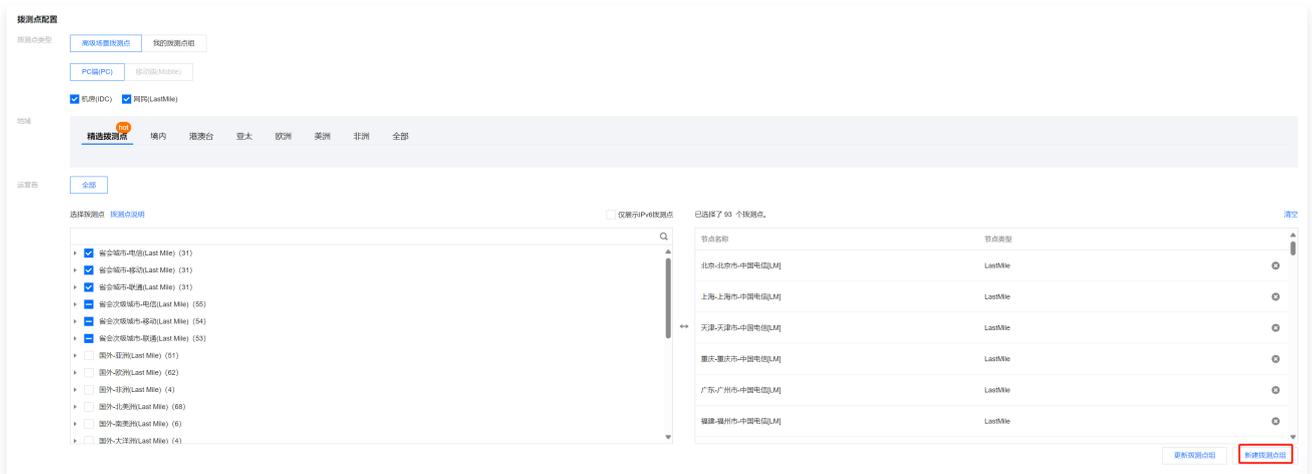
1. Log in to the [cloud probing console](#), then click **Task List** in the left navigation bar.
2. Click **Create Task** at the top of the task list page.
3. Configure the basic information according to the following instructions.

Configuration Item	Description
Dial test type	Select "customized ping test".
Task type	Select the "audio/video experience" task type.
Task Name	Customized ping test task name.
Probe address	Please enter the Web application address to be probed (starting with <code>http://</code> or <code>https://</code> , MP4 type RTMP streams must be marked as MP4) Example: 1. <code>http://www.tencent.com</code> 2. RTMP stream: <code>rtmp://host/server/mp4:res</code>
Test frequency	Supports probing frequencies of 5 minutes, 10 minutes, 15 minutes, 30 minutes, 1 hour, 2 hours, and 4 hours. For example, selecting a 5-minute frequency means each probe point is tested every 5 minutes.
Custom execution	Execute by default daily at a specified frequency. You can also customize the execution plan as needed. For example, you can set the dial test task to run from 8:00 AM to 9:00 AM on specific days of the week.
Task tag	CAT combines with Tencent Cloud resource tag function to offer you the permission granting to sub-accounts by tags and cost allocation by tags. For more details, see Resource Tag to configure.

4. Configure the testing node according to the following instructions.
 - i. Selection method: Select a recommended testing node group or a custom testing node group (the recommended testing nodes are commonly used nodes).
 - ii. Select the testing node.
 - Advanced scenario testing nodes: Page User Experience Monitoring, Streaming Lag Monitoring, Availability Testing Under Poor Network Conditions, CDN Selection and Path Optimization. Covers IDCs, PC terminals, and mobile testing nodes inside and outside Chinese mainland.
 - Recommended testing node group: We recommend commonly used testing nodes.
 - Custom testing node group: **Select region** > **Select node type** > Check the testing nodes in the box on the right. Node type descriptions are as follows:

Dial Test Point Type	Description
IDC	The probe point deployed on a PC represents the PC user experience.
Internet users (LastMile)	The probe point deployed on the end user's PC represents the end user's PC experience.

- My testing node groups: You can select commonly used testing node groups from "Advanced Scenario Test Points" and click **Create Testing Node Group** in the bottom-right corner. Next time you create a task, directly select my testing node groups to quickly choose the commonly created testing points.



Selection recommendation

Since the network environment of IDC is different from that of LastMile, IDC is more stable than LastMile.

- If you want to monitor business availability, you can choose a relatively stable IDC.
- To view the access experience and network conditions of end users, it is advisable to select LastMile or mobile terminal for multiple selection, and simulate the access experience of end users to the application.

5. Configure test parameters (optional). The system defaults to configuring commonly used test parameters for you, or you can customize test rules. Configuration instructions are as follows:

Configuration Item	Description	Default Value
media type	Supports two types: video and audio	Video
Test duration (seconds)	Customize the duration of each test, between 0 and 300 seconds.	30 second
Ignore private IP results	When the DNS Resolution Result is a private IP address (for example, reserved addresses such as 127.0.0.1 or 0.0.0.0), it will be judged as a probe failure. If this situation is not ignored, this item test result will not be shown, and no alarm or probe cost will be generated.	-
Custom Host	Custom Host is used to specify the interpretation method of a domain name during probing, and is used to resolve the domain name to a static IP (or another domain name, similar to CNAME). Support polling or random monitoring by IP address. Use a half-width comma separator for multiple IPs, for example: IPv4: 192.168.2.1,192.168.2.5:img.a.com 192.168.2.1[8080]:img.a.com IPv6: [0:0:0:0:0:0:1][8080],[0:0:0:0:0:0:2][8081]:www.a.com	-
Resource hijacking allowlist	When the DNS resolution result IP is not in this allowlist, it is considered hijacked. The hijacking result can be selected and viewed in the Multidimensional Analysis result details.	-
Resource hijacking blocklist	When the DNS resolution result IP is in this blocklist, it is considered hijacked. The hijacking result can be selected and viewed in the Multidimensional Analysis result details.	-

Hijacking Monitoring Parameter Description

Last updated: 2025-07-24 15:30:15

This document describes how to configure DNS hijacking detection parameters for network quality, page performance, file download, and audio/video experience tasks in CAT. You can refer to the instructions in this document for configuration.

Hijacking Categorization

Hijacking situations can be categorized into two types:

- **DNS Hijacking:** For example: `www.cloud.tencent.com` is resolved to another server, which will cause user access failure or return a non-Tencent Cloud destination IP.
- **Page Tampering:** Utilizes intermediate page JS, Html, Http headers to perform redirection, open windows, embed Frameset operations, etc., ultimately rendering a hijacked page on the user end. Common manifestations include pop-up ads, floating ads, redirection behaviors.

The format of DNS hijacking is as follows:

- `www.cloud.tencent.com:202.0.3.55|203.3.44.67`
- Input rule
 - The part before the colon is the domain name to be judged.
 - The part after the colon is the match rule.
 - Match rules support multiple, separated by vertical bars.
 - Match rules support exact IP/ip wildcards/subnet masks/cname.

Sample:

DNS hijacking allowlist

Input Content	Meaning
<code>www.cloud.tencent.com:202.0.3.55 203.3.44.67</code>	The domains under <code>www.cloud.tencent.com</code> are not considered hijacked except for 202.0.3.55 and 203.3.44.67.
<code>www.cloud.tencent.com:202.0.3.*</code>	The IP addresses under the <code>www.cloud.tencent.com</code> domain name starting with 202.0.3. can be considered not hijacked.
<code>www.cloud.tencent.com:202.0.3.1/27</code>	The IP addresses under the <code>www.cloud.tencent.com</code> domain name whose first 27 bits match those of 202.0.3.1 are not considered hijacked.
<code>www.cloud.tencent.com:*</code>	All IP addresses under the <code>www.cloud.tencent.com</code> domain are considered hijacked.

DNS hijacking blocklist

Input Content	Meaning
<code>www.cloud.tencent.com:202.0.3.55 203.3.44.67</code>	The domains under <code>www.cloud.tencent.com</code> are considered hijacked except for 202.0.3.55 and 203.3.44.67.
<code>www.cloud.tencent.com:202.0.3.*</code>	The IP addresses under the <code>www.cloud.tencent.com</code> domain starting with 202.0.3. are considered hijacked.
<code>www.cloud.tencent.com:202.0.3.1/27</code>	IP addresses where the first 27 bits match those of 202.0.3.1 under the <code>www.cloud.tencent.com</code> domain are considered hijacked.
<code>www.cloud.tencent.com:*</code>	All IP addresses under the <code>www.cloud.tencent.com</code> domain are considered hijacked.

Creating a Quick Probe Task

Last updated: 2025-07-24 15:30:38

Overview

To help you quickly get started with CAT and select appropriate nodes for your tasks, CAT introduces the rapid testing feature, offering you a selection of three testing node groups: basic edition, advanced edition, and flagship edition. Just choose the appropriate testing node group, configure the objects to be tested, and you can start testing. For the types and distribution of testing points included in the three versions of testing node groups, see [Rapid Dial Test Point List](#).

Usage

For rapid dial testing, you need to purchase the corresponding monthly subscription package to use the task. **Each package can only be used to create one task.** For plan prices, please refer to [Monthly Subscription of Rapid Dial Testing Package](#).

Related Notes

- Quick dial test will perform tests on your business at a frequency of ten minutes. Currently does not support changing the frequency.
- Quick dial test does not occupy free quota or other CAT resource package quotas.
- The dial test points of quick tasks include the dial test point group resources selected by Tencent Cloud Industry Experts, which can meet the needs of most customers for domestic business main control monitoring. If the dial test points of quick tasks cannot meet your needs, you can choose to create a custom task and select specific points for dial testing. For creation methods, please refer to [Create a Task](#).
- Currently, rapid dial testing does not support postpaid format. Each rapid dial testing task needs to bind a package when creating.
- You can refer to [Task Editing](#) to quickly bind a new package to a task.

Directions

1. Log in to the [cloud probing console](#).
2. Click **Task List** in the left menu bar > **Create Task**.
3. In the new task list, select **Quick Test** from the dial test types.
 - Select dial test point type: Supports three types of dial test point groups – Basic Selection, Advanced Edition, and Flagship Edition. Different price types have different prices. Please refer to [Monthly Subscription of Rapid Dial Testing Package](#).
 - Bind a package: Each rapid dial testing task needs to bind a package when creating. To purchase, click **New Subscription Package**.
4. Configure test parameters. For different task types, see [Create Task](#).

5. After completion, click **Create a Task** to proceed.

基本信息

拨测类型 • 自定义拨测 (适用于自定义拨测) 快速拨测 (适用于套餐包)

任务类型 • 网络质量 页面性能 端口性能 文件上传 文件下载

通过Ping|CMP|TCP|UDP|DNS、DNS监测、Tracer|监测多种方式，针对应用网络稳定性、路由稳定性、DNS 解析正确率，包括 ICMP 时延和丢包率等进行监控。

任务信息

任务名称 • 拨测地址 •

请按填写示例规则填写 [填写示例](#)

+ 添加 您还可以添加19个任务

任务标签 + 添加

拨测点配置

拨测点类型 基础版拨测点组 高级版拨测点组 旗舰版拨测点组

说明：精选境内关键城市节点以及北京、上海、广州、深圳真实用户节点，覆盖境内七大主要区域。 [套餐包说明](#)

绑定套餐包 新购套餐包

套餐包ID	状态	套餐激活时间	套餐过期时间	绑定任务ID
共 0 条				

10 条 / 页 1 / 1 页

▸ 拨测参数配置 (可选)

创建任务 取消

Editing and Viewing Tasks

You can edit, view analysis, generate reports, or access more options in the **Task List**.

任务列表

提示：您已开通云测专家版。

网络质量

针对应用网络稳定性、路由稳定性、DNS解析正确率，包括ICMP时延和丢包率等进行监控。

页面性能

获取用户在不同的运营商、城市地域、浏览器版本、操作系统、设备条件下，访问web页面的体验数据，全面了解页面的性能。

文件传输(上传/下载)

通过文件上传/下载，获取应用的数据传输的传输速率，反映真实的带宽和网络。

端口性能

对GET、POST等以浏览器进行访问，监测接口响应性能、可用性，确保用户体验和业务可用性。

音视频体验

对高清晰度网站以及App安装包文件的播放进行监测，获取播放过程中卡顿率、卡顿时间、卡顿帧率等的数据，帮助您提升视频播放体验，提升用户体验效果。

域名whois

用于查询域名是否已被注册，以及注册域名的详细资料(如域名所有人、域名注册商、域名注册日期过期日期等)。

任务ID名称	状态	拨测地址	任务类型	节点类型	拨测节点数	拨测频率(分钟)	创建时间	执行周期	操作
task-oes1	运行中	网络质量	PC端拨测		2	5	2023/11/27 17:35:43	长期执行	编辑 查看分析 报告 更多

You can also edit, view analysis, or access more options in the **Package List**.

套餐包列表

套餐包ID/类型	任务ID/名称	状态	套餐激活时间	任务创建时间	套餐过期时间	操作
task-oes1	task-oes1	已过期	2022-08-25 14:34:25	2022-08-25 14:37:31	2022-08-25 15:03:03	编辑 查看分析 升配 续期 更多
task-oes2	task-oes2	已过期	2022-08-25 14:18:30	2022-08-25 14:37:54	2022-08-25 15:02:54	编辑 查看分析 升配 续期 更多

共 2 条 10 条 / 页 1 / 1 页

On the editing page, you can also bind new packages.

拨测点配置

拨测点类型 基础版拨测点组 高级版拨测点组 旗舰版拨测点组

① 说明：精选境内关键城市节点以及北京、上海、广州、深圳真实用户节点，覆盖境内七大主要区域。 [套餐包说明](#)

绑定套餐包 新购套餐包

套餐包ID	状态	套餐激活时间	套餐过期时间	绑定任务ID
<input type="radio"/>	未绑定	2022-08-25 18:59:20	2022-09-25 19:00:00	
<input checked="" type="radio"/>	已绑定	2022-08-25 18:50:39	2022-09-25 19:00:00	task-4arqkfbw

共 2 条 10 条 / 页 1 / 1 页

Pause Task

Last updated: 2025-07-24 15:30:52

After pausing the probing task, the multidimensional analysis page will not be able to retrieve probe data normally, and probing billing will also stop. You can see below to pause the probing task.

Directions

1. Log in to the [cloud probing console](#).
2. Click **Task List** in the left menu bar.

Suspending a Single Dial Test Task

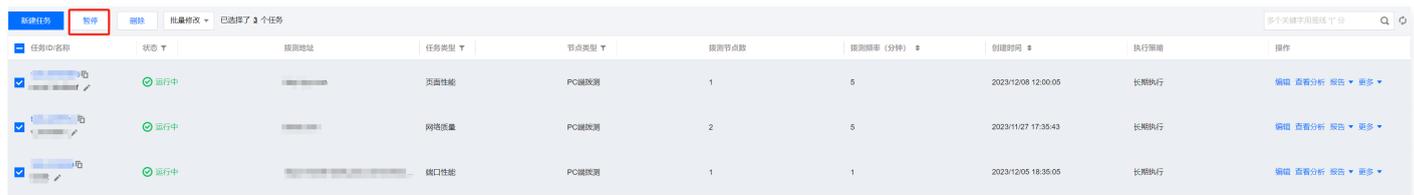
Click **More > Suspend** in the operation list of the probing task list to stop the corresponding probing task.



任务名称	状态	探测地址	任务类型	节点类型	探测节点数	探测频率 (分钟)	创建时间	执行策略	操作
	运行中		网络质量	PC端探测	2	5	2023/11/27 17:35:43	长期执行	编辑 查看分析 报告 更多
	运行中		端口性能	PC端探测	1	1	2023/12/05 18:35:05	长期执行	编辑 查看分析 暂停
	任务暂停		页面性能	PC端探测	1	5	2023/12/08 12:00:05	长期执行	编辑 查看分析 删除

Pausing a Batch of Dial Test Tasks

Check multiple tasks, then click **Suspend** at the top to stop the selected probing tasks.



任务名称	状态	探测地址	任务类型	节点类型	探测节点数	探测频率 (分钟)	创建时间	执行策略	操作
<input checked="" type="checkbox"/>	运行中		页面性能	PC端探测	1	5	2023/12/08 12:00:05	长期执行	编辑 查看分析 报告 更多
<input checked="" type="checkbox"/>	运行中		网络质量	PC端探测	2	5	2023/11/27 17:35:43	长期执行	编辑 查看分析 报告 更多
<input checked="" type="checkbox"/>	运行中		端口性能	PC端探测	1	1	2023/12/05 18:35:05	长期执行	编辑 查看分析 报告 更多

Resume Task

Last updated: 2025-07-24 15:31:06

After restoring the dial test task, the probing billing will also be restored. You can refer to the following text to restore the dial test task.

Directions

1. Log in to the [cloud probing console](#).
2. Click **Task List** in the left menu bar.
3. Click **More > Restore** in the operation list of the dialing task list to resume the corresponding dial test task.



任务ID名称	状态	探测地址	任务类型	节点类型	探测节点数	探测频率 (分钟)	创建时间	执行策略	操作
	运行中		网络质量	PC端探测	2	5	2023/11/27 17:35:43	长期执行	编辑 查看分析 报告 更多
	运行中		端口性能	PC端探测	1	1	2023/12/05 18:35:05	长期执行	编辑 查看分析 报告 更多
	任务暂停		页面性能	PC端探测	1	5	2023/12/08 12:00:05	长期执行	编辑 查看分析 报告 更多
	任务暂停		网络质量	PC端探测	2	1	2023/12/06 11:34:15	长期执行	编辑 查看分析 更多 恢复
	任务暂停		页面性能	PC端探测	1	1	2023/12/05 18:28:04	长期执行	编辑 查看分析 更多 复制 删除

Multidimensional Analysis

Network Quality Task Analysis

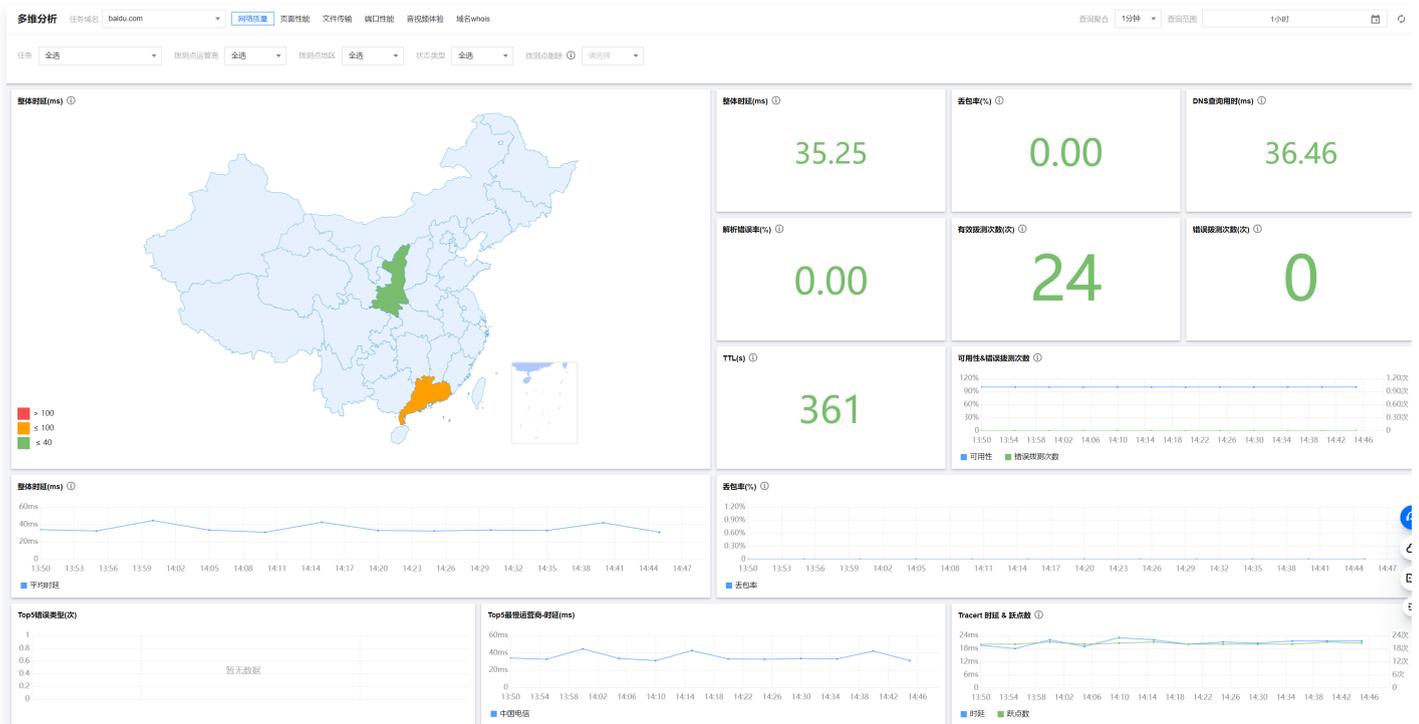
Last updated: 2025-07-24 15:31:39

Supports monitoring in network quality scenarios through multiple methods such as Ping (ICMP/TCP/UDP), DNS, and Tracert. Targets application network stability, route stability, DNS resolution accuracy rate, including ICMP latency and packet loss rate.

Directions

Log in to the [cloud probing console](#).

