

## Introduction

This Manual is the quick start manual for OT-4020VW GEPON ONU. It shows you how to start configuring the OT-4020VW to your demands. It shows you how to configure DHCP, STATIC IP, PPPOE, VLAN, VOIP and Wireless AP functions.

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#### Startup Process:

- 1. Connecting your OT-4020VW to a GEPON OLT with a PLC Fiber Splitter, in which, the OLT has been connected to Internet.
- 2. Connecting your OT-4020VW to your PC through its Ethernet LAN interfaces.
- After boot up, please log in the OT-4020VW's WEB GUI at <u>http://192.168.86.1</u>
   3.1. The default user name is ' admin '
  - 3.2. The default password is ' admin '
  - 3.3. Please see Fig-01 below:

C 🖉 Mttp://192.168.86.1/login.html	P + ≥ → X 🙋 LOGIN	×	☆ 🕸
	LOGIN USERNAME admin PASSWORD OK Cancel		



4. After entering 'admin' in both USERNAME and PASSWORD column, please click 'OK' or presss 'Enter' to log in.



86.1:8686/main.html			¢- ₪¢	× 🏉 GEPON	I ONU	×			
OVER								LOGOUT	
STATUS	STATUS	INTERNET	SECURI	IY APPLIC	ATION	MANAGEMENT	DIAGNOSIS	HELP	Ī
514105	DEVICE INFO	INTERNET	LAN & WLAN	VOIP STATUS	REM	OTE			
BASIC DEVICE INFO									
	Basic De	vice Info							
	Device Mo	del: O	T-4020VW						
	Identifica	tion No.: 0	01FA4-001fa491c20	e					
	Applicatio	n: Fi	ber To The Home						
	Hardware	Version: C	S012011050001.1						
	Software	Version: C	S012011050001.1						
	Firmware	Version: C	230						
	PON regis	ter status: M	PCP Registered CTC	Unauthenticated					



5. Then we are ready to go configure DHCP, STATIC IP, PPPOE, VLAN, VoIP and Wireless.

#### 6. **PPPOE Configuration:**

- 6.1. Please go to ' **INTERNET** '  $\rightarrow$  ' **WAN CONFIG** '
- 6.2. Please go to ' WAN Connection Name ' → select 'New WAN Connection'
- 6.3. Please go to ' Mode ' -> select ' Route '
- 6.4. Please go to 'Connection Mode' 2 select 'IPV4'
- 6.5. Please go to '**PPPOE** ' and check the box of PPPOE
- 6.6. Please check the first box reading 'Pppoe Proxy Or Mixed Pppoe Bridging/routing Mode Disabled'
- 6.7. See FIG-03 Below:

							LOGOUT
STATUS	INTERNET	SECURITY	APPLICATIO	MAN	AGEMENT	DIAGNOSIS	HELP
WAN CONFIG	PORT BINDING DHO	CP SERVER WLAI	N CONFIG REM	DTE MGMT	QOS	TIME CONFIG	ROUTING
Uplink: WAN Conne name: Mode :	EFON V ection New WAN co Route V	onnection 🔻	>				
Connection C DHCP	Mode: (IPv4)	/ Obtain Ip Address F	rom ISP				
C Static	Static     Configure The Static Ip That Your ISP Assigned     Please Check The Box If Using PPPOE						
	Pppoe Proxy Bridging/rout	Or Mixed Pppoe ing Mode Disabled	Note: Configure t	ne WAN			
	PPPOE proxy Mixed PPPoE enabled	routing/bridge	connection will new reboot!	ed to			
	STATUS VAN CONFIG Uplink: WAN Conner name: Mode : Connection	STATUS     INTERNET       VAN CONFIG     PORT BINDING     DHO       Uplink:     EPON        WAN Connection name:     New WAN connection     New WAN connection       Mode :     Route        Connection Mode:     IPv4       O DHCP     Automatically       Static     Configure The       PPPOE     Please Check       Image:     Popoe Proxy       Image:     PPPOE       Image:     PPPOE	STATUS       INTERNET       SECURITY         VAN CONFIG       PORT BINDING       DHCP SERVER       WLAN         Uplink:       EPON        WAN Connection       Image: Connection       I	STATUS       INTERNET       SECURITY       APPLICATION         WAN CONFIG       PORT BINDING       DHCP SERVER       WLAN CONFIG       REMAINS         Uplink:       EPON        WAN CONFIG       New WAN connection       Image: Connec	STATUS       INTERNET       SECURITY       APPLICATION       MAN.         VAN CONFIG       PORT BINDING       DHCP SERVER       WLAN CONFIG       REMOTE MGMT         Uplink:       EPON              WAN Connection name:	STATUS       INTERNET       SECURITY       APPLICATION       MANAGEMENT         VAN CONFIG       PORT BINDING       DHCP SERVER       WLAN CONFIG       REMOTE MGMT       QOS         Uplink:       EPON	STATUS       NTERNET       SECURITY       APPLICATION       MANAGEMENT       DIAGNOSIS         VAN CONFIG       PORT BINDING       DHCP SERVER       WLAN CONFIG       REMOTE MGMT       QOS       TIME CONFIG         Uplink:       IFON





