

# App User Guide

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# **Revision History**

Updates between document versions are cumulative. Therefore, the latest document version contains all updates made to previous versions.

Release Date	App Version	Doc Version	Details
June 06, 2016	2.0.0	v.1.0.0	First Release
June 29. 2018	2.0.0	v.1.0.1	Revised the company name
December 25, 2021	200	v102	Revised the company name
	2.0.0	V.1.U.Z	Deleted the document status: confidential

## Chapter 1 Overview

QoS (Quality of Service) is a network security mechanism. To quantitatively measure quality of service, several related aspects of the network service are often considered, such as error rates, bit rate, throughput, transmission delay, availability, jitter, etc. QoS is designed for solve these problem mention above. QoS is particularly important for the transport of traffic with special requirements.

QoS function is an App which needs to install into router in System->App Center unit.

## Chapter 2 App Installation

### 2.1 Installation

#### Path: System->App

1 Please place QoS App .rpk file (e.g. r2000-qos-2.0.0.rpk) into a free disk of PC. And then log in router configuration page; go to **System->App** as the following screenshot show.

App Center			
^ App Install			
	File	Choose File No file chosen	Install

2 Click "Choose File" button, select QoS App .rpk file from the PC, then click "Install" button of router configuration page.

Open							
🖉 📕 « 2 PO	Dept 🕨 Onging R20	00 Dual 🕨 app	<b>- +</b> <sub>2</sub>	Search app	P		
Drganize 🔻 New	folder						
★ Favorites ■ Desktop ▶ Downloads ₩ Recent Places	r2000-capti ve_portal-2. 0.0.rpk	r2000-ddns r2 -2.0.0.rpk pr	2000-dmv r2000- n-2.0.0.rp ware-f k y-2.0.0	firm r2000-12tp actor 2.0.0.rpk 0.bin	- r2000-lang uage_chine se-2.0.0.rpk		
<ul> <li>⇒ Libraries</li> <li>⇒ Documents</li> <li>→ Music</li> <li>⇒ Pictures</li> <li>&gt; Videos</li> <li>⇒ 迅雷下载</li> <li>♥ Computer</li> </ul>	E r2000-pptp -2.0.0.rpk r2000-ztew elink-2.0.0.r	r2000-qos- 2.0.0.rpk st	000-robu r2000- link-2.0.0. p-2.0.0 rpk	snm r2000-vrrp ).rpk 2.0.0.rpk	- r2000-wlan _multi_ap-2 _0.0.rpk		
App Cente	iile <u>n</u> ame: r2000-qos-	2.0.0.rpk	•	All Files <u> Q</u> pen  ↓	Cancel		
App Toot	-11						
App Inst				File	Choose File	r2000-qos-2.0.0.rpk	]
Installed	Apps						

3 When the rate of installation progress reach 100%, the system will pop up a reboot router reminder window. Please click "OK" to make router reboot.

App Center		
^ App Install		
	File Choose File r2000-qos-2.0.0.rpk Install 100%	
▲ Installed App Index Na	Operation successfully completed. Do you want to reboot immediately? OK Cancel	

4 After router power on again, log in configuration page, QoS will be include in App Center's "Installed Apps" list, and the function configuration will display in **Network** part.

App Cen	ter					
• App Ins	stall					
			File	Choose File No file chosen	Install	
^ Installe	ed Apps					
Index	Name	Version	Status	Description		
1	qos	2.0.0	Stopped	QOS		×

	Qos	3				
Status	∧ Gener	al Settings				
Interface			1	Enable QoS OFF		
Network	^ Priorit	y Definition				(
Route	Index	Priority	Bandwidth	Borrow Spare Bandwidth		
Firewall	1	Highest	20	true		
QoS	2	High	20	true		
sthrough	3	Normal	20	true		
	4	Low	20	true		
VPN	5	Lowest	20	true		
Services	∧ QoS R	ules				
	Index S	ource Address	Source Port	Target Address Target Port	t Protocol Prior	ity
System						