1. Click **Multi-dimensional Analysis** in the left menu bar > Select **Network Quality Dial Test Task**.
2. On the multidimensional analysis page, you can analyze dial test data in multiple dimensions using maps, line charts, digital graphs, and detailed data.



Description

Metric	Description
Overall latency (ms)	The time required for a message or packet to travel from one end of a network to the other. Transmission delay is determined by Internet routing conditions. If transmitted over a low-speed channel or when the channel is too crowded, it may result in long-term delay or packet loss.
Packet loss rate (%)	The ratio of lost packets to the total number of transmitted packets. Packet loss is generally caused by several factors: physical line failure, device failure, network congestion, routing errors, etc.
DNS query time (ms)	Time required for input domain name to convert to IP address.
Resolution Error Rate (%)	Ratio of domain name resolution errors, calculated as (number of resolution errors / total number of domain name resolutions) × 100%.
Number of valid dial tests (times)	Number of valid data samples.
Number of error test attempts (times)	Number of error data samples.

TTL(s)	TTL (Time-To-Live) is the retention time of a domain name resolution record in a DNS server. When DNS servers around the world receive parse requests, they send parse requests to the NS server designated by the domain name to obtain resolution records. After obtaining this record, it will be saved in the DNS server for a period of time. During this period, if another parse request for the same domain name is received, the DNS server will no longer send a request to the NS server but directly return the previously obtained record. The time this record is retained on the DNS server is the TTL value.
Availability (%)	Availability is the success rate of clients executing dial test tasks accessing the target. Availability = Number of valid dial tests / Total number of test tasks × 100%.
Traceroute latency (ms)	Average latency of all hops during the entire Tracert process.
Tracer number of hops	The count of network device points transited.
top 5 error types	Show the top 5 error types with the highest number of errors.
top 5 slowest ISPs	Show the top 5 slowest ISPs with the highest average delay.

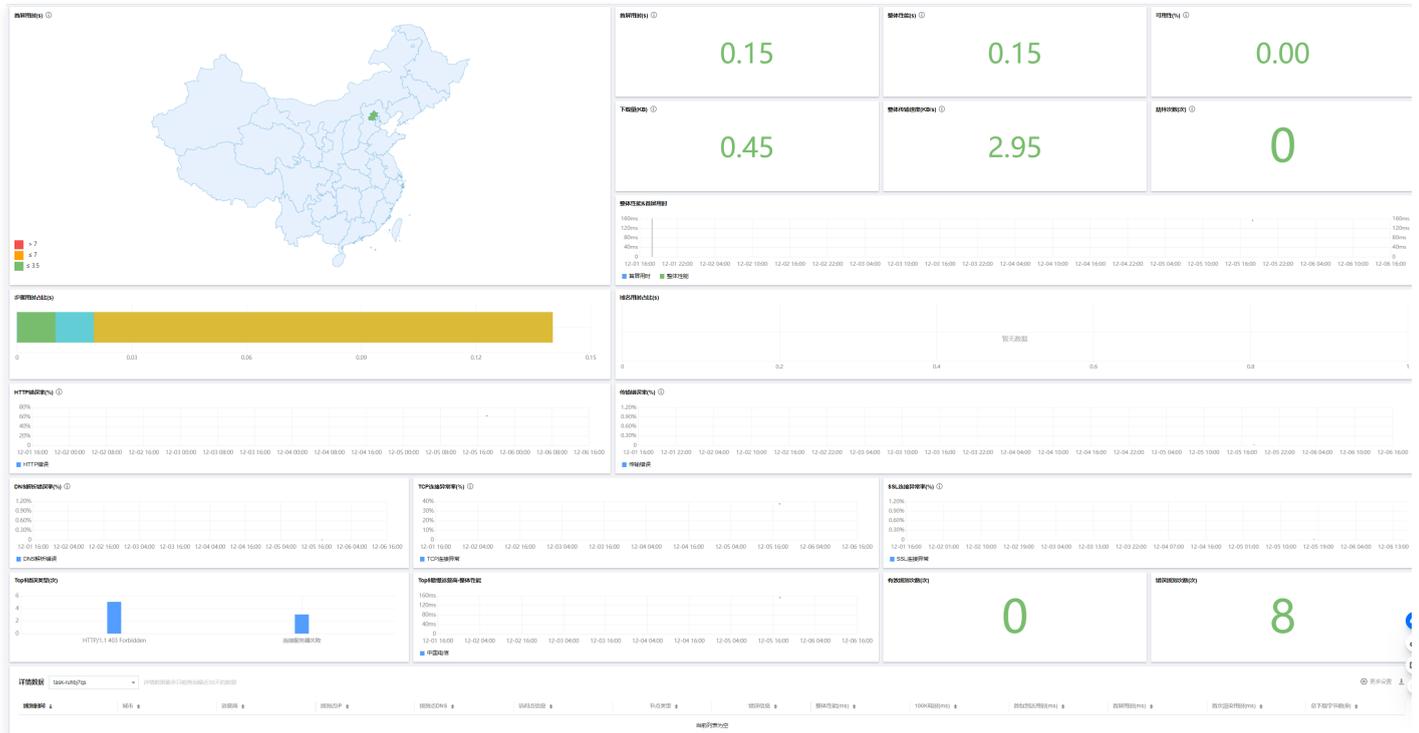
Page Performance Task Analysis

Last updated: 2025-07-24 15:31:53

After successfully creating a "page performance" dial test task, you can analyze the overall performance status of a webpage through multiple dimensions analysis.

Directions

1. Log in to the [cloud probing console](#).
2. Click **multi-dimensional analysis** in the left menu bar > Select **page performance dial test task**.
3. On the multi-dimensional analysis page, you can analyze dial test data in multiple dimensions through maps, line charts, digital graphs, and detailed data.



Description

Relevant metrics are described as shown in the table below:

Metric	Description
Time to first screen (s)	The time difference from entering the URL to when the rendered area height of the page is equal to or greater than the specified height, with the platform default being 600 pixels. When the page height is less than 600 pixels, take the time difference from starting to browse to when the IE Kernel throws the Document Completed event.
Overall system performance (s)	Time interval from page browsing start to completion of the last data packet reception.
Availability (%)	Success rate of clients executing monitoring tasks in accessing the target: Availability = Number of valid monitoring attempts / Total number of monitoring times × 100%.
Download volume (KB)	Total download volume of the IE Kernel during the entire browsing process.
Overall transmission speed (KB/s)	Average page load speed: Overall speed = Total downloaded bytes / Overall performance.

Number of hijackings (times)	Total number of hijacking incidents.
HTTP error rate (%)	An HTTP error refers to an error status code that occurs during HTTP communication between a client and a server due to problems with requests or responses.
Transmission error rate (%)	A transmission error refers to an error or loss of data packets during transmission due to various reasons in the process of network communication.
DNS resolution error rate (%)	A DNS resolution error generally occurs when a domain name is resolved to an incorrect IP address, or when the IP address corresponding to a domain name is unknown, preventing access to the corresponding site via the domain name.
TCP connection exception rate (%)	TCP connection exception refers to some errors or abnormal situations occurring during the communication process of the TCP protocol, causing both parties in the communication to be unable to establish a normal connection or the connection to be interrupted.
SSL connection exception rate (%)	SSL connection exception refers to some errors or abnormal situations occurring during the communication process of the SSL/TLS protocol, causing both parties in the communication to be unable to establish a secure connection normally or the connection to be interrupted.
Top 5 error types (times)	Show the top five error types with the largest quantity.
Top 5 slowest operators	Show the top five ISPs with the slowest overall performance.
Number of valid dial tests (times)	Number of valid data samples.
Number of incorrect dial tests (times)	Number of error data samples.

Port Performance Task Analysis

Last updated: 2025-07-24 15:32:10

After successfully creating a "Port performance" dial test task, you can analyze the overall port performance status through the multi-dimensional analysis page.

Directions

1. Log in to the [cloud probing console](#).
2. Click **Multi-dimensional Analysis** in the left menu bar > Select **Port Performance** dial test task.
3. On the Multi-dimensional Analysis Page, you can analyze dial test data in multiple dimensions through maps, line charts, digital graphs, and detailed data.



Description

Metric	Description
Overall performance (s)	Time interval from DNS resolution start to data reception completion.
TCP time consumption (s)	Time consumption for the client to establish a TCP connection with the target server.
Success rate (%)	Success rate of the client executing the monitoring task accessing the target. Success rate = number of valid monitoring attempts / total number of monitoring times × 100%, similar to availability in browser monitoring.
Accuracy (%)	Percentage of verified data among all returned correct data. Verified: refers to validation that meets the requirements of the "verification method" specified in the protocol configuration items.
Number of error test attempts (times)	Number of errors in protocol testing
Number of valid dial tests (units)	Number of valid data samples.
Request duration (s)	Time taken to send protocol request content.
Response time (s)	Time consumption from the client completing data transmission to receiving the first packet of server response.

Top 5 error types (times)	Show the top five error types with the highest number of occurrences.
Top 5 slowest ISPs – overall performance	Show the top five slowest ISPs.

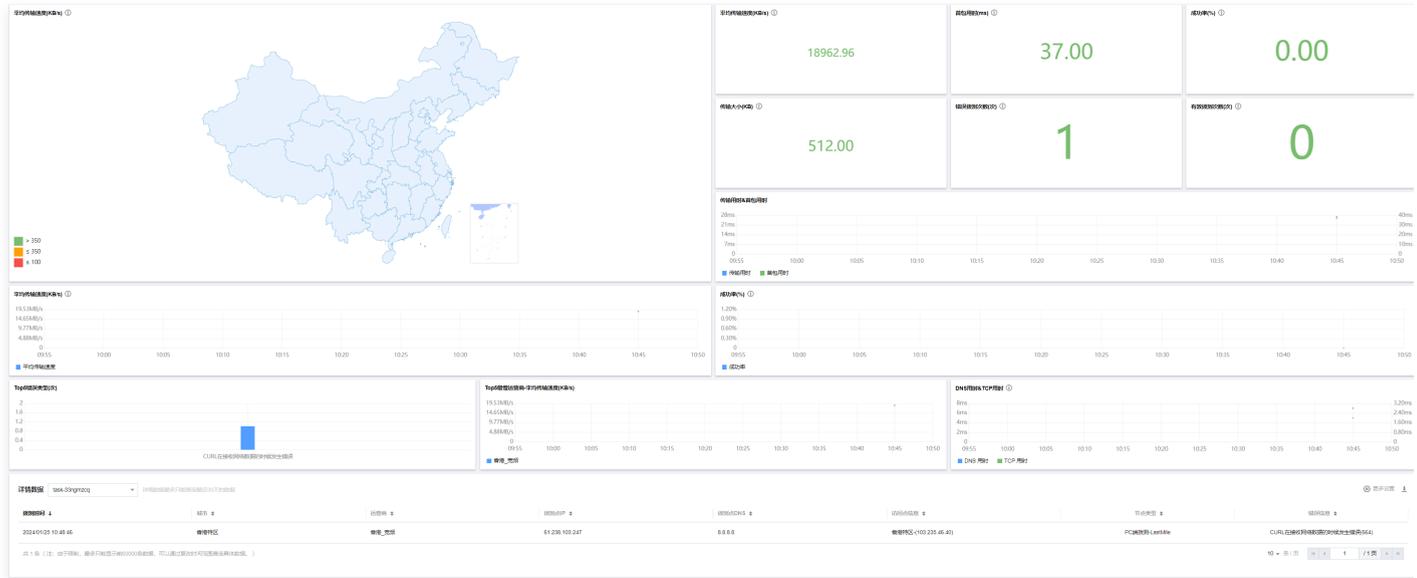
File Transfer Task Analysis

Last updated: 2025-07-24 15:32:30

After successfully creating a "file transfer (upload/download)" dial test task, you can analyze the overall performance status of file transfer through the multiple dimensions analysis page.

Directions

1. Log in to the [cloud probing console](#).
2. Click **multi-dimensional analysis** in the left menu bar > Select **file transfer** task type.
3. On the multi-dimensional analysis page, you can analyze probe data in multiple dimensions using maps, line charts, digital graphs, and detailed data.



Description

Metric	Description
Average transmission speed (KB/s)	Average speed during downloading or uploading the target file: Average transfer speed = actual download, number of bytes / transfer duration.
Time to first packet (s)	Time from when the client initiates a download request to receiving the first packet of server response. Time to upload: time consumed from when the client initiates an upload request until sending outbound packets.
Success rate (%)	Ratio of successful transmissions to total transmissions.
Transfer size (KB)	Total uploaded or downloaded bytes, depending on the task type.
Number of incorrect dial tests (times)	Number of error data samples.
Number of valid test attempts (times)	Number of valid data samples.
Transfer duration	Time for downloading the target file. Time for uploading: time consumed from when the client sends the target file to when the server side receives it completely.
DNS time	Time for DNS parsing; Time required to convert the input domain name into an IP address.

Time for TCP	Time for establishing a TCP connection during the process of downloading (uploading) the target file.
Top 5 error types (times)	Show the top five error types with the most occurrences.
Top 5 slowest ISPs – Average transmission speed (KB/s)	Show the five operators with the slowest average transmission speed.

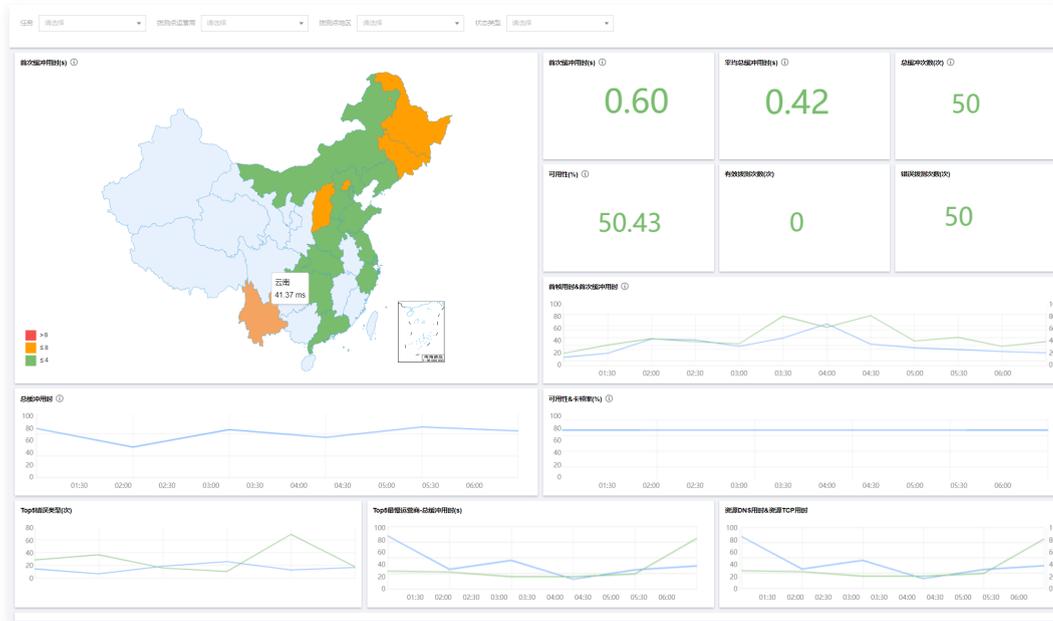
Analyzing Audio and Video Experience Tasks

Last updated: 2025-07-24 15:32:45

After successfully creating the "audio/video experience" dial test task, you can analyze the overall performance status of audio/video through the multi-dimensional analysis page.

Directions

1. Log in to the [cloud probing console](#).
2. click in the left menu bar **Multi-dimensional Analysis > Audio/Video Experience**.
3. On the multi-dimensional analysis page, you can analyze probe data in multiple dimensions through maps, line charts, digital graphs, and detailed data.



Description

Relevant metrics are described as shown in the table below:

Metric	Description
First buffer duration (s)	First buffer duration = Time to first frame – Video first packet time Lag time: Refers to the cumulative duration of buffering (lag) states that occur after the video starts playing. (Initial buffering is not included).
Total buffer duration (s)	Total buffer duration = First buffer duration + Lag time 1 + Lag time N.
Total buffering times	Total buffering times = First buffer + Number of Lags.
Video first packet time (s)	Time interval from obtaining the actual video address to getting the first packet of video resources.
Average download speed (KB/s)	Download speed of video resources during video playback by the player Average download speed = total downloaded bytes / throughput duration.
Availability (%)	Percentage of successful streaming media task executions out of the total number of monitoring times.
Time to first frame (s)	Time to first frame: The time interval from obtaining the actual video address to starting playback of the first frame.

Total buffer duration (s)	Total buffer duration = First buffer duration + Lag time 1 + Lag time N.
Lag time (s)	Cumulative duration of buffering (excluding initial buffering) that occurs after the video starts playing. Lag time = Total buffer duration – First buffer duration.
Lag time percentage (%)	Ratio of lag time to total playback duration, i.e., Lag time / Total playback duration (not exceeding 60s).
Stutter rate (%)	Stutter rate = Total number of stuttering samples / Number of valid monitoring attempts. Total number of stuttering samples: The sum of sample numbers that exhibit buffered status again during the process of playing video.
Number of errors	Number of access failures during the monitoring process.
top 5 error types	Show the top 5 error types with the highest error counts.
top 5 slowest ISPs	Show the top 5 slowest ISPs with the longest total buffer duration.
Resource DNS Time	Player's DNS resolution time when downloading video resources from the resource server domain name.
Resource TCP connection time	Player's TCP connection establishment time when downloading video resources.

View Detailed Log Data

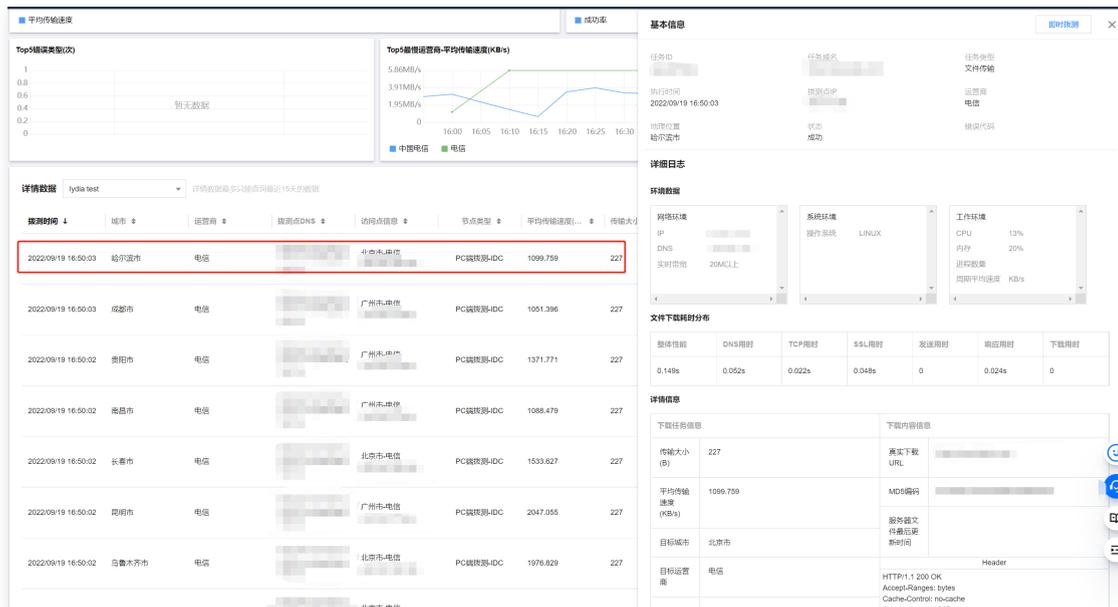
Last updated: 2025-07-24 15:33:02

This document introduces how to view detailed dial test log data.

Note:
Domain name whois type does not support log viewing.

Directions

1. Log in to the [cloud probing console](#).
2. Click **multi-dimensional analysis** in the left menu bar and select any dial test task.
3. Scroll to the detailed data list, click any column, and you can view the log data of the dial test task.



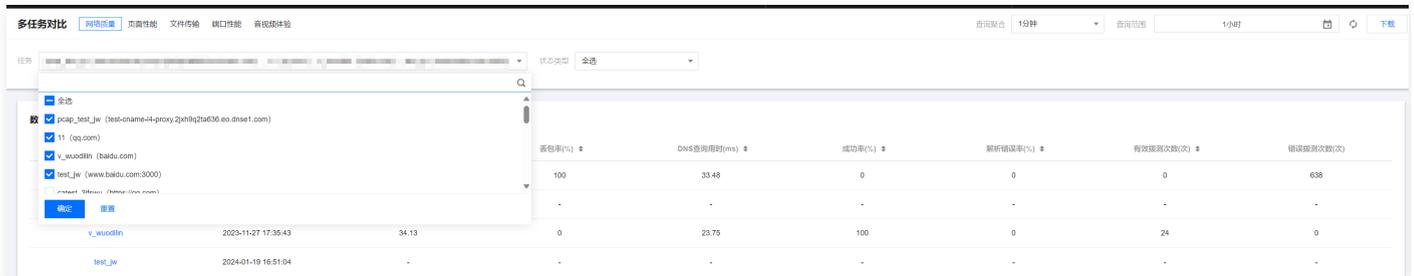
Multi-Task Comparison

Last updated: 2025-07-24 15:33:21

After successfully creating multiple dial test tasks in the same scenario, you can use the multi-task comparison feature to analyze the performance metrics of different tasks under the same scenario. This feature is applicable to CDN quality comparison and horizontal comparison of website performance.