- 6.8. Please go to 'User Name ' blank and input your PPPOE User name
- 6.9. Please go to ' Password ' to enter the password for your PPPOE account
- 6.10. For the 'Service Name' option, you can leave blank if it's not specified in your PPPOE Server.
- 6.11. Please go to 'Dial-up ' 2 select 'Automatically Connect'
- 6.12. Please go to 'Service Mode' and select ' VoIP\_INTERNET '
- 6.13. Please go to 'Binding Port' check all the boxes for Port 1 to Port 4, and Wireless SSID 1 to SSID 4
- 6.14. Please click ' Apply ' button to save and apply the new PPPOE configuration.
- 6.15. After these steps are correctly done, your PPPOE session should be connected.
- 6.16. Please see FIG-04 Below:

MTU:	1492
NAT:	
Enable Vlan:	
User Name:	9z8898848@163.gd
Password:	
Service Name:	
Dial-up:	Automatically -
Service Mode:	VOIP_INTERNET -
Port binding:	
P port_1	₽ port_2
✓ port_3	☑ port_4
Wireless(SSID1)	☑ Wireless(SSID2)
☑ Wikeless(SSID3)	Wireless(SSID4)
NOTE: Can not bind been binded to diffe previous configuration	the same port to different WAN connection. If the same port has rent WAN connection, the last configuration will flush your ons on this port.
Apply Dele	te



#### 7. DHCP WAN Configuration

- 7.1. . Please go to ' INTERNET ' 2 ' WAN CONFIG '
- 7.2. Please go to ' WAN Connection Name ' 2 select 'New WAN Connection'
- 7.3. Please go to ' Mode ' -> select ' Route '
- 7.4. Please go to 'Connection Mode' D select 'IPV4'
- 7.5. Please go to '**DHCP** ' and check the box of DHCP
- 7.6. Please go to 'Service Mode' and select ' VoIP\_INTERNET '
- 7.7. Please go to ' Binding Port ' check all the boxes for Port 1 to Port 4, and Wireless SSID 1 to SSID 4
- 7.8. Please click ' Apply ' button to save and apply the new DHCP WAN configuration.



