Cloud Phone

What's New

Issue 01

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What's New



The tables below describe the functions released in each Cloud Phone Host (CPH) version and corresponding documentation updates. New features will be successively launched by region.

August 2023

No ·	Feature	Description	Related Documents
1	Next- generation cloud phone specifications	Next-generation cloud phone specifications are available.	Servers for General- Purpose Cloud Phones

June 2023

No	Feature	Description	Related Documents
1	Scenario-based permissions configuration	You can assign all permissions, operation permissions, read-only permissions, and given operation permissions of cloud phone servers or cloud phones.	Example Permission Configuratio n
2	EIP change	You can change the EIP of a cloud phone server.	Changing an EIP

May 2023

No	Feature	Description	Related Documents
1	IPv4/IPv6 dual stack	CPH supports the IPv4/IPv6 dual stack.	Buying a Cloud Phone Server

April 2023

No	Feature	Description	Related Documents
1	List page and filtering optimized	Both cloud phone servers and cloud phones can be listed on different pages. Their total numbers can also be displayed.	N/A
		Cloud phone servers and cloud phones can be filtered by status.	
		Cloud phone servers and cloud phones can be filtered by time range during which they were created.	

March 2023

No ·	Feature	Description	Related Documents
1	Application sharing	The best practice of CPH application sharing is released.	Best Practices of Cloud Phone Application Sharing
2	Next- generation RX3 cloud phone servers	The next-generation RX3 cloud phone servers are put into commercial use.	Servers for General- Purpose Cloud Phones

January 2023

No	Feature	Description	Related Documents
1	API Explorer supported for API debugging	CPH supports API Explorer for API debugging.	N/A

December 2022

No	Feature	Description	Related Documents
1	Interconnection with My Resources	CPH interconnects with My Resources , enabling you to view cloud phone servers you purchased on Huawei Cloud.	Supported Services and Regions

June 2022

No	Feature	Description	Related Documents
1	Cloud phone positioning optimized	Cloud phone positioning optimized to support base station positioning simulation.	AOSP 7 Cloud Phone Image Change History

May 2022

No	Feature	Description	Related Documents
1	Multiple APKs can be installed on a cloud phone.	The CPH APK installation API supports the multiple-install command.	Installing the APK

April 2022

No ·	Feature	Description	Related Documents
1	AOSP 9 supported AOSP 9 integrating the audio and video 3.0 SDK	AOSP 9 image supported for cloud mobile gaming servers. AOSP 9 integrates the audio and video 3.0 SDK.	AOSP 9 Image Change History of Gaming Cloud Phones

March 2022

No	Feature	Description	Related Documents
1	Application sharing and hot reloading of application versions	The CPH shared storage supports hot reloading of applications. You do not need to reset your cloud phone when updating an application version.	Pushing a Shared Application

January 2022

No	Feature	Description	Related Documents
1	AOSP 9 supported	AOSP 9 image supported for cloud phones.	AOSP 9 Cloud Phone Image Change History

December 2021

No	Feature	Description	Related Documents
1	Purchase of cloud phones from the Guangzhou region	You can purchase cloud phones in the CN South-Guangzhou region using an account registered with the Huawei Cloud International website.	N/A

November 2021

No	Feature	Description	Related Documents
1	Custom network	You can customize VPCs and subnets for your cloud phones.	Purchasing a Cloud Phone Server
			Buying a Cloud Phone Server That Uses a Custom Network (Recommen ded)

October 2021

No	Feature	Description	Related Documents
1	CPH event notification	You can configure cloud phone event alarm notifications on Cloud Eye to learn of key cloud phone events and handle them in a timely manner.	Events Supported by Event Monitoring

August 2021

No	Feature	Description	Related Documents
1	Device emulation	CPH supports emulation of devices such as cameras, microphones, and sensors.	Device Emulation
2	Audio and video collection and encoding	CPH provides an audio and video engine, so you can use a cloud phone to collect and encode audio and video.	Cloud Phone Audio and Video

July 2021

No	Feature	Description	Related Documents
1	Inbound traffic and outbound traffic of cloud phone servers available	The inbound traffic and outbound traffic of cloud phone servers can be obtained from Cloud Eye.	Supported Metrics

May 2021

No	Feature	Description	Related Documents
1	Custom network supported in the CN Southwest- Guiyang1 region	When buying a cloud phone server, you can select your own VPC, subnet, and bandwidth.	Buying a Cloud Phone Server
2	API for querying cloud phone server details optimized	The CPH API for querying cloud phone server details can return information about the disk attached to the server and the bandwidth information.	Querying Details About a Cloud Phone Server
3	CPH console optimized	On the cloud phone server details page, you can view the shared bandwidth used by cloud phones, change the bandwidth size, and view monitoring data.	Buying a Cloud Phone Server
4	Cloud phone task execution optimized	Batch task execution efficiency of cloud phones optimized.	Managing Cloud Phones in Batches

March 2021

No ·	Feature	Description	Related Documents
1	Microphone emulation supported by gaming cloud phones	Cloud phones virtualized from a cloud mobile gaming server support microphone emulation. An audio and video simulation hardware API is used to register callback to obtain microphone enabling or disabling events, and then recording data is injected. Based on this emulation, the application layer can provide functions such as in-game recording and voice chat.	N/A

February 2021

No	Feature	Description	Related Documents
1	Input method of mobile phones supported by gaming cloud phones	You can use mobile phone input methods when using cloud phones virtualized from a cloud mobile gaming server. This improves user experience as you use the same input method you are used to.	N/A
2	Data statistics supported by gaming cloud phone SDKs	Gaming cloud phone SDKs support registration statistics. They can track items such as the frame rate, snapshot speeds, encoding duration, and decoding duration.	N/A
3	Device-cloud data collaboration	The H5 SDK of gaming cloud phones can send your data to gaming cloud phones.	N/A

