

KooPhone

User Guide

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Contents

1 UNI Cloud Terminal Service Process Introduction.....	1
2 Using IAM to Grant Access to KooPhone.....	4
2.1 Using IAM Roles and Policies to Grant Access to KooPhone.....	4
2.2 Using IAM Identity Policies to Grant Access to KooPhone.....	5
3 Buying UNI Cloud Terminal.....	8
4 Creating an Organization and Adding Department Members.....	11
4.1 Creating a KooPhone Organization.....	11
4.2 Adding Departments to the New Organization.....	12
4.3 Adding Members to the New Organization and Department.....	14
5 Assigning and Managing UNI Cloud Terminal Instances.....	18
5.1 Assigning Instances to Members.....	18
5.2 Viewing Instance Details.....	18
5.3 Managing Instances.....	20
5.3.1 Restarting an Instance.....	20
5.3.2 Powering on an Instance.....	20
5.3.3 Powering off an Instance.....	21
5.3.4 Renewing an Instance.....	21
5.3.5 Unsubscribing from an Instance.....	22
5.3.6 Deleting an Instance.....	22
5.3.7 Backing Up Cloud Phone Data.....	23
5.3.8 Recovering Cloud Phone Data.....	23
6 Deploying and Managing UNI Cloud Terminal Apps.....	24
6.1 Managing a UNI Cloud Terminal App Library.....	24
6.2 Querying Deployment Details of a UNI Cloud Terminal App.....	27
7 Setting Security Control Policies for UNI Cloud Terminal.....	29
7.1 Setting Anti-screen Capture for UNI Cloud Terminal.....	29
7.2 Setting Video Watermark for UNI Cloud Terminal.....	30
7.3 Setting App Blacklist/Whitelist for UNI Cloud Terminal.....	30
7.4 Setting Encrypted Transmission for UNI Cloud Terminal.....	32
8 Configuring CORS for Cross-Domain Access to UNI Cloud Terminal.....	34

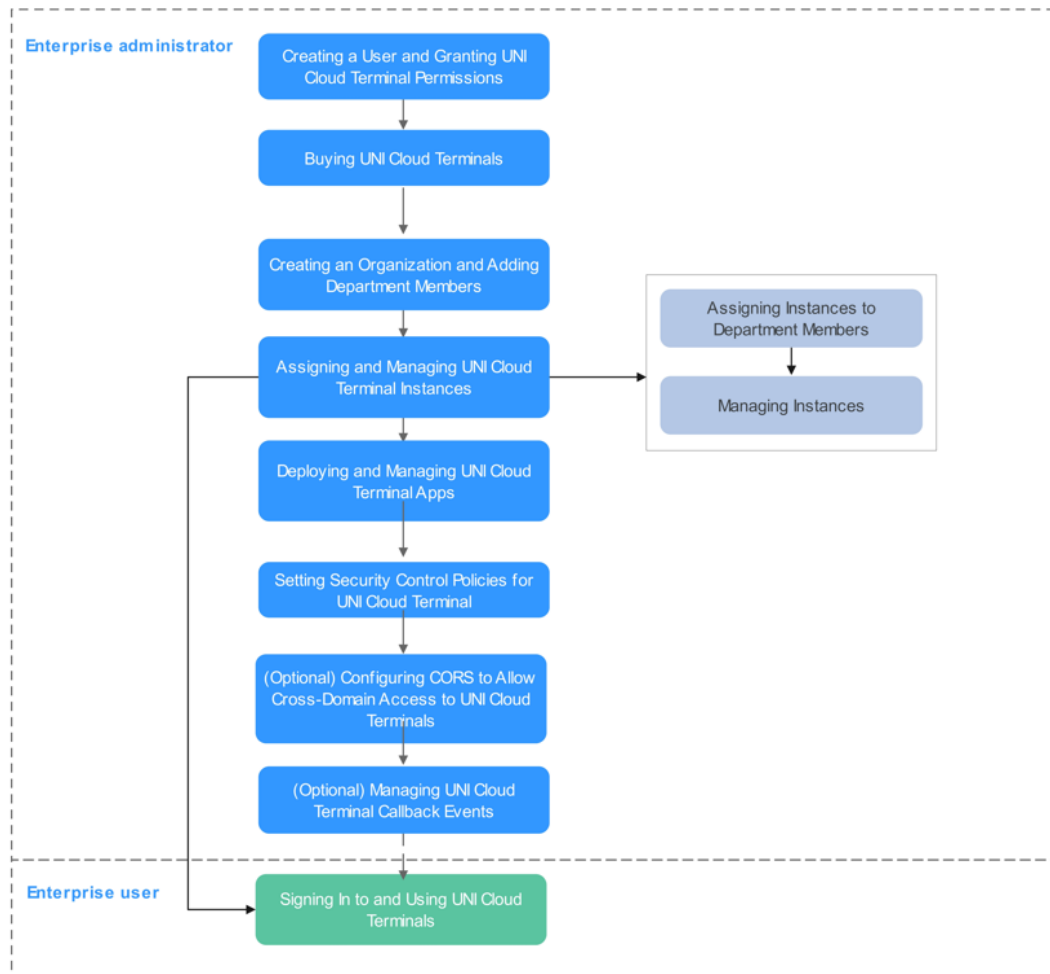
9 Managing UNI Cloud Terminal Callback Events.....	36
10 Signing In to and Using UNI Cloud Terminal.....	38
10.1 Downloading the UNI Cloud Terminal Client.....	38
10.2 Signing In to the UNI Cloud Terminal Client.....	38
10.3 Setting Cloud Phones Permissions.....	39
10.4 Setting the Cloud Phone.....	40
10.5 Accessing a Cloud Phone Desktop and Using the Cloud Phone.....	41

1 UNI Cloud Terminal Service Process Introduction

Huawei Cloud KooPhone is a user-friendly and secure cloud service oriented for enterprises and Internet customers. It uses core technologies such as Arm server virtualization, audio/video codec, and real-time transmission, and has a rich app ecosystem of Huawei devices.

Figure 1-1 shows the process of using UNI Cloud Terminal.

Figure 1-1 UNI Cloud Terminal usage process



1. **Creating a User and Granting UNI Cloud Terminal Permissions**

Create IAM users and grant them permissions to access and operate Huawei Cloud resources for fine-grained permissions control.

2. **Buying UNI Cloud Terminal**

UNI Cloud Terminal is available in the professional edition. For details, see **Instance Specifications**.

3. **Creating an Organization and Adding Department Members**

After purchasing UNI Cloud Terminal for the first time, the administrator needs to create an organization, departments, and members so that the UNI Cloud Terminal instances can be assigned to department members.

4. **Assigning and Managing UNI Cloud Terminal Instances**

UNI Cloud Terminal instances can be bound to the organization members so that they can use them. You can restart, start, stop, renew, and delete the instances on the console.

5. **Deploying and Managing UNI Cloud Terminal Apps**

After uploading an app to the app library on the console, you can select multiple UNI Cloud Terminal instances to install the app for centralized management and maintenance.

