

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
December 23, 2021	2.0.0		Deleted the document status: confidential

Chapter 1 Overview

SNMP (Simple Network Management Protocol) is a widely used protocol for monitoring the health and welfare of network equipment (e.g. routers). SNMP monitor devices can be computer, router, printer, ups or any other SNMP device.

SNMP in router implement SNMP v1, SNMP v2c and SNMP v3. We can download the MIB file directly from web interface. MIBs are Management Information Base's that describe the data structures that can be requested from SNMP device. We also can manage router router via SNMP tool with the MIB file.

SNMP 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 Center

1 Please place SNMP App .rpk file (e.g. r2000-smnp-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.

ſ	I	1	

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

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



App Center			
App Install			<u> </u>
	File	Choose File r2000-snmp-2.0.0.rpk	Install

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	e File r2000-snmp-2.0.0.rpk Install
	Router Web Manager	100%
∧ Installed App Index Na	Operation successfully completed. Do you want to reboot immediately? OK Cancel	ription

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

App Cen	ter								
App Install									
			File	Choose File No file chosen	Install				
^ Installe	ed Apps								
Index	Name	Version	Status	Description		-			
1	snmp	2.0.0	Stopped	SNMP subagent		×			

	SNMP Agent	SNMP Trap	MIB	S			
Status	A SNMP Agent	Settings					
Interface		Enable SI	NMP Agent	o Ma	FF		
Network			Port	161			
VPN			Version	SNMPv3	V		
		Loc	ation Info				
Services		Co	ontact Info				
Syslog							
Event		Sys	tem Name]		
NTP SMS		Authentication	Algorithm	MD5	v		
Email		Privacy	Algorithm	DES	v		
SSH							
SNMP							
Web Server							
Advanced							
System						Submit	Cancel

2.2 Uninstallation

Path: System->App Center

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

App Cen	ter					
∧ App Ins	stall					
			File	Choose File No file chosen	Install	
∧ Installe	ed Apps					
Index	Name	Version	Status	Description		
	snmp	2.0.0	Stopped	SNMP subagent		

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

Router	Web Mana	ige r			
		essfully com reboot imme		2	
50	ок	Cance			
Contract of the second	Concession -				
App Cen App Ins	Concession -		File	Choose File No file chosen	Install
App Cen App Ins	stall		File	Choose File No file chosen	Install

Chapter 3 Parameters Description

SNMP Agent SNMP Trap MIE	IS CONTRACTOR OF CONTRACTOR
SNMP Agent Settings	n in the second s
Enable SNMP Agent	ON OFF
Port	161
Version	SNMPv1/v2/v3 v
Location Info	
Contact Info	
System Name	
Readonly Community Name	
Readwrite Community Name	
Authentication Algorithm	MD5
Privacy Algorithm	DES

	SNMP Agent @ SNMP							
Item	Description	Default						
Enable SNMP Agent	Switch "ON" to enable SNMP Agent.	OFF						
Port	UDP port for sending and receiving SNMP requests.	161						
Version	Select from "SNMPv1", "SNMPv2" and "SNMPv3".	SNMPv3						
Location Info	Enter the router's location info which will send to NMS (Network Management System).	null						
Contact Info	Enter the router's contact info which will send to NMS	null						
System name	Enter the router's system name which will send to NMS.	null						
Readonly Community	Enter the community name which was allowed only to get the status of							
Name	router.	null						
Readwrite	Enter the community name which was allowed to get the status and set the							
Community Name	configuration of router.	null						
Authentication Algorithm	Select from "MD5" or "SHA". The authentication password default to be the login password of router. The Factory Default login password of router is "admin". We can change the password in System-> User Management section. The authentication password must be the same as privacy password on NMS.	MD5						
Privacy Algorithm	Select from "DES" or "AES". The privacy password default to be the login password of router. The Factory Default login password of router is "admin". We can change the password in System-> User Management section. The privacy password must be the same as authentication password on NMS.	DES						

SNMP Agent	SNMP Trap MIE	s	
∧ SNMP Trap Set	∧ SNMP Trap Settings		
	Enable SNMP Trap	ON COFT	
	Version	SNMPv3	
	Receiver Address		
	Receiver Port	162	
∧ SNMPv3 Authe	SNMPv3 Authentication		
	Username		
	Authentication Algorithm	MD5	
	Authentication Password		
	Privacy Algorithm	DES	
	Privacy Password		

Event Selection	7
System Startup	OFF
System Reboot	OFF
System Time Update	OFF
Configuration Change	ON OFF
Cellular Network Type Change	ONOFF
Cellular Data Stats Clear	ON OFF
Poor Signal Quality	OFF
Link Switching	OFF

SNMP Trap			
Item	Description	Default	
Enable SNMP Trap	Switch "ON" to enable SNMP Trap feature.	Disable	
Version	Select from "SNMPv1", "SNMPv2" and "SNMPv3".	SNMPv2	
Receiver Address	Enter NMS (Network Management System) IP address.	Null	
Receiver Port	Enter NMS port number	0	
SNMPv3 Authentication			
Username	Set the username for NMS to receive the SNMP trap.	null	
Authentication Algorithm	Select from "MD5" or "SHA".	MD5	
Authentication Password	Set the authentication password for NMS to receive the SNMP trap.	null	
Privacy Algorithm	Select from "DES" or "AES".	DES	
Privacy password	Set the privacy password for NMS to receive the SNMP trap.	null	
Event Selection			
Switch "ON" to enable the event. When the enabled event occurs, router will sent the related SNMP trap to NMS.			

SNMP Agent	SNMP Trap	MIE	as l
A SNMP MIBS			
		SNMP MIBS	Generate
		SNMP MIBS	Download

MIBS	
Item	Description
Generate	Click to generate the SNMP MIB file.
Download	Click to download the SNMP MIB file which is used to manage the router router via
	SNMP tool.

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