January 2021

No	Feature	Description	Related Documents
1	App installation blacklist	Applications added to the blacklist cannot be installed. By default, the blacklist is not configured.	App Installation Blacklist
2	App installation whitelist	Only applications added to the whitelist can be installed. If no whitelist is configured, any APK can be installed.	App Installation Whitelist

No	Feature	Description	Related Documents
3	Loading pictures to the cloud phone virtual camera	You can load specified pictures to the virtual camera to implement functions such as scanning QR codes.	Loading Pictures

December 2020

No ·	Feature	Description	Related Documents
1	Cloud mobile gaming servers launched in the CN Southwest-Guiyang1 region	Cloud mobile gaming servers can be purchased in the CN Southwest-Guiyang1 region.	Cloud Mobile Gaming Servers
2	Shared storage monitoring	Shared storage usage of cloud phone servers can be monitored.	Supported Metrics

November 2020

No.	Feature	Description	Related Documents
1	CPH console optimized	You can view image update records in the image details area of a cloud phone.	Querying Details About a Cloud Phone

October 2020

No.	Feature	Description	Related Documents
1	CPH console optimized	 Parameter AZ is available when you purchase a cloud phone server. Network configuration optimized for server purchases. Features, application scenarios, and billing modes of the two bandwidth types (dedicated bandwidth and shared bandwidth) were added, and when you create a shared bandwidth, the system does not provide the default bandwidth size. You can configure the bandwidth size based on service requirements. Servers on the server list page can be filtered by ID. 	Buying a Cloud Phone Server

September 2020

No.	Feature	Description	Related Documents
1	Gaming cloud phones of 1080p and 540p launched	 1080p gaming cloud phone (kg1.cg.c20.d50SSD.e1v1) added. This phone is suitable for role-playing, sports racing (car racing and football), and multi-player sports games. 540p gaming cloud phone 	Cloud Mobile Gaming Servers
	tadrictica	(kg1.cg.c80.d16SSD.e1v1) added. This phone is suitable for card games and casual puzzle games.	
2	iOS is added to the gaming cloud phone SDK. The Android SDK supports	You can use the SDK provided by the gaming cloud phones to quickly develop cloud mobile gaming services. The following languages are supported: Android, H5, and iOS. The JAR package integration added to the Android SDK.	N/A
	JAR package integration.		

August 2020

No.	Feature	Description	Related Documents
1	Custom network	When purchasing a server, you can choose to use a custom network to locate the server and adapt to the network planning of global services.	Buying a Cloud Phone Server
2	Route configuratio n supported	You can configure routes to forward all outbound traffic of all your cloud phones to the selected VPC peering connection, facilitating intranet communication management for cloud phones without EIPs.	Configuring a Route
3	Monitoring of cloud phone servers, cloud phones, disks, and GPUs	On the Cloud Eye console, you can view monitoring information for all your cloud phones and associated resources (cloud phone servers, disks, and GPUs). More than 30 metrics for CPU, memory, disk, and network are supported to meet basic monitoring and O&M requirements of cloud services. You can create alarm rules and configure alarm notifications to learn about the usages and statuses of cloud phones, cloud phone servers, disks, and GPUs in a timely manner.	 Supporte d Metrics Viewing CPH Metrics Creating an Alarm Rule

June 2020

No.	Feature	Description	Related Documents
1	Trial cloud phones taken offline	Due to limited cloud phone resources and many usage restrictions on trial cloud phones have been taken offline.	N/A
2	Update of cloud phone attributes	On the CPH console, you can update the cloud phone attributes, such as the product model, device model, whether to hide the virtual key, and whether to display the cloud phone in landscape mode.	 Console: Updating Cloud Phone Attributes API: Updating Cloud Phone Attributes

May 2020

No.	Feature	Description	Related Documents
1	Cloud phone servers of new specification s available	The physical.kg1.4xlarge.cp and physical.kg1.4xlarge.cg processors provide powerful compute power and highperformance networks, which are especially suitable for gaming scenarios.	Cloud Mobile Gaming Servers
2	Server name being editable	To make it easy for you to quickly identify each server and manage them, CPH allows you to change server names at any time.	Editing a Server Name
3	Shared bandwidth size configurable	If you select a shared bandwidth when purchasing a server, the system creates a 2,000 Mbit/s bandwidth and names it whole-bandwidth -xxxx by default. You can adjust the shared bandwidth size based on service requirements.	Buying a Cloud Phone Server

April 2020

No.	Feature	Description	Related Documents
1	Cloud mobile gaming servers available	Cloud mobile gaming servers use GPU hardware acceleration and graphics interfaces to run mobile games on the cloud. The servers are suitable for scenarios like mobile game trial promotions and intelligent game assistance. The cloud mobile gaming server has built-in cloud mobile gaming access software, helping you quickly build your own cloud mobile gaming services.	Cloud Mobile Gaming Servers

No.	Feature	Description	Related Documents
2	Names of cloud phones being editable	Naming rules: The system automatically adds a hyphen followed by a one-digit incremental number to the end of each server name. For the names of the cloud phones that are virtualized from the server, the system automatically adds a 5-digit numerical suffix in ascending order. For example, if you enter cloudphone, the first server's name will be cloudphone-1, and the name of the first cloud phone on this server will be cloudphone-1-00001. If this automatic naming method cannot meet your requirements, you can change the cloud phone name at any time.	 Console: Editing the Name of a Cloud Phone API: Editing the Name of a Cloud Phone

March 2020

No.	Feature	Description	Related Documents
1	ADB connection to cloud phones	You can use the Access Through ADB function on the console to quickly connect to a cloud phone. This method is a convenient way to establish an ADB connection through the public network. The connection principles are the same.	ADB (Recomm ended)ADB (Internet)

February 2020

No.	Feature	Description	Related Documents
1	CPH documentati on optimized	The following contents are optimized to provide you with more detailed, easy-to-use, and valuable help documents.	Service OverviewUser
		The outline was adjusted.	Guide
		• Steps were optimized.	• FAQs
		• Description of scenarios were added.	