6. **Setting Security Control Policies for UNI Cloud Terminal**

Administrators can set management and control policies for UNI Cloud Terminals, such as anti-screen capture, video watermark, app blacklist and whitelist, and data stream transmission, to improve mobile office security.

7. **Configuring CORS for Cross-Domain Access to UNI Cloud Terminal**

An administrator can configure cross-origin resource sharing (CORS) rules for UNI Cloud Terminal to allow cross-domain requests.

8. **Managing UNI Cloud Terminal Callback Events**

You can set the callback event type and address for receiving callback event notifications on the console.

9. **Signing In to and Using UNI Cloud Terminal**

Enterprise users can visit the link in the email notification to download and install the client and use UNI Cloud Terminal after logging in to the client.

2 Using IAM to Grant Access to KooPhone

2.1 Using IAM Roles and Policies to Grant Access to KooPhone

You can use **Identity and Access Management (IAM)** to perform **role- and policy-based permissions management** for your KooPhone resources. With IAM, you can:

- Create users or user groups for employees from different functional departments based on your enterprise's organizational structure using your Huawei ID. Each employee has their own identity credentials for accessing KooPhone resources.
- Grant users only the permissions required to perform a given task based on their job responsibilities.
- Entrust a Huawei Cloud account or a cloud service to perform professional and efficient O&M on your KooPhone resources.

If your Huawei Cloud account meets your requirements and you do not need to create an individual IAM user, you can skip this section.

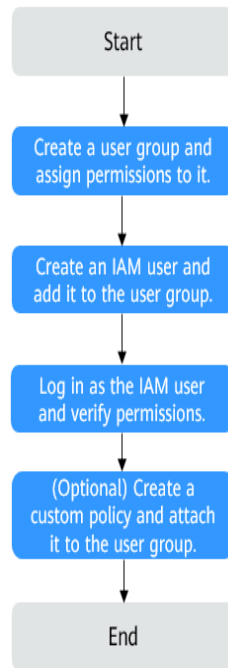
Figure 2-1 shows the process flow of role/policy-based authorization.

Prerequisites

Before granting permissions to a user group, learn about permissions in **Role/Policy-based Permissions Management** for KooPhone and select the permissions as needed. To grant permissions for other services, learn about all **system-defined permissions** supported by IAM.

Process Flow

Figure 2-1 Process for granting KooPhone permissions



1. **Create a user group and assign permissions.**
On the IAM console, create a user group and grant it the KooPhone ReadOnlyUser permission or the KooPhone Administrator role with all operation permissions.
2. **Create a user and add it to the user group.**
On the IAM console, create a user and add it to the user group created in 1.
3. **Log in as an IAM user** and verify the user's permissions.
Log in to the KooPhone console as an authorized user. On the **Overview** page, if you can view the instance list, the KooPhone ReadOnlyUser permission has taken effect. If you can purchase UNI Cloud Terminal, the KooPhone Administrator role with all operation permissions has taken effect.

2.2 Using IAM Identity Policies to Grant Access to KooPhone

You can use **Identity and Access Management (IAM)** to perform **identity policy-based permissions management** for your KooPhone resources. With IAM, you can:

- Create users or user groups for employees from different functional departments based on your enterprise's organizational structure using your

Huawei ID. Each employee has their own identity credentials for accessing KooPhone resources.

- Grant users only the permissions required to perform a given task based on their job responsibilities.
- Entrust a Huawei Cloud account or a cloud service to perform professional and efficient O&M on your KooPhone resources.

If your Huawei Cloud account meets your requirements, you can skip this section.

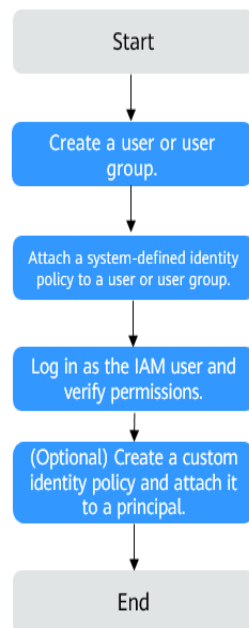
Figure 2-2 shows the process flow of identity policy-based authorization.

Prerequisites

Before granting permissions, learn about system-defined permissions for KooPhone and select the permissions as needed. For details about the system-defined identity policies supported by KooPhone, see [Identity Policy-based Permissions Management](#). To grant permissions for other services, learn about all [system-defined permissions](#) supported by IAM.

Process Flow

Figure 2-2 Process for granting KooPhone permissions



To grant the KooPhone permissions, perform the following steps:

1. **Create an IAM user or create a user group.**
Log in to the IAM console and create a user or user group.
2. **Attach an identity policy to a principal.**
Assign or attach the system-defined identity policy with read-only permissions or all permissions to the user or user group.

3. **Log in as an IAM user** and verify the user's permissions.
Log in to the KooPhone console as an authorized user. On the **Overview** page, if you can view the instance list, the KooPhone ReadOnlyUser permission has taken effect. If you can purchase UNI Cloud Terminal, the KooPhone Administrator role with all operation permissions has taken effect.

Example Custom Identity Policies

You can create custom identity policies to supplement the system-defined identity policies of KooPhone. For details about actions supported in custom identity policies, see [Identity policy](#).

Currently, Huawei Cloud supports the following methods to create a custom identity policy:

- Visual editor: Select cloud services, actions, resources, and request conditions. This does not require knowledge of policy syntax.
- JSON: Create a JSON policy or edit an existing one.

For details, see [Creating a Custom Identity Policy](#).

The following provides example custom identity policies for KooPhone.

- Example 1: Allowing users to view available SKUs

```
{
  "Version": "5.0",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "koophone:cloudphonerresource:querySku"
      ]
    }
  ]
}
```

- Example 2: Allowing users to view available SKUs and unsubscribed instances

```
{
  "Version": "5.0",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "koophone:cloudphonerresource:onDemandDelete",
        "koophone:cloudphonerresource:querySku"
      ]
    }
  ]
}
```

3 Buying UNI Cloud Terminal

UNI Cloud Terminal provides instances of different flavors. You can buy them as required.

Prerequisites

1. Operations required in [Signing up for a HUAWEI ID and Enabling Huawei Cloud Services](#) have been completed.
2. Operations required in [Real-Name Authentication](#) have been completed.

Buying UNI Cloud Terminal

Step 1 Log in to the [KooPhone console](#). The KooPhone overview page is displayed.

Step 2 Click **Buy Now** on the page to go to the page for buying UNI Cloud Terminal.

You can also go to the page in either of the following ways:

- Go to the **Cloud Terminal Quick Start** page, and click **Cloud Phone > To Buy**.
- On the **Recommended Cloud Phones** page, select the required flavor and click **Buy Now**.

Step 3 Complete basic settings as prompted and based on [Table 3-1](#).

