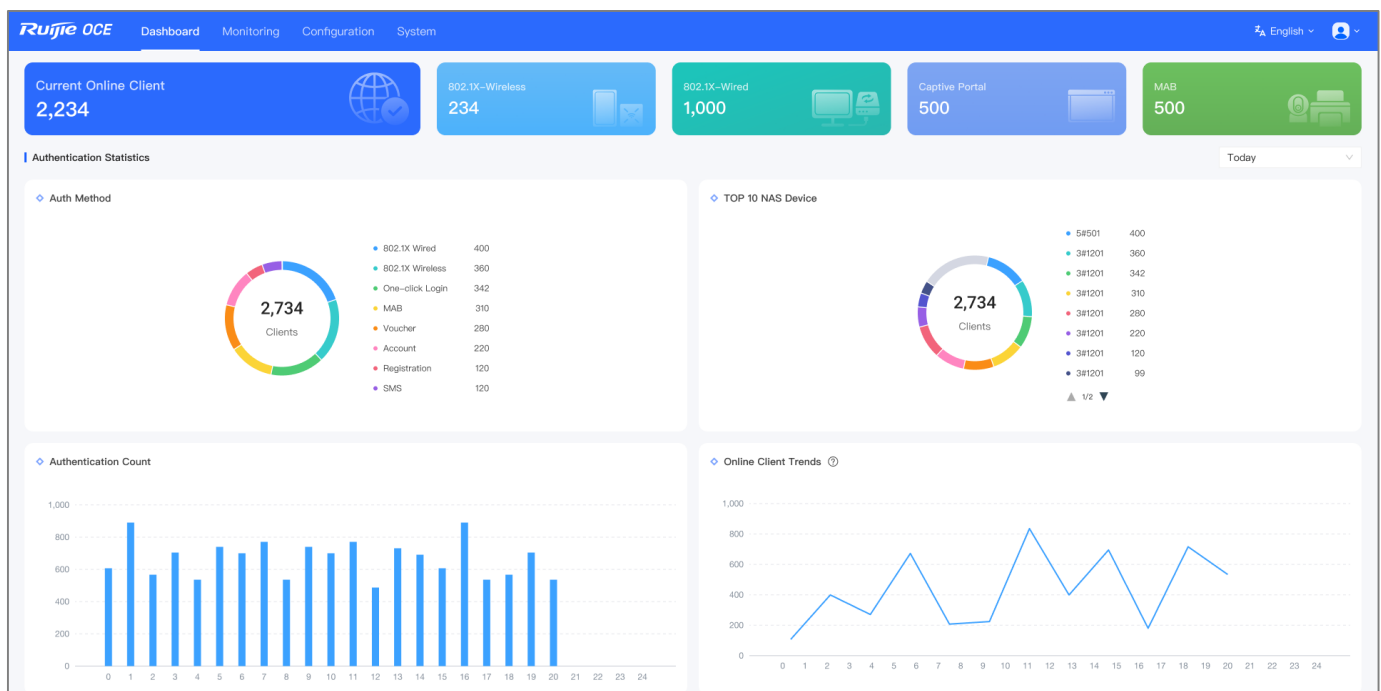


# RG-OCE Identity Manager

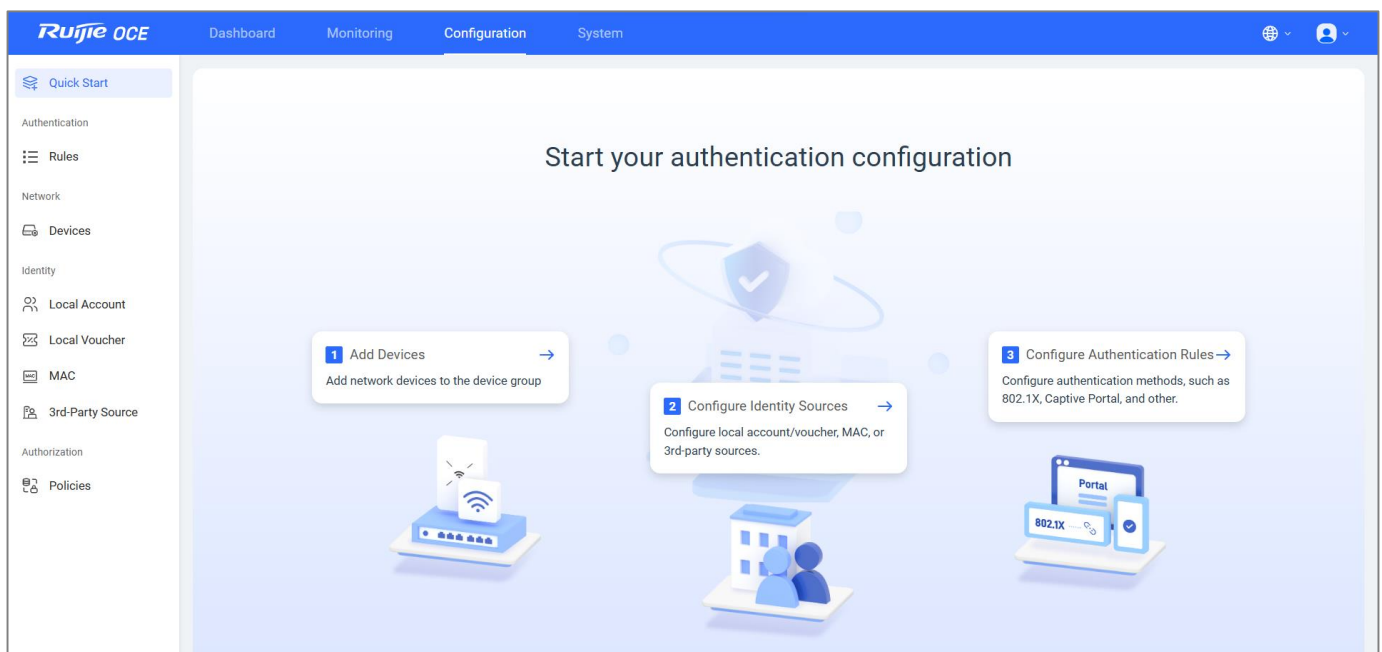


## 01 Product Overview

The Ruijie Omni-Control Engine (OCE) is the on-premises software for the Ruijie public cloud. It consists of two components: the RG-OCE Identity Manager, which handles identity authentication, and is also known as Network Access Control (NAC) or Authentication, Authorization, Accounting (AAA), built with a RADIUS server; and the RG-OCE Network Manager, which manages network devices, and serves as the Network Management System (NMS). The OCE software can be easily installed on physical servers or on virtualization platforms such as VMware vSphere Hypervisor (ESXi), Microsoft Hyper-V, CentOS KVM, Amazon EC2, and Microsoft Azure. The RG-OCE Identity Manager features an innovative UI and simple configuration steps. It supports both wireless and wired 802.1X