October 2019

No.	Feature	Description	Related Documents
1	CPH console launched	The management console is a web-based service management system that provides an intuitive user interface. You can use the console to manage Huawei Cloud products, such as purchasing cloud phone servers and connecting to cloud phones.	 Buying a Cloud Phone Server Accessing the Cloud Phone

January 2019

No.	Feature	Description	Related Documents
1	CPH launched	Huawei Cloud Kunpeng cloud phones were launched for the first time. Only API capabilities are available. CPH was officially open to enterprises and developers. You can remotely control the cloud phone in real time to run Android applications on the cloud. You can also use the compute power of cloud phones to efficiently build applications for scenarios like cloud gaming, virtual office, and live streaming interaction.	 What Is Cloud Phone Host? Cloud Phone Host API Reference

2 AOSP 7 Image Change History

2.1 AOSP 7 Cloud Phone Image Change History

You can restart cloud phones to use the images listed in the table below.

Cloud phones whose flavors have **qemu** in the name (such as rx1.cp.c60.d32.e1v1.qemu) cannot use these images.

NOTICE

The AOSP 7 cloud phone images released on August 22, 2022 or later cannot be deployed together on the same server with the AOSP 7 cloud phone images that was released before August 22, 2022.

March 22, 2024

Image ID	New Features	Bugs Fixed
• Image ID for servers of all flavors: 24020020240227f000100a2100000ce3	 The audio and video SDK optimized to reduce the first frame generation time. Reboot command introduced to restart a cloud phone. The rendering module of AOSP optimized to improve the smoothness of some games. Multiple configuration files supported at the same time by shared applications. CAE upgraded to 23.12.2. 	 audioserver exceptions in certain scenarios Abnormal outbound audio streams from the audio SDK in certain scenarios Uninstallation residual issues of shared applications Artifacts in some applications Scans of local images in incorrect directions VRAM usage of some applications Taking too long to stop outbound streams in some scenarios Touch exceptions in certain scenarios

December 22, 2023

Image ID	New Features	Bugs Fixed
 Image ID for servers of all flavors: 23110320231220f000100a2100000f 6d 	 The efficiency of outbound audio and video streams improved. The video memory was optimized to resolve frame freezing issues in some gaming scenarios. 	 GPU memory leaks in specific scenarios Abnormal exits of some applications that were mistakenly killed by the Android Low Memory Killer Daemon (lmkd) process Abnormal recording of some applications Application Not Responding (ANR) issues of some applications Outbound streams frozen in some scenarios

November 10, 2023

Image ID	New Features	Bugs Fixed
Image ID for servers of all flavors: 23100120231106f000100a2100000 06a	 The initialization speed of outbound audio and video streams optimized. Audio and video touch control optimized. The mode of outbound audio and video streams changed to bit rate first. GPS stability improved. 	 Reliability issues of shared applications Frame freezing during outbound streams when GPU hard encoding is used on the cloud phone server Stability issues of outbound audio and video streams Application crashes that happened after users restored applications from backup in certain scenarios

September 15, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 23080220230912f101210a2100000 891 Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23080220230912f201220a2100000c 87 	 Restarting a cloud phone takes less time. Root permissions can be assigned to specific applications. Instant update of shared storage 2.0 applications supported and application data retained. Outbound stream stability of the cloud phone data plane SDK optimized. Verification of the screen capture resolution to the primary screen resolution through the data plane SDK removed. The forced I-frame API of the data plane SDK was optimized to support the generation of I-frames in YUV or RGB format. More stable frame supplementation with the data plane SDK The display ratio of components in the output images through 	The open video API of the data plane SDK cannot be called consecutively.

Image ID	New Features	Bugs Fixed
	the data plane SDK optimized.	
	The maximum bit rate of an outbound stream through the data plane SDK can be 40 Mbit/s.	

July 24, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 23060320230721f101210a2100000 Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23060320230721f201220a2100000 a27 	 SD card storage performance optimized. (This feature depends on the OS. You need to restart the server to upgrade the OS.) Texture compression switch added. Data plane (audio, video, and touch access) SDK 5.0 released. 	 It takes a long time to disable virtual devices in the SDK. When the SDK is used, no frame is generated for static images. OOM issues in specific scenarios fixed by optimizing the memory management service (cph_performanc e) Compatibility issues

July 11, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 23060020230626f101210a21000005 2c 	None	Stability issues of outbound audio and video streams
 Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23060020230626f201220a21000006 8b 		 Artifacts occurred when the first frame is encoded by an external encoding server Compatibility issues

June 07, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 23050020230601f101210a21000005 Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23050020230601f201220a21000006 38 	 CloudAppEngin e (CAE) integrated. The system disk is read-only. The image is not in the root state. 	 Touch smoothness issues Compatibility issues

May 09, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 23040120230505f101210a20000007 Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23040120230505f201220a20000007 fe 	 IPv6 supported. Traffic outgoing of a cloud phone server optimized to use less CPU and GPU resources. 	 Artifacts in some applications Compatibility issues

March 15, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 23010220230215f101210a2000000d 	None	• Reliability issues for shared storage 2.0
2f • Image ID of flavors		 Sensor stability issues
physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4:		 Compatibility issues
23010220230215f201220a2000000b 08		

December 15, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 22110120221209f101210a2000000c Image ID of flavor physical.kg1.4xlarge.cp: 22110120221209f201220a2000000a 7e 	 System startup speed optimized. Shared storage 2.0 supports the obb directory. Audio/Video 3.0 supports multiple game controllers. 	 Black screen issues during video playback The game controller icon cannot be canceled in some games. Unresponsive touch plug-in in the audio and video SDK in some scenarios System crashes caused by excessively long application package names Artifacts in some applications Compatibility issues The flow control mode for audio/video 3.0 encoding was crf, and the bit rate control was invalid.