Table 3-1 Parameters

Parameter	Description
Billing Mode	<p>Yearly/Monthly or pay-per-use. For details, see Billing.</p> <ul style="list-style-type: none"> Yearly/Monthly: You can set the required duration. The system deducts fees at a time based on the purchase price. <p>NOTICE</p> <p>Yearly/Monthly instances cannot be deleted. They can only be renewed or unsubscribed from. If you do not need an instance anymore, switch to the instance list, locate the instance, click More in the Operation column, and select Unsubscribe.</p> Pay-per-use: You do not need to set the required duration when buying the pay-per-use UNI Cloud Terminal. The system deducts fees based on your actual usage duration. The billing starts when an instance is successfully created. <p>NOTICE</p> <ul style="list-style-type: none"> Pay-per-use instances cannot be unsubscribed from. To stop using such an instance, choose More > Delete in the Operation column on the instance list page. For details, see Deleting an Instance. If you choose Pay-per-use, ensure that your account has sufficient balance. If not, top up your account by referring to Topping Up an Account.
Region	Cloud phones in different regions cannot communicate with each other over an intranet. For lower network latency and quicker resource access, select the nearest region.
Instance Specifications	<ul style="list-style-type: none"> The following is the available option. Professional edition is available. For details, see Instance Specifications.
Mirroring	OS on which the instance runs. Currently, only Android is supported.
Networking	EIP or ADN.
Cloud Phone Bandwidth	This parameter is mandatory when the actual specification type is selected for Instance Specifications . The bandwidth varies depending on the instance specifications. For example, if Instance Specifications is displayed as Professional 4vCPUs 8GB 64GB 720p , the bandwidth is 4 Mbit/s.
Duration	<ul style="list-style-type: none"> Required Duration: Sets the service duration if you select the Yearly/Monthly billing mode. The service duration ranges from one month to three years. Auto-renew: <ul style="list-style-type: none"> Monthly subscriptions renew each month. Yearly subscriptions renew each year. For details, see Auto-renewing a Cloud Phone.
Quantity	Number of UNI Cloud Terminal to purchase. The value ranges from 1 to 1500.

Step 4 Read and agree to the agreement. Confirm the information and click **Pay Now**.

 **NOTE**

Skip this step if you select **Pay-per-use**.

Wait for several minutes. If the instances are displayed in the instance list, the purchase or subscription is successful.

----End

Follow-Up Operations

After UNI Cloud Terminal is successfully purchased, you can view the instance status, name, and other information on the **Instance Management** page.

The newly purchased UNI Cloud Terminal is not assigned to any user. Create an organization and add users as required. For details, see [Creating an Organization and Adding Department Members](#).

4 Creating an Organization and Adding Department Members

4.1 Creating a KooPhone Organization

After buying UNI Cloud Terminal for the first time, create an organization as an administrator. The Huawei account automatically becomes the organization creator, that is, the tenant administrator, and has all management permissions of the organization. You can assign a purchased instance to an enterprise user only after the organization and user are created.

Constraints

An account can create up to five organizations.

Prerequisites

You have bought an instance on the console.

Creating a KooPhone Organization

- Step 1** Log in to the [KooPhone](#) console. The KooPhone overview page is displayed.
- Step 2** In the navigation pane, choose **UNI Cloud Terminal > Organizations and Users**.
- Step 3** Click **Create Organization** and set parameters according to [Table 4-1](#).

Table 4-1 Parameters for creating an organization

Parameter	Description
organization name	Enter the organization name. The name contains 1 to 60 characters, including letters, digits, and brackets.

Parameter	Description
domain name	<p>Enter the organization domain name.</p> <p>The domain name can contain 2 to 30 characters, including letters, digits, periods (.), hyphens (-), or their combinations, for example, example. The suffix is fixed at .orgid.top.</p> <p>A domain name refers to the content following www. in a website address. For example, example.com in www.example.com is a domain name. Alternatively, a domain name refers to the content following the at sign (@) in an email address. For example, example.com in username@example.com is a domain name.</p>

Step 4 Read and agree to the statement and click **Create**.

----End

4.2 Adding Departments to the New Organization

On the department management page, an administrator can add departments and sub-departments, and edit and delete departments to maintain the organizational structure.

Adding Departments to the New Organization

- Step 1** Log in to the [KooPhone console](#). The KooPhone overview page is displayed.
- Step 2** In the navigation pane, choose **UNI Cloud Terminal > Organizations and Users**.
- Step 3** In the upper left corner of the page, select the organization whose department structure needs to be optimized.
- Step 4** Choose **Manage Dept > Add Dept**.
- Step 5** Set **Dept Name**, **Upper-Level Dept**, and (optional) **Dept Code**, and click **OK**.

Figure 4-1 Adding a department

NOTE

After setting the department code, you can search for a department by code on the department management page.

----End

Follow-Up Operations

After adding a department, you can perform the following operations.

Table 4-2 Department management

Operation	Procedure
Editing a department	1. Edit the department information and click Update . NOTE By default, a level-1 department is generated for the created organization and this department cannot be edited.
Adding a sub-department	1. Locate the row that contains the target department and click Add Sub-dept in the Operation column. 2. Set Dept Name and (optional) Dept Code and click OK .
Deleting a department	1. Locate the target department and click Delete in the Operation column. 2. Click OK . NOTE <ul style="list-style-type: none"> Before deleting a department, delete all its sub-departments. Or, the department cannot be deleted. Deleted departments cannot be restored.

4.3 Adding Members to the New Organization and Department

On the member management page, an administrator can check member details, add or remove members, change member departments, and invite users with personal Huawei accounts to organizations or management departments.

Constraints

By default, an organization can have up to 200 members, including those invited.

Adding Members to the New Organization and Department

- Step 1** Log in to the [KooPhone](#) console. The KooPhone overview page is displayed.
- Step 2** In the navigation pane, choose **UNI Cloud Terminal > Organizations and Users**.
- Step 3** In the upper left corner of the page, select the organization to which you want to add members. Click **Create Member** on the **Manage Member** tab page.
- Step 4** Enter member information by referring to [Table 4-3](#), and click **Save**.

Table 4-3 Parameters for creating a member

Parameter	Description
Member Name	Name of a member. A maximum of 20 characters are allowed. Spaces are not allowed.
Member Account	Account set by the administrator for a member. Enter the first half of the account. By default, the organization domain name suffix is included, for example, zhangsan01@abc.orgid.top .
Mobile Number	Mobile number of the member. This parameter is required when the email address of the member is not specified.
Email Address	Email address of the member. This parameter is required when the mobile number of the member is not specified.
Set Password	Password set by the administrator for the member. You can select Auto generated or Set now . The password must be a combination of digits and letters that contains at least eight characters and cannot contain three consecutive identical characters. NOTE The member needs to change the password upon the first sign-in.
Dept	Department to which the member belongs.
(Optional) More Information	Employee ID, Position, User Group, and Expired (account expiration time)

----End

Inviting a Member

- Step 1** In the upper left corner of the **Organizations and Users** page, select an organization.
- Step 2** Click **Invite Member** on the member management page.
- Step 3** Enter the information about the member and click **OK**. [Table 4-4](#) describes the parameters.