authentication, as well as captive portal authentication. It also provides easy access control with MAC Authentication Bypass (MAB) for IoT devices. It supports multiple authentication and authorization sources (local account/AD/LDAP), and can easily integrate with existing data sources. Besides, it offers rich authorization policies, including dynamic VLAN assignment, quality of service (QoS), concurrent users, traffic usage, and time period control, along with flexible portal authentication methods.



RG-OCE Identity Manager Dashboard Page



RG-OCE Identity Manager Configuration Home Page

## 02 Product Highlights

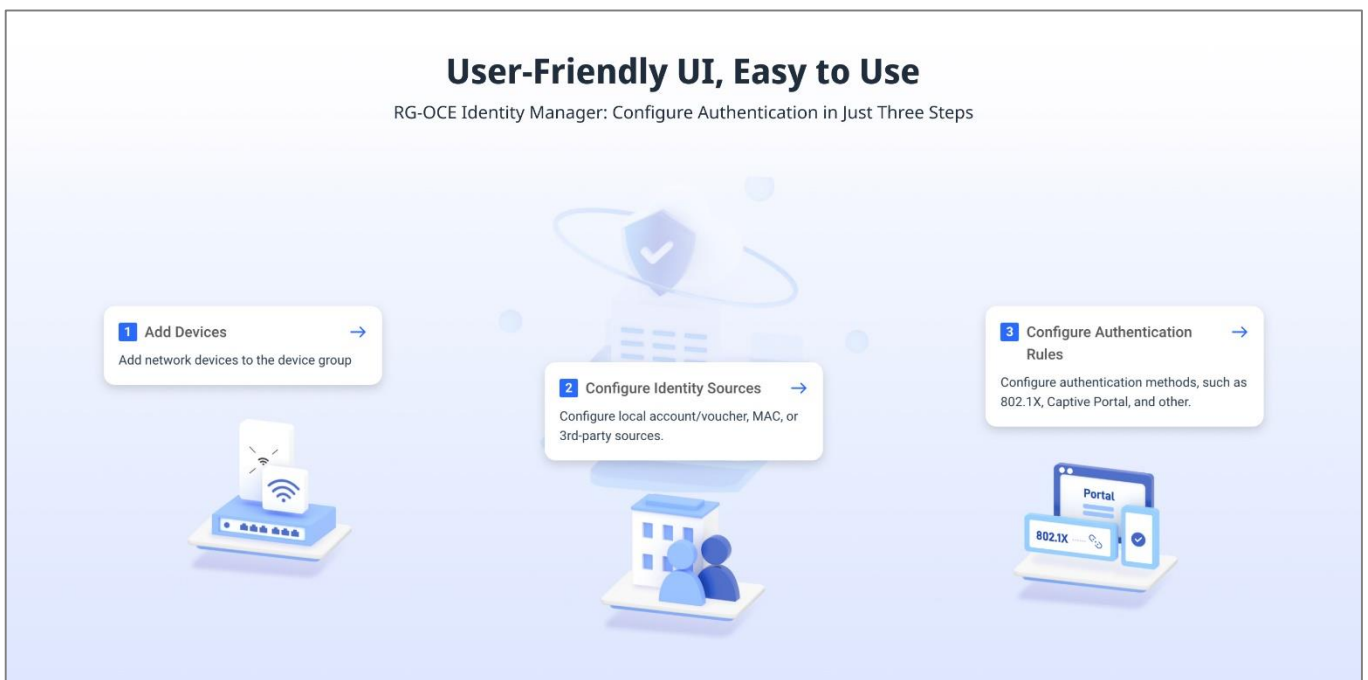
### 2.1 On-Premises Deployment

- Software installed on a local server
- High-security data protection
- Supports deployment on the VMware ESXi and physical deployment
- Supports 802.1X authentication for Ruijie, Reyeer and third-party devices