Directions

1. Log in to [Cloud Automated Testing Console – Multi-task Comparison](#).
2. In the top-left corner of the multi-task comparison page, select **Task** > check the needed **task type**.



3. After completing the selection, you can horizontally compare different probing task data through maps, line charts, digital graphs, detailed data, etc., on the multi-task comparison page.



Note:

<Note: For related metric descriptions, please see [Multi-dimensional Analysis – Metric Description](#).</Note>

Alarm Configuration

Create a New Alert

Last updated: 2025-07-24 15:34:05

This document introduces how to set alarms for key metrics of various dial test types and promptly inform you when metrics are abnormal.

Directions

1. Log in to the [TCOP console](#).
2. Select **Alarm Management > Alarm Configuration > CAT**, click **Create Policy** on the **Alarm Policy** page to enter the alarm policy configuration page, as shown in the figure below.

3. Follow the on-page instructions to fill in relevant information. Configuration instructions are as follows.

Configuration Type	Configuration Item	Description
Basic Information	Policy Name	Custom policy name.
	Notes	Custom policy remarks.

Alarm rule configuration	Monitor type	CAT Monitoring Type.
	Policy type	Support network quality , page performance , domain name whois , port performance , file transfer (upload/download) , audio/video experience . It is recommended that you select the corresponding task type based on the configured CAT task.
	Filter condition (AND)	<p>Filter out objects that meet the conditions for alarm detection. The filter conditions across multiple dimensions have an AND relationship, while multiple options within the same dimension have an OR relationship. After selection, the ISP, region, city of the test point, OR the returned error code, task id, task name, AND other information will be used as filtering conditions.</p> <ul style="list-style-type: none"> Domain name (required): Support setting alarms by domain. Region: Support filtering dial test data in a specific region under a domain name for alarm detection. City: You can filter the dial test data of a specific city under a domain name for alarm detection. Support filtering dial test data of operators under a specific domain name for alarm detection. <p>Assuming you have filtered the domain name <code>https://cloud.tencent.com</code> and the "Guangdong" region, it means that the conditions of domain name <code>=https://cloud.tencent.com</code> and <code>region=Guangdong</code> are met for alarm detection.</p> <ul style="list-style-type: none"> Error code: Support filtering dial test data with a specific error code under a domain name for alarm detection. Task ID: Support filtering dial test data with a specific task ID under a domain name for alarm detection. Task name: Support filtering dial test data of a specific task name under a domain name for alarm detection.
	Alarm Object Dimension	<p>The principle is similar to the group by statement in SQL. Supports customizing the alarm objects in the alert notification content.</p> <p>If you select a domain name and an ISP, the domain name and ISP will be used as filtering conditions for alarm detection; if not selected, the domain name will be used for alarm detection by default.</p>
	Trigger Condition	<p>You can choose any or all. Any means if one of the conditions is met, it can be considered an exception and trigger an alarm. All means all conditions must be met to be considered an exception and trigger an alarm.</p>
Alarm notification configuration	Notification Template	The system provides default notification templates. To create a notification template, see Creating Notification Template .
Advanced Configuration	Elastic Scaling	If it is enabled and configured successfully, the auto scaling policy can be triggered when the alarm condition is met, and scale-in and scale-out will be performed.

4. After configuring the above information, click **Done** to successfully create the alarm policy. When a metric exception occurs, alarm notifications will be sent through the configured alarm channels.

Note:

To understand the meaning of each metric, please see [Alarming Metric Descriptions](#).

Scenario Recommendation

The following examples all use a default dial test task configuration with a frequency of 1 minute. The values corresponding to the metrics are for reference only and can be adjusted as appropriate based on the actual task frequency.

Network Quality Task Type

Network quality is primarily used to test the network connectivity and availability of domain services. The key indicators that require attention include **availability**, **latency**, **DNS query time**, **packet loss rate**, etc. Latency and DNS query time can be customized configured based on the self-service situation.

Example diagram of network quality alarm configuration:

触发条件

指标告警

满足以下 任意 指标判断条件时，触发告警

if 可用性 统计粒度1分钟 <= 99 % 持续 3 个数据点 then 每10分钟告警一次

if 丢包率 统计粒度1分钟 >= 10 % 持续 3 个数据点 then 每10分钟告警一次

[添加指标](#)

Page Performance Task Type

Page performance is mainly used to obtain user experience data when accessing Web pages under different environments such as ISPs, urban regions, browser versions, operating systems, and devices. It allows users to comprehensively understand page loading speed and other performance metrics. Key indicators to monitor include **overall performance**, **first screen time**, and **availability**. Specific values need to be configured based on the self-service scenario.

Example diagram of page performance alarm configuration

触发条件

指标告警

满足以下 任意 指标判断条件时，触发告警

if 整体性能 统计粒度1分钟 > 200 毫秒 持续 3 个数据点 then 每10分钟告警一次

if 首屏用时 统计粒度1分钟 > 100 毫秒 持续 3 个数据点 then 每10分钟告警一次

if 可用性 统计粒度1分钟 <= 99 % 持续 3 个数据点 then 每10分钟告警一次

[添加指标](#)

Port Performance Task Type

Port performance primarily monitors GET and POST protocols or ports, tracking API response performance and availability to ensure user experience and business usability. It guarantees that APIs can properly respond to requests. Key metrics to monitor include **overall performance**, **request duration**, **response time**, **success rate**, and **accuracy**.

- **Success rate:** The success rate of clients executing monitoring tasks in accessing the target, calculated as (number of valid monitoring attempts / total number of monitoring times) * 100%
- **Accuracy:** The percentage of verified data in all returned correct data. Verification passed means meeting the verification method requirements specified in the protocol configuration item's "verification method".

Example diagram of port performance alarm configuration

触发条件

指标告警

满足以下 任意 指标判断条件时，触发告警

if	整体性能	统计粒度1分钟	>	①	100	毫秒	持续 3 个数据点	then	每10分钟告警一次	①	🗑️
if	请求用时	统计粒度1分钟	>	①	100	毫秒	持续 3 个数据点	then	每10分钟告警一次	①	🗑️
if	响应用时	统计粒度1分钟	>	①	100	毫秒	持续 3 个数据点	then	每10分钟告警一次	①	🗑️
if	成功率	统计粒度1分钟	<=	①	99	%	持续 3 个数据点	then	每10分钟告警一次	①	🗑️
if	正确率	统计粒度1分钟	<=	①	99	%	持续 3 个数据点	then	每10分钟告警一次	①	🗑️

[添加指标](#)

File Transfer Task Type

File transfer, through uploading/downloading files, retrieves application data resources with a transmission rate that reflects actual bandwidth fluctuations. It helps evaluate the efficiency and stability of file transfers. Key metrics to monitor include **average transfer speed**, **time to first packet**, and **success rate**.

Example diagram of file transfer alarm configuration

触发条件

指标告警

满足以下 任意 指标判断条件时，触发告警

if	平均传输速度	统计粒度1分钟	<=	①	5000	KB/s	持续 3 个数据点	then	每10分钟告警一次	①	🗑️
if	首包用时	统计粒度1分钟	>	①	100	毫秒	持续 3 个数据点	then	每10分钟告警一次	①	🗑️
if	成功率	统计粒度1分钟	<=	①	99	%	持续 3 个数据点	then	每10分钟告警一次	①	🗑️

[添加指标](#)

Audio and Video Experience Task Type

Audio/video experience monitors the playback of streaming media websites and App video files. Key metrics to track include **availability**, **time to first video frame**, **time to first video packet**, and **total buffering time**.

Example diagram of audio/video experience alarm configuration

触发条件

指标告警

满足以下 任意 指标判断条件时，触发告警

if	可用性	统计粒度1分钟	<=	100	%	持续 3 个数据点	then	每10分钟告警一次
if	首帧用时	统计粒度1分钟	>=	100	毫秒	持续 3 个数据点	then	每10分钟告警一次
if	视频首包用时	统计粒度1分钟	>=	100	毫秒	持续 3 个数据点	then	每10分钟告警一次
if	总缓冲用时	统计粒度1分钟	>	100	毫秒	持续 3 个数据点	then	每10分钟告警一次

[添加指标](#)

Domain Name whois Task Type

Domain whois is used to check whether a domain name has been registered and to obtain detailed information about registered domain names (such as domain owner, domain registrar, registration date, and expiration date). Key metrics to monitor include **success rate** and **number of errors**.

Example diagram of domain whois alarm configuration

触发条件

指标告警

满足以下 任意 指标判断条件时，触发告警

if	成功率	统计粒度1分钟	<=	99	%	持续 3 个数据点	then	每10分钟告警一次
if	错误次数	统计粒度1分钟	>	1	个	持续 3 个数据点	then	每10分钟告警一次

[添加指标](#)

Viewing Alarm Records

Last updated: 2025-07-24 15:34:46

This document introduces how to view CAT alarm history.

Viewing Alarm Records

1. Log in to Tencent Cloud Observability Platform to access the [Alarm History](#) page.
2. Select the "CAT" monitoring type and the corresponding policy type. After selection, click **Query** to proceed.
3. You can also click the schedule to perform **time filtering** and view alarm records for a certain time period.



Alarm Metric Description

Last updated: 2025-07-24 15:35:18

The probe metrics for each policy type are as follows:

Network

Metric Name	Unit	Description
Latency	ms	The time required for a message or packet to travel from one end of a network to the other. Transmission delay is determined by Internet routing conditions. If transmitted over a slow channel or when the channel is too crowded, it may result in long-term delay or packet loss.
Packet loss rate	%	The ratio of lost data packets to the total number of transmitted data packets. Packet loss is generally caused by the following factors: physical line failure, equipment failure, network congestion, routing error, etc.
DNS query time	s	Time required for input domain name to convert to IP address

Page

Metric Name	Unit	Description
Overall performance	s	Time interval from starting to browse the page to completing the reception of the last packet of data
Duration for 100K	s	Average load time for 100KB content: $100K \text{ duration} = \text{Overall performance} / \text{Total downloaded bytes} \times 100$
First screen time	s	Time difference from entering the URL to when the rendered area height of the page is equal to or greater than the specified height. The platform default is 600 pixels in height. When the page height is less than 600 pixels, take the time difference from starting to browse to when the IE Kernel throws the Document Completed event.
Overall speed	kb/s	Average page load speed: $\text{Overall speed} = \text{Total downloaded bytes} / \text{Overall performance}$
Document completion time	s	Time interval from starting to browse the page to completing the basic document parsing

Port

Metric Name	Unit	Description
Overall performance	s	Time interval from starting DNS resolution to completing data reception
Accuracy	%	Percentage of verified data in all returned correct data. Verified: Refers to passing the verification as required by the "verification method" in the protocol configuration item.
Request Duration	s	Time taken to send protocol request content
Response Time	s	Time consumption from the client completing data transmission to receiving the first packet of server response

File

Metric Name	Unit	Description
Average transmission	kb/s	Average speed during downloading or uploading the target file: $\text{Average transmission speed} = \text{Actual downloaded/uploaded bytes} / \text{Transfer duration}$

speed		
Time to first packet	s	<ul style="list-style-type: none"> • Time consumed from when the client initiates a download request to when it receives the first packet of the server response • Upload: Time consumed from when the client initiates an upload request until it sends an outbound packet
Transfer duration	s	<ul style="list-style-type: none"> • Download: Time consumption for downloading the target file • Upload: The time taken for the client to send the target file to the server side and for the server to accept it completely.
DNS time	s	Time taken for DNS resolution; Time required for input domain name to convert to IP address
TCP time consumption	s	Time consumption for establishing a TCP connection during the process of downloading (uploading) a target file

Audio and Video

Metric Name	Unit	Description
First buffer duration	s	First buffer duration = Time to first frame – Video first packet time
Total buffer duration	s	Total buffer duration = First buffer duration + Stutter 1 duration + Stutter N duration
Total buffering times	Times	Total buffering times = First buffer + Number of Lags
Average download speed	b/s	The speed at which video resources are downloaded while the player plays a video: Average download speed = Total downloaded bytes / Throughput duration

Real-Time Dial Testing

Real-Time Dial Testing Overview

Last updated: 2025-07-24 15:35:54

Real-time dial testing enables non-intrusive single-dial testing and real-time transmission of dial test data. When you perceive an issue during periodic dial testing, perform quick problem verification.

Feature Description

- **Storage duration:** Align the storage duration of real-time dial test data with scheduled tasks, retain for 30 days with details and metric data.
- **Billing rule:** Real-time dial testing is billed according to the selected dial test points using [pay-as-you-go pricing](#). Plan quota cannot be deducted.
- **Data return time:** Wait 1–3 minutes to view dial test data.
- **Re-test:** After starting a re-test, billing will be based on the selected probe points and charged again according to [pay-as-you-go pricing](#).

View the Historical Data of Instant Test

Last updated: 2025-07-24 15:36:23

This document introduces how to view the historical data of an instant test in the last 30 days.

Directions

Current Detection Data

1. Log in to the [cloud probing console](#).
2. Click **Real-time Dial Testing** in the left menu bar.
3. Click **History Record** in the top right corner of the page.
4. Find the corresponding dial test task, click **View Detail** in the operation list, and you can view the dial test data within 30 days.

当前探测

指标概览

- 解析错误率: 100%
- 时延: 34 ms
- DNS查询用时: 11 ms
- 成功率: 100%

探测详情

城市	运营商	探测时间	任务状态	时延
乌鲁木齐电信	中国电信	2022/06/10 16:07:32	成功	47
银川电信	中国电信	2022/06/10 16:07:15	成功	21
武汉电信	中国电信	2022/06/10 16:07:09	成功	20
天津电信	中国电信	2022/06/10 16:06:49	成功	27
德州电信	中国电信	2022/06/10 16:06:42	成功	157
拉萨电信	中国电信	2022/06/10 16:06:41	成功	49
合肥电信	中国电信	2022/06/10 16:06:33	成功	88
西安电信	中国电信	2022/06/10 16:06:29	成功	30
兰州电信	中国电信	2022/06/10 16:06:26	成功	27
长春电信	中国电信	2022/06/10 16:06:26	成功	26

共 31 条

基本信息 各地域拨测详情数据

地理位置: 银川电信 状态: 成功 错误代码:

详细日志

DNS请求分析	PING监测分析	TRACERT监测分析
A地址: [redacted]	[redacted] 共有32字节	序号: 1 TracerIP: [redacted] Tracert时间: 0ms
CNAME地址: [redacted]	来自: [redacted] 字节=32, 发送用时=21ms	2 [redacted] 0ms
DNS用时: 3ms	来自: [redacted] 字节=32, 发送用时=21ms	3 [redacted] 2ms
DNS报头: [redacted]	来自: [redacted] 字节=32, 发送用时=21ms	4 [redacted] 2ms
[redacted]	来自: [redacted] 字节=32, 发送用时=21ms	5 [redacted] 0ms
[redacted]	来自: [redacted] 字节=32, 发送用时=21ms	6 [redacted] 0ms
[redacted]	来自: [redacted] 字节=32, 发送用时=21ms	7 [redacted] 0ms
[redacted]	来自: [redacted] 字节=32, 发送用时=21ms	8 [redacted] 0ms
[redacted]	来自: [redacted] 字节=32, 发送用时=21ms	9 [redacted] 0ms
[redacted]	来自: [redacted] 字节=32, 发送用时=21ms	10 [redacted] 22ms
[redacted]	来自: [redacted] 字节=32, 发送用时=21ms	11 [redacted] 0ms
[redacted]	来自: [redacted] 字节=32, 发送用时=21ms	12 [redacted] 0ms
[redacted]	来自: [redacted] 字节=32, 发送用时=21ms	13 [redacted] 0ms

Diagnosis History

Diagnosis history records the test task history data of the same domain name and the same task type.

The calculation method for the metric overview in the diagnosis history: Calculate the average value based on the detection details, metric data within the specified time range of the filter.

诊断历史

指标概览

- 解析错误率: 100%
- 时延: 28 ms
- DNS查询用时: 10 ms
- 成功率: 100%
- tracert时延: 19 ms
- tracert跃点数: 12个

探测详情

城市	运营商	探测时间	任务状态	时延	DNS查询用时	tracert时延	tracert跃点数	操作
广州联通	中国联通	2022/05/30 12:47:08	成功	4	2	3	10	查看详情
南京联通	中国联通	2022/05/30 12:47:08	成功	10	20	7	9	查看详情
南京移动	中国移动	2022/05/30 12:47:06	成功	8	11	10	7	查看详情
哈尔滨电信	中国电信	2022/05/30 12:43:24	成功	27	4	14	14	查看详情
上海电信	中国电信	2022/05/30 12:43:05	成功	8	5	6	12	查看详情
乌鲁木齐电信	中国电信	2022/05/30 12:42:58	成功	123	102	87	21	查看详情
海口电信	中国电信	2022/05/30 12:42:47	成功	17	5	17	14	查看详情
广州电信	中国电信	2022/05/30 12:42:47	成功	10	52	10	12	查看详情
银川电信	中国电信	2022/05/30 12:42:46	成功	22	3	14	14	查看详情
济南电信	中国电信	2022/05/30 12:42:40	成功	19	6	18	14	查看详情

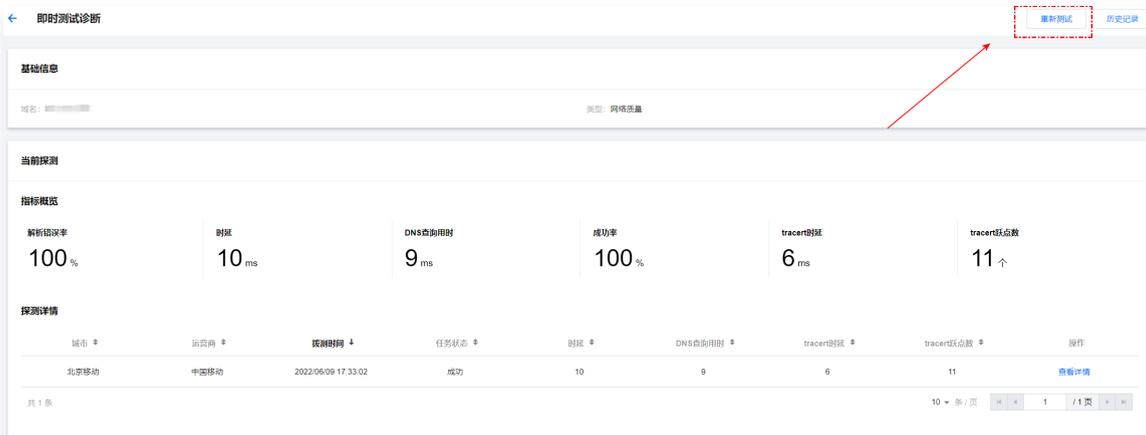
共 33 条

10 / 页 1 / 4 页

Test Again

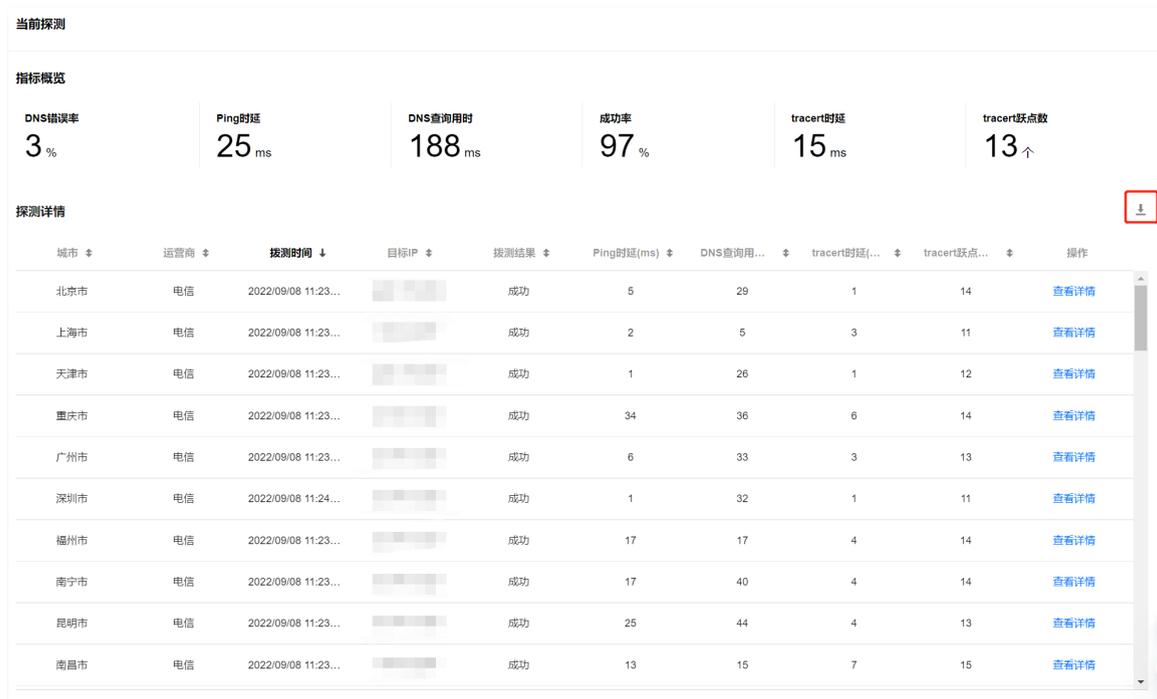
You can click **Retest** in the top right corner of the page, and the system will perform a new detection based on the current configuration.