Table 4-4 Parameters for inviting a member

Parameter	Description
Name	Name of a member. Enter up to 20 characters.
Mobile Number	Mobile number of the member. This parameter is required when the email address of the member is not specified.
Email	Email address of the member. This parameter is required when the mobile number of the member is not specified.
Valid for	The members invited must sign in to the system and activate the account within three days.

----End

Importing Members

- Step 1** In the upper left corner of the **Organizations and Users** page, select an organization.
- Step 2** Click **Batch Import Members** on the member management page.
- Step 3** Click **DownloadFile Template** to download the CSV file template, complete member information, and upload the edited file.
- Step 4** Click **OK** to import members in batches.
On the **Manage Member** page, click **Import History** to check the historical information about the imported members.

----End

Checking Member Details

- Step 1** In the upper left corner of the **Organizations and Users** page, select an organization.
- Step 2** Click **Manage Member** and select the department to which the member belongs. You can search for a department name and select the department in the search result.

Step 3 Locate the row that contains the target member and click **View Details** in the **Operation** column. The **Member Details** page is displayed.

Edit the member information.

----End

Resetting a Password

You can reset passwords of managed Huawei IDs of **members added to your organization**.

Step 1 In the upper left corner of the **Organizations and Users** page, select an organization.

Step 2 Click **Manage Member** and select the target department. You can search for a department name and select the department in the search result.

Step 3 Locate the row that contains the target member and click **Reset Password** in the **Operation** column.

Step 4 On the **Reset Password** page, select **Generate automatically** or **Set manually**. If you select **Set manually**, enter a password. After setting the password, click **OK**.

----End

Changing the Department

Step 1 In the upper left corner of the **Organizations and Users** page, select an organization.

Step 2 Click **Manage Member** and select the target department. You can search for a department name and select the department in the search result.

Step 3 Locate the row that contains the target member, choose **More > Change Dept** in the **Operation** column, select the destination department, and click **OK**.

----End

Renewing an Account

Step 1 In the upper left corner of the **Organizations and Users** page, select an organization.

Step 2 Click **Manage Member** and select the target department. You can search for a department name and select the department in the search result.

Step 3 Locate the row that contains the target member, choose **More > Renew** in the **Operation** column, select the new expiration time, and click **OK**.

----End

Freezing or Unfreezing a Member

Step 1 In the upper left corner of the **Organizations and Users** page, select an organization.

Step 2 Click **Manage Member** and select the target department. You can search for a department name and select the department in the search result.

Step 3 Locate the row that contains the target member and choose **More > Freeze** in the **Operation** column.

 **NOTE**

- Only accounts in the **Normal** state can be frozen.
- Frozen accounts cannot be used.
- You can choose **More > Unfreeze** to unfreeze an account.

----End

Removing a Member

Step 1 In the upper left corner of the **Organizations and Users** page, select an organization.

Step 2 Click **Manage Member** and select the target department. You can search for a department name and select the department in the search result.

Step 3 Locate the row that contains the target member, choose **More > Remove** in the **Operation** column, and click **OK**.

 **NOTE**

- Accounts in the **Normal** state cannot be removed. Only accounts in the **Frozen** state can be removed.
- Removed members can no longer use their accounts.

----End

5 Assigning and Managing UNI Cloud Terminal Instances

5.1 Assigning Instances to Members

After buying an instance, you need to assign it to a user so that the user can use UNI Cloud Terminal. This section describes how to unbind or bind a user on the console.

Step 1 Log in to the [KooPhone](#) console. The KooPhone overview page is displayed.

Step 2 In the navigation pane, choose **UNI Cloud Terminal > Instance Management**.

Step 3 In the instance list, locate the target instance.

- Unbinding a user: Click **Unbind User** in the **Operation** column on the right to unbind the instance from the user. The unbinding is successful, and the user's mobile number receives an email.

 **CAUTION**

Unbinding the user will initialize the instance and clear personal data.

- Binding a user: Click **Bind User** in the **Operation** column on the right.
 - a. On the displayed page, select an organization and a user, and click **OK**. You can enter a username or account to search for a user.
 - b. Confirm the user information and click **OK**.

----End

5.2 Viewing Instance Details





On the instance management page, you can view details about the instance in the instance list. Click  in the upper right corner above the list to customize columns. For details about mandatory and optional parameters, see [Table 5-1](#).

Table 5-1 Parameters

Parameter	Mandatory	Description
Instance Name/ID	Yes	The instance name is the name displayed when you purchase UNI Cloud Terminal. The instance ID is assigned by the system to identify an instance.
Region	Yes	Location of the physical data center of UNI Cloud Terminal. Different regions indicate different physical distances between a physical data center and users, as well as different levels of network latency. NOTE The region can only be set when you buy UNI Cloud Terminal.
Flavors	Yes	Flavor of UNI Cloud Terminal, including the vCPU and memory.
Running Status	Yes	Stopped, Running, Taking offline, Starting, or Powered off.
Login Status	No	Signed in or Signed out . Signed in indicates the cloud phone is streaming. Signed out indicates that the cloud phone is not streaming.
Assignment Status	No	Assigned or not assigned.
Username	No	Username set by the administrator for a member.
Account	No	Account name set by the administrator for a member.
Backup Status	Yes	Not Backed Up or Backup Is Completed
Restorative State	Yes	Not Recovered or Recovery Completed
Billing Mode	Yes	Yearly/Monthly or pay-per-use. The countdown to the expiration time or status information is also displayed. <ul style="list-style-type: none">• Normal: The expiration countdown is displayed (yearly/monthly) or the instance creation time is displayed (pay-per-use).• Frozen upon expiration: The Frozen state and deletion countdown are displayed.

Select one or more instances to restart, power on, power off, renew, unsubscribe, or delete them, or uninstall apps. For details about how to uninstall apps, see [Uninstalling an App](#).

- Click the instance ID to check information such as the name, region, flavor, and username. Enter a keyword in the search box or click  next to **Running Status** to filter data.
- Click  on the right to search for instances that meet the criteria.
- Click  in the upper right corner to refresh all instances.

5.3 Managing Instances

5.3.1 Restarting an Instance

This section describes how to restart an instance on the console.

Prerequisites

Only instances in the **Running** status can be restarted.

Restarting an Instance

Step 1 Log in to the **KooPhone** console. The KooPhone overview page is displayed.

Step 2 In the navigation pane, choose **UNI Cloud Terminal > Instance Management**.

Step 3 Choose either of the following restarting modes:

- In the instance list, select one or more target instances and click **Restart** in the upper left corner above the list.
- In the instance list, locate a target instance and choose **Restart** in the **Operation** column on the right.

Step 4 In the displayed dialog box, click **OK**.

----End

Result

The instance status is **Running**.