### 2.2 User-friendly UI

- Simple configuration of authentication policies for network devices in three steps
- Intuitive dashboard and real-time status monitoring
- Easily locate authentication exceptions and gain visibility into 802.1X requests



## 2.3 Flexible Authentication Methods

- Wireless and wired 802.1X, and captive portal authentication
- 802.1X with dynamic VLAN assignment
- MAB for IoT devices
- Supports multiple authentication and authorization sources (local account/AD/LDAP)

**Flexible Intergration with Third-Party Identity Sources & Visualized User Group Role Mapping**

Support seamless integration with AD and LDAP account identity sources.

Visualize role mapping of user groups based on AD/LDAP identity sources.

## 2.4 Rich Authorization Control Policies

- Control of concurrent online clients
- Valid time period control
- Valid traffic quota control
- Dynamic QoS
- Dynamic VLAN assignment

**Rich Authorization Policies Configured in One Step**

Manage concurrent users, period, and traffic quota based on user roles.

Support QoS rate limiting based on user roles.

Support dynamic VLAN assignment based on user roles.

Policy Name	Concurrent devices	Period	Quota	QoS	VLAN	Action
Rate limited	1			1 Mbps ↑ 1 Mbps	—	🔗 🗑️
Test B	3			Unlimited ↑ Unlimited	10	🔗 🗑️
TestA	1			Unlimited ↑ Unlimited	—	🔗 🗑️
StudentPolicy_VLAN10	3			Unlimited ↑ Unlimited	10	🔗 🗑️
reyee limit	3			1 Mbps ↑ 1 Mbps	—	🔗 🗑️
TeacherPolicy_VLAN50	3			Unlimited ↑ Unlimited	50	🔗 🗑️
mstestPL	1			Unlimited ↑ Unlimited	1	🔗 🗑️
HQ	3			20 Mbps ↑ 10 Mbps	10	🔗 🗑️
StudentPolicy	3			Unlimited ↑ Unlimited	—	🔗 🗑️
TeacherPolicy	3			Unlimited ↑ Unlimited	—	🔗 🗑️

38 in total < 1 2 3 4 > 10 / page Go to

## 2.5 Marketing Campaign & Captive Portal

- Integrated captive portal module, supporting One-Click, Voucher, SMS, Account and Email registration login methods
- Supports rich customization options for the captive portal page, such as background image, logo, welcome text, advertisement images or video, and button styles
- Supports 10+ languages for the portal page, and flexible customization of the portal page

