

# 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	2.0.0	v.1.0.2	Revised the company name 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						×				
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Fil App Center	e <u>n</u> ame: r2000-qos-	2.0.0.rpk			ïiles ⊇pen  ▼	▼ Cancel				
App Insta										
Арр Шэта					File (	Choose F	ile r2000-qos	-2.0.0.rpk	Install	
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       Router Web Manager     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 In:	stall				
			File	Choose File No file chosen	Install
∧ Installe	d Apps				
∧ Installe Index	ed Apps Name	Version	Status	Description	

Interface       Image: Priority effinition       Enable Qos       OFF         Route Firewall       A Priority efinition       Bandwidth       Borrow Spare Bandwidth       Image: Priority efficient         Qos       Image: Priority efficient       Highest       20       true       Image: Priority efficient         IP Passthrough       Image: Priority efficient       Image: Priority efficient       Image: Priority efficient       Image: Priority efficient         VPN       Image: Priority efficient       Image: Priority efficient       Image: Priority efficient       Image: Priority efficient         Services       Image: Priority efficient       Image: Priority efficient       Image: Priority efficient       Image: Priority efficient         Image: Priority efficient       Image: Priority efficient       Image: Priority efficient       Image: Priority efficient         Image: Priority efficient       Image: Priority efficient       Image: Priority efficient       Image: Priority efficient         Image: Priority efficient       Image: Priority efficient       Image: Priority efficient       Image: Priority efficient	Status	∧ Gener	al Settings				
Route       Index       Priority       Bandwidth       Borrow Spare Bandwidth         Firewall       1       Highest       20       true         Qos       1       High       20       true         IP Passthrough       3       Normal       20       true         4       Low       20       true       1         5       Lowest       20       true       1         Services         Index Source Address       Source Port       Target Address       Target Port       Protocol       Priority	Interface			j	Enable QoS OFF		
Kouce       1       Highest       20       true         Price       1       Highest       20       true         Qos       2       High       20       true         3       Normal       20       true       1         VPN       5       Lowest       20       true         Services       AQoS Rules       Index Source Address       Source Port       Target Address       Target Port       Protocol       Priority	Network	^ Priorit	y Definition				
Prieval       2       High       20       true         IP Passthrough       2       High       20       true         VPN       3       Normal       20       true         5       Lowest       20       true         Services         Index Source Address       Source Port       Target Address       Target Port       Protocol       Priority	Route	Index	Priority	Bandwidth	Borrow Spare Bandwidth		
Wormal       20       true         IP Passthrough       3       Normal       20       true         VPN       4       Low       20       true         5       Lowest       20       true         Services         Index Source Address       Source Port       Target Address       Target Port       Protocol       Priority	Firewall	1	Highest	20	true		
4       Low       20       true         VPN       5       Lowest       20       true         Services       AQoS Rules       Index Source Address       Source Port       Target Address       Target Port       Protocol       Priority	QoS	2	High	20	true		
VPN       5       Lowest       20       true         Services       AQoS Rules       Index Source Address       Source Port       Target Address       Target Port       Protocol       Priority	IP Passthrough	3	Normal	20	true		
Services A QoS Rules Index Source Address Source Port Target Address Target Port Protocol Priority		4	Low	20	true		
Index Source Address Source Port Target Address Target Port Protocol Priority	VPN	5	Lowest	20	true		
	Services	∧ QoS R	ules				
		Index S	ource Address	Source Port	Target Address Target Port	Protocol Priority	
System	System						

## 2.2 Uninstallation

#### Path: System->App Center

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

App Cen	ter					
∧ App In	stall					
			File	Choose File No file chosen	Install	
∧ Installe	ed Apps					
∧ Installe Index	ed Apps Name	Version	Status	Description		

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

Route	r Web Mana	iger			
	peration succ you want to				
	ок	Cance	el		
	and the second sec				
App Cen App In	and the second sec				
App Cen App In	and the second sec		File	Choose File No file chosen	Insta
App In	and the second sec		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	
<b>Priorit</b>	y Definitior	n	and the second second	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 K to enter the priority definition configuration window.

QoS	
∧ Priority Definition	
Index	1
Priority	Highest v
Bandwidth	20
Borrow Spare Bandwidth	

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

∧ QoS Rules							
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	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			
		Pro	tocol	v			
		Pri	ority Normal	v			

QoS					
Item	Description				
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	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	tocol Select from "All", "TCP", "UDP", "ICMP" and "TCP&UDP".				
Driority	Select from "Highest", "High", "Normal", "Low", "Lowest".				
Priority	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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