5.3.2 Powering on an Instance

This section describes how to power on an instance on the console.

Prerequisites

Only instances in the **Stopped** or **Powered off** status can be powered on.

Powering on an Instance

Step 1 Log in to the **KooPhone** console. The KooPhone overview page is displayed.

Step 2 In the navigation pane, choose **UNI Cloud Terminal > Instance Management**.

Step 3 Choose either of the following power-on modes:

- In the instance list, select one or more target instances and click **Power On** in the upper left corner above the list.
- In the instance list, locate a target instance and choose **More > Power On** in the **Operation** column on the right.

Step 4 In the displayed dialog box, click **OK**.

----End

Result

The instance status is **Running**.

5.3.3 Powering off an Instance

This section describes how to power off an instance on the console.

Prerequisites

Only instances in the **Running** status can be powered off.

Powering off an Instance

Step 1 Log in to the **KooPhone** console. The KooPhone overview page is displayed.

Step 2 In the navigation pane, choose **UNI Cloud Terminal > Instance Management**.

Step 3 Choose either of the following power-off modes:

- In the instance list, select one or more target instances and click **Power Off** in the upper left corner above the list.
- In the instance list, locate a target instance and choose **More > Power Off** in the **Operation** column on the right.

Step 4 In the displayed dialog box, click **OK**.

----End

Result

The instance status is **Powered off**.

5.3.4 Renewing an Instance

This section describes how to renew an instance that is billed on a yearly/monthly basis before it expires.

Renewing an Instance

Step 1 Log in to the **KooPhone** console. The KooPhone overview page is displayed.

Step 2 In the navigation pane, choose **UNI Cloud Terminal > Instance Management**.

Step 3 Choose either of the following renewal modes:

- In the instance list, select one or more target instances and click **Renew** in the upper left corner above the list.
- In the instance list, locate a target instance and choose **More > Renew** in the **Operation** column on the right.

Step 4 In the displayed dialog box, click **OK**.

Step 5 The renewal page is displayed.

Confirm the target instance again and drag the slider to adjust **Renewal Duration**.

If you select **Renew on the standard renewal date**, all instances you renew this time will be renewed on the *X* day (the first day by default) of each month. You can click the edit icon to customize a date.

Step 6 After the settings are complete, click **Pay** and complete the payment as prompted.

----End

5.3.5 Unsubscribing from an Instance

This section describes how to unsubscribe from an instance that is billed on a yearly/monthly basis within the billing period.

Unsubscribing from an Instance

Step 1 Log in to the **KooPhone** console. The KooPhone overview page is displayed.

Step 2 In the navigation pane, choose **UNI Cloud Terminal > Instance Management**.

Step 3 Choose either of the following unsubscribing modes:

- In the instance list, select one or more target instances and click **Unsubscribe** in the upper left corner above the list.
- In the instance list, locate a target instance and choose **More > Unsubscribe** in the **Operation** column on the right.

Step 4 In the displayed dialog box, click **OK**.

Step 5 The unsubscription page is displayed.

Confirm the instances to be unsubscribed from again.

Step 6 Select the unsubscription reason and confirm the unsubscription operation.

Step 7 Click **Unsubscribe** in the lower right corner.

Step 8 In the displayed dialog box, check the resources to be unsubscribed and deleted and click **OK**.

----End

5.3.6 Deleting an Instance

This section describes how to delete a pay-per-use instance.

Deleting an Instance

- Step 1** Log in to the **KooPhone** console. The KooPhone overview page is displayed.
- Step 2** In the navigation pane, choose **UNI Cloud Terminal > Instance Management**.
- Step 3** In the instance list, select one or more target instances and click **Delete** in the upper left corner above the list.
- Step 4** In the displayed dialog box, click **OK**.
- End

5.3.7 Backing Up Cloud Phone Data

This section describes how to back up cloud phone data.

Backing Up Data

- Step 1** Log in to the **KooPhone** console. The KooPhone overview page is displayed.
- Step 2** In the navigation pane, choose **UNI Cloud Terminal > Instance Management**.
- Step 3** In the instance list, select the target instance and choose **More > Data Backup** in the **Operation** column on the right.
- Step 4** Set **Storage Location** and click **OK**.
- Backup path: *Backup bucket name/koophone_backup/{Cloud phone ID}_{timestamp}*
 - If no OBS bucket is available, click **New OBS**.
 - This operation is unavailable for devices in streaming.
- End

5.3.8 Recovering Cloud Phone Data

This section describes how to recover cloud phone data.

Recovering Data

- Step 1** Log in to the **KooPhone** console. The KooPhone overview page is displayed.
- Step 2** In the navigation pane, choose **UNI Cloud Terminal > Instance Management**.
- Step 3** In the instance list, select the target instance and choose **More > Data Recovery** in the **Operation** column on the right.
- Step 4** Set **Storage Location**, select the target folder, enter the information as prompted, and click **OK**.
- Data recovery takes about 4 to 5 minutes. The cloud phone is out of service during this period.
- End

6 Deploying and Managing UNI Cloud Terminal Apps

6.1 Managing a UNI Cloud Terminal App Library

Uploading an App

- Step 1** Log in to the [KooPhone](#) console. The KooPhone overview page is displayed.
- Step 2** In the navigation pane on, choose **UNI Cloud Terminal > App Deployment > App Library**.
- Step 3** On the app library management page, click **Upload App**.
- Step 4** In the displayed dialog box, set parameters by referring to [Table 6-1](#) and click **OK**.

Figure 6-1 Dialog box for uploading an app

Upload App ×

App Name


Description 0/100

Upload From

Upload App

Upload only one APK file.

Table 6-1 App parameters

Parameter	Description
App Name	App name entered when you upload an app. The name can contain 1 to 20 characters, including only letters, digits, hyphens (-), underscores (_), and periods (.).
Description	App description entered when you upload an app. The name can contain 1 to 100 characters, including only letters, digits, hyphens (-), underscores (_), commas (,), and periods (.).
Upload From	Region of the purchased instance. You can select a region from the drop-down list.
Upload App	Local app file to be uploaded, which must be an APK file. <ul style="list-style-type: none">Click Add File and select a local file. Only one file can be uploaded at a time.Click  to delete the temporarily uploaded app package and upload a new one.

Step 5 When the message "App uploaded" is displayed, click **OK**.

----End

Viewing the App Library Management Page

You can upload and delete app packages, and install apps on specified instances.






By default, the app list displays the app name, app package name, version number, upload area, and upload time. Click  in the upper right corner above the list to customize columns. For details about mandatory and optional parameters, see [Table 6-2](#).

Table 6-2 Parameters

Parameter	Mandatory	Description
App Name	Yes	App name entered during app upload. A name contains up to 20 characters. This parameter is a criterion in the search box.
App Package Name	Yes	Name of a local app. This parameter is a criterion in the search box.
App Version Number	Yes	Version number of the local app, which can be used for version comparison.