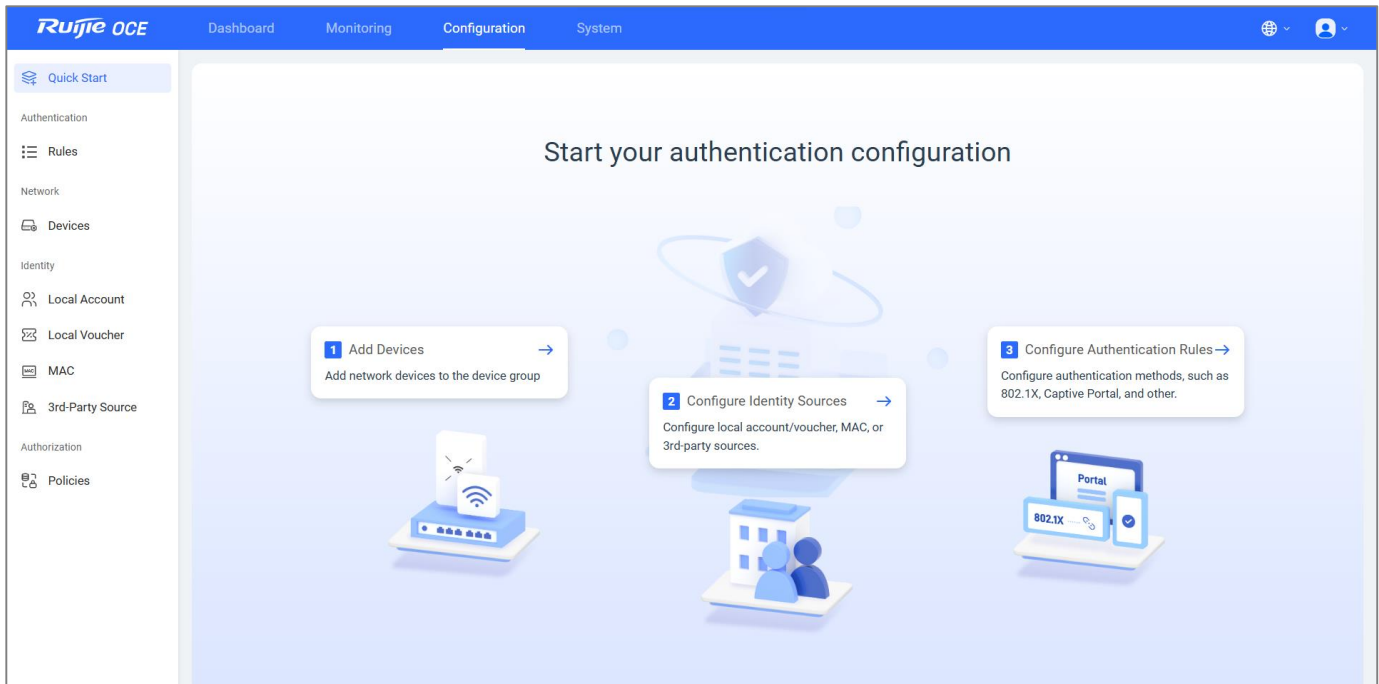




### 3.3 Easy-to-Use Authentication Rules

Configure captive portal and 802.1x authentication rules in just three steps.

- Step 1. Add devices and assign them to respective device groups.
- Step 2. Configure identity sources, which can be local accounts or third-party data sources.
- Step 3. Enable authentication methods, select identity sources, and apply them to device groups.



The screenshot shows the 'Authentication Rules' configuration page in the Ruijie OCE web interface. The top navigation bar and left sidebar are consistent with the previous image. The main content area has a title 'Authentication Rules' and buttons for '+ Add Rule' and 'Batch Delete'. A search bar for 'Rule Name' is located on the right. Below is a table listing the configured rules.

<input type="checkbox"/>	Rule Name	Auth Method	Identity Source	Bind Device Group	Action
<input type="checkbox"/>	HK-RULES	Captive Portal	<span>ACCOUNT</span> Local Account	1 <span>⋮</span>	<span>✎</span> <span>🗑️</span>
<input type="checkbox"/>	hbTest	Captive Portal	<span>ACCOUNT</span> Local Account	1 <span>⋮</span>	<span>✎</span> <span>🗑️</span>
<input type="checkbox"/>	01010	802.1X	<span>ACCOUNT</span> Local Account <span>MAC</span> Local MAC <span>LDAP</span> LDAPServer	1 <span>⋮</span>	<span>⚙️</span> <span>✎</span> <span>🗑️</span>
<input type="checkbox"/>	portal001	Captive Portal	<span>ACCOUNT</span> Local Account <span>VOUCHER</span> Local Voucher	0 <span>⋮</span>	<span>✎</span> <span>🗑️</span>
<input type="checkbox"/>	1x_testing	802.1X	<span>ACCOUNT</span> Local Account <span>MAC</span> Local MAC <span>LDAP</span> LDAPServer	0 <span>⋮</span>	<span>⚙️</span> <span>✎</span> <span>🗑️</span>
<input type="checkbox"/>	vac	Captive Portal	<span>ACCOUNT</span> Local Account <span>VOUCHER</span> Local Voucher	0 <span>⋮</span>	<span>✎</span> <span>🗑️</span>
<input type="checkbox"/>	cwl_test	802.1X	<span>ACCOUNT</span> Local Account <span>MAC</span> Local MAC <span>LDAP</span> LDAPServer	0 <span>⋮</span>	<span>⚙️</span> <span>✎</span> <span>🗑️</span>
<input type="checkbox"/>	lwz-gonwei	802.1X	<span>ACCOUNT</span> Local Account <span>MAC</span> Local MAC <span>LDAP</span> LDAPServer	0 <span>⋮</span>	<span>⚙️</span> <span>✎</span> <span>🗑️</span>
<input type="checkbox"/>	Guest-Portal	Captive Portal	<span>ACCOUNT</span> Local Account <span>VOUCHER</span> Local Voucher	0 <span>⋮</span>	<span>✎</span> <span>🗑️</span>
<input type="checkbox"/>	802.1xrule	802.1X	<span>ACCOUNT</span> Local Account <span>MAC</span> Local MAC <span>LDAP</span> LDAPServer	0 <span>⋮</span>	<span>⚙️</span> <span>✎</span> <span>🗑️</span>

39 in total < 1 2 3 4 > 10 / page Go to

### 3.4 Rich Identity Sources

The RG-OCE Identity Manager supports local accounts as well as third-party Microsoft AD and LDAP data sources. It can read AD/LDAP data source groups, and perform role-based authorization mapping through a visual interface.