After initiating retesting, billing will be based on your selected test points and charged according to [pay-as-you-go pricing](#). Current detection records will be displayed as diagnosis history records, and new detection data will be shown 1–3 minutes later.



Export Data

CAT only retains 30 days of instant probe data. You can click the download button above the probe details to download instant probe data to meet the requirement for longer data storage.



Configuring Network Packet Capture

Last updated: 2025-07-24 15:36:40

The packet capture feature of CAT can capture network data packets from specified IP addresses and ports. By analyzing these network data packets, you can identify various symptoms caused by network – layer issues, including connection interruptions, TLS handshake failures, DNS resolution failures, and other errors. Currently, the packet capture function is available for tasks with advanced test points in the network quality type of CAT. You can refer to the following context to configure it.

Configuration Method

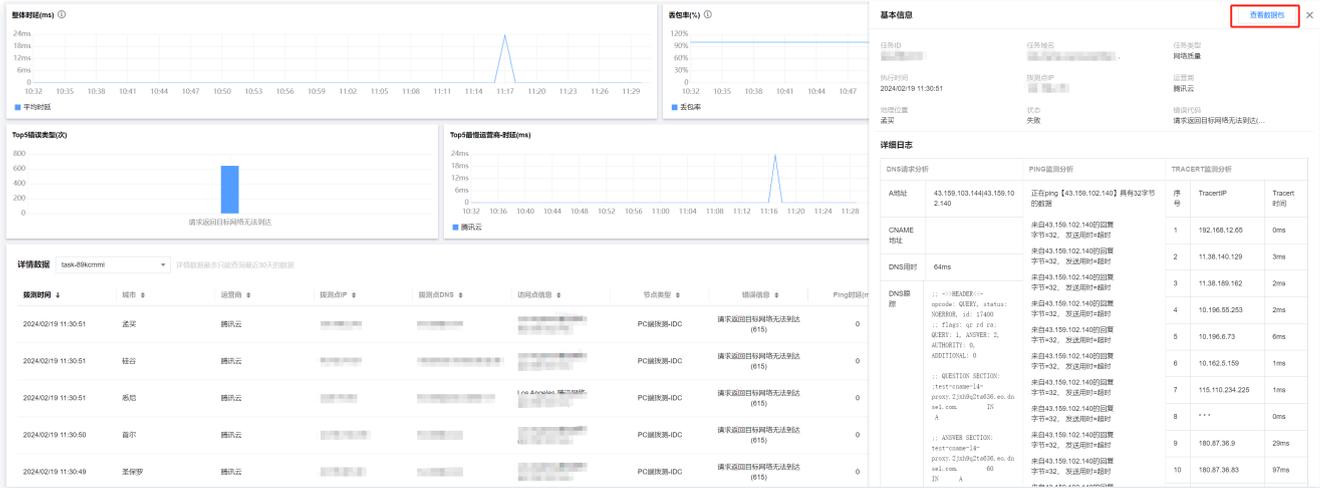
1. Log in to the [cloud probing console](#).
2. Click **Task List** in the left menu bar.
3. Click **Create Task** at the top of the task list page.
4. Select the "Network Quality" task type and the "Advanced Scenario Dial Test Point" node type. For other configuration items, refer to [Create Network Task](#).
5. Expand "Test Parameter Configuration", in the packet capture options, select Request Error Packet Capture or All Packet Capture.
6. After completing all configurations, this task will enable packet capture.

The screenshot shows the configuration interface for network packet capture. It is divided into several sections:

- 抓包 (Packet Capture):** Includes buttons for "关闭" (Close), "请求错误" (Request Error), and "全部" (All). The "请求错误" and "全部" buttons are highlighted with red boxes.
- 忽略私有IP结果 (Ignore Private IP Results):** Includes buttons for "忽略" (Ignore) and "不忽略" (Do not ignore).
- 拨测配置 (Dial Test Configuration):**
 - Ping 监测 (Ping Monitoring)
 - 协议类型 (Protocol Type): ICMP (selected), TCP, UDP
 - 监测超时(秒) (Monitoring Timeout (s)): 20 (range 0-60, not including 0)
 - 执行间隔(秒) (Execution Interval (s)): 0.5 (range 0-10)
 - Package 数量(个) (Package Count): 20 (range 0-40)
 - Package 大小(B) (Package Size (B)): 32 (range 32-1450)
 - 切分Package (Split Package):

Viewing Data Packets

1. Log in to the [cloud probing console](#).
2. Click **Multi-dimensional Analysis** in the left menu bar > Select the **Network Quality** dial test task.
3. In the detailed data, click any column to expand the basic dial test information. Download the data package in the basic information. After downloading, you can import it into the network analysis tool to analyze the packet content.



Description

What are the reasons for no packet capture data?

- Failed to configure packet capture parameters. For example, if you only configured request error packet capture, but in practice there are only correct requests, then there will be no packet capture data.
- Packet capture data has a longer return delay compared with other metrics. Wait a moment and refresh and try again.

CAM

Overview

Last updated: 2025-07-24 15:37:35

If you are using CAT in Tencent Cloud, and the service is managed by different people who all share your cloud account key, the following issues may occur:

- The risk of your key being compromised is high since multiple users are sharing it.
- You cannot restrict access for other users, which may lead to misoperations and potential security risks.

At this point, you can use sub-accounts to assign different personnel to manage different services, thereby avoiding the above issues. By default, sub-accounts do not have permission to use CAT. Therefore, we need to create policies to grant sub-accounts access to the resources they require.

Description

You can skip this section if you don't need to manage access to CAT resources for sub-accounts. Skipping this part won't affect your understanding and use of the rest of the document.

Overview

[Access Management](#) (Cloud Access Management, CAM) is a set of Web services provided by Tencent Cloud, primarily used to help customers securely manage Access permissions to resources under Tencent Cloud accounts. Through CAM, you can create, manage, and terminate users (groups), and control who can use which Tencent Cloud resources through identity and policy Management.

When using CAM, you can associate a policy with a user or a group of users. The policy can authorize or deny users the ability to use specified resources to complete specific tasks. For more basic information on CAM policies, see [Policy Syntax](#). For more information on using CAM policies, see [Policies](#).

Authorization Methods

CAT supports two authorization methods: resource-level authorization and authorization by tag.

- Resource-level authorization: You can grant sub-accounts management permissions for individual resources through policy syntax or default policies. For more information, see [Policy Syntax](#) and [Policy Granting](#).
- Tag-based authorization: You can grant sub-accounts management permissions for resources associated with specific tags by tagging the resources accordingly. For more information, see [Resource Tags](#).

Policy Syntax

Last updated: 2025-07-24 15:37:50

Overview

Access policies can be used to grant permissions related to CAT. Access policies use a JSON-based access policy language. Through this policy language, you can authorize specified principals to perform designated operations on specified CAT resources. The access policy language describes the basic elements and usage of policies. For explanations about the policy language, see [CAM Policy Management](#).

Policy Syntax

CAM policy:

```
{
  "version": "2.0",
  "statement": [
    {
      "effect": "effect",
      "action": ["action"],
      "resource": ["resource"],
      "condition": {"key": {"value"}}
    }
  ]
}
```

Element Usage

- The **version** is required, currently only allowing a value of "2.0".
- **statement** is used to describe the detailed information of one or more permissions. This element includes the permissions or permission sets of multiple other elements such as effect, action, resource, and condition. A policy has one and only one statement element.
 - 1.1 **The effect describes whether the declaration results in "allow" or "explicit deny". It includes two cases: allow and deny. This element is mandatory.**
 - 1.2 **action** describes the allowed or denied operations. Operations can be APIs (described with name prefix) or feature sets (a specific group of APIs, described with permid prefix). This element is mandatory.
 - 1.3 **resource** describes the detailed data authorized. Resources are described using six paragraphs. The resource definition details will vary for each product. For information on how to specify resources, please refer to the product documentation corresponding to the resource declaration you have written. This element is required.
 - 1.4 **conditions** describes the constraints under which the policy takes effect. Conditions consist of operators, operation keys, and operation values. Condition values can include information such as time and IP address. Some services allow you to specify additional values in the condition. This element is optional.

Specifying Effect

If access to a resource is not explicitly granted (allow), it is implicitly denied. Additionally, access to a resource can be explicitly denied (deny), ensuring that users cannot access the resource, even if other policies grant access. Below is an example specifying the effect of allowing:

```
"effect" : "allow"
```

Specifying Actions

CAT defines a set of console operations that can be specified in a policy. The specified operations are categorized into read-only APIs `cat:Describe*` and all APIs `cat:*`.

Examples of allowed operations are as follows:

```
"action": [
  "name/cat:Describe*"
]
```

Specifying Resources

The resource element describes one or more operation objects, such as CAT resources. All resources can be described using the following four-segment format.

```
qcs:project_id:account:resource
```

The parameters are described as follows:

Parameter	Description	Required or Not
qcs	Abbreviation for qcloud service, referring to Tencent Cloud's cloud service	Yes
service_type	Product abbreviation, here is cat	Yes
account	Description of the root account information of the resource owner, namely the ID of the root account, represented as <code>uin/\${OwnerUin}</code> , for example: <code>uin/100000000001</code> .	Yes
resource	Describe detailed resource information, prefixed with task, for example: <code>task-a4iiv123</code>	Yes

Following is a four-segment example of CAT:

```
"resource":["qcs::cat:uin/1250000000:TaskId/task-a4iiv123"]
```

Examples

Based on the resource ID, allocate read/write permissions for the specified resource. The root account ID is 1250000000.

Example: Assign a dial test task (ID: `task-a4iiv123`) to a sub-user and modify permissions.

```
{
  "version": "2.0",
  "statement": [
    {
      "effect": "allow",
      "action": [
        "cat:ModifyProbeTask"
      ],
      "resource": [
        "qcs::cat:uin/1250000000:TaskId/task-a4iiv123"
      ]
    }
  ]
}
```

List of APIs That Support Resource-Level Authorization

API Operation Name	API Description
CreateProbeTasks	batch create probe tasks

DeleteProbeTask	Delete probe tasks
DescribeConsoleConfig	Retrieve console configuration, such as whether tags must be completed when the current user creates a task.
DescribeDetailedSingleProbeData	Query single dial test detail data based on time range, task ID, carrier, and other conditions.
DescribePaymentState	Query fee status
DescribeProbeMetricData	List detailed data of CAT metrics
DescribeProbeMetricTagValues	List CAT metric label values
DescribeProbeNodeGroups	Query a node group
DescribeProbeNodes	Query a probe node
DescribeProbeTasks	Query the probe task list.
DescribeProbeTasksByAddresses	List tasks aggregated by address.
ModifyProbeTask	Modify a dial test task
ResumeProbeTask	Restore a probe task
SuspendProbeTask	Suspend a probe task
UpdateProbeTaskAttributes	Update the probe task property
UpdateProbeTaskConfigurationList	Batch update probe task configuration

Associating with Policies

Last updated: 2025-07-24 15:38:10

By default, a sub-account does not have any permissions for CAT. The root account needs to grant the relevant permissions to the sub-account so that it can access the CAT resources normally.

Prerequisites

Use the root account or a sub-account with QcloudCamFullAccess permission to log in to the Tencent Cloud console. To create a sub-account, see [Creating Sub-user](#).

Customizing Policies

1. Use the root account or a sub-account with QcloudCamFullAccess permission to access [Cloud Access Management > Policies](#).
2. Click **Create Custom Policy > Create by Policy Syntax** and select a blank template. Complete the policy editing according to [Policy Syntax](#).

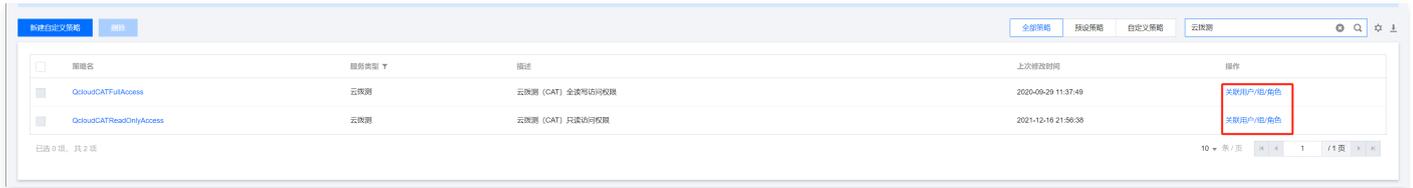


Authorizing with Policies

Note:

PTS creates default policies for you: QcloudCATFullAccess (CAT full read/write access) and QcloudCATReadOnlyAccess (CAT read-only access). You can quickly associate these default policies by searching for their names. You can also associate with custom policies. After successful association, sub-accounts can access the related resources normally.

1. Use the root account or a sub-account with QcloudCamFullAccess permission to access [Cloud Access Management > Policies](#).
2. Go to the Policy Management page and enter the corresponding policy name in the policy name search box.
3. Select read-only access or full read/write access permissions, and then click **Associate User/Group/Role** in the Operation column.



4. In the pop-up window, select the corresponding user and click **OK**.

Resource Tag

Last updated: 2025-07-24 15:38:28

CAT combines Tencent Cloud resource tag function to offer you permission granting to sub-accounts by tag and cost allocation by tag.

Application Scenario

A certain company created multiple dial test tasks. These dial test tasks are independently developed and operated by departments A and B. Now, it is necessary to create tags, bind resources, and grant permissions for departments A and B, as follows:

- Create tag A: Bind all dial test tasks of department A.
- Create tag B: Bind all dial test tasks of department B.

Tag-based Authorization

User A is a developer in department A and is responsible for the R&D of all dial test tasks in department A. It is required to grant the developer the tag permission of A.

Tag Accounting

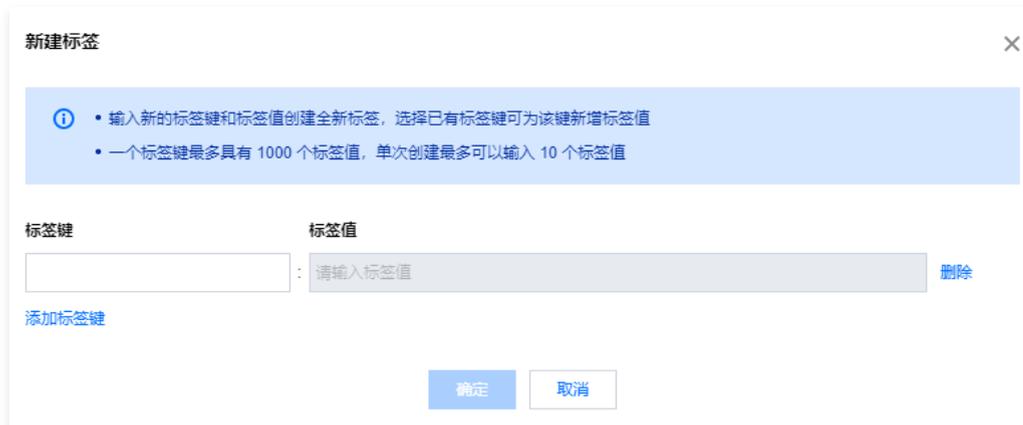
User B is a finance staff of the company and is responsible for independent accounting of the financial expenditures of departments A and B. It is required to grant the finance staff the tag permissions of A and B, and perform cost allocation by tag.

Preparations

Step 1: Create a Tag

Follow the steps below to distribute and create tags A and B.

1. Enter the [Tag List page](#).
2. Click **Create Tag** to enter the Add Tag page, then fill in the tag key and corresponding tag value.



3. Click **Confirm** to complete tag creation.

Step 2: Assign Tags to Resources

Refer to the following steps: Bind all dial test tasks under Department A to Label A. Bind all dial test tasks under Department B to Label B.

1. Enter the [CAT Console > Task List](#) page.

2. Click **Create Task**, then fill in the information in the pop-up window and bind tags.

The screenshot shows the 'Create Task' configuration interface. Key sections include:

- 任务类型 (Task Type):** Includes options for '自定义探测' (Custom Discovery) and '快速探测' (Quick Discovery).
- 任务名称 (Task Name):** A text input field with a search icon.
- 任务频率 (Task Frequency):** A dropdown menu with options like '1分钟', '5分钟', '10分钟', etc.
- 自定义脚本 (Custom Script):** A text area for entering custom scripts.
- 任务标签 (Task Tags):** A dropdown menu for selecting tags.
- 测试点配置 (Test Point Configuration):** A section with a search bar and a list of test points on the left, and a table for binding tags on the right. The table has columns for '绑定名称' (Binding Name) and '绑定策略' (Binding Policy).
- 按标签授权 (Tag-based Authorization):** A section at the bottom with a red box around the '按标签授权' option, which includes the description: '将具有一类标签属性的资源快速授权给用户或用户组'.

Tag-based Authorization

Authorized policy by tag, grant permission for tag A to user A, and grant permissions for tags A and B to user B.

1. Enter the [Policy Management Page](#), then click **Create Custom Policy** in the upper left corner.
2. In the pop-up window for selecting creation method, click **tag authorization** to enter the tag authorization page.

The screenshot shows the '选择创建策略方式' (Select Creation Method) dialog box. It contains the following options:

- 按策略生成器创建 (Create by Policy Generator):** 从列表中选择服务和操作，自动生成策略语法
- 按产品功能或项目权限创建 (Create by Product Function or Project Permission):** 开启或关闭相应的产品功能、项目管理功能，自动生成对应策略
- 按策略语法创建 (Create by Policy Syntax):** 通过编写策略语法，生成对应的策略
- 按标签授权 (Tag-based Authorization):** 将具有一类标签属性的资源快速授权给用户或用户组 (This option is highlighted with a red box)

3. On the edit policy page, fill in the following information and then click **Next**.

← 按标签授权

1 编辑策略 > 2 关联用户/用户组/角色

可视化策略生成器 JSON

添加服务与操作 添加

▼ 请选择服务

服务 (Service) *	请选择服务
操作 (Action) *	请先选择服务

选择标签(resource_tag) ⓘ

标签键 ▼ 标签值 ▼ ×

+ 添加 ⓘ 键值粘贴板

如现有标签不符合您的需求, 请前往标签控制台新建标签 [🔗](#)

下一步 字符数: 141 (最多6144)

4. Enter the Associate User/User Group/Role page, select the user/user group/role to be associated, check and complete the policy (you can modify the policy name), then click **Complete**.

← 按标签授权

✓ 编辑策略 > 2 关联用户/用户组/角色

基本信息

策略名称 *
策略创建后, 策略名称不支持修改

描述

关联用户/用户组/角色

将此权限授权给用户 [选择用户](#)

将此权限授权给用户组 [选择用户组](#)

将此权限授权给角色 [选择角色](#)

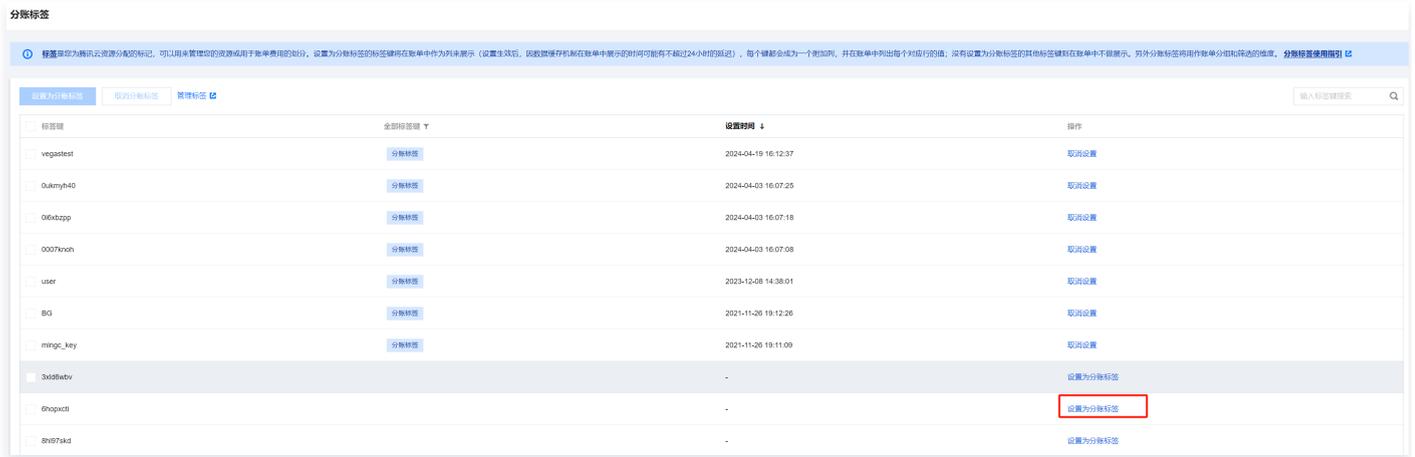
上一步 完成

Tag Accounting

Step 1: Set Allocation Tags

Follow the steps below to set tags A and B as allocation tags:

1. To use the tag function in bills, you need to enter the [Billing Center Console](#), select **Cost Allocation Management > Allocation Tags** in the left menu. The tag keys set as allocation tags will be displayed as a separate column in the bills. You can filter and classify the bills based on these tag keys.
2. On this page, you can see the list of created tag keys. Select the tag keys you want to display, click **Set as Billing Tag**, and the tag key will be set as a billing tag in the bill.



Step 2: Show Bills by Tag

You can view and click the new option **Summarize by Tag** on the [Bill Overview](#) page. By selecting a specific **tag key**, you can view the histogram and list of related resources summarized by this tag key.