Parameter	Mandatory	Description
Upload From	No	Region of the instance. You can click  to filter regions.
Uploaded	No	Time when the app was uploaded.
Operation	Yes	Displays the Install button.
Description	No	App description entered during app upload. The value contains up to 100 characters. NOTE By default, the app description is not displayed in the app list. You can choose to display it when customizing columns.

- Click the app name to check the app package name. Enter a keyword in the search box or click  next to **Upload From** to filter data.
- Click  on the right to search for apps that meet the criteria.
- Click  in the upper right corner to refresh all apps.
- Click **Uninstall** above the app list to go to the **Instance Management** page. For details, see [Uninstalling an App](#).

Deleting an App

- Step 1** In the app list on the **App Library** page, select one or more apps to be deleted.
- Step 2** Click **Delete App** in the upper left corner above the list.
- Step 3** Check the app name and other information. In the **Confirm** dialog box, enter information as prompted and click **OK**.

 CAUTION

Batch deletion will clear app upload records in all upload regions.

- Step 4** When the message "App Deleted" is displayed, click **OK**.

----End

Installing an App

- Step 1** In the app list on the **App Library** page, locate the app to be installed.
- Step 2** Click **Install** in the **Operation** column on the right.
- Step 3** Select an instance where the app is to be installed and click **OK**.

 NOTE

- The list displays all purchased instances. You can click an instance name to check the flavor and username, or enter a keyword in the search box or click the filter button next to **Running Status** to filter data.
- Apps can only be installed on running UNI Cloud Terminal.

Step 4 When the message "Install App Requested" is displayed, click **OK**.

 NOTE

It takes some time to install the app. You can click **App Query** to check the installation progress.

----End

Uninstalling an App

Step 1 Log in to the **KooPhone** console. The KooPhone overview page is displayed.

Step 2 In the navigation pane, choose **UNI Cloud Terminal > Instance Management**.

Step 3 Uninstall an app from one or more instances.

- In the instance list, select one or more instances and choose **More > App uninstallation** in the upper left corner above the list.
- In the instance list, locate an instance and choose **More > App uninstallation** in the **Operation** column.

Step 4 In the displayed dialog box, enter the app package name and click **OK**.

 NOTE

- When an app is uninstalled from multiple instances, a dialog box is displayed, showing the list of all instances with this app installed.
- Apps can only be uninstalled from running UNI Cloud Terminal.

Step 5 When the message "Uninstall App Requested" is displayed, click **OK**.

 NOTE

It takes some time to uninstall the app. You can click **App Query** to check the uninstallation progress.

----End

6.2 Querying Deployment Details of a UNI Cloud Terminal App

The **App Query** page displays app installation and uninstallation tasks.



- Enter an app package name in the search box or click  next to the task type or status to filter data.
- By default, the task list displays the task ID, task type, app package name, number of instances, delivery time, and execution status. Click  in the upper right corner above the list to customize columns. For details about mandatory and optional parameters, see [Table 6-3](#).

Table 6-3 Parameters

Parameter	Description
Task ID	(Mandatory) It is automatically generated by the system to distinguish tasks.
Task Type	(Optional) App installation or App uninstallation .
App Package Name	(Mandatory) Name of a local app. This parameter is a criterion in the search box.
Instances	(Optional) Number of instances selected when an app installation or uninstallation task is created.
Delivered	(Optional) Time when the task is created.
Execution Status	(Mandatory) Execution status of the task. The status can be executing or completed .
Operation	(Mandatory) You can view task details.

Viewing App Task Details

You can query the execution results of a created app installation or uninstallation task.

- Step 1** Log in to the [KooPhone](#) console. The KooPhone overview page is displayed.
- Step 2** In the navigation pane on the left, choose **UNI Cloud Terminal > App Deployment > App Query**.
- Step 3** Click **View Details** in the **Operation** column on the right of a task.
- Step 4** On the **App Deployment Details** page, view details and click **OK**.

NOTE

The list displays the execution results of all instances in the task. You can enter the app package name in the search box or click the filter button next to the execution result to filter the instances.

Cloud phone instances are sorted by execution result in the following sequence: **Failed > Executing > Unexecuted > Successful**.

Click the settings button in the upper right corner of the list to customize the parameters displayed in the list. Only **Task Type**, **Instances**, and **Delivered** are optional. Other parameters are mandatory.

----End

7 Setting Security Control Policies for UNI Cloud Terminal

7.1 Setting Anti-screen Capture for UNI Cloud Terminal

UNI Cloud Terminal provides the anti-screen capture function. You can enable or disable this function on the console for purchased instances to enhance security and protect privacy. After this function is enabled, users are not allowed to take screenshots when using the client.

Enabling Anti-screen Capture

After the anti-screen capture function is enabled on the console, the user cannot take screenshots when using UNI Cloud Terminal.

- Step 1** Log in to the [KooPhone](#) console. The KooPhone overview page is displayed.
- Step 2** In the navigation pane, choose **UNI Cloud Terminal > Security Management > Anti-screen Capture**.
- Step 3** In the instance list, select one or more instances to be enabled and click **Enable** in the upper left corner above the list.
- Step 4** On the displayed page, confirm the instance information and click **OK**.
- Step 5** When the message "Enabled" is displayed, click **OK**.

----End

Disabling Anti-screen Capture

You can disable the anti-screen capture function for UNI Cloud Terminal.

- Step 1** In the instance list, select one or more instances to be disabled and click **Disable** in the upper left corner above the list.
- Step 2** On the displayed page, confirm the instance information and click **OK**.

Step 3 When the message "Disabled" is displayed, click **OK**.

----End

7.2 Setting Video Watermark for UNI Cloud Terminal

UNI Cloud Terminal provides the video watermark function. You can enable or disable this function on the console for purchased instances to enhance security and protect privacy.

After the video watermark function is enabled, visible watermarks of the ID are added to the image of the UNI Cloud Terminal client.

Enabling Video Watermark

Step 1 Log in to the **KooPhone** console. The KooPhone overview page is displayed.

Step 2 In the navigation pane, choose **UNI Cloud Terminal > Security Management > Video Watermark**.

Step 3 In the instance list, select one or more instances to be enabled and click **Enable** in the upper left corner above the list.

Step 4 On the displayed page, confirm the instance information and click **OK**.

Step 5 When the message "Enabled" is displayed, click **OK**.

After the video watermark function is enabled, visible watermarks of the ID are added to the image of the UNI Cloud Terminal client.

----End

Disabling Video Watermark

You can disable the video watermark function for UNI Cloud Terminal.

Step 1 In the instance list, select one or more instances to be disabled and click **Disable** in the upper left corner above the list.

Step 2 On the displayed page, confirm the instance information and click **OK**.

Step 3 When the message "Disabled" is displayed, click **OK**.

----End

7.3 Setting App Blacklist/Whitelist for UNI Cloud Terminal

On the **App Blacklist/Whitelist** page, you can create an app blacklist and whitelist to implement app-level security control on the use of UNI Cloud Terminal.