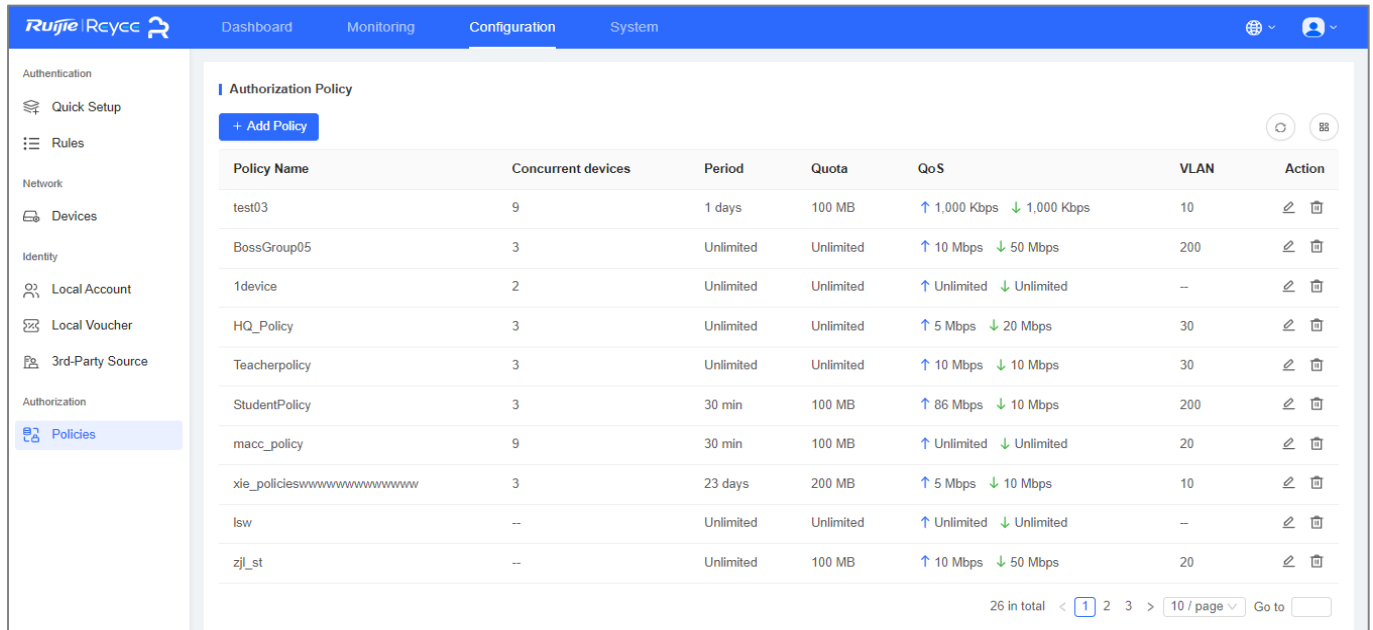
The screenshot shows the 'Identity Source' configuration page in the Ruijie OCE Identity Manager. The left sidebar contains a navigation menu with options: Quick Start, Authentication, Rules, Network, Devices, Identity, Local Account, Local Voucher, MAC, 3rd-Party Source (selected), Authorization, and Policies. The main content area is divided into two tabs: 'Identity Source' and 'Authorization Policy'. The 'Identity Source' tab is active, showing a form with the following fields: Status (toggle to 'Enable'), Source Name (LDAPServer), Type (radio buttons for Windows AD and LDAP, with LDAP selected), LDAP Server IP (172.29.45.181), LDAP Server Port (389), Root DN (dc=auth.dc=com, with an 'Obtain DN' button), Bound DN (cn=Manager,dc=auth,dc=com), Bound Password (masked), Account Verification Attribute (Username Attribute: uid, Password Attribute: userpassword, Password Type: Plain text), and a 'Save' button.

The screenshot shows the 'Authorization Policy' configuration page in the Ruijie OCE Identity Manager. The left sidebar is the same as the previous screenshot. The main content area is divided into two tabs: 'Identity Source' and 'Authorization Policy'. The 'Authorization Policy' tab is active, showing a form with the following fields: Group Role Mapping Rules (radio buttons for Organizational Unit (OU) and Security Group, with OU selected), Group Sync Level (3, with 'Sync Group' and 'Reset Mapping' buttons), and a table for mapping Group Roles to Auth Policies. The table has two columns: 'Group Role' and 'Auth Policy'. The rows are: dc=auth,dc=com (mapped to RDBranch), Teacher (mapped to TeacherPolicy), test (mapped to htest), test2 (mapped to ), group55 (mapped to StudentPolicy), and radius (mapped to ). A 'Save' button is at the bottom.