References

Probe Point Description

Chinese Mainland IDC

Last updated: 2025-07-24 15:39:09

CAT can obtain the page performance duration and network information under different ISP environments and display the top five slowest ISPs. The following are the supported monitoring points for CAT in Chinese mainland IDC cities.

Note:

Subject to ISP and other network planning factors, there may be situations where monitoring points are suddenly removed. Therefore, we cannot guarantee that all probe points will continuously provide services. The following monitoring points are for reference only. It is advisable to select multiple probe points when configuring the task. If you have any questions, welcome [contact us](#).

Provincial Administrative Region	City	Carrier
Beijing	Beijing	China Telecom
		CUCC
		China Tietong
		China Mobile
Tianjin	Tianjin	China Telecom
		CUCC
		China Mobile
Hebei	Baoding City	China Telecom
		CUCC
	Qinhuangdao City	China Telecom
	Shijiazhuang City	China Telecom
		CUCC
	Tangshan City	China Mobile
Shanxi	Taiyuan City	CUCC
		China Telecom
Inner Mongolia	Hohhot City	China Telecom
		CUCC
		China Mobile
Liaoning	Shenyang City	China Telecom
		CUCC
		China Mobile
Jilin	Changchun City	China Telecom

		CUCC
		China Mobile
Heilongjiang	Harbin City	China Telecom
		CUCC
		China Mobile
Shanghai	Shanghai	China Telecom
		CUCC
		China Mobile
Jiangsu	Changzhou	CUCC
	Lianyungang	CUCC
	Nanjing	China Telecom
		CUCC
		China Mobile
	Nantong	China Telecom
	Suzhou	China Telecom
	Wuxi	China Telecom
		CUCC
China Mobile		
Zhejiang	Hangzhou city	China Telecom
		CUCC
		China Mobile
	Jinhua city	CUCC
Wenzhou city	China Telecom	
Anhui	Hefei City	China Telecom
		CUCC
		China Mobile
	Suzhou City	CUCC
Wuhu City	China Telecom	
Fujian	Fuzhou City	China Telecom
		CUCC
		China Mobile
	Longyan City	CUCC
	Nanping City	CUCC
	Putian City	CUCC
Quanzhou City	CUCC	

	Sanming City	CUCC
	Xiamen City	CUCC
	Zhangzhou City	CUCC
Jiangxi	Fuzhou City	CUCC
	Nanchang	China Telecom
		CUCC
		China Mobile
Shandong	Jinan City	China Telecom
		CUCC
		China Mobile
	Qingdao City	CUCC
Henan	Luoyang City	CUCC
	Zhengzhou City	CUCC
Hubei	Wuhan City	China Telecom
		CUCC
		China Mobile
Hu' nan	Changsha city	China Telecom
		CUCC
		China Mobile
	Chenzhou City	China Telecom
	Hengyang City	CUCC
Guangdong	Dongguan City	China Telecom
	Foshan City	China Telecom
	Guangzhou	China Telecom
		CUCC
		China Mobile
	Shantou	CUCC
Shenzhen	China Telecom	
Guangxi	Nanning	China Telecom
		CUCC
		China Mobile
Chongqing	Chongqing	China Telecom
		CUCC
Sichuan	Chengdu	China Telecom
		China Mobile

	Deyang	China Telecom
	Meishan	China Telecom
Guizhou	Guiyang city	China Telecom
		CUCC
		China Mobile
Yunnan	Kunming City	China Telecom
		CUCC
Shaanxi	Xi'an	China Telecom
		CUCC
		China Mobile
	Xianyang	CUCC
Gansu	Lanzhou City	China Telecom
		CUCC
	Tianshui City	China Telecom
Ningxia	Yinchuan City	China Telecom
Xinjiang	Urumqi City	China Telecom

LastMile Nodes in the Chinese Mainland

Last updated: 2025-07-24 15:39:29

CAT can obtain the page performance duration and network information under different ISP environments and display the top five slowest ISPs. The following are the supported testing points for CAT in LastMile cities on the Chinese mainland.

Note:

Subject to ISP and other network planning factors, there may be sudden removals of monitoring points. Therefore, we cannot guarantee continuous service provision from all probing points. The following probing points are for reference only. It is advisable to select multiple probing points when configuring the task. If you have any questions, [contact us](#).

Provincial Administrative Region	City	Carrier
Beijing	Beijing	Gehua Broadband in Beijing
		Great Wall Broadband
		China Telecom
		China Education Network
		China Unicom
		China Tietong
		China Mobile
Tianjin	Tianjin	Great Wall Broadband
		China Telecom
		China Education Network
		China Unicom
		China Mobile
Hebei	Baoding City	China Telecom
		China Unicom
		China Mobile
	Cangzhou City	China Telecom
		China Unicom
		China Mobile
	Chengde City	China Telecom
		China Unicom
		China Mobile
	Handan City	China Telecom
		China Unicom
		China Mobile
	Hengshui City	China Telecom
		China Unicom

		China Mobile
	Langfang City	China Telecom
		China Unicom
		China Mobile
	Qinhuangdao	China Telecom
		China Unicom
		China Mobile
	Shijiazhuang City	Great Wall Broadband
		Broadcasting Broadband
		China Telecom
		China Education Network
		China Unicom
		China Mobile
	Tangshan City	China Telecom
		China Unicom
		China Mobile
	Xingtai City	China Telecom
		China Unicom
		China Mobile
	Zhangjiakou City	China Telecom
		China Unicom
		China Mobile
Shanxi	Changzhi City	China Telecom
		China Unicom
		China Mobile
	Datong City	China Telecom
		China Unicom
		China Mobile
	Jincheng City	China Telecom
		China Unicom
		China Mobile
	Jinzhong City	China Telecom
		China Unicom
		China Mobile
Linfen City	China Telecom	

		China Unicom
		China Mobile
	Lǔ liang City	China Telecom
		China Unicom
	Shuozhou City	China Telecom
		China Unicom
		China Mobile
	Taiyuan City	Great Wall Broadband
		China Telecom
		China Unicom
		China Mobile
	Xinzhou City	China Telecom
		China Unicom
		China Mobile
	Yangquan City	China Telecom
		China Unicom
		China Mobile
	Yuncheng City	China Telecom
		China Unicom
		China Mobile
Inner Mongolia	Alxa League	China Unicom
		China Mobile
	Bayannur City	China Unicom
	Baotou City	China Telecom
		China Unicom
		China Mobile
	Chifeng City	China Telecom
		China Unicom
	Ordos City	China Telecom
		China Unicom
		China Mobile
	Hohhot City	China Telecom
		China Unicom
		China Mobile
	Hulunbuir City	China Telecom

		China Unicom
		China Mobile
	Tongliao City	China Telecom
		China Unicom
		China Mobile
	Wuhai City	China Unicom
	Ulanqab City	China Telecom
		China Unicom
	Xilin Gol	China Unicom
	Hinggan League	China Telecom
Liaoning	Anshan City	China Telecom
		China Unicom
		China Mobile
	Benxi City	China Unicom
		China Mobile
	Chaoyang City	China Unicom
	Dalian City	Great Wall Broadband
		China Telecom
		China Unicom
		China Mobile
	Dandong City	China Telecom
		China Unicom
		China Mobile
	Fushun City	Great Wall Broadband
		China Telecom
		China Unicom
		China Mobile
	Fuxin City	China Telecom
		China Unicom
		China Mobile
	Huludao	China Telecom
		China Unicom
		China Mobile
	Jinzhou City	China Telecom
China Unicom		

		China Mobile
	Liaoyang City	China Telecom
		China Mobile
	Panjin City	China Telecom
		China Unicom
		China Mobile
	Shenyang City	China Telecom
		China Unicom
		China Mobile
	Tieling City	China Unicom
		China Mobile
	Yingkou City	Great Wall Broadband
		China Telecom
		China Unicom
Jilin	Baicheng City	China Telecom
		China Unicom
		China Mobile
	Baishan City	China Telecom
		China Unicom
		China Mobile
	Changchun City	Great Wall Broadband
		China Telecom
		China Unicom
		China Mobile
	Jilin City	China Telecom
		China Unicom
		China Mobile
	Liaoyuan City	China Telecom
		China Unicom
		China Mobile
	Siping City	China Telecom
		China Unicom
		China Mobile
	Songyuan City	China Telecom
		China Unicom

		China Mobile
	Tonghua City	China Telecom
		China Unicom
	Yanbian	China Telecom
		China Unicom
		China Mobile
Heilongjiang	Daqing City	China Unicom
		China Mobile
	Harbin City	Great Wall Broadband
		Broadcasting Broadband
		China Telecom
		China Unicom
		China Tietong
	Hegang City	China Mobile
		China Telecom
	Jixi City	China Telecom
	Jiamusi City	China Unicom
	Mudanjiang City	China Unicom
		China Mobile
	Qitaihe City	China Telecom
		China Unicom
	Qiqihar City	China Telecom
		China Unicom
		China Mobile
	Shuangyashan City	China Unicom
	Suihua City	China Unicom
Yichun City	China Unicom	
	China Mobile	
Shanghai	Shanghai	Great Wall Broadband
		China Telecom
		China Education Network
		China Unicom
		China Tietong
		China Mobile

Jiangsu	Changzhou City	China Telecom
		China Unicom
		China Mobile
	Huai'an City	China Telecom
		China Unicom
		China Mobile
	Lianyungang City	China Telecom
		China Unicom
		China Mobile
	Nanjing	Great Wall Broadband
		China Telecom
		China Education Network
		China Unicom
		China Mobile
	Nantong City	China Telecom
		China Unicom
		China Mobile
	Suzhou	China Telecom
		China Education Network
		China Unicom
		China Mobile
	Suqian City	Broadcasting Broadband
		China Telecom
		China Unicom
		China Mobile
	Taizhou City	China Telecom
		China Unicom
China Mobile		
Wuxi City	China Telecom	
	China Unicom	
	China Mobile	
Xuzhou City	China Telecom	
	China Unicom	
	China Mobile	
Yancheng City	China Telecom	

		China Unicom
		China Mobile
	Yangzhou City	China Telecom
		China Mobile
	Zhenjiang City	China Telecom
		China Education Network
		China Unicom
		China Mobile
Zhejiang		
	Hangzhou City	Wasu Broadband
		China Telecom
		China Unicom
		China Mobile
	Huzhou City	China Telecom
		China Unicom
		China Mobile
	Jiaxing City	China Telecom
		China Unicom
		China Mobile
	Jinhua City	China Telecom
		China Unicom
		China Mobile
	Lishui City	China Telecom
		China Unicom
		China Mobile
	Ningbo City	China Telecom
		China Unicom
		China Mobile
	Shaoxing City	China Telecom
		China Unicom
		China Mobile
	Taizhou City	China Telecom
		China Unicom
		China Mobile
	Wenzhou City	Great Wall Broadband

		China Telecom
		China Unicom
		China Mobile
	Zhoushan City	China Telecom
	Zhoushan City	China Unicom
	Zhoushan City	China Mobile
	Quzhou City	China Telecom
Anhui	Anqing City	China Telecom
Anhui	Anqing City	China Mobile
Anhui	Bengbu City	China Telecom
Anhui	Bengbu City	China Mobile
Anhui	Chizhou City	China Telecom
Anhui	Chizhou City	China Unicom
Anhui	Chizhou City	China Mobile
Anhui	Chuzhou City	China Telecom
Anhui	Chuzhou City	China Mobile
Anhui	Fuyang City	China Telecom
Anhui	Fuyang City	China Unicom
Anhui	Fuyang City	China Mobile
Anhui	Hefei City	Great Wall Broadband
Anhui	Hefei City	China Telecom
Anhui	Hefei City	China Unicom
Anhui	Hefei City	China Mobile
Anhui	Huaibei City	China Telecom
Anhui	Huaibei City	China Mobile
Anhui	Huainan City	China Telecom
Anhui	Huainan City	China Unicom
Anhui	Huainan City	China Mobile
Anhui	Huangshan City	China Telecom
Anhui	Huangshan City	China Mobile
Anhui	Lu'an City	China Telecom
Anhui	Lu'an City	China Unicom
Anhui	Lu'an City	China Mobile
Anhui	Ma'anshan City	China Telecom
Anhui	Ma'anshan City	China Unicom

		China Mobile
	Suzhou City	China Telecom
		China Mobile
		Great Wall Bandwidth
		China Telecom
	Tongling City	China Telecom
		China Telecom
		China Unicom
	Wuhu City	China Mobile
		China Telecom
		China Unicom
	Xuancheng City	China Telecom
		China Mobile
		China Unicom
	Bozhou City	China Telecom
		China Unicom
		China Mobile
Fujian	Fuzhou City	China Telecom
		China Unicom
		China Tietong
		China Mobile
	Longyan City	China Telecom
		China Unicom
		China Mobile
	Nanping City	China Telecom
		China Unicom
		China Mobile
	Ningde City	China Telecom
		China Unicom
		China Mobile
	Putian City	China Telecom
		China Unicom
		China Mobile
	Quanzhou City	China Telecom
		China Unicom
		China Mobile
	Sanming City	China Telecom
		China Unicom

		China Mobile
		Great Wall Broadband
	Xiamen City	China Telecom
		China Unicom
		China Mobile
	Zhangzhou City	China Telecom
		China Unicom
		China Mobile
Jiangxi	Fuzhou City	China Telecom
		China Unicom
		China Mobile
	Ganzhou City	China Telecom
		China Unicom
		China Mobile
	Ji'an City	China Telecom
		China Unicom
		China Mobile
	Jingdezhen City	China Telecom
	Jiujiang City	China Telecom
		China Unicom
		China Mobile
	Nanchang City	Great Wall Broadband
		China Telecom
		China Unicom
		China Mobile
	Pingxiang City	China Telecom
		China Unicom
		China Mobile
	Shangrao City	China Telecom
		China Mobile
	Xinyu City	China Telecom
		China Unicom
		China Mobile
	Yichun City	China Telecom
		China Unicom

		China Mobile
	Yingtian City	China Telecom
Shandong	Binzhou City	China Telecom
		China Unicom
		China Mobile
	Dezhou City	China Telecom
		China Unicom
		China Mobile
	Dongying City	China Telecom
		China Unicom
		China Mobile
	Heze City	China Telecom
		China Unicom
		China Mobile
	Jinan City	China Telecom
		China Education Network
		China Unicom
		China Mobile
	Jining City	China Telecom
		China Unicom
		China Mobile
	Laiwu City	China Telecom
		China Mobile
	Liaocheng City	China Telecom
		China Unicom
		China Mobile
Linyi City	China Telecom	
	China Unicom	
	China Mobile	
Qingdao City	Great Wall Broadband	
	China Telecom	
	China Unicom	
	China Mobile	
Rizhao City	China Telecom	
	China Unicom	

		China Mobile
	Tai'an City	China Telecom
		China Unicom
		China Mobile
	Weihai City	China Telecom
		China Unicom
		China Mobile
	Weifang City	China Telecom
		China Unicom
		China Mobile
	Yantai City	China Telecom
		China Unicom
		China Mobile
	Zaozhuang City	China Telecom
		China Unicom
		China Mobile
	Zibo City	China Telecom
		China Unicom
		China Mobile
Henan	Anyang City	China Telecom
		China Unicom
		China Mobile
	Hebi City	China Telecom
		China Unicom
		China Mobile
	Jiyuan City	China Unicom
		China Mobile
	Jiaozuo City	China Telecom
		China Unicom
		China Mobile
	Kaifeng City	China Telecom
		China Unicom
		China Mobile
	Luoyang City	China Telecom
China Unicom		

	China Mobile
Nanyang City	China Telecom
	China Unicom
	China Mobile
Pingdingshan City	China Telecom
	China Unicom
	China Mobile
Sanmenxia City	China Telecom
	China Unicom
	China Mobile
Shangqiu City	China Telecom
	China Unicom
	China Mobile
Xinxiang City	China Telecom
	China Unicom
	China Mobile
Xinyang City	China Telecom
	China Unicom
	China Mobile
Xuchang City	China Telecom
	China Unicom
	China Mobile
Zhengzhou City	China Telecom
	China Education Network
	China Unicom
	China Mobile
Zhoukou City	China Telecom
	China Unicom
	China Mobile
Zhumadian City	China Telecom
	China Unicom
	China Mobile
Luohe City	China Telecom
	China Unicom
	China Mobile

Hubei	Puyang City	China Telecom
		China Unicom
	Ezhou City	Great Wall Broadband
		China Unicom
	Enshi	China Telecom
		China Unicom
	Huanggang City	China Telecom
		China Unicom
		China Mobile
	Huangshi City	Great Wall Broadband
		China Telecom
		China Unicom
		China Mobile
	Jingmen City	China Telecom
		China Mobile
	Jingzhou City	China Telecom
		China Unicom
		China Mobile
	Qianjiang City	China Telecom
		China Unicom
Shiyan City	China Telecom	
	China Unicom	
	China Mobile	
Suizhou City	China Telecom	
Wuhan City	Great Wall Broadband	
	China Telecom	
	China Unicom	
	China Mobile	
Xiantao City	China Telecom	
	China Mobile	
Xianning City	China Telecom	
	China Mobile	
Xiangyang City	China Telecom	
	China Unicom	
	China Mobile	

	Xiaogan City	China Telecom
		China Unicom
		China Mobile
	Yichang City	China Telecom
		China Unicom
		China Mobile
Hu'nan	Changde City	China Telecom
		China Mobile
	Changsha city	Great Wall Broadband
		China Telecom
		China Unicom
	Chenzhou city	China Mobile
		China Telecom
		China Unicom
	Hengyang City	China Mobile
		China Telecom
		China Unicom
	Huaihua City	China Mobile
		China Telecom
		China Unicom
	Loudi city	China Mobile
		China Telecom
		China Unicom
	Shaoyang City	China Mobile
		China Telecom
		China Unicom
	Xiangtan city	China Mobile
		China Telecom
		China Unicom
	Xiangxi	China Mobile
		China Telecom
		China Unicom
	Yiyang City	China Mobile
		China Telecom

		China Mobile
	Yongzhou City	China Telecom
		China Unicom
	Yueyang City	China Telecom
		China Unicom
		China Mobile
	Zhangjiajie City	China Telecom
		China Mobile
	Zhuzhou city	China Telecom
		China Unicom
		China Mobile
Guangdong	Chaozhou City	China Telecom
		China Mobile
	Dongguan City	Great Wall Broadband
		Broadcasting Broadband
		China Telecom
		China Unicom
	Foshan City	China Mobile
		China Telecom
		China Unicom
		Great Wall Bandwidth
	Guangzhou	Great Wall Broadband
		Broadcasting Broadband
		China Telecom
		China Education Network
		China Unicom
	Heyuan City	China Mobile
		China Telecom
	Huizhou	China Telecom
		China Unicom
		China Mobile
Jiangmen City	Broadcasting Broadband	
	China Telecom	
	China Unicom	

	China Mobile
Jieyang City	China Telecom
	China Unicom
	China Mobile
Maoming City	China Telecom
	China Mobile
Meizhou City	China Telecom
	China Unicom
	China Mobile
Qingyuan City	China Telecom
	China Unicom
	China Mobile
Shantou City	Great Wall Broadband
	China Telecom
	China Unicom
	China Mobile
Shanwei City	China Telecom
	China Mobile
Shaoguan	China Telecom
	China Unicom
	China Mobile
Shenzhen	Great Wall Broadband
	Shenzhen Topway Video Communication
	China Telecom
	China Education Network
	China Unicom
	China Mobile
Yangjiang City	China Telecom
	China Unicom
	China Mobile
Yunfu City	China Telecom
	China Unicom
Zhanjiang City	China Telecom
	China Unicom
	China Mobile

	Zhaoqing City	China Telecom	
		China Unicom	
		China Mobile	
		Broadcasting Broadband	
	Zhongshan	China Telecom	
		China Unicom	
		China Mobile	
	Zhuhai City	China Telecom	
		China Unicom	
		China Mobile	
	Guangxi	Baise City	China Telecom
			China Mobile
Beihai City		China Telecom	
		China Unicom	
		China Mobile	
Chongzuo City		China Telecom	
		China Mobile	
Fangchenggang City		China Telecom	
		China Unicom	
		China Mobile	
Guilin City		China Telecom	
		China Unicom	
		China Mobile	
Guigang City		China Telecom	
		China Mobile	
Hechi City		China Telecom	
		China Mobile	
Hezhou City		China Telecom	
		China Mobile	
Laibin City		China Telecom	
		China Mobile	
Liuzhou City		China Telecom	
		China Unicom	
		China Mobile	
Nanning City	Broadcasting Broadband		

		China Telecom
		China Education Network
		China Unicom
		China Tietong
		China Mobile
	Qinzhou City	China Telecom
		China Unicom
		China Mobile
	Wuzhou City	China Telecom
		China Unicom
		China Mobile
	Yulin City	China Telecom
		China Unicom
		China Mobile
	Hainan	Dongfang City
China Mobile		
Haikou City		China Telecom
		China Unicom
		China Mobile
Qionghai City		China Unicom
Sanya City		China Telecom
		China Unicom
		China Mobile
Wanning City		China Telecom
		China Mobile
Wenchang City		China Telecom
		China Mobile
		China Unicom
Danzhou	China Telecom	
	China Mobile	
Chongqing	Chongqing City	Great Wall Broadband
		Broadcasting Broadband
		China Telecom
		China Unicom
		China Mobile