November 04, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 22100020221101f101210a2000000d 20 	 Video encoding on remote servers supported. 	Compatibility issues
 Image ID of flavor physical.kg1.4xlarge.cp: 22100020221101f201220a2000000b 14 	 Background process management supported. 	
14	• WebView upgraded to 99.0.4844.88.	

September 16, 2022

Image ID	New Features	Bugs Fixed
Image ID of flavor physical.rx1.xlarge:	N/A	Application crashes
22080220220915f101210a20000001 b4 • Image ID of flavor		 Servers froze in specific scenarios.
physical.kg1.4xlarge.cp: 22080220220915f201220a20000005 3b		Cloud phones reset failures in certain scenarios
		Abnormal running of cloud phones in certain scenarios

August 22, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 22070320220817f101210a20000006 Image ID of flavor physical.kg1.4xlarge.cp: 22070320220817f201220a20000001 84 	 Hardware decoding simulation fixed an issue where some games failed to play videos. GPU driver upgraded. The Wi-Fi name can be dynamically updated. 	 Blurry and crash issues in some applications Frame freezing issues and OOM risks (fixed by optimizing SD card memory usage) The obtained durations of video or audio content in TS format were incorrect. Slow application installation (fixed by using the fast-install command) The touch control was abnormal when the audio and video SDK was not operated for a long time. Applications could not be installed in certain scenarios. Photos could not be taken in certain scenarios. Cloud phones failed to be reset due to an SD card D process.

June 23, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 22050320220620f101210a20000008 d7 Image ID of flavor physical.kg1.4xlarge.cp: 22050320220620f201220a20000008 37 	 Storage 2.0 supported. The system language can be dynamically changed on the CLI. Positioning capability optimized. 	 Compatibility issues Artifacts and green screens in certain scenarios Video green screens in certain scenarios Camera crashes in certain scenarios Crashed short video applications

March 07, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 21120420220117f101110a20000 00d57 	N/A	Green screen issues with PSTurbo.exe
 Image ID of flavor physical.kg1.4xlarge.cp: 		 Floating window authorization issues
21120420220117f201120a20000 0064e		 Occasional mount failures of the SD card
		 Startup error logs
		 The system disk was full in certain scenarios.
		 The disk space size was incorrectly displayed.

October 11, 2021

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 21090120211009f101210a20000 	• WebView upgraded to 90.0.4430.210.	MP4 files could not be played in WebView.
 0025b Image ID of flavor physical.kg1.4xlarge.cp: 21090120211008f201220a20000 	 Thai, Arabic, Burmese, and Indonesian supported. 	 Issues of the PixelFormat.RGB A_8888 image format
0004c	 SurfaceFlinger optimized. 	Inaccurate statistics of the
	Scanning of applications auto-started upon device power-on optimized.	top command

August 26, 2021

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 21060320210720f101210a20000 00038 	 Cloud phone audio and video SDK 3.0 available. 	None
 Image ID of flavor physical.kg1.4xlarge.cp: 21060320210720f201220a20000 00d21 	• WebView upgraded to 88.0.4324.	

February 04, 2021

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 21010120210202f101210a20000 00d93 Image ID of flavor physical.kg1.4xlarge.cp: 21010120210202f201220a20000 	 Search box removed from the desktop. Network stability of cloud phones improved. 	Applications failed to be installed due to application package name filtering.
0051c	 Mining software banned. 	

January 13, 2021

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 20120320210113f101210a20000 00283 Image ID of flavor physical.kg1.4xlarge.cp: 20120320210113f201220a20000 00906 	 System startup time optimized. Application installation blacklist and whitelist supported. WebView version updated. The transcoder supported application precompilation (but was disabled by default). 	 Abnormal display of phone numbers in Settings Occasional GPS failure Graphics system timeouts

November 18, 2020

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 20100320201118f101210a20000 00d6b 	N/A	Graphics processing timeouts
 Image ID of flavor physical.kg1.4xlarge.cp: 20100320201118f201220a20000 00198 		

November 04, 2020

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 20100120201104f101210a20000 00f09 Image ID of flavor physical.kg1.4xlarge.cp: 20100120201104f201220a20000 009f4 	 Wi-Fi added. Bluetooth added. The graphics processing API was optimized, and the YUV outbound stream API was added. Logs of the su command optimized. 	 Information such as DNS was lost. A green screen was displayed when Red, Green, Blue (RGB) was converted to YUV. YUV stands for (Y) luma, or brightness, (U) blue projection and (V) red projection. Videos were played quickly in video applications.

October 09, 2020

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 20090020200930f101210a200000 0587 Image ID of flavor physical.kg1.4xlarge.cp: 20090120201009f201220a200000 07f8 	 The screen off process optimized. SD card reliability enhanced. YUV format supported for video playback. adbd process enhanced. WebView upgraded to 84.0.4147.125. 	Dots per inch (DPI) configuration

August 06, 2020

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 20070120200806f101110a200000 093d Image ID of flavor physical.kg1.4xlarge.cp: 20070120200806f201120a200000 03c9 	 AOSP system signature replaced. Camera QR code scanning added. 	 Performance of the alarm component (This modification takes effect only after a server restart.) Graphics card processing sometimes timed out.

2.2 AOSP 7 Image Change History of Gaming Cloud Phones

You can **restart cloud phones** to use the images listed in the table below.

NOTICE

The AOSP 7 gaming cloud phone images released on August 22, 2022 or later cannot be deployed together on the same server with the AOSP 7 gaming cloud phone images released before August 22, 2022.