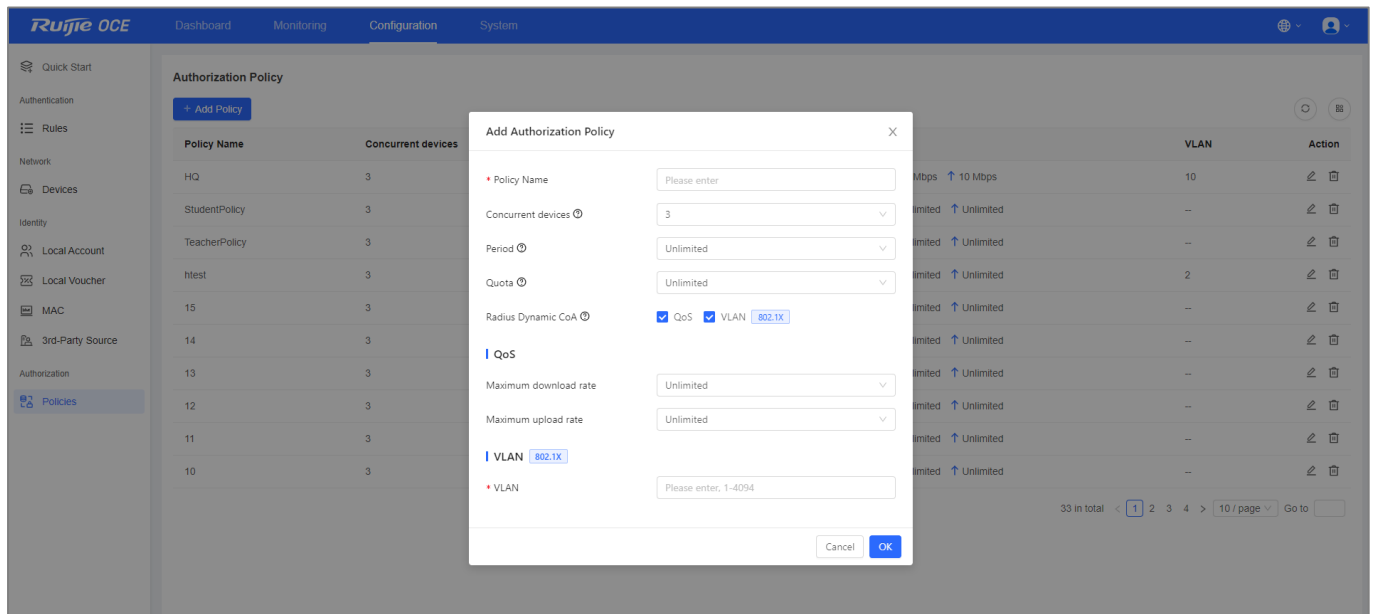
### 3.5 Comprehensive Authentication Policies

The RG-OCE Identity Manager supports comprehensive policies for captive portal and 802.1X authentication. It supports control over concurrent clients, time period, traffic quota, QoS (uplink & downlink speeds) and dynamic VLAN assignment.



Policy Name	Concurrent devices	Period	Quota	QoS	VLAN	Action
test03	9	1 days	100 MB	↑ 1,000 Kbps ↓ 1,000 Kbps	10	
BossGroup05	3	Unlimited	Unlimited	↑ 10 Mbps ↓ 50 Mbps	200	
1device	2	Unlimited	Unlimited	↑ Unlimited ↓ Unlimited	--	
HQ_Policy	3	Unlimited	Unlimited	↑ 5 Mbps ↓ 20 Mbps	30	
Teacherpolicy	3	Unlimited	Unlimited	↑ 10 Mbps ↓ 10 Mbps	30	
StudentPolicy	3	30 min	100 MB	↑ 86 Mbps ↓ 10 Mbps	200	
macc_policy	9	30 min	100 MB	↑ Unlimited ↓ Unlimited	20	
xie_policieswwwww	3	23 days	200 MB	↑ 5 Mbps ↓ 10 Mbps	10	
lsw	--	Unlimited	Unlimited	↑ Unlimited ↓ Unlimited	--	
zjl_st	--	Unlimited	100 MB	↑ 10 Mbps ↓ 50 Mbps	20	

26 in total < 1 2 3 > 10 / page Go to



**Add Authorization Policy**

Policy Name:

Concurrent devices:

Period:

Quota:

Radius Dynamic CoA: ☒ QoS ☒ VLAN

QoS

Maximum download rate:

Maximum upload rate:

VLAN:

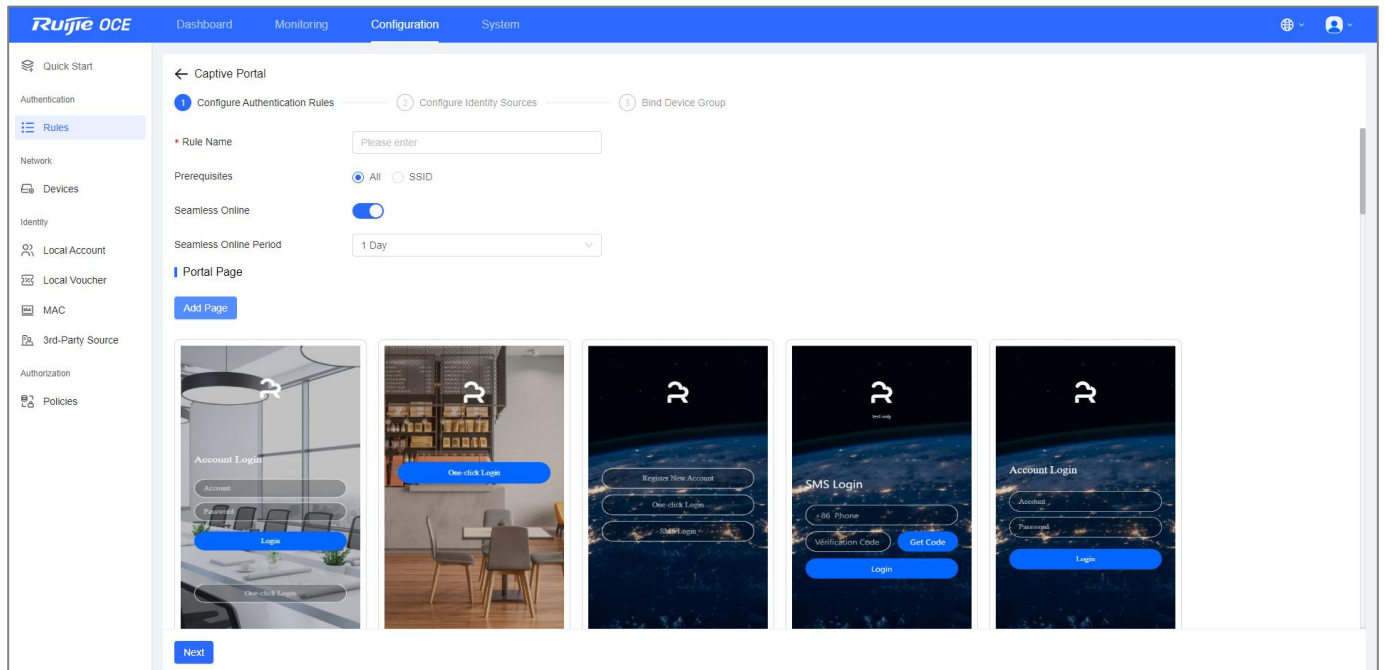
VLAN:

Cancel OK

### 3.6 Flexible Captive Portal

The RG-OCE Identity Manager provides flexible portal authentication policies, and integrates with Ruijie and Reye access points and gateways. It supports portal page customization and multiple authentication methods, including One-Click, Voucher, Account, Email Registration and SMS login methods.

The portal supports multiple languages and advertising functions. Customers can easily add multiple advertising pictures or videos for marketing.



Portal Page

Portal Basic Settings

Portal Name:

Page

Login Options:

☒ One-click Login
 

Access Duration (Min):

☒ Unlimited
 ☐ 15
 ☐ 30
 ☐ 60
 ☐ Custom

☒ Voucher
 ☒ Account
 ☐ SMS
 ☐ Registration
 ☐ Facebook Account

Show Balance Page:

☐ Available only when Auth server supports the function

Post-login URL:

Portal Visual Settings

Logo:

☒

Mobile Desktop

Reset style

Logo Image:

Upload

Logo Position:

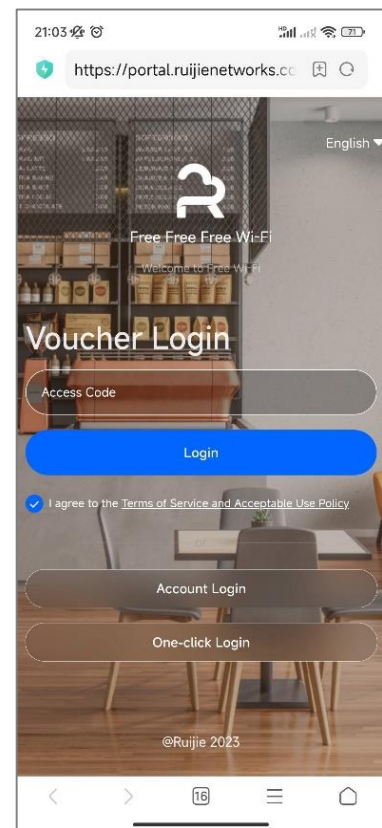
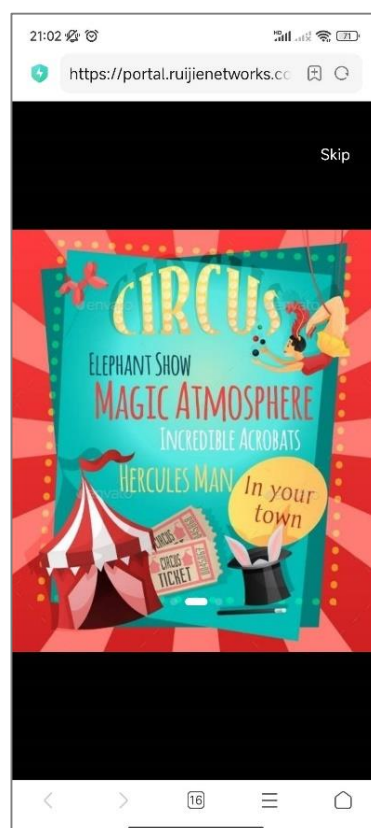
Background:

☒ Picture
 ☐ Solid Color

Background Image:

Cancel

OK



## 04 Product Specifications

Specifications	RG-OCE Identity Manager	Ruijie Public Cloud
<b>Deployment Mode:</b>		
Tenant- and role-based sub-accounts (suitable for on-premises deployment)	√	√
Redundancy in cluster deployment	√	√
Secure data transmission	√	√
Local database deployment	√	×
<b>Statistics and Monitoring:</b>		
Current online clients	√	√
Client authentication methods & statistics	√	×
Client connection and authentication trends	√	×
Event Viewer and Debug Log	√	×
<b>Authentication Methods:</b>		
Wireless and wired 802.1X	√	×
MAB	√	×
Captive portal authentication (One-Click, Voucher, Account, SMS, and Email Registration)	√	√
802.1X authentication with dynamic VLAN assignment	√	×
<b>Account Identity Sources:</b>		
Local account & MAC	√	√
Microsoft AD & LDAP integration	√	×
<b>Authorization Policies:</b>		
Control of concurrent online clients	√	√
Time period control	√	√