After an app blacklist/whitelist is created, the blacklisted apps cannot be installed on UNI Cloud Terminal associated with the blacklist, and only the whitelisted apps can be installed on UNI Cloud Terminal associated with the whitelist.

Enabling a Blacklist/Whitelist

Step 1 In the list area, locate a created blacklist or whitelist.

 **NOTE**

All lists created by all other tenants are displayed.

Step 2 Click **Enable** in the **Operation** column to use it.

----End

Creating a Blacklist/Whitelist

If no blacklist/whitelist is available for an app, you can create one.

Step 1 Log in to the **KooPhone** console. The KooPhone overview page is displayed.

Step 2 In the navigation pane, choose **UNI Cloud Terminal > Security Management > App Blacklist/Whitelist**.

Step 3 On the **App Blacklist/Whitelist** page, click **Create Blacklist/Whitelist**. Enter the blacklist or whitelist information by referring to **Table 7-1** and click **Next**.

Table 7-1 Blacklist or whitelist information

Parameter	Description
List Name	User-defined list name, which can contain 1 to 20 characters, including only letters, digits, hyphens (-), underscores (_), and periods (.).
List Type	Blacklist or Whitelist .
App Package Name	Name of a local app, which can contain a maximum of 40 labels, each with 1 to 50 characters, including only letters, digits, and periods (.).
Description	User-defined description of the list, which can contain 1 to 100 characters, including only letters, digits, hyphens (-), underscores (_), commas (,), and periods (.).

Step 4 Select cloud phones and click **Next**.

 **NOTE**

- Purchased instances are displayed. You can enter the instance name, ID, region, flavor, or username in the search box to filter instances.
- An instance can be added to only one app blacklist/whitelist. To move it to a different list, edit the list to delete it first.

Step 5 Confirm the list and instance information and click **Submit**.

Step 6 When the message "Created" is displayed, click **OK**.

----End

Modifying a Blacklist/Whitelist

- Step 1** On the **App Blacklist/Whitelist** page, locate a list to be modified and click **Modify** in the **Operation** column on the right.
- Step 2** Enter the blacklist or whitelist information by referring to [Table 7-1](#) and click **Next**.
- Step 3** Select cloud phones and click **Next**.
- Step 4** Confirm the list and instance information and click **Submit**.
- Step 5** When the message "Modified" is displayed, click **OK**.

----End

Deleting a Blacklist/Whitelist

- Step 1** On the **App Blacklist/Whitelist** page, delete one or more lists.
 - Select one or more lists and click **Bulk Delete** in the upper left corner above the list.
 - Locate a list and click **Delete** in the **Operation** column on the right.
- Step 2** In the **Confirm** dialog box, enter information as prompted and click **OK**.

----End

Disabling a Blacklist/Whitelist

- Step 1** On the **App Blacklist/Whitelist** page, locate a list to be disabled and click **Disable** in the **Operation** column on the right.
- Step 2** In the displayed dialog box, click **OK**.

----End

7.4 Setting Encrypted Transmission for UNI Cloud Terminal

UNI Cloud Terminal allows you to enable the encrypted transmission function. After encrypted transmission is enabled, data exchanged between the cloud and device sides of UNI Cloud Terminal can be protected.

Enabling Encrypted Transmission

- Step 1** Log in to the [KooPhone](#) console. The KooPhone overview page is displayed.
- Step 2** In the navigation pane, choose **UNI Cloud Terminal > Security Management > Encrypted Transmission**.
- Step 3** In the instance list, select one or more instances to be enabled and click **Enable** in the upper left corner above the list.
- Step 4** On the displayed page, confirm the instance information and click **OK**.

Step 5 When the message "Enabled" is displayed, click **OK**.

----End

Disabling Encrypted Transmission

Step 1 In the instance list, select one or more instances to be disabled and click **Disable** in the upper left corner above the list.

Step 2 On the displayed page, confirm the instance information and click **OK**.

Step 3 When the message "Disabled" is displayed, click **OK**.

----End

8 Configuring CORS for Cross-Domain Access to UNI Cloud Terminal

You can configure cross-origin resource sharing (CORS) rules for cross-domain access to UNI Cloud Terminal resources.

Adding a Source

- Step 1** Log in to the [KooPhone](#) console. The KooPhone overview page is displayed.
- Step 2** In the navigation pane, choose **UNI Cloud Terminal > CORS Rule Management**.
- Step 3** Click **Add Source**. In the displayed dialog box, enter an allowed source.
 - **Replace `www` with `*`, for example, `*.example.com`. Separate multiple sources by line breaks.**
 - **The asterisk (`*`) can only be placed at the beginning of the domain name. Special characters in the subdomain name can only contain hyphens (`-`), and the hyphens cannot be placed at the beginning or end of the subdomain name.**
 - **The subdomain name contains 1 to 63 characters. The total length cannot exceed 1,024 characters.**

Figure 8-1 Adding a source

The screenshot shows a dialog box titled "Add Source" with a close button (X) in the top right corner. The main content area is titled "Add Source" and contains a text input field labeled "Allowed Sources" with the value "*.example.com". A character count "0/1,024" is displayed at the bottom right of the input field. Below the input field, there is a paragraph of instructions: "Please use * as a placeholder for www, refer to *.example.com, separate multiple sources with line breaks; * can only be used at the beginning of the domain name, special characters in subdomains can only include hyphens -, and hyphens cannot be at the beginning or end of a subdomain; the length of a subdomain should be between 1 and 63 characters (inclusive)". At the bottom of the dialog, there are two buttons: "Cancel" and "OK".

Step 4 After the settings, click **OK**.

After the source is added, requests from the domain name are allowed to access resources in UNI Cloud Terminal.

----End

Follow-Up Operations

After adding a source, you can perform the following operations.

Table 8-1 Department management

Task	Procedure
Editing a source	<ol style="list-style-type: none">1. Locate the target source and click Edit in the Operation column.2. After editing the source, click OK.
Deleting a source	<ol style="list-style-type: none">1. Locate the target source and click Delete in the Operation column.2. In the displayed dialog box, click Yes.

9 Managing UNI Cloud Terminal Callback Events

You can set the callback event type and address for receiving callback event notifications on the console.

Obtaining a Key

- Step 1** Log in to the [KooPhone](#) console. The KooPhone overview page is displayed.
- Step 2** In the navigation pane, choose **UNI Cloud Terminal > Callback Event Management**.
- Step 3** In the **Callback authentication key** area, click **Obtain the key**.

After obtaining a key, record it. The key can be viewed only once. If you forget the key, click Reset Key to generate a new key.

----End

Adding and Configuring a Callback Event

- Step 1** On the **Callback Event Management** page, click **Add Configuration** and set parameters by referring to [Table 9-1](#).