Sichuan	Ngawa	China Telecom
	Bazhong City	China Telecom
		China Unicom
		China Mobile
	Chengdu	Great Wall Broadband
		Broadcasting Broadband
		China Telecom
		China Education Network
		China Unicom
		China Mobile
	Dazhou City	China Telecom
		China Unicom
		China Mobile
	Deyang City	China Telecom
		China Unicom
		China Mobile
	Ganzi Prefecture	China Telecom
		China Mobile
	Guang'an City	China Telecom
		China Unicom
		China Tietong
		China Mobile
	Guangyuan City	China Telecom
	Leshan City	China Telecom
		China Unicom
		China Mobile
	Liangshan Prefecture	China Telecom
		China Mobile
	Meishan City	China Telecom
		China Unicom
China Mobile		
Mianyang City	China Telecom	
	China Unicom	
	China Mobile	
Nanchong City	China Telecom	

		China Unicom
		China Mobile
	Neijiang City	China Telecom
		China Unicom
		China Mobile
	Panzhihua City	China Telecom
		China Unicom
		China Mobile
	Suining City	China Telecom
		China Unicom
		China Mobile
	Ya'an City	China Telecom
		China Unicom
		China Mobile
	Yibin City	China Telecom
		China Unicom
		China Mobile
	Ziyang City	China Telecom
		China Mobile
	Zigong City	China Telecom
		China Unicom
		China Mobile
	Luzhou City	China Telecom
		China Unicom
		China Mobile
Guizhou	Anshun City	China Telecom
		China Mobile
	Bijie Prefecture	China Telecom
		China Unicom
		China Mobile
	Guiyang city	Great Wall Broadband
		China Telecom
		China Unicom
China Mobile		
Guizhou	China Telecom	

		China Unicom
		China Mobile
	Liupanshui City	China Telecom
		China Mobile
	Qiandongnan Prefecture	China Telecom
		China Unicom
		China Mobile
	Qiannan Prefecture	China Telecom
		China Unicom
		China Mobile
	Qianxinan Prefecture	China Telecom
		China Unicom
		China Mobile
	Tongren Region	China Telecom
		China Unicom
		China Mobile
	Zunyi City	Great Wall Broadband
		China Telecom
		China Unicom
		China Mobile
Yunnan	Baoshan City	China Telecom
		China Mobile
	Chuxiong Prefecture	China Telecom
		China Mobile
	Dali Prefecture	China Telecom
		China Mobile
	Dehong Prefecture	China Telecom
		China Mobile
	Diqing	China Telecom
		China Unicom
		China Mobile
	Honghe Prefecture	China Telecom
		China Unicom
		China Mobile
	Kunming City	Great Wall Broadband

		China Telecom
		China Unicom
		China Mobile
	Lijiang City	China Telecom
	Lijiang City	China Unicom
	Lijiang City	China Mobile
	Lincang City	China Telecom
	Lincang City	China Mobile
	Pu'er City	China Telecom
	Qujing City	China Telecom
	Qujing City	China Unicom
	Qujing City	China Mobile
	Wenshan Prefecture	China Telecom
	Wenshan Prefecture	China Mobile
	Xishuangbanna	China Telecom
	Xishuangbanna	China Unicom
	Xishuangbanna	China Mobile
	Yuxi City	China Telecom
	Yuxi City	China Unicom
	Yuxi City	China Mobile
	Zhaotong City	China Telecom
	Zhaotong City	China Mobile
Xizang	Changdu Area	China Telecom
		China Mobile
	Lhasa City	China Telecom
		China Unicom
		China Mobile
	Nyingchi Prefecture	China Telecom
		China Unicom
Nagqu Prefecture	China Telecom	
Shigatse Prefecture	China Telecom	
Shannan Prefecture	China Telecom	
Shaanxi	Ankang City	China Telecom
		China Unicom
		China Mobile

	Baoji City	China Telecom
		China Unicom
		China Mobile
	Hanzhong City	China Telecom
		China Mobile
	Shangluo City	China Telecom
		China Unicom
		China Mobile
	Tongchuan City	China Telecom
	Weinan City	China Telecom
		China Unicom
		China Mobile
	Xi'an municipal	China Telecom
		China Unicom
		China Mobile
	Xianyang City	China Telecom
		China Unicom
		China Mobile
Yan'an City	China Telecom	
	China Unicom	
	China Mobile	
Yulin City	China Telecom	
	China Mobile	
Gansu	Baiyin City	China Telecom
	Dingxi City	China Telecom
	Jinchang City	China Telecom
	Jiuquan City	China Telecom
		China Unicom
	Lanzhou City	China Telecom
		China Unicom
		China Mobile
	Linxia	China Telecom
Longnan City	China Telecom	
	China Unicom	
	China Mobile	

	Pingliang City	China Telecom
		China Mobile
	Qingyang City	China Telecom
		China Mobile
	Tianshui City	China Telecom
China Mobile		
Zhangye City	China Telecom	
Qinghai	Golog	China Telecom
	Haibei Prefecture	China Unicom
		China Mobile
	Haidong Prefecture	China Telecom
		China Unicom
		China Mobile
	Hainan Prefecture	China Telecom
		China Unicom
		China Mobile
	Haixi Prefecture	China Telecom
		China Mobile
	Huangnan Prefecture	China Mobile
		China Telecom
		China Unicom
	Xining City	China Telecom
China Unicom		
China Mobile		
Yushu	China Telecom	
	China Unicom	
	China Mobile	
Ningxia	Guyuan City	China Telecom
		China Mobile
	Shizuishan City	China Telecom
		China Unicom
		China Mobile
	Wuzhong City	China Telecom
		China Mobile
	Yinchuan City	China Telecom
		China Unicom
China Mobile		

		China Telecom
	Zhongwei City	China Unicom
		China Mobile
Xinjiang	Aksu Prefecture	China Telecom
		China Mobile
	Altay Prefecture	China Telecom
	Bayingolin	China Telecom
	Bortala	China Telecom
		China Unicom
	Changji	China Telecom
	Hami Prefecture	China Telecom
	Hotan	China Telecom
		China Unicom
		China Mobile
	Kashi	China Telecom
		China Mobile
	Karamay	China Telecom
		China Mobile
	Shihezi	China Telecom
		China Mobile
	Tacheng	China Telecom
	Urumqi City	China Telecom
		China Unicom
China Mobile		
Ili	China Telecom	

Mobile Terminal on Chinese Mainland

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CAT can obtain users' page performance duration and network information under different ISP environments and display the top five slowest ISPs in overall performance. The following are the CAT test points supported for monitoring in Chinese mainland mobile terminal cities.

Note:

Subject to network planning factors such as carriers, there may be sudden removals of monitoring points. Therefore, we cannot guarantee continuous service from all probing points. The following probing points are for reference only. It is advisable to select multiple probing points when configuring the task. If you have any questions, welcome [to contact us](#).

Provincial Administrative Region	City	Carrier
Beijing	Beijing	China Telecom 3G
		China Telecom 4G
		China Telecom WIFI
		CUCC 3G
		CUCC 4G
		CMCC 3G
		CMCC 4G
Tianjin	Tianjin	China Telecom 4G
		CUCC 3G
		CUCC 4G
		CMCC 4G
Hebei	Baoding City	China Telecom 4G
		CUCC 4G
		CMCC 4G
	Chengde City	CMCC 4G
	Hengshui City	CUCC WIFI
	Langfang City	CUCC 4G
		CMCC 4G
	Qinhuangdao City	CMCC 4G
	Shijiazhuang City	China Telecom 3G
		China Telecom 4G
		CUCC 3G
CUCC 4G		
CMCC 2.5G		
CMCC 3G		
CMCC 4G		

	Tangshan City	China Telecom 4G
		CMCC 4G
	Zhangjiakou City	China Telecom 4G
		CUCC 4G
Shanxi	Taiyuan City	CMCC 4G
		China Telecom 3G
		China Telecom 4G
		CUCC 3G
		CUCC 4G
		CUCC WIFI
	Yangquan City	CMCC 3G
		CMCC 4G
	Yuncheng City	China Telecom 4G
		CUCC WIFI
Inner Mongolia	Hohhot City	CMCC 4G
		China Telecom 3G
		China Telecom 4G
		China Telecom WIFI
		CUCC 3G
		CUCC 4G
Liaoning	Dalian City	CMCC 4G
		CUCC 4G
		China Telecom 4G
	Shenyang City	China Telecom 3G
		China Telecom 4G
		CUCC 3G
Jilin	Changchun City	CUCC 4G
		CMCC 4G
		China Telecom WIFI
		China Telecom 4G
	Yanbian	CTCC 3G
		China Telecom WIFI

Heilongjiang	Harbin City	China Telecom 4G
		CUCC 3G
		CUCC 4G
		CMCC 4G
	Hegang City	China Telecom 4G
	Mudanjiang City	China Telecom 4G
		CMCC 4G
Shanghai	Shanghai	Great Wall Broadband
		China Telecom 3G
		China Telecom 4G
		CUCC 3G
		CUCC 4G
		CUCC WIFI
		CMCC 3G
		CMCC 4G
Jiangsu	Changzhou City	China Telecom 4G
		CUCC 4G
		CMCC 4G
		CMCC WIFI
	Nanjing	CTCC 2.5G
		China Telecom 4G
		China Telecom WIFI
		CUCC 3G
		CUCC 4G
		CMCC 3G
		CMCC 4G
		CMCC WIFI
	Suzhou	China Telecom 4G
		China Telecom WIFI
		CUCC 4G
		CMCC 4G
	Wuxi City	China Telecom 4G
		CUCC 4G
		CMCC 4G
	Yancheng City	China Telecom 4G

		China Telecom WIFI
		CMCC 4G
	Zhenjiang City	China Telecom 4G
		CUCC 4G
		CMCC 4G
Zhejiang	Hangzhou city	China Telecom 4G
		China Telecom WIFI
		CUCC 3G
		CUCC 4G
		CMCC 3G
		CMCC 4G
		CMCC WIFI
	Jiaxing City	China Telecom 4G
		China Telecom WIFI
		CUCC 4G
		CMCC 4G
	Jinhua city	China Telecom 4G
		China Telecom WIFI
	Ningbo City	China Telecom 4G
		China Telecom WIFI
		CUCC 4G
		CMCC 4G
	Shaoxing city	CMCC 4G
	Taizhou	China Telecom 4G
	Wenzhou city	China Telecom 4G
		China Telecom WIFI
CUCC 4G		
CMCC 4G		
Anhui	Hefei City	CTCC 2.5G
		China Telecom 3G
		China Telecom 4G
		CUCC 3G
		CUCC 4G
		CMCC 3G
		CMCC 4G

	Huaibei City	China Telecom WIFI
	Ma'anshan City	CMCC 4G
	Bozhou City	China Telecom 4G
Fujian	Fuzhou City	China Telecom 3G
		China Telecom 4G
		China Telecom WIFI
		CUCC 3G
		CUCC 4G
		CMCC 4G
		CMCC WIFI
	Nanping City	China Telecom 4G
	Ningde City	CMCC 4G
	Quanzhou City	CUCC 4G
	Sanming City	China Telecom WIFI
		CMCC WIFI
	Xiamen City	China Telecom 4G
		China Telecom WIFI
CUCC 4G		
CMCC 4G		
Jiangxi	Ganzhou City	China Telecom 4G
		CUCC 4G
		CMCC 4G
	Jingdezhen City	CUCC 4G
	Jiujiang City	China Telecom 4G
	Nanchang City	CTCC 2.5G
		China Telecom 3G
		China Telecom 4G
		China Telecom WIFI
		CUCC 3G
		CUCC 4G
		CMCC 4G
	Xinyu City	China Telecom 4G
		China Telecom WIFI
CUCC 4G		
CMCC 4G		

Shandong	Dongying City	CMCC 4G
	Jinan City	China Telecom 4G
		China Telecom WIFI
		CUCC 3G
		CUCC 4G
		CMCC 4G
	Jining City	China Telecom 4G
	Linyi City	CMCC WIFI
	Qingdao City	China Telecom 4G
		CUCC 4G
		CMCC 4G
	Rizhao City	CMCC 4G
	Tai'an City	CMCC 4G
	Weifang City	China Telecom 4G
		CUCC 4G
		CMCC 4G
	Yantai City	China Telecom 4G
CUCC 4G		
CMCC 4G		
Zaozhuang City	CUCC WIFI	
Zibo City	China Telecom WIFI	
Henan	Jiaozuo City	CMCC 4G
	Kaifeng City	China Telecom 4G
		CUCC 4G
		CMCC 4G
	Luoyang City	CUCC 4G
		CMCC 4G
		CMCC WIFI
	Pingdingshan City	CUCC WIFI
	Xinxiang City	CUCC 4G
	Zhengzhou City	CTCC 2.5G
China Telecom 3G		
China Telecom 4G		
CUCC 3G		
CUCC 4G		

		CUCC WIFI
		CMCC 3G
		CMCC 4G
		CMCC WIFI
Hubei	Huanggang City	CUCC 4G
	Wuhan City	China Telecom 4G
		CUCC 3G
		CUCC 4G
		CMCC 3G
		CMCC 4G
	Xianning City	CUCC 4G
		CMCC 4G
		CMCC WIFI
Hu'nan	Changsha city	China Telecom 4G
		CUCC 3G
		CUCC 4G
		CMCC 3G
		CMCC 4G
	Shaoyang city	China Telecom WIFI
		CMCC 4G
	Yueyang city	CMCC 4G
	Guangdong	Dongguan City
CUCC WIFI		
CMCC 4G		
Foshan City		China Telecom 4G
		CUCC 4G
		CMCC 4G
Guangzhou		CTCC 2.5G
		China Telecom 4G
		China Telecom WIFI
		CUCC 3G
		CUCC 4G
		CUCC WIFI
		CMCC 3G
CMCC 4G		

	Huizhou	China Telecom 4G
		CUCC 4G
		CMCC 4G
	Jiangmen	China Telecom WIFI
		CMCC 4G
	Maoming	China Telecom 4G
		China Telecom WIFI
		CUCC 4G
		CMCC 4G
	Meizhou	CMCC 4G
		CMCC WIFI
	Qingyuan	China Telecom 4G
		CMCC 4G
	Shaoguan	China Telecom 4G
		CMCC 4G
	Shenzhen city	China Telecom 4G
		China Telecom WIFI
		CUCC 3G
		CUCC 4G
		CMCC 3G
	Yunfu City	CMCC 4G
		China Telecom 4G
	Zhanjiang City	CMCC WIFI
Zhaoqing City	China Telecom 4G	
	CUCC 4G	
Zhongshan City	China Telecom WIFI	
	CMCC 4G	
Guangxi	Beihai City	China Telecom 4G
	Guilin City	CMCC 4G
	Guigang City	China Telecom 4G
	Liuzhou City	China Telecom 4G
		CUCC 4G
		CMCC 4G
	Nanning City	China Telecom 4G
China Telecom WIFI		

		CUCC 3G
		CUCC 4G
		CMCC 3G
		CMCC 4G
	Qinzhou City	China Telecom WIFI
	Yulin City	China Telecom 4G
		China Telecom WIFI
		CUCC 4G
CMCC 4G		
Hainan	Haikou City	China Telecom 3G
		China Telecom 4G
		China Telecom WIFI
		CUCC 3G
		CUCC 4G
		CMCC 4G
Chongqing	Chongqing City	CTCC 2.5G
		China Telecom 4G
		China Telecom WIFI
		CUCC 3G
		CUCC 4G
		CMCC 3G
		CMCC 4G
Sichuan	Chengdu	China Telecom 3G
		China Telecom 4G
		China Telecom WIFI
		CUCC
		CUCC 3G
		CUCC 4G
		CMCC 3G
		CMCC 4G
		CMCC WIFI
	Dazhou City	China Telecom 4G
		CMCC 4G
	Deyang City	China Telecom 4G
		China Telecom WIFI

		CMCC 4G
		CMCC WIFI
	Leshan City	China Telecom 4G
	Liangshan Prefecture	CMCC 4G
	Meishan City	China Telecom 4G
		CUCC 4G
		CMCC 4G
	Mianyang City	China Telecom 4G
		China Telecom WIFI
		CMCC 4G
		CMCC WIFI
	Nanchong	China Telecom 4G
		CUCC WIFI
		CMCC 4G
	Panzhuhua	China Telecom WIFI
	Ziyang City	CTCC 2.5G
		China Telecom 4G
	Zigong City	China Telecom WIFI
Guizhou	Guiyang city	China Telecom 4G
		CUCC 4G
		CMCC 4G
Yunnan	Kunming City	China Telecom 3G
		China Telecom 4G
		China Telecom WIFI
		CUCC 3G
		CUCC 4G
		CMCC 3G
		CMCC 4G
Shaanxi	Baoji City	China Telecom 4G
	Hanzhong City	China Telecom WIFI
	Xi'an municipal	China Telecom 4G
		China Telecom WIFI
		CUCC 3G
		CUCC 4G
		CMCC 3G

		CMCC 4G
	Yulin City	China Telecom 4G
Gansu	Lanzhou City	China Telecom 4G
		CUCC 4G
		CMCC 4G
	Linxia	CUCC 4G
		CMCC 4G
Qinghai	Xining City	China Telecom 4G
		CUCC 4G
		CMCC 4G
Ningxia	Yinchuan City	China Telecom
		CTCC 2.5G
		China Telecom 4G
		China Telecom WIFI
		CUCC 4G
		CMCC 4G
Xinjiang	Urumqi City	China Telecom 4G
		CUCC 3G
		CUCC 4G
		CMCC 4G

IDC in Hong Kong (China), Macao (China) and Taiwan (China)

Last updated: 2025-07-24 15:56:54

CAT can obtain the page performance duration and network information of users under different ISP environments and display the top five slowest ISPs in overall performance. The following are the CAT monitoring points supported by IDCs in Hong Kong (China), Macao (China), and Taiwan (China).

Note:

Subject to network planning factors such as operators, there may be situations where monitoring points are suddenly removed. Therefore, we cannot guarantee that all probe points will continuously provide services. The following monitoring points are for reference only. It is advisable to use multiple probe points when configuring tasks. If you have any questions, [contact us](#).

Provincial Administrative Region	City	Carrier
Hong Kong (China)	Hong Kong Special Administrative Region	Hong Kong (China)_HGC
		Hong Kong (China)_PCCWlimited
		Hong Kong (China)_CityTelecom
		China Telecom
		Hong Kong (China)_i-cablecomm
		Hong Kong (China)_HutchisonTelecom
Taiwan (China)	Taipei City	twmbroadband.com
Macao (China)	Macao (China)	China Telecom

Delivering in Hong Kong (China), Macao (China) and Taiwan (China) LastMile

Last updated: 2025-07-24 16:07:12

CAT can obtain the page performance duration and network information under different ISP environments and display the top five slowest ISPs. The following are the supported monitoring points for CAT LastMile in various cities across Hong Kong (China), Macao (China), and Taiwan (China).

Note:

Subject to network planning factors such as operators, there may be situations where probing points are suddenly removed. Therefore, we cannot guarantee that all probing points will continuously provide services. The following probing points are for reference only. It is advisable to use multiple probing points when configuring the task. If you have any questions, welcome [contact us](#).

Provincial Administrative Region	City	Carrier
Hong Kong (China)	Hong Kong Special Administrative Region (HKSAR)	Hong Kong (China) – PCCW Limited
		Hong Kong Broadband
Taiwan (China)	Taipei City	Taiwan (China) Chunghwa Telecom
		Taiwan (China) FarEasTone
		Asia Pacific Telecom
	Taizhong City	Taiwan (China) Chunghwa Telecom
Taiwan (China) FarEasTone		
Macao (China)	Macao (China)	Macao (China)_CTM

Overseas IDC

Last updated: 2025-07-24 16:07:29

CAT can obtain users' page performance duration and network information under different ISP environments, and display the top five ISPs with the slowest overall performance. The following are the test points supported by CAT in IDC cities outside Chinese mainland.

Note:

Subject to carrier and other network planning factors, there may be situations where monitoring points are suddenly removed. Therefore, we cannot guarantee continuous service provision from all probing points. The following probing points are for reference only. It is advisable to choose multiple probing points when configuring the task. If you have any questions, [contact us](#).