November 10, 2023

Image ID	New Features	Bugs Fixed
Image ID for servers of all flavors: 23100120231110f004101b2100000 4c5	 The initialization speed of outbound audio and video streams optimized. Audio and video touch control optimized. The mode of outbound audio and video streams changed to bit rate first. GPS stability improved. 	 Reliability issues of shared applications Frame freezing during outbound streams when GPU hard encoding is used on the cloud phone server Stability issues of outbound audio and video streams Application crashes that happened after users use backups to restore applications in certain scenarios

September 15, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 23080220230912f104211b2100000 b42 Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23080220230912f204221b2100000 e9f 	 Restarting a cloud phone takes less time. Root permissions can be assigned to specific applications. Instant update of shared storage 2.0 applications supported and application data retained. Outbound stream stability of the cloud phone data plane SDK optimized. Verification of the screen capture resolution to the primary screen resolution through the data plane SDK removed. The forced I-frame API of the data plane SDK was optimized to support the generation of I-frames in YUV or RGB format. More stable frame supplementation with the data plane SDK The display ratio of components in the output images through 	The open video API of the data plane SDK cannot be called consecutively. The open video API of the data plane SDK cannot be called consecutively.

Image ID	New Features	Bugs Fixed
	the data plane SDK optimized.	
	The maximum bit rate of an outbound stream through the data plane SDK can be 40 Mbit/s.	

July 24, 2023			
	Image ID	New Features	Bugs Fixed
	 Image ID of flavor physical.rx1.xlarge.cg: 23060320230721f104211b2100000 Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23060320230721f204221b2100000fd4 	 SD card storage performance optimized. (This feature depends on the OS. You need to restart the server to upgrade the OS.) Texture compression switch added. Data plane (audio, video, and touch access) SDK 5.0 released. 	 It takes a long time to disable virtual devices in the SDK. When the SDK is used, no frame is generated for static images. OOM issues in specific scenarios fixed by optimizing the memory management service (cph_performanc e) Compatibility issues

July 11, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 23060020230626f104211b2100000e d4 	None	Stability issues of outbound audio and video streams
 Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23060020230626f204221b21000000 94 		 Artifacts occurred when the first frame is encoded by an external encoding server Compatibility issues

June 07, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 23050020230601f104211b2100000f Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23050020230601f204221b21000002 5a 	 CAE integrated The system disk is read-only. The image is not in the root state. 	 Touch smoothness issues Compatibility issues

May 09, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 23040120230505f104211b2000000a b6 Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23040120230505f204221b20000001 ad 	 IPv6 supported. Traffic outgoing of a cloud phone server optimized to use less CPU and GPU resources. 	 Artifacts in some applications Compatibility issues

March 15, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 23010220230215f104211b20000007 db Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23010220230215f204221b2000000f 5c 	None	 Reliability issues for shared storage 2.0 Sensor stability issues Compatibility issues

December 15, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 22110120221209f104211b2000000c Image ID of flavor physical.kg1.4xlarge.cg: 22110120221209f204221b20000004 6a 	 System startup speed optimized. Shared storage 2.0 supports the obb directory. Audio/Video 3.0 supports multiple game controllers. 	 Black screen issues during video playback The game controller icon cannot be canceled in some games. The unresponsive touch plug-in in the audio and video SDK in some scenarios System crashes caused by excessively long application package names Artifacts in some applications Compatibility issues The flow control mode for audio/video 3.0 encoding is crf, and the bit rate control is invalid.

November 04, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 22100020221101f104211b20000008 79 	 Video encoding on remote servers supported. Background 	Compatibility issues
 Image ID of flavor physical.kg1.4xlarge.cg: 22100020221101f204221b2000000e 	process management supported.	
b3	• WebView upgraded to 99.0.4844.88.	

September 16, 2022

Image ID	New Features	Bugs Fixed
 Image ID Image ID of flavor physical.rx1.xlarge.cg: 22080220220916f104211b20000007 a2 Image ID of flavor physical.kg1.4xlarge.cg: 22080220220916f204221b20000004 dc 	N/A	 Application crashes Servers froze in specific scenarios. Cloud phones reset failures in certain scenarios
		 Abnormal running of cloud phones in certain scenarios

August 22, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 22070320220817f104211b200000004 e3 Image ID of flavor physical.kg1.4xlarge.cg: 22070320220817f204221b20000000 d8 	 Hardware decoding simulation fixed an issue where some games failed to play videos. GPU driver upgraded. The Wi-Fi name can be dynamically updated. 	 Blurry and crash issues in some applications Frame freezing issues and OOM risks (fixed by optimizing SD card memory usage) The obtained durations of video or audio content in TS format were incorrect. Slow application installation (fixed by using the fast-install command) The touch control was abnormal when the audio and video SDK was not operated for a long time. Applications could not be installed in certain scenarios. Photos could not be taken in certain scenarios. Cloud phones failed to be reset due to an SD card D process.

May 31, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 22050020220530f104211b200000 01e3 (Type B touch control) 22050020220530f103210b200000 0c4a (Type A touch control) 	Camera stability optimized.Image package downsized.	Mesa-related issues
 Image ID of flavor physical.kg1.4xlarge.cg: 22040420220528f204221b200000 09a3 (Type B touch control) 22040420220528f203220b200000 		
0f05 (Type A touch control)		

October 11, 2021

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 21090120211009f104211b200000 0714 (without stream pushing) 21090120211009f103210b200000 0a3e (with stream pushing) Image ID of flavor physical.kg1.4xlarge.cg: 	 Media engine startup duration optimized. Sharing of game input boxes disabled. 	None
21090120211009f204221b200000 06e7 (without stream pushing)		
21090120211009f203220b200000 0642 (with stream pushing)		

July 28, 2021

Image ID	New Features	Bugs Fixed	
 Image ID of flavor physical.rx1.xlarge.cg: 21060320210721f104211b200000 0a5b (without stream pushing) 	Sensitivity of the gyroscope simulation operation improved.	gyroscope of gaming cloud simulation phones was	inconsistent with
21060320210720f103210b200000 0ef5 (with stream pushing)		that described in the document.	
 Image ID of flavor physical.kg1.4xlarge.cg: 21060320210721f204221b200000 04df (without stream pushing) 			
21060320210720f203220b200000 0b48 (with stream pushing)			

May 18, 2021

Image ID	New Features	Bugs Fixed
Image ID of flavor physical.rx1.xlarge.cg: 21040220210515f104211b200000 0a23 (without stream pushing)	 Gyroscope simulation supported. 	The camera occasionally displays a green screen or erratic
21040220210515f103210b200000 0d1e (with stream pushing)		display. The camera
 Image ID of flavor physical.kg1.4xlarge.cg: 21040220210515f204221b200000 		could not record videos occasionally.
0c5d (without stream pushing)		The Dead Cells
21040220210515f203220b200000 002a (with stream pushing)		game had no touch control.