Figure 9-1 Adding configurations

Add Configuration ✕

Status OPEN



Callback event
Instance Stream Status Notification

Callback URL
Enter

The callback URL only supports HTTPS configuration

Cancel OK

Table 9-1 Parameters for adding configurations

Parameter	Description
Status	Select the status of the callback event.  indicates the callback event is enabled.  indicates the callback event is disabled.
Callback event	Select a callback event from the drop-down list box. An added callback event cannot be added again.
Callback URL	Enter the callback URL. Only HTTPS is supported, for example, https://*** .





Step 2 After the settings, click **OK**.

----End

Follow-Up Operations

After adding a callback event, you can perform the following operations.

Table 9-2 Department management

Task	Procedure
Editing a callback event	<ol style="list-style-type: none">1. Locate the target callback event and click Edit in the Operation column.2. Modify the callback URL and click OK.
Deleting one or more callback events	<ul style="list-style-type: none">• To delete a single callback event:<ol style="list-style-type: none">1. Locate the target callback event and click Delete in the Operation column. Callback events whose Status is  cannot be deleted.2. In the displayed dialog box, enter DELETE as prompted and click OK. Deleted callback events cannot be restored. Exercise caution when performing this operation.• To delete callback events in batches:<ol style="list-style-type: none">1. Select the target callback events and click Batch Delete. Callback events whose Status is  cannot be deleted.2. In the displayed dialog box, enter DELETE as prompted and click OK. Deleted callback events cannot be restored. Exercise caution when performing this operation.
Changing the status of a callback event	Locate the target callback event and click  or  in the Status column to enable or disable it.

10 Signing In to and Using UNI Cloud Terminal

10.1 Downloading the UNI Cloud Terminal Client

Constraints

Android devices must run Android 6.0 or later.

Procedure

- Step 1** Visit the [client download page on the KooPhone official website](#) and scan the QR code to download the installation package.
- Step 2** After the administrator creates a user account for you and assigns an instance to you, you will receive an email indicating that the account is created. Sign in to the UNI Cloud Terminal client (KooPhone) using the account and password in the email.

----End

10.2 Signing In to the UNI Cloud Terminal Client

You can sign in to the UNI Cloud Terminal client using the account and password in the email notification.

Prerequisites

- The administrator has added you as a user and assigned an instance to you. For details, see [Creating an Organization and Adding Department Members](#).
- Before [Signing In to the UNI Cloud Terminal App](#), you have downloaded and installed the UNI Cloud Terminal app (KooPhone). For details, see [Downloading the UNI Cloud Terminal Client](#).

Concepts

- Physical device
A physical device, such as a smartphone, tablet, or personal computer, has physical hardware.
- Cloud phone
A cloud phone is based on the cloud computing and provides a virtual mobile device environment through the Internet. You can use any network-connected device to access KooPhone for operation and management.
A cloud phone is a virtual phone independent of a physical phone.

Signing In to the UNI Cloud Terminal App

Step 1 Open the UNI Cloud Terminal app (KooPhone).

When signing in for the first time, read and agree to the *Privacy Policy*, *User Agreement*, and *SDK Collection Checklist* before using KooPhone.

Step 2 Enter an account and password and obtain a verification code to sign in.

- Upon first sign-in with a temporary password, you must change the password. The new password must contain at least eight characters, including both letters and digits, and contain no spaces.
- When you sign in for the first time, the system asks you whether to trust the browser. If you trust the browser, you will not be asked for a verification code the next time you sign in.

----End

Result

After the sign-in is successful, you will access the cloud phone home screen. You can learn about the functions of the home screen as prompted upon the first sign-in.

Follow-Up Operations

- After accessing the cloud phone, tap the floating bubble on the desktop to check the network signal of the cloud phone. You can also **restart** and **sign out** of the cloud phone and set **Display Navigation**.
- Use the cloud phone functions, such as downloading apps, making calls, sending messages, and taking photos.

10.3 Setting Cloud Phones Permissions

When using the cloud phone, you can grant permissions to facilitate use.

Tap the profile picture in the upper left corner of the app home screen to enter the personal center and tap **Privacy > Permissions** to set cloud phone permissions.

- **Read Clipboard Content**

Allows you to paste content copied from a physical device to a cloud phone. You are advised to grant this permission to synchronize clipboard content between a physical device and a cloud phone.

- **Obtain Storage**

Allows apps on a cloud phone to read or store information.

- **Obtain Phone**

Allows you to make calls and send SMS messages on a cloud phone.

- **Authorize access to**

Retains records of calls made on a cloud phone in the cloud phone instead of in a physical device.

- **Obtain Location**

Obtains accurate location information for apps or functions such as navigation and positioning.

Tap **Go to Settings** to set more permissions required by the client.

10.4 Setting the Cloud Phone

Sign in to the cloud phone home screen. On the home screen, tap the settings button to perform basic settings on the cloud phone and restart the cloud phone.

Adding a Shortcut App to the App Home Screen

On the app home screen, tap the settings button and tap **Shortcut Apps** to add common functions to the home screen as shortcut apps. Then you can tap a shortcut app on the home screen to access the cloud phone and start the app.

Up to four shortcut apps can be added.

Synchronizing Messages Between a Physical Device and a Cloud Phone

To receive messages of cloud phone apps on a physical device even if you exit the cloud phone, you can enable message synchronization between the cloud phone and physical device.

1. Tap the settings button and tap **Message synchronization**.
2. Turn on **Notification Synchronisation** and select the apps for which you want to synchronize their messages.
3. Access the cloud phone, choose **Settings > Notifications**, and enable message notifications.

Submitting Feedback

If you find any problems when using a cloud phone or you seek to provide suggestions, you can use the **Help and Feedback** function to provide feedback.

1. Tap the settings button and tap **Help and Feedback**.
2. Select **Feedback** or **Function error**.
3. Enter your feedback in the **Description** text box. If there is a function error, you can select **Auto upload logs**.

4. Tap **Submit**. The product team will contact you as soon as possible.

10.5 Accessing a Cloud Phone Desktop and Using the Cloud Phone

After installing and logging in to the cloud phone, tap **Enter CloudPhone** on the app home screen to access the cloud phone desktop and start using the cloud phone.

Checking and Using the Desktop Floating Bubble

The desktop shortcut menu is hidden in the desktop floating bubble. You can drag the floating bubble to adjust its position, tap it to open the shortcut menu to check the network signal of the cloud phone, or perform the following operations:

- Enable **Voice Keep** to keep playing audio when audio and video apps run in the background.
- Enable **Silent** to mute the cloud phone.
- Enable **PiP** to perform background operations with a small window running in the foreground after exiting the KooPhone app.
- Tap **Navigation** to set the navigation mode of the cloud phone.
- Tap **Home** to return to the cloud phone desktop.
- Tap **Restart** to restart the cloud phone.
- Tap **Sign Out** to return to the app home screen.

Downloading Game, Office, and Entertainment Apps

The cloud phone is pre-installed with system apps such as clock, album, camera, and calendar. To download game, office, entertainment, and other apps, you are advised to search for the target apps in **AppGallery**, and download and install them.