Country	City	Carrier
Argentina	Buenos Aires	Argentina_Telecom
	Buenos Aires	gigared.com.ar
United Arab Emirates	Dubai	aeserver.com
Egypt	Cairo	citynethost.com
Australia	Sydney	Australia_Telstra
Pakistan	Islamabad	multinet.com.pk
Brazil	Brasilia	Brasil_Telecom
	Rio de Janeiro	Brasil_Veloxzone
	São Paulo	Brasil_Terremark
psychz.net		
Bolivia	La Paz	comteco.com.bo
Poland	Poland	Poland_Vectra
Germany	Frankfurt	Germany_DeutscheTelekom
		retn.net
Russia	Moscow	Russia_Synterra
		retn.net
	St. Petersburg	Russia_MoscowSTComm
	Yekaterinburg	netangels.ru
France	Paris	France_Sfr
Philippines	Manila	Philippines_Convergeict
		Philippines_GlobeTelecom
		Web.ph.Inc
Colombia	Bogota	gtdcolombia.com
Costa Rica	San Jose	racsa.co.cr

Korea	Seoul	gcore.lu
		Korea_Kornet
Canada	Toronto	Canada_Bell
Ghana	Accra	web4africa.com
Cambodia	Phnom Penh	Cambodia's_Telecom
Czech	Prague	upc.cz
Kenya	Nairobi	web4africa.com
Lombardy	Milan	Italia_Telecom
Malaysia	Kuala Lumpur	Malaysia_TMtelekom
		furcop.com
United States	Los Angeles	America_Corporate
	New York	US_nLayer
	Atlanta	US_Verizon
Bangladesh	Dhaka	XeonBD
Peru	Lima	ipxon.com
Mexico	Mexico City	host1plus.com
South Africa	Johannesburg	SouthAfrica_MWeb
		psychz.net
Nigeria and Canary Islands	Abuja and Las Palmas	web4africa.com
Japan	Tokyo	Japan_NTT
Sweden	Stockholm	Sweden_Telia
Thailand	Bangkok	Thailand_3BBBroadband
Türkiye	Istanbul	Turkey_Radore
Uruguay	Montevideo	antel.com.uy
Ukraine	Kyiv	Portugal_NOVISTelecom
Spain	Madrid	Spain_Telefonica
Greece	Athens	aweb.gr
Singapore	Singapore City	Singapore_SingNet
		Singapore_SingTel
Hungary	Budapest	Deninet_KFT
India	Bangalore	Digital Ocean
	New Delhi	Choopa
	Mumbai	Choopa
THE_CONSTANT_COMPANY		
Indonesia	Jakarta	Indonesia_PT_Telkom

		rajasa.co.id
		Indonesia_Telkomsel
		Argon Data Communication
	Surabaya	Natanetwork
	Medan	Indosat
UK	London	Italia_Bt
		Italia_BT
Vietnam	Ho Chi Minh City	Vietnam_Viettel
Chile	Viña del Mar	edis.at
	Santiago	Spain_TelefonicaInternational

Error Code Description

Port Performance Task Error Code

Last updated: 2025-07-24 16:08:19

This article introduces the error codes and corresponding error descriptions of the CAT port performance task. The Top5 error type counts in multi-dimensional analysis will be calculated based on the following error codes.

Error Codes	Brief description	Explanation
600	DNS resolution failure	When network problems occur, the DNS server is incorrect, or the domain name is incorrect, this error code is thrown.
601	failed to connect to server	Currently, our protocol monitoring only supports protocols based on TCP. This error occurs when the connection to the server times out after creating a SOCKET. The timeout period is configured in the task configuration.
602	Failed to send network data.	Network disconnection
603	No response after connecting to server	After we send a request, if no data is received or a data reception timeout occurs, the client will report this error.
604	Task execution timeout.	Protocol testing supports sending protocol packets to a remote server multiple times. This error occurs when the overall time for sending one protocol packet exceeds the user-configured time limit. The time limit can be freely configured on the platform.
605	Invalid data in task configuration sending	Protocol testing currently supports two methods: sending text and buffering. Therefore, if the user configures to send text, it is directly sent without conversion. However, if the user configures to send buffered, the client first converts the text into a 16-base buffer for processing. If an error occurs during conversion, this error code is reported.
606	Invalid verification data in task configuration	Protocol testing verifies the content returned by the server. This verification supports the following four types: no verification, exact match, contains, and md5 (if the server returns large content, use md5 code for verification). When the user-configured verification content is buffered, it must also be converted into a 16-base buffer in the program for verification. If the conversion fails, this error code is reported.
607	Validation keyword failed	The returned data from the server does not contain the validation keyword.
608	SSL handshake failure	Port error, Network disconnection
609	Step task timeout.	In a multi-step protocol task, if a step task times out, it will not proceed with subsequent steps and will report this error.

Network Quality Task Error Code

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This article introduces the error codes and corresponding error descriptions for Cloud Automated Testing (CAT) network quality tasks. The Top5 error type counts in multi-dimensional analysis will be calculated based on the following error codes.

Error Codes	Overview	Description
601	Ping test cannot find host	Ping test requires DNS resolution first, converting the domain name to be pinged into an IP address, then sending an ICMP packet. If an error occurs during domain name resolution, this error code is reported.
602	Tracert exceeds maximum hop limit	Tracert test has a limited number of hops, with a default upper limit of 30 hops. If the user configures a hop limit that is less than 30, the user configuration is adopted. Therefore, when the Tracert of a certain IP exceeds this limit, this error code is reported.
603	Network environment testing timeout	This error code is applicable to three test types: DNS resolution, Ping, and Tracert.
605	Tracert host unreachable	If the Tracert operation times out overall and the first five hops' data is available, the test result is considered as the host being unreachable.
606	CNAME resolution failed	CNAME resolution failed during the DNS resolution process.
608	Local DNS Server not found	If the local system is unable to obtain the DNS Server Address, this error code will be reported.
609	All NS server resolution requests failed	DNS resolution has several NS servers available for parsing. The client first obtains the list of all NS servers, then attempts resolution sequentially. If any one returns DNS records successfully, it is deemed as DNS resolution success. If all NS server resolution requests fail, this error is reported.
610	Unable to resolve NS root servers	During the iteration process, the 13 NS root servers of the international domain name system are required. If these 13 root NS servers cannot be resolved, the iteration process cannot commence.
611	Unable to resolve intermediate NS server	During the iteration process, NS servers for each domain must be resolved from top to bottom. If the NS server resolution fails for any domain, the iteration process fails.
612	The domain name does not exist	The NS server returned an error code to notify the local server that the domain does not exist.
613	The NS returned other errors.	The NS server returned other error codes.
614	Failed to send request.	All echo requests failed.
615	Request return: Target network is unreachable.	All echo requests return: Network is unreachable.

616	Request return: Protocol is unreachable.	All echo requests return: Protocol is unreachable.
617	Request return: Port is unreachable.	All echo requests return: Port is unreachable.
618	The package is too large and needs to be subcontracted.	All echo requests return: Subcontracting is required.
619	Request timeout	All echo requests timed out.
620	Transmission TTL timeout	All echo requests timed out during transmission.
621	Packet reassemble TTL timeout	All echo requests timed out during packet reassembly.
622	Destination address invalid	All echo requests return an invalid destination address.
623	Invalid address	Input task address invalid.
624	Invalid custom NS server address	Need to check whether the custom NS server is correct. The NS server can be an IP or a domain name.
625	Server rejection to connection	When performing a TCP Ping, this error code is reported because the corresponding port on the server is not open.

File Transfer Task Error Codes

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This article introduces the error codes and corresponding error descriptions of cloud probing file transfer tasks. The Top5 error type counts in multi-dimensional analysis will be calculated based on the following error codes.

Error Codes	Overview	Description
600	DNS resolution failure	This error code is reported when network issues occur, the DNS server is incorrect, or the domain name is incorrect.
601	failed to connect to server	Download test supports both HTTP and FTP protocols. This error code is reported when the connection service times out or encounters an error.
602	Server denies login	FTP download fails if the server does not return a 230 response code after the client sends the username and password.
603	The server does not support the requested protocol.	This error code is reported when the user configures a URL with a non-HTTP or non-FTP protocol.
604	The server does not support PASV Mode.	The FTP server does not support passive mode. Currently, CAT's FTP download only supports passive mode.
605	Redirect failure	Before downloading with Cloud Dial Test, it checks whether the URL in the task configuration has a redirect. If a redirect exists, it first resolves the final target address, then enables download threads (if multi-threaded, enables multiple download threads) to execute the download. This error code indicates that an error occurred while checking for redirects in the target URL, and this error is not an HTTP error (if it were an HTTP error, the corresponding HTTP error code would be reported). Instead, it is a TCP-layer error, mostly caused by DNS resolution or TCP connection failure.
606	Address is invalid	Invalid or illegal URL. Check whether the configured URL is correct.
607	protocol is invalid	For example: For URL <code>http://www.baidu.com/</code> , the transport protocol is HTTP. If the transfer task does not support the HTTP protocol type, this error code will be reported.
608	Unexpected termination of server connection	Connection to the server was terminated.
609	Connection to the server was reset.	Issue related to connection with the local ISP, which may occur under poor connection link and rate conditions.
610	SSL certificate expiration	For Websites based on the HTTPS protocol, an SSL security certificate needs to be installed during access. This error code is reported when the certificate expires. System error code: 12037.
611	Incorrect domain name in the certificate	The domain name field in the SSL certificate is illegal. For example: When visiting the <code>www.123.com</code> website, but the certificate's domain name field for this website is <code>www.124.com</code> , an error will be reported at this time. System error code: 12038.
612	Client certificate is required.	The server requires the client to install an SSL security certificate. System error code: 12044.
613	Request sending timeout	This error code is reported when no data is returned after the client sends requests to the server.
614	File does not exist	The FTP server does not have this file.
615	Failed to open the file.	Failed to open the FTP server file.

616	Failed to search for the file.	Failed to search for the FTP server file.
617	Failed to set the working path.	Error occurs when setting the working path for upload or download tasks.
618	Incorrect password	Incorrect login password. Please check whether there is an error in the password.
619	Incorrect Username	Incorrect login username. Please check whether there is an error in the username.
620	Operation not completed	The operation was not completed because the session between servers was terminated.
621	File upload failed	File upload failed due to some reason.
622	Failed to log in to the server	Request to log in to the FTP server failed.
623	Invalid certificate authority	The SSL certificate used by the server is not issued by a valid CA. System error code: 12045.
624	SSL certificate error	System error code: 12055.
625	Invalid SSL certificate	System error code: 12169.
626	Transmission redirected	User-configured transfer tasks disable redirection. At this point, if redirection occurs, this error code will be reported.
627	Verify string failure	After successful download, if the configured string is not found in the response header, this error code will be reported.
628	Illegal response data	The server response data cannot be parsed.
629	Incomplete download	When the response header contains the Content-Length field, the actual download size is compared with both the Content-Length and the set download size. If it is less than either value, this error code is reported. When the response header does not contain the Content-Length field, meaning the actual file size cannot be obtained, only the set download size is compared. If it is less than this value, this error code is reported.
630	Download Timeout	Download Timeout and Incomplete Download
631	Error occurs when converting HTTP to HTTPS protocol	Possible scenario: The machine running Server 2012 may fail when redirecting from HTTP to HTTPS due to security mechanisms, and this error code will be reported.
632	MD5 verification failed	The MD5 calculated after download completion does not match the MD5 in the task configuration.
633	Redirect failure	The number of redirects might be above the system default of 10, causing the system to stop redirection and report a redirection failure error code.
634	SSL algorithm mismatch	Possibly due to fewer SSL protocol versions selected or the XP system version not supporting the latest SSL protocol, leading to algorithm mismatch between client and server.
635	Redirection requires user confirmation	Corresponding to Wininet's ERROR_HTTP_REDIRECT_NEEDS_CONFIRMATION (12168) error code, redirection requires user confirmation.
636	Timeout, server response not received	After successfully uploading a file of the specified size through HTTP protocol, the monitoring time is reached but no response from the server is received.
637	Failed to request data	Targeting HTTP protocol, successful connection but no request data sent.
638	SSL handshake failure	Targeting HTTPS protocol, the vast majority might be SSL handshake failure causing no request data sent, however it might also be SSL handshake succeeded but no error reported and no request data sent.

639	SSL certificate not revoked	System error code: 12056.
640	SSL certificate revoked	System error code: 12170.
641	Client authorization is not set on this computer.	System error code: 12046.
642	Requested resources require Fortezza Authentication.	System error code: 12054.
643	Function failure due to security check.	System error code: 12171.
644	SSL content is not fully secure.	System error code: 12041.
645	SSL certificate revoked	System error code: 12057.
646	SSL load SSL Libraries error	System error code: 12157.
647	SSL connection failed	Curl system error code: 35.
648	The SSL certificate of the remote server is incorrect.	Curl system error code: 51.
649	Specified SSL encryption engine not found	Curl system error code: 53.
650	Unable to set the selected SSL encryption engine as the default option.	Curl system error code: 54.
651	There is a problem with the Local Client Certificate.	Curl system error code: 58.
652	The specified key cannot be used	Curl system error code: 59.
653	The known CA certificate cannot be used to authenticate the peer certificate.	Curl system error code: 60.
654	Transfer encoding cannot be recognized	Curl system error code: 61.
655	FTP request SSL level failed	Curl system error code: 64.
656	SSL engine initialization failed	Curl system error code: 66.
657	Encounter problems when reading the SSL CA Certificate (might be a path error)	Curl system error code: 77.
658	Unable to terminate SSL connection	Curl system error code: 80.
659	Cannot load certificate revocation list	Curl system error code: 82.

660	Certificate revocation check failed	Curl system error code: 83.
661	Mismatched key	Curl system error code: 90.
662	Invalid certificate authority	Curl system error code: 91.
663	CURL internal error code, check logs for localization	-
664	CURL encounters an error when receiving network data.	curl system error code: 56.
665	The specified uploaded file is invalid.	Cannot be downloaded or the MD5 check of the downloaded content fails.
720	Failed to obtain the target IP.	Transfer task failed to obtain the target IP or failed to retrieve the redirection IP list.
721	Temporarily unknown network error	Occurrence of temporarily unknown system error code.
722	Transfer task DNS resolution time is too long	Transfer task DNS resolution time is greater than 20s.
723	Response header received but download size or download time not obtained	In the case where the response header is obtained, the download size or download time is not obtained.

Page Performance Task Error Code

Last updated: 2025-07-24 16:09:02

This article introduces the error codes and corresponding error descriptions of the page performance task in CAT. The Top5 error type counts in multi-dimensional analysis will be calculated based on the following error codes.

Error Code	Description	Description
300	HTTP/1.1 300 Multiple Choices	-
301	HTTP/1.1 301 Moved Permanently	-
303	HTTP/1.1 303 See Other	-
305	HTTP/1.1 305 Use Proxy	-
400	HTTP/1.1 400 Bad Request	-
401	HTTP/1.1 401 Unauthorized	-
402	HTTP/1.1 402 Payment Required	-
403	HTTP/1.1 403 Forbidden	-
404	HTTP/1.1 404 Not Found	-
405	HTTP/1.1 405 Method Not Allowed	-
406	HTTP/1.1 406 Not Acceptable	-
407	HTTP/1.1 407 Proxy Authentication Required	-
408	HTTP/1.1 408 Request Time-out	-
409	HTTP/1.1 409 Conflict	-
410	HTTP/1.1 410 Gone	-
411	HTTP/1.1 411 Length Required	-
412	HTTP/1.1 412 Precondition Failed	-
413	HTTP/1.1 413 Request Entity Too Large	-
414	HTTP/1.1 414 Request-URI Too Large	-
415	HTTP/1.1 415 Unsupported Media Type	-
416	HTTP/1.1 416 Requested range not satisfiable	-
417	HTTP/1.1 417 Expectation Failed	-
500	HTTP/1.1 500 Internal Server Error	-
501	HTTP/1.1 501 Not Implemented	-
502	HTTP/1.1 502 Bad Gateway	-
503	HTTP/1.1 503 Service Unavailable	-
504	HTTP/1.1 504 Gateway Time-out	-
505	HTTP/1.1 505 http version not supported	-

601	DNS resolution failure	Network issues, incorrect DNS server, or incorrect domain name will report this error code.
602	failed to connect to server	A network issue occurs or the server does not work properly, this error code will be reported.
603	The server does not support the requested protocol.	For example, for the URL <code>http://www.baidu.com/</code> , the protocol is HTTP. This error occurs if the HTTP protocol in the URL is not supported by the server.
604	Unexpected termination of server connection	Fluctuations in the network or actively canceling the request will report this error code.
605	Connection to the server was reset.	The issue is related to the connection with the local ISP, and such problems occur when the connection link and rate are poor.
606	Redirect failure	A strategy change or all redirection attempts failing will report this error code.
607	URL is invalid	User-configured task URL format does not meet HTTP or HTTPS protocol standards.
617	Unsupported network protocol	View or transaction test only supports HTTP or HTTPS protocol. Other protocols are not supported.
622	Cannot be accessed directly	Direct network access is not allowed at this time.
623	Request suspended.	Since some requests are suspended, this request operation cannot be completed.
624	Move the program from HTTP to HTTPS.	The program is redirecting from a non-HTTPS connection to an HTTPS connection.
625	Move the program from HTTPS to HTTP.	The program is redirecting from an HTTP connection to a non-HTTPS connection.
626	HTTP header not found	Generally caused by issues in the writing format of the configured custom Header.
627	The server returned no headers.	None.
628	Illegal response data	The server's response data cannot be parsed.
629	The HTTP header is illegal.	Generally caused by issues in the writing format of the configured custom Header.
630	Invalid request parameter	The handle parameter transmitted to HTTPQueryInfo is illegal.
631	HTTP header already exists, cannot be added	None.
632	HTTP request has no redirection	None.
633	HTTP Cookie needs to be confirmed	None.
634	HTTP Cookie is rejected by the server	None.
635	Redirect requires user confirmation	None.
636	Secure channel error	An internal error occurred while loading the SSL library. System error code: 12157.
637	The program cannot cache the file.	None.
638	Server unreachable	None.
639	Proxy server unreachable	None.

640	Operation canceled	Operation not completed, handle canceled.
641	Element operation terminated	Invalid IE kernel internal operation. The specific manifestation is that the kernel has established a session for downloading this element and allocated resources such as handles and context IDs, but it directly closed the session (InternetCloseHandle) without establishing a Socket connection.
642	Element sent request but did not receive response	Sent a request but did not receive any response data. The specific manifestation is that after the browser sent the request (clearly received the sending completion event), no data was returned by the Server.
643	Element data not fully received	Element received abnormal response data. The specific manifestation is that the received data packet cannot form a complete HTTP response header or the data packet consists of abnormal data, but there exists a moment when "the first packet data is received" in such cases.
645	Redirected connection reset	Reset reason refers to error code 605.
646	Rendering timeout after redirection	This error occurs if none of the first five elements start downloading the basic document element after redirection.
647	Download of the base document timed out	This error occurs if none of the first five elements start downloading the basic document element and no redirection action has occurred previously.
648	First screen rendering timeout	The basic document element loaded but did not render to a height of 400.
649	Page elements did not load completely	Until monitoring timeout, the page elements still did not load completely.
650	Verify string failed	If the configured string is not found in the page source code, base document URL, or page Title, this error will be reported.
651	The page has been redirected.	This error occurs when the user configuration prohibits redirection but the page actually redirects.
655	Connection timeout	Generally caused by network factors.
656	Request sending timeout	Generally caused by network factors.
657	Server response timeout	Generally caused by network factors.
658	Data reception timeout	Generally caused by network factors.
659	DNS resolution failure	Network issues, incorrect DNS server, or incorrect domain name will report this error code.
660	Element download timeout	Element loading process exceeds the overall page timeout configuration.
662	Key element not downloaded	If using key element judgment for page loading completion and the key element download is never detected, this error will be reported.
664	Certificate contains error	The SSL Certificate contains an error. System error code: 12055.
670	SSL connection failure, mainly referring to certificate error.	Determine based on the result.
671	The domain field in the SSL Certificate is illegal.	System error code: 12038.
672	SSL Certificate expiration	System error code: 12037.

673	SSL Certificate revoked	System error code: 12057.
674	Server requires client installation of SSL security certificate	System error code: 12044.
675	SSL Certificate not revoked	System error code: 12056.
676	SSL Certificate revoked	System error code: 12170.
677	Invalid SSL Certificate	System error code: 12169.
678	SSL certificate in use by the server, not issued by an official CA	System error code: 12045.
679	Client authorization is not set on this computer.	System error code: 12046.
680	Requested resources require Fortezza Authentication.	System error code: 12054.
681	Function failure due to security check.	System error code: 12171.
682	SSL content is not fully secure.	SSL download content contains incomplete data. System error code: 12041.
688	Specified window not found.	Specify an action to be executed in a certain window during transactional playback, but no such window is found at this point.
692	Invalid task configuration, no results are returned.	Task configuration does not return any data, generally used for script configuration. When a user does not pay attention to the data of a certain step, this step can be configured to not return any data.
697	No new window is opened.	After performing the view operation, the page has not been opened.
698	Environment fails to satisfy	Before performing the view operation, it first determines whether the local environment meets certain conditions, such as whether the required software is installed.
703	Local browsing environment may be abnormal	Periodically filter the browsing results before returning the test results to the server from the client. If the percentage of 600-segment errors in the uploaded browsing results this time exceeds the alarm value set by the server, all browsing results in this return will be deemed as noise data and this error code will be recorded.
704	No network communication	After browsing is completed, if any network data is detected during data analysis, this error code will be reported.
705	The request was stopped because the correct base document was not obtained.	Browsing Task Basic Document (without disabling redirection) returns 301/302 response codes, but the browser does not redirect and continues the request.
718	The target IP was not obtained.	-
719	First screen time is too large (exception)	If the first screen time is greater than 5 minutes, it is judged as a data anomaly.
720	Error code set for testing cache conditions	During a full-element task in regular browsing using cache, this error code is set on the first attempt to discard the result and redo the task.
721	Browsing task fails to download or execute JS	Task is configured with custom JS and this error code is reported when client-side JS file download or execution fails.

Audio and Video Task Error Codes

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This article introduces the error codes and corresponding error descriptions for CAT audio and video tasks. The Top5 error type counts in multi-dimensional analysis will be calculated based on the following error codes.