March 31, 2021

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 21020420210325f104211b200000 0f29 (without stream pushing) 21020420210325f103210b200000 0196 (with stream pushing) Image ID of flavor 	Audio interaction supported.	Occasional loading issues when the screen was unlocked and the game screen was opened
physical.kg1.4xlarge.cg: 21020420210325f204221b200000 0e08 (without stream pushing)		 Occasional start failures of gaming cloud phones
21020420210325f203220b200000 079a (with stream pushing)		The screen did not respond but no message was displayed after the background switchover timed out.

March 09, 2021

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 21020120210303f104211b200000 Ofdc (without stream pushing) 21020120210303f103210b200000 Obc9 (with stream pushing) Image ID of flavor physical.kg1.4xlarge.cg: 21020120210303f204221b200000 Ofe9 (without stream pushing) 21020120210303f203220b200000 041d (with stream pushing) 	 H.264 encoding API being opened. You can dynamically set whether to use the input method of mobile phones. 	Frame rate stability issues in complex fighting scenarios of games

February 03, 2021

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 21010020210128f104211b200000 032f (without stream pushing) 21010020210128f103210b200000 02d4 (with stream pushing) Image ID of flavor physical.kg1.4xlarge.cg: 21010020210128f204221b200000 00c5 (without stream pushing) 21010020210128f203220b200000 0b5f (with stream pushing) 	 Huawei Launcher supported landscape orientation and real-time wallpaper refreshing. You can use the input method of cloud phones to copy and paste data to the clipboard of a mobile phone. 	 A black screen was displayed for a long time after RTP stream pushing was disconnected and reconnected. Noise in the RTP streaming audio Occasional audio and video inconsistencies during RTP stream pushing Issues caused by occasional packet loss or disorder during RTP stream pushing

December 27, 2020

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 20110220201217f104211b200000 007f (without stream pushing) 20110220201217f103210b200000 04d8 (with stream pushing) Image ID of flavor physical.kg1.4xlarge.cg: 20110320201227f204221b200000 051a (without stream pushing) 20110320201227f203220b200000 0ce8 (with stream pushing) 	 The server provides a keyboard and a handle to control cloud game interfaces. RTP supported. The server can automatically adjust the 1080p slice parameter based on the SDK access mode of the client. Memory and log printing optimized. 	 The GPU timeout issue was resolved. Cloud phones were occasionally muted. Occasional game crashes when you exited the game and the text box was focused

November 12, 2020

Image ID	New Features	Bugs Fixed
Image ID of flavor physical.rx1.xlarge.cg: 20100220201112f104111b200000 09e5 (without stream pushing)	 Facial recognition for game login supported. 	 Touch issues of the 1080p cloud phones Slow loading of
20100220201112f103110b200000 0082 (with stream pushing) Image ID of flavor physical.kg1.4xlarge.cg: 20100220201112f204121b200000 0083 (without stream pushing) 20100220201111f203120b200000 0dfb (with stream pushing)	 The input method of a mobile phone can be started. Encoding parameter capped_crf supported. 	 stow toading of some games Fixed an issue where the permissions of some games changed after the pm clear command was executed.

October 13, 2020

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 20090220201013f104111b200000 079d (without stream pushing) 20090220201013f103110b200000 0d90 (with stream pushing) Image ID of flavor physical.kg1.4xlarge.cg: 20090220201013f204121b200000 0f47 (without stream pushing) 20090220201013f203120b200000 0de7 (with stream pushing) 	 The frame rate of static images can be set. Basic Service Set Identifier (BSSID) configuration supported. DPI modification supported. 	 Artifacts in some games Occasional voice abnormalities in games

September 14, 2020

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 20080220200914f104111b200000 054a (without stream pushing) 20080220200914f103110b200000 0c92 (with stream pushing) Image ID of flavor physical.kg1.4xlarge.cg: 20080220200915f204121b200000 0e85 (without stream pushing) 20080220200914f203120b200000 074c (with stream pushing) 	 Remote control instructions supported. Gamepad instructions supported. 1080p specifications supported. 720p specifications supported. Touch control on all-screen display supported. New system signatures supported. 	 The CPU occasionally failed to be bound to images of the physical.kg1.4xl arge.cg flavor. Applications were woken up in chain mode. The connection failed within 30 seconds after a reconnection failure.

August 01, 2020

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge.cg: 20070020200731f104111b200000 0269 (without stream pushing) 20070020200801f103110b200000 04b5 (with stream pushing) Image ID of flavor physical.kg1.4xlarge.cg: 20070020200731f204121b200000 0807 (without stream pushing) 20070020200801f203120b200000 023b (with stream pushing) 	 Bidirectional channel supported. Pinyin input method supported. Resolution being adjustable. Frame rate being adjustable. E2E latency of gaming cloud phones optimized. 	 Probabilistic exceptions of stream pushing Probabilistic exceptions of stream pushing when there is no certificate Artifacts during the startup of Ember Storm

3 AOSP 9 Image Change History

3.1 AOSP 9 Cloud Phone Image Change History

NOTICE

The cloud phone images released in this section are official images and cannot be deployed on the same server as the test version AOSP 9 image that was released before January 10, 2022.