## 2.2 Uninstallation

#### Path: System->App Center

1 Go to "**Installed Apps**", find QoS App and then click "X".

App Cen	ter							
^ App Install								
			File	Choose File No file chosen	Install			
∧ Installe	ed Apps							
Index	Name	Version	Status	Description				
1	qos	2.0.0	Stopped	QOS		×		

2 Click "OK" in the router reboot reminder popup window. When router finish restart, QoS had been uninstalled.

Route	r Web Mana	iger			
Oj Do	peration succ you want to	essfully com reboot imme	pleted. diately?	3	
	ок	Cance	el		
App Cen	ter				
App Cen App In	ter stall				
App Cen App In	ter stall		File	Choose File No file chosen	Install
App Cen App In Installe	ter stall ed Apps		File	Choose File No file chosen	Install

## Chapter 3 Parameters Description

This section allows users to set the QoS parameters.

Please remember to set QoS upload and download bandwidth in the Interface->Link Manager WWAN/WAN before Configure Qos parameters.

QoS				
∧ Genera	al Settings			
		E	nable QoS OFF	
<ul> <li>Priorit</li> </ul>	y Definitior	n		7
Index	Priority	Bandwidth	Borrow Spare Bandwidth	
1	Highest	20	true	
2	High	20	true	
3	Normal	20	true	
4	Low	20	true	
5	Lowest	20	true	

elect the priority, click is to enter the priority definition configuration window.

QoS	
∧ Priority Definition	
Index	1
Priority	Highest
Bandwidth	20 🕜
Borrow Spare Bandwidth	ON OF

	QoS	
Item	Description	Default
Enable QoS	Click to enable "QoS" function.	Disable
Index	Show the index of priority.	/
Driority	Select from "Highest", "High", "Normal", "Low", "Lowest".	,
Priority	User can select the priority level according to the requirement.	/
Bandwidth	Define bandwidth percent of "Highest", "High", "Normal", "Low" and "Lowest". All the bandwidth percent of priority are defaulted to 20%. User can configure the bandwidth percent of priority according to the requirement. The sum of bandwidth of all the priorities cannot be greater than 100%.	20
Borrow Spare Bandwidth	The traffic associated with this priority will borrow unused bandwidth from other priorities when this function is enabled, and will be limited to the specified bandwidth when this function is disabled. Limited specified bandwidth algorithm: priority defined percent upload/download bandwidth set in <b>Interface-&gt;Link Manager WWAN/WAN.</b>	ON

∧ OoS Rules							
Index	Source Address	Source Port	Target Address	Target Port	Protocol	Priority	+
Click 🕂	to add a new QoS	rule.					
QoS							
^ QoS	Rules						
		I	ndex 1				
		Source Add	lress	7			
		Source	Port	7			
		Source	мас	7			
		Target Add	Iress	7			
		Target	Port	7			
		Prot	tocol All	×			
		Pri	ority Normal	v			

QoS				
Item	Description	Default		
Source Address	Enter the IP address of the source host.			
Source Address	format: x.x.x.x, x.x.x.x/xx, x.x.x.x.x.x.x, empty means anywhere	Null		
Source Port	Enter the port number of the source host.			
	Enter MAC address of the source host. Router supports up to 20 users set with			
Source MAC	QoS MAC Control. Priority of QoS MAC Control is higher than that of QoS IP	Null		
	control.			
Target Address	Enter the IP address of the target host.			
Target Port	Enter the port number of the target host.			
Protocol	Select from "All", "TCP", "UDP", "ICMP" and "TCP&UDP".	All		
Driority	Select from "Highest", "High", "Normal", "Low", "Lowest".	Normal		
μ	Those priorities had been defined in <b>Network-&gt;QoS-&gt;Priority Definition</b> .	normal		

Note:

1. If services are in the same priority level, router will automatically start Stochastic Fairness Queueing (SFQ) strategy to make a fair bandwidth allocation.

2. If the link between a source host and target host had set QoS 3 rules. At this time it won't consider the priority but will only choose the ranked first one to take effect.

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