Error Codes	Overview	Description
601	DNS resolution failure	This error code is thrown when there are network problems or the domain name is incorrect.
602	failed to connect to server	This error code is thrown when there are network issues or the server is not functioning properly.
605	network exception during receipt	network exception during receipt
660	connection timeout	This error code is thrown due to extremely slow network causing long-term failure to connect to the server.
661	illegal URL	The URL is illegal or invalid. Please check whether the configured URL is correct.
662	unsupported protocol	For the URL: <code>http://www.baidu.com/</code> , its transport protocol is HTTP. If some unsupported protocol types appear in a streaming media task, errors will be reported.
664	resource cannot be found	During page browsing, no video resources were captured.
665	playback failure	Error occurs during streaming media playback.
666	Stream not found	When requesting a video stream from the server, the server informs that there is no video stream.
667	Streaming media timed-out and unplayed	Streaming media timed-out and unplayed
669	First video frame timeout	First video frame timeout, first frame time exceeds the threshold given by the server
671	Video playback interrupted	Video playback interrupted, m3u8 type task, error occurs in the mid-way ts request
700	Severe buffering, playback time is less than 5% of the monitoring duration, and total download size is greater than 5M	-
701	Playback status issue, insufficient data but reported as played	Playback duration is greater than 30s, and the buffered data before this playback is less than 3M, targeting only m3u8 type
702	First buffering time is too long, larger than 5s	First buffering time is larger than 5s and download speed in the first 5s is larger than 100kb/s, data anomalies discarded
703	Consecutive duplicate m3u8 files, no ts	1. Two or more consecutive m3u8 files (if the start time interval between two m3u8 files is greater than or equal to the refresh cycle, it is considered abnormal consecutive occurrence. If the time interval is less than the refresh cycle, the consecutive

		appearance of m3u8 files is normal because the server has not updated the m3u8 files) 2. The start time of the second m3u8 is after the end time of the last ts, and if both conditions are satisfied, it is considered an exception, reporting error 703.
704	Connection failed with IP 0.0.0.0	-
705	Playback time is too long, exceeding the monitoring time, with an allowable error range of 5 seconds	Poor machine performance, for example, a 20-second video took 30 seconds to play
706	Playback time is too long, exceeding the total playback duration that all ts can handle.	-
707	First playback duration is too short, less than the buffer setting duration	-
708	Excessive streaming media buffer times, with more than 3 stutters per minute during test duration	-

Cron Expression Description

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A Quartz Cron Expression is a standard expression widely used to describe date and time information. When the configured Cron Expression in the Integration Flow Scheduler component matches your date and time, the system will automatically trigger the operation of the integration flow.

Cron Expression Structure

CAT Cron expression settings are separated by spaces, with the primary structure and sequence as: minute hour date month week.

Field Description

Field	Valid values
Score	Integer from 0 to 59. CAT currently does not support minute-level settings, and this is always "*".
Hour	Integer from 0 to 23.
Date	Integer from 1 to 31.
Month	1 - 12 integers, CAT currently does not support date settings, here is always "*".
Week	Integer from 1 to 7. 1 represents Monday... 7 represents Sunday.

Special Character Description

Each field uses numbers, and the following special characters may appear. Their meanings are:

- * : Matches any value. When used in a month field, it means the rule is executed on any day of every month.
- ? : Indicates no specified field and can only be used in the date and week fields.
- - : Indicates a matching range. For example, using 10-12 in an hour field means executing once per hour between 10 am and 12 pm.
- , : means listing enumeration values. For example: using 1, 2, 3 in a date field indicates executing once on the 1st, 2nd, and 3rd.

Example

Expression	Meaning
* 8-10 1,2,3 * ?	Execute once per hour from 8:00 to 10:00 on the 1st, 2nd, and 3rd of each month.
* 10-12 * * 1,2	Execute once every hour from 10:00 to 12:00 on Mondays and Tuesdays.
* 9-12 * * ?	Execute once from 9 AM to 12 PM every day.

Migrating Match Rules

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smtp, pop3, and ftp protocol types do not support migration.

Consider the temporal characteristics of monitoring data. Only perform task configuration migration. Legacy Task Data will be retained until June 15, 2022. During this period, you can still view or use API to export data as needed.

Migrating Matching Rules

HTTP,HTTPS

- Migration task type: Port performance
- HTTP migrate to: TCP
- HTTPS migrate to: SSL

Migration Parameter Comparison Table:

Legacy Probing Test Parameter	New Version Probing Test Parameter	Description
probe address	probe address	Only migrate the host and port number.
dial-up cycle	testing frequency	Availability detection defaults to a testing frequency of 5 minutes.
request method	request content	Similar to POST / HTTP/1.1
HOST	request content	-
Cookie	request content	-
UserAgent	request content	-
Username	request content	-
Password	request content	-
Matching response method	Verification method	If you set it to contain matching content in the legacy version, the verification method in the new version will be partial matching.

协议类型

请求内容 ⓘ SSL
TCP
 UDP

自定义 Host 轮询 随机

多个IP请用半角逗号分隔，如：IPv4：
 192.168.2.1,192.168.2.5:img.a.com|192.168.2.1[8080]:img.a.com|IPv6：
 [0:0:0:0:0:0:1][8080],[0:0:0:0:0:0:2][8081]:www.a.com]

验证方式

TCP,UDP

- Migration task type: Port performance
- TCP migrate to: TCP
- UDP migrate to: UDP

Legacy Probing Test Parameter	New Version Probing Test Parameter	Description
probe address	probe address	Combine into a probing address + port, <code>http://www.tencent.com:80</code>
Port		
dial-up cycle	testing frequency	Availability probing defaults to a 5-minute testing frequency.
request content	request content	-
Matching response method	Verification method	If you set it to contain matching content in the legacy version, the verification method in the new version will be partial matching.

协议类型

请求内容 ⓘ

自定义 Host 轮询 随机

验证方式

Ping

- Migration task type: Network quality
- Ping migrate to: Ping monitor

Legacy Probing Test Parameter	New Version Probing Test Parameter	Description
probe address	probe address	-
dial-up cycle	testing frequency	Availability probing defaults to a 5-minute testing frequency.

Ping 监测

协议类型

监测超时(秒) 取值范围0~60, 不包含0

执行间隔(秒)

Package 数量(个) 取值范围: 0 ~ 40

Package 大小(B)

切分 Package

DNS

- Migration task type: Network quality
- DNS migrate to: DNS monitor

Legacy Probing Test Parameter	New Version Probing Test Parameter	Description
Test domain	probe address	–
DNS query type	–	The configuration of the old dial test will be force converted to A or CNAME for parsing. <ul style="list-style-type: none"> • 1:"A" • 2:"NS" • 5:"CNAME" • 15:"MX" • 16:"TXT" • 28:"AAAA" • 255:"ANY"
DNS server	Specify DNS server	–
Expect to resolve alias	DNS hijacking allowlist	–
Expect to resolve IP	DNS hijacking allowlist	–
dial-up cycle	testing frequency	Availability probing defaults to a 5-minute testing frequency.

DNS 监测

监测超时(秒)
取值范围0~45

查询方式

指定 DNS 服务器

dig 命令 dig 命令格式的监测结果

DNS 服务器类型

Testing Point

Legacy Probing Test Parameter	New Probing Test Parameter	Remarks
Testing Node Group	Testing point	Default migration to the corresponding testing point

Alarm

For each migration task, create only one notification rule and one alarm policy.

Legacy Probing Test Metrics	New Version Probe Metrics	Description
Average Response Time	<ul style="list-style-type: none"> • HTTP, UDP, TCP: overall performance • Ping: latency 	–

	<ul style="list-style-type: none"> • DNS: DNS resolution time 	
Maximum response time	<ul style="list-style-type: none"> • HTTP, UDP, TCP: overall performance • Ping: latency • DNS: DNS resolution time 	-
ALL detection points are inaccessible.	<ul style="list-style-type: none"> • HTTP, UDP, TCP: accuracy • Ping, DNS: availability 	A threshold value of 0 means all are unreachable.
Availability rate in the last 10 minutes	<ul style="list-style-type: none"> • HTTP, UDP, TCP: accuracy • Ping, DNS: availability 	New detection does not support this type of statistics. You can set the alarm rule to a statistical granularity of 1 minute and a duration of 5 data points.
Availability rate in the last 15 minutes	<ul style="list-style-type: none"> • HTTP, UDP, TCP: accuracy • Ping, DNS: availability 	
Availability rate in the last 20 minutes	<ul style="list-style-type: none"> • HTTP, UDP, TCP: accuracy • Ping, DNS: availability 	
Availability rate in the last 30 minutes	<ul style="list-style-type: none"> • HTTP, UDP, TCP: accuracy • Ping, DNS: availability 	
Availability rate in the last 60 minutes	<ul style="list-style-type: none"> • HTTP, UDP, TCP: accuracy • Ping, DNS: availability 	
Average availability	<ul style="list-style-type: none"> • HTTP, UDP, TCP: accuracy • Ping, DNS: availability 	

Rapid Dial Test Point List

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Version Description

Version	Coverage region and city	Cover real users
Basic Edition	Main cities in seven major domestic regions	Beijing, Shanghai, Guangzhou, and Shenzhen
advanced edition	Cover nodes in 30 domestic provincial capitals, autonomous region capitals, and municipalities (excluding Tibet, Hong Kong (China), Macao (China), and Taiwan)	Selection of real users from ten major domestic cities
flagship edition	Cover 30 provincial capitals, autonomous region capitals, and municipalities in China (excluding Tibet, Hong Kong (China), Macao (China), and Taiwan) for three major operators' nodes.	Cover real users in 30 provincial capitals, autonomous region capitals, and municipalities (excluding Tibet, Hong Kong (China), Macao (China), and Taiwan) within China.

basic version test points

Belonging to province/municipality/autonomous region	City	Carrier	Dial test point type	Associated region
Beijing	Beijing	China Telecom	IDC	North China
Shanghai	Shanghai	China Telecom	IDC	East China
Tianjin	Tianjin	China Telecom	IDC	North China
Chongqing	Chongqing City	China Telecom	IDC	Southwest
Guangdong	Guangzhou	China Telecom	IDC	South China
Guangdong	Shenzhen city	China Telecom	IDC	South China
Sichuan	Chengdu	China Telecom	IDC	Southwest
Hubei	Wuhan City	China Telecom	IDC	Central China
Zhejiang	Hangzhou	China Telecom	IDC	East China
Jiangsu	Nanjing	China Telecom	IDC	East China
Shaanxi	Xi'an municipal	China Telecom	IDC	Northwest
Henan	Zhengzhou City	China Telecom	IDC	Central China
Heilongjiang	Harbin City	China Telecom	IDC	Northeast
Beijing	Beijing	China Telecom	Lastmile	North China
Shanghai	Shanghai	China Mobile	Lastmile	East China
Guangdong	Guangzhou	China Unicom	Lastmile	South China
Guangdong	Shenzhen City	China Telecom	Lastmile	South China

Premium Edition Test Point Group

Belonging to province/municipality/autonomous region	City	Carrier	Dial test point type
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Beijing	Beijing	China Telecom	IDC
Shanghai	Shanghai	China Telecom	IDC
Tianjin	Tianjin	China Telecom	IDC
Chongqing	Chongqing City	China Telecom	IDC
Guangdong	Guangzhou	China Telecom	IDC
Fujian	Fuzhou	China Telecom	IDC
Guangxi	Nanning	China Telecom	IDC
Yunnan	Kunming	China Telecom	IDC
Jiangxi	Nanchang City	China Telecom	IDC
Hu'nan	Changsha City	China Telecom	IDC
Guizhou	Guiyang City	China Telecom	IDC
Sichuan	Chengdu	China Telecom	IDC
Hubei	Wuhan City	China Telecom	IDC
Anhui	Hefei City	China Telecom	IDC
Zhejiang	Hangzhou	China Telecom	IDC
Jiangsu	Nanjing	China Telecom	IDC
Shaanxi	Xi'an municipal	China Telecom	IDC
Shanxi	Taiyuan City	China Telecom	IDC
Henan	Zhengzhou City	China Telecom	IDC
Shandong	Jinan City	China Telecom	IDC
Hebei	Shijiazhuang City	China Telecom	IDC
Gansu	Lanzhou City	China Telecom	IDC
Inner Mongolia	Hohhot City	China Telecom	IDC
Heilongjiang	Harbin City	China Telecom	IDC
Jilin	Changchun City	China Telecom	IDC
Liaoning	Shenyang City	China Telecom	IDC
Ningxia	Yinchuan City	China Telecom	IDC
Xinjiang	Urumqi City	China Telecom	IDC
Beijing	Beijing	China Telecom	Lastmile
Shanghai	Shanghai	China Telecom	Lastmile
Tianjin	Tianjin	China Telecom	Lastmile
Chongqing	Chongqing City	China Telecom	Lastmile
Guangdong	Guangzhou	China Telecom	Lastmile
Guangdong	Shenzhen city	China Telecom	Lastmile
Sichuan	Chengdu	China Telecom	Lastmile

Shaanxi	Xi'an City	China Telecom	Lastmile
Henan	Zhengzhou City	China Telecom	Lastmile
Qinghai	Xining	China Telecom	Lastmile
Heilongjiang	Harbin City	China Telecom	Lastmile
Hainan	Haikou	China Telecom	Lastmile

Flagship Edition Test Point Group

Belonging to province/municipality/autonomous region	City	Carrier	Dial test point type
Beijing	Beijing	China Telecom	IDC
Beijing	Beijing	China Mobile	IDC
Beijing	Beijing	China Unicom	IDC
Shanghai	Shanghai	China Telecom	IDC
Shanghai	Shanghai	China Mobile	IDC
Shanghai	Shanghai	China Unicom	IDC
Tianjin	Tianjin	China Telecom	IDC
Tianjin	Tianjin	China Mobile	IDC
Tianjin	Tianjin	China Unicom	IDC
Chongqing	Chongqing City	China Telecom	IDC
Chongqing	Chongqing City	China Mobile	IDC
Chongqing	Chongqing City	China Unicom	IDC
Guangdong	Guangzhou	China Telecom	IDC
Guangdong	Guangzhou	China Mobile	IDC
Guangdong	Guangzhou	China Unicom	IDC
Guangdong	Shenzhen city	China Telecom	IDC
Fujian	Fuzhou	China Telecom	IDC
Fujian	Fuzhou	China Mobile	IDC
Fujian	Fuzhou	China Unicom	IDC
Guangxi	Nanning	China Telecom	IDC
Guangxi	Nanning	China Mobile	IDC
Guangxi	Nanning	China Unicom	IDC
Yunnan	Kunming	China Telecom	IDC
Yunnan	Kunming	China Unicom	IDC
Jiangxi	Nanchang City	China Telecom	IDC
Jiangxi	Nanchang City	China Unicom	IDC
Hu'nan	Changsha City	China Telecom	IDC

Hu'nan	Changsha City	China Mobile	IDC
Hu'nan	Changsha City	China Unicom	IDC
Guizhou	Guiyang City	China Telecom	IDC
Guizhou	Guiyang City	China Mobile	IDC
Guizhou	Guiyang City	China Unicom	IDC
Sichuan	Chengdu	China Telecom	IDC
Sichuan	Chengdu	China Mobile	IDC
Sichuan	Chengdu	China Unicom	IDC
Hubei	Wuhan City	China Telecom	IDC
Hubei	Wuhan City	China Mobile	IDC
Hubei	Wuhan City	China Unicom	IDC
Anhui	Hefei City	China Telecom	IDC
Anhui	Hefei City	China Mobile	IDC
Anhui	Hefei City	China Unicom	IDC
Anhui	Wuhu City	China Telecom	IDC
Zhejiang	Hangzhou	China Telecom	IDC
Zhejiang	Hangzhou	China Mobile	IDC
Zhejiang	Hangzhou	China Unicom	IDC
Jiangsu	Nanjing	China Telecom	IDC
Jiangsu	Nanjing	China Mobile	IDC
Jiangsu	Nanjing	China Unicom	IDC
Jiangsu	Wuxi City	China Telecom	IDC
Jiangsu	Wuxi City	China Mobile	IDC
Shaanxi	Xi'an municipal	China Telecom	IDC
Shaanxi	Xi'an municipal	China Mobile	IDC
Shaanxi	Xi'an municipal	China Unicom	IDC
Shanxi	Taiyuan City	China Telecom	IDC
Shanxi	Taiyuan City	China Unicom	IDC
Henan	Zhengzhou City	China Telecom	IDC
Henan	Zhengzhou City	China Mobile	IDC
Henan	Zhengzhou City	China Unicom	IDC
Shandong	Jinan City	China Telecom	IDC
Shandong	Jinan City	China Mobile	IDC
Shandong	Jinan City	China Unicom	IDC
Shandong	Qingdao City	China Unicom	IDC

Hebei	Shijiazhuang City	China Telecom	IDC
Hebei	Shijiazhuang City	China Mobile	IDC
Hebei	Shijiazhuang City	China Unicom	IDC
Hebei	Tangshan City	China Unicom	IDC
Gansu	Lanzhou City	China Telecom	IDC
Gansu	Lanzhou City	China Mobile	IDC
Gansu	Lanzhou City	China Unicom	IDC
Inner Mongolia	Hohhot City	China Telecom	IDC
Inner Mongolia	Hohhot City	China Mobile	IDC
Inner Mongolia	Hohhot City	China Unicom	IDC
Heilongjiang	Harbin City	China Telecom	IDC
Heilongjiang	Harbin City	China Mobile	IDC
Heilongjiang	Harbin City	China Unicom	IDC
Jilin	Changchun City	China Telecom	IDC
Jilin	Changchun City	China Mobile	IDC
Jilin	Changchun City	China Unicom	IDC
Liaoning	Shenyang City	China Telecom	IDC
Liaoning	Shenyang City	China Mobile	IDC
Liaoning	Shenyang City	China Unicom	IDC
Ningxia	Yinchuan City	China Telecom	IDC
Ningxia	Yinchuan City	China Mobile	IDC
Fujian	Xiamen	China Unicom	IDC
Jiangxi	Nanchang City	China Mobile	IDC
Jiangsu	Wuxi City	China Unicom	IDC
Xinjiang	Urumqi City	China Telecom	IDC
Xinjiang	Urumqi City	China Unicom	Lastmile
Beijing	Beijing	China Mobile	Lastmile
Shanghai	Shanghai	China Mobile	Lastmile
Tianjin	Tianjin	China Mobile	Lastmile
Chongqing	Chongqing City	China Mobile	Lastmile
Guangdong	Guangzhou	China Mobile	Lastmile
Fujian	Fuzhou	China Mobile	Lastmile
Guangxi	Nanning	China Mobile	Lastmile
Yunnan	Kunming	China Mobile	Lastmile
Jiangxi	Nanchang City	China Mobile	Lastmile

Hu'nan	Changsha City	China Mobile	Lastmile
Guizhou	Guiyang City	China Telecom	Lastmile
Sichuan	Chengdu	China Telecom	Lastmile
Hubei	Wuhan City	China Telecom	Lastmile
Anhui	Hefei City	China Telecom	Lastmile
Zhejiang	Hangzhou	China Telecom	Lastmile
Jiangsu	Nanjing	China Telecom	Lastmile
Shaanxi	Xi'an City	China Telecom	Lastmile
Shanxi	Taiyuan City	China Mobile	Lastmile
Henan	Zhengzhou City	China Telecom	Lastmile
Shandong	Jinan City	China Telecom	Lastmile
Hebei	Shijiazhuang City	China Unicom	Lastmile
Gansu	Lanzhou City	China Unicom	Lastmile
Qinghai	Xining	China Unicom	Lastmile
Inner Mongolia	Hohhot City	China Unicom	Lastmile
Heilongjiang	Harbin City	China Unicom	Lastmile
Jilin	Changchun City	China Unicom	Lastmile
Liaoning	Shenyang City	China Unicom	Lastmile
Ningxia	Yinchuan City	China Unicom	Lastmile
Hainan	Haikou	China Unicom	Lastmile

Availability Test Point List

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CAT Monthly Resource Package (prepaid) availability test points are as follows:

Region	Location	Carrier
South China	Guangzhou	telecom
		move
		China Unicom
	Dongguan	telecom
	Shenzhen	telecom
	Nanning	telecom
		China Unicom
		move mobile movement
	East China	Shanghai
Mobile		
China Unicom		
Nanjing		China Unicom
Wuxi		Mobile
		telecom
		telecom
Hangzhou		telecom
		move
		China Unicom
Jinan		China Unicom
Qingdao		telecom
		Mobile
		China Unicom
Fuzhou		telecom
Wuhu		telecom
Hefei		telecom
		China Unicom
		Mobile
Nanchang		China Unicom
		move mobile movement
	telecom	

southwest	Chengdu	telecom
		China Unicom
		move mobile movement
	Chongqing	telecom
		China Unicom
		mobile
	Kunming	telecom
	Guiyang	Mobile
		China Unicom
telecom		
North China	Beijing	telecom
		Mobile
		China Unicom
	Tianjin	telecom
		Mobile
		China Unicom
	Shijiazhuang	China Unicom
		telecom
		China Unicom
	Huhhot	move mobile movement
		telecom
		China Unicom
Taiyuan	telecom	
	China Unicom	
Central China	Changsha	telecom
		mobile
		China Unicom
	Wuhan	telecom
		China Unicom
		mobile
	Zhengzhou	China Unicom
		telecom
	Northwest	Xi'an
telecom		
move		
Lanzhou		move

		telecom
		China Unicom
	Urumqi	telecom
Northeast	Haerbin	telecom
		mobile
		China Unicom
	Shenyang	China Unicom
		Mobile
		telecom
	Changchun	move
		China Unicom
		telecom