March 22, 2024

Image ID	New Features	Bugs Fixed
Image ID for servers of all flavors: 24020020240227e001100a2100000 f94 Image ID for servers of all flavors: 24020020240227e001100a2100000 f94 Image ID for servers of all flavors: 24020020240227e001100a2100000 f94	 The rendering module of AOSP optimized to improve the smoothness of some games. Multiple configuration files supported at the same time by shared applications. The audio and video SDK supported ondemand GPS data injection. The RX3 cloud phone servers support Vulkan games. The audio and video SDK optimized to reduce the first frame generation time. Reboot command introduced to restart a cloud phone. CAE upgraded to 23.12.2. 	 audioserver exceptions in certain scenarios Abnormal outbound audio streams from the audio SDK in certain scenarios Uninstallation residual issues of shared applications Artifacts in some applications Scans of local images in incorrect directions VRAM usage of some applications System crashes in some scenarios Taking too long to stop outbound streams in some scenarios Touch exceptions in certain scenarios

December 22, 2023

Image ID	New Features	Bugs Fixed
Image ID for servers of all flavors: 23110320231221e001100a2100000 3f2	 The efficiency of outbound audio and video streams improved. CAE upgraded to 23.12.0. The video memory was optimized to resolve frame freezing issues in some gaming scenarios. 	 GPU memory leaks in specific scenarios Abnormal exits of some applications that were mistakenly killed by the Android Low Memory Killer Daemon (lmkd) process Abnormal recording of some applications ANR issues of some applications Outbound streams frozen in some scenarios

November 10, 2023

Image ID	New Features	Bugs Fixed
 Image ID for servers of all flavors: 23100120231106e001100a2100000 1a5 	 The initialization speed of outbound audio and video streams optimized. Audio and video touch control optimized. The mode of outbound audio and video streams changed to bit rate first. GPS stability improved. The ro.horizontal.sc reen attribute can be configured to the landscape mode by default. 	 Reliability issues of shared applications Frame freezing during outbound streams when GPU hard encoding is used on the cloud phone server Stability issues of outbound audio and video streams Application crashes after users restored applications from backup in certain scenarios Stability issues of the Wi-Fi module

September 15, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 23080220230912e101210a3100000 483 Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23080220230912e201220a2100000 872 	 Restarting a cloud phone takes less time. Root permissions can be assigned to specific applications. Instant update of shared storage 2.0 applications supported and application data retained. Outbound stream stability of the cloud phone data plane SDK optimized. Verification of the screen capture resolution to the primary screen resolution through the data plane SDK removed. The forced I-frame API of the data plane SDK was optimized to support the generation of I-frames in YUV or RGB format. More stable frame supplementatio n with the data plane SDK The display ratio of components in the output images through 	The open video API of the data plane SDK cannot be called consecutively.

Image ID	New Features	Bugs Fixed
	the data plane SDK optimized.	
	The maximum bit rate of an outbound stream through the data plane SDK can be 40 Mbit/s.	

July 24, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 23060320230721e101210a3100000 60e Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23060320230721e201220a2100000 9f3 	 SD card storage performance optimized. (This feature depends on the OS. You need to restart the server to upgrade the OS.) Texture compression switch added. Data plane (audio, video, and touch access) SDK 5.0 released. 	 It takes a long time to disable virtual devices in the SDK. When the SDK is used, no frame is generated for static images. OOM issues in specific scenarios fixed by optimizing the memory management service (cph_performanc e) Compatibility issues

July 11, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 23060020230626e101210a3100000 760 	None	Stability issues of outbound audio and video streams
 Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23060020230626e201220a2100000 83c 		 Artifacts occurred when the first frame is encoded by an external encoding server Compatibility issues

June 07, 2023				
	Image ID	New Features	Bugs Fixed	
	 Image ID of flavor physical.rx1.xlarge: 23050020230601e101210a3100000 542 Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23050020230601e201220a2100000 50c 	 CAE integrated System disk is read-only. Image is not rooted. 	 Touch smoothness issues Compatibility issues 	

May 09, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 23040120230505e101210a3000000 e5a Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23040120230505e201220a2000000 80c 	 IPv6 supported. Traffic outgoing of a cloud phone server optimized to use less CPU and GPU resources. 	 Artifacts in some applications System service exceptions in certain scenarios The uiautomator dump command was abnormal. Compatibility issues

March 15, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 23010220230215e101210a3000000 	None	• Reliability issues for shared storage 2.0
5e8 ■ Image ID of flavors		 Sensor stability issues
physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4:		 uiautomator supported.
23010220230215e201220a2000000 98d		 Compatibility issues

December 15, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 22110120221209e101210a3000000 b02 Image ID of flavor physical.kg1.4xlarge.cp: 22110120221209e201220a2000000 5a6 	 WebView upgraded to 99.0.4844.88. System startup speed optimized. Native AOSP security patch integrated. Audio/Video 3.0 supports multiple game controllers. Shared storage 2.0 supports the obb directory. 	 Unresponsive touch plug-in in the audio and video SDK in some scenarios Artifacts in some applications The flow control mode for audio/video 3.0 encoding was crf, and the bit rate control was invalid.

November 04, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 22100020221101e101210a3000000 de2 Image ID of flavor physical.kg1.4xlarge.cp: 22100020221101e201220a2000000 1a2 	 Video encoding on remote servers supported. Background process management supported. Startup speed optimized. Storage 2.0 supported. 	Compatibility issues

September 16, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 22080220220915e101210a30000005 64 Image ID of flavor physical.kg1.4xlarge.cp: 22080220220915e201220a20000002 b3 	N/A	 Servers froze in specific scenarios. Cloud phones reset failures in certain scenarios Abnormal running of cloud phones in certain scenarios

August 22, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 22070320220817e101210a3000000 dfb Image ID of flavor physical.kg1.4xlarge.cp: 22070320220817e201220a2000000 29f 	 Network positioning capability provided. The Wi-Fi name can be dynamically updated. 	 The input method keyboard cloud not pop up in certain games. Frame freezing issues and OOM risks (fixed by optimizing SD card memory usage) The touch control was abnormal if the audio and video SDK was not used for a long time. Applications could not be installed in certain scenarios. Cloud phones failed to be reset due to an SD card D process. Some applications crashed.