Specifications	RG-OCE Identity Manager	Ruijie Public Cloud
<b>Authorization Policies:</b>		
Traffic quota control	√	√
RADIUS dynamic VLAN assignment	√	×
QoS	√	√
RADIUS CoA and DM	√	×
<b>Troubleshooting Tools:</b>		
802.1X Event Viewer	√	×
802.1X authentication debug logs	√	×
802.1X authentication request simulator	√	×
AD/LDAP connectivity test	√	×
Server one-click fault collection	√	√
<b>System Management:</b>		
Role-based privilege management (sub-accounts)	√	√
License management	√	×
Account multi-language support	√	√
Open API (RESTful API)	√	√
<b>Server Capacity:</b>		
Maximum concurrent online clients	10,000+, based on hardware	Subject to specific projects
<b>Technical Support:</b>		
Online document support	√	√
Online RITA support	√	√

## 05 Supported Models

Series	Models	Portal Authentication	802.1X Authentication
AP/AC	AP8xx-L, AP6xx-L Series; AP680(CD), AP720-L, AP180, AP180P-L; and WS6000 Series	Y	Y
Switch	CS88, CS86, CS85, CS83, S2915-L Series; NBS7000, NBS6000, NBS5500, NBS5300 NBS5200, NBS5100, NBS3300, NBS3200, and NIS3100 Series	N	Y
Router	NBR6120-E, NBR6205-E, NBR6210-E, NBR6215-E, EG1510XS, EG310GH-P-E, EG310GH-E, and EG305GH-P-E	Y	N/A

## 06 System Requirements

Max Concurrent Users	CPU	Memory	Hard Disk Drive	Operating System
300	2-core (Intel Xeon processors, 2 GHz or higher)	8 GB	100 GB SSD	Rocky or Redhat Linux 8.10
1000	4-core (Intel Xeon processors, 2 GHz or higher)	16 GB	300 GB SSD	Rocky or Redhat Linux 8.10
5000	4-core (Intel Xeon processors, 2 GHz or higher)	32 GB	1 TB SSD	Rocky or Redhat Linux 8.10
10,000	8-core (Intel Xeon processors, 2 GHz or higher)	64 GB	1 TB SSD	Rocky or Redhat Linux 8.10
> 10,000	Contact Ruijie sales representative for service deployment requirements.			

## 07 Ordering Information

Product Code	OCE Identity License
Default Built-in License	Free for 30 days with a 20-user license.
RG-OCE-IDENTITY-BASE	RG-OCE Identity Base Edition, including: 20 concurrent online users and 1 year service support (Note that if the demo license expires and the Base License is not installed, the system will no longer be operational.)
RG-OCE-IDENTITY-LIC-100	Supports 100 concurrent online clients throughout the software's lifecycle (including 802.1X, Portal, and MAB clients)
RG-OCE-IDENTITY-LIC-500	Supports 500 concurrent online clients throughout the software's lifecycle (including 802.1X, Portal, and MAB clients)
RG-OCE-IDENTITY-LIC-1000	Supports 1,000 concurrent online clients throughout the software's lifecycle (including 802.1X, Portal, and MAB clients)
RG-OCE-IDENTITY-LIC-5000	Supports 5,000 concurrent online clients throughout the software's lifecycle (including 802.1X, Portal, and MAB clients)
RG-OCE-SSP-1Y	Basic 1 Year Technical Service Support Package (SSP) (Annual Fee) This service is charged annually and covers the following: Technical support and fault resolution: Remote technical support during local office hours (9 hours a day, 5 days a week), including software updates, after-sales technical consultation, fault resolution, and a dedicated channel for submitting service complaints or suggestions. Note: Basic technical services will no longer be provided once the validity period expires.
RG-OCE-CDS	Premium Technical Customization Development Service (Per-Incident Fee) This service is charged on a per-incident basis and covers the following: R&D support: Cluster deployment, cluster data migration, server migration, OCE service restoration after a server restart, remote data backup, and custom function development. (Charges are based on the number of man-days needed from R&D engineers.)

- The default installation package includes a 30-day free trial for up to 20 users, available for testing.
- Purchase of the RG-OCE-Identity-BASE includes a free RG-OCE-SSP-1Y (1-year subscription) as a gift.
- **Pay once, enjoy lifetime access.**
- The RG-OCE-SSP is related only to services and does not affect software availability.

## 08 More Information

For more information about RG-OCE Identity Manager, please visit <https://reyee.ruijie.com/en-global/products/sme/network-management-control/oce-identity-manager/> or contact your local Ruijie sales representative.





**Ruijie Networks Co., Ltd.**

For more information, visit <https://reyee.ruijie.com> or call 86400-620-8818.