June 20, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 22050020220530e101210a30000 0012f Image ID of flavor physical.kg1.4xlarge.cp: 22050020220530e201220a20000 00104 	 Audio and video 3.0 SDK integrated. The system language can be dynamically changed on the CLI. 	 Compatibility issues Artifacts in some scenarios The space of the system disk was full. Camera crashes in certain scenarios

January 10, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.rx1.xlarge: 21120220220105e101110a30000 00d6b Image ID of flavor physical.kg1.4xlarge.cp: 21120220220105e201120a20000 00ed2 	 Graphics processing optimized. Permanent storage of Logcat logs 	 The am restart command was abnormal. The dumpsys display command was abnormal.

3.2 AOSP 9 Image Change History of Gaming Cloud Phones

November 10, 2023

Image ID	New Features	Bugs Fixed
Image ID for servers of all flavors: 23100120231110e003101b2100000 cab	 The initialization speed of outbound audio and video streams optimized. Audio and video touch control optimized. The mode of outbound audio and video streams changed to bit rate first. GPS stability improved. The ro.horizontal.sc reen attribute can be configured to the landscape mode by default. 	 Reliability issues of shared applications Frame freezing during outbound streams when GPU hard encoding is used on the cloud phone server Stability issues of outbound audio and video streams Application crashes that happened after users use backups to restore applications in certain scenarios Stability issues of the Wi-Fi module

September 15, 2023

Image ID	New Features	Bugs Fixed
Image ID Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23080220230912e203221b2100000 4ce	 Restarting a cloud phone takes less time. Root permissions can be assigned to specific applications. Instant update of shared storage 2.0 applications supported and application data retained. Outbound stream stability of the cloud phone data plane SDK optimized. Verification of the ratio of the 	• The open video API of the data plane SDK cannot be called consecutively.
	screen capture resolution to the primary screen resolution through the data plane SDK	
	removed. The forced I-frame API of the data plane SDK was optimized to support the generation of I-frames in YUV or RGB format.	
	More stable frame supplementatio n with the data plane SDK	
	The display ratio of components in the output images through	

Image ID	New Features	Bugs Fixed
	the data plane SDK optimized.	
	The maximum bit rate of an outbound stream through the data plane SDK can be 40 Mbit/s.	

July 24, 2023

Image ID	New Features	Bugs Fixed
Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23060320230721e203221b2100000 ac3	 SD card storage performance optimized. (This feature depends on the OS. You need to restart the server to upgrade the OS.) Texture compression switch added. Data plane (audio, video, and touch access) SDK 5.0 released. 	 It takes a long time to disable virtual devices in the SDK. When the SDK is used, no frame is generated for static images. OOM issues in specific scenarios fixed by optimizing the memory management service (cph_performanc e) Compatibility issues

July 11, 2023			
	Image ID	New Features	Bugs Fixed
	 Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23060020230626e203221b2100000 	None	Stability issues of outbound audio and video streams
	813		 Artifacts occurred when the first frame is encoded by an external encoding server
			 Compatibility issues

June 07, 2023

Image ID	New Features	Bugs Fixed
 Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23050020230601e203221b2100000 15a 	 CAE integrated The system disk is read-only. The image is not in the root state. 	 Touch smoothness issues Compatibility issues

May 09, 2023

Image ID	New Features	Bugs Fixed
Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4: 23040120230505e203221b2000000 1bf	 IPv6 supported. Traffic outgoing of a cloud phone server optimized to use less CPU and GPU resources. 	 Artifacts in some applications System service exceptions in certain scenarios The uiautomator dump command was abnormal. Compatibility issues

March 15, 2023

Image ID	New Features	Bugs Fixed
Image ID of flavors physical.kg1.4xlarge.cp and physical.rx3.32xlarge.4:	None	• Reliability issues for shared storage 2.0
23010220230216e203221b2000000 1cd		 Sensor stability issues
		uiautomator supported.
		 Compatibility issues

December 15, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.kg1.4xlarge.cg: 22110120221209e203221b2000000 2f5 	 WebView upgraded to 99.0.4844.88. System startup speed optimized. Native AOSP security patch integrated. Audio/Video 3.0 supports multiple game controllers. Shared storage 2.0 supports the obb directory. 	 The unresponsive touch plug-in in the audio and video SDK in some scenarios Artifacts in some applications The flow control mode for audio/video 3.0 encoding is crf, and the bit rate control is invalid.

November 04, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.kg1.4xlarge.cg: 22100020221101e203221b2000000 489 	 Video encoding on remote servers supported. 	Compatibility issues
	 Background process management supported. 	
	 Startup speed optimized. 	
	• Storage 2.0 supported.	

September 16, 2022

Image ID	New Features	Bugs Fixed
 Image ID of flavor physical.kg1.4xlarge.cg: 22080220220916e203221b20000007 3f 	N/A	 Servers froze in specific scenarios. Cloud phones reset failures in certain scenarios Abnormal running of cloud
		phones in certain scenarios

August 22, 2022

Image ID	New Features	Bugs Fixed
Image ID of flavor physical.kg1.4xlarge.cg: 22070320220817e203221b2000000 9fd Image ID of flavor physical.kg1.4xlarge.cg: 22070320220817e203221b20000000	 Network positioning capability provided. The Wi-Fi name can be dynamically updated. 	 The input method keyboard cloud not pop up in certain games. Frame freezing issues and OOM risks (fixed by optimizing SD card memory usage) The touch control was abnormal when the audio and video SDK was not operated for a long time. Applications could not be installed in certain scenarios. Cloud phones failed to be reset due to an SD card D process. Some applications crashed.

May 31, 2022

Image ID	New Features	Bugs Fixed
Image ID of flavor physical.kg1.4xlarge.cg: 22050020220530e203221b20000009 d5	First release	First release