7.9. After these steps are correctly done, your DHCP WAN session should be connected.

7.10. P	lease see FIG-05	below:					
OVERIER							LOGOUT
INTERNET	STATUS	INTERNET	SECURITY	APPLICATION	MANAGEMENT	DIAGNOSIS	HELP
INTERNET	OVAN CONFIG PO	ORT BINDING DH	ICP SERVER WLAN	N CONFIG REMOTE	MGMT QOS	TIME CONFIG	ROUTING
WAN CONFIG	Uplink: WAN Conneer name: Mode : Connection M DHCP C Static C PPPoE MTU: NAT: Enable Vlan: Service Mode Port binding: F port_1 F port_3 F Wireless() NOTE: Can r has been bine your previou	Ction LEPON Reute Mode: LEv4 Automatical Configure T Please Chec 1400 Reute NOIP_INTE Please Chec 1400 Please Chec 1400	In other static Ip That You the Static Ip That You the Static Ip That You the Box If Using P (SSID2) (SSID2) (SSID4) of to different WAN of N connection, the last this port.	From ISP ur ISP Assigned PPOE	e port sh		

#### 8. STATIC IP WAN Configuration

FIG-05

- STATIC IP WAN Configuration
  - 8.1. . Please go to '  $\ensuremath{\mathsf{INTERNET}}$  '  $\ensuremath{\mathbbmat}}}}}$  , plants plants
  - 8.2. Please go to ' WAN Connection Name ' 2 select 'New WAN Connection'
  - 8.3. Please go to ' Mode ' -> select ' Route '
  - 8.4. Please go to 'Connection Mode' 2 select 'IPV4'
  - 8.5. Please go to 'Static ' and check the box of Static
  - 8.6. Please enter the Static IP, Subnet Mask, Gateway and DNS information
  - 8.7. Please go to 'Service Mode' and select ' VoIP\_INTERNET '
  - 8.8. Please go to ' Binding Port ' check all the boxes for Port 1 to Port 4, and Wireless SSID 1 to SSID 4
  - 8.9. Please click ' Apply ' button to save and apply the new Static IP WAN configuration.
  - 8.10. After these steps are correctly done, your STATIC IP WAN session should be connected.
  - 8.11. Please see FIG-06 and FIG-07 below:



OVERIEK									LOGOUT
	STATUS		SECURITY	APPLIC	ATION	MANAG	EMENT	DIAGNOSIS	HELP
INTERNET	WAN CONFIG	PORT BINDING	DHCP SERVER WI	AN CONFIG	REMOTE	MGMT	QOS	TIME CONFIG	ROUTING
WAN CONFIG	Uplink: WAN Conr name: Mode :	EPON New WA Route	N connection	•					
	Connection		2	5 100					
	© DHCP	Automa	cically Obtain Ip Addre e The Static Ip That '	ss From ISP Your ISP Assig	ned				
	C PPPoE	Please C	heck The Box If Using	PPPOE					
			FIG	6-06					
	MTU:	1400							
	NAT:								
	Enable Vlan:								
	ID Address :	112 95 147 88	5						
	Subnet Mask ·	255 255 255 0	- ♪						
	Default Gateway	: 112.95.147.1	ı D						
	Primary DNS:	202.96.128.166	3						
	Secondary DNS:	202.96.134.133	3						
	Service Mode:	VOIP_INTERNET	•						
	Port binding:								
	l♥ port_1	I port_2							
	( IM port_3	IM port_4							
	Wireless(SSII	)1) I Wireless(SSIE	12)						:
	NOTE: Can not b has been binded previous configur	(3) M Wreless(SSIL ind the same port to to different WAN con ations on this port.	<sup>14</sup> ) different WAN connectic nection, the last configu	n. If the same ration will flush	port your				
	Apply De	elete							
			FIG	i-07					

 9.
 VLAN
 BRIDGING
 WAN
 Configuration.

 For all DHCP, STATIC IP, PPPOE connection modes, you can configure VLAN IDs as you may wish.

Below is the example for you to configure VLAN ID on Bridge mode.

- 9.1. Please go to 'INTERNET ' 2' WAN CONFIG '
  9.2. Please go to 'WAN Connection Name ' 2 select 'New WAN Connection'
- 9.3. Please go to ' **Mode** ' -> select ' **Bridge**'
- 9.4. Please go to '**Connection Mode'** 2 select '**IPV4**'
- 9.5. Please go to '**Enable VLAN** ' and check the box of it.
- 9.6. Please enter the IEEE802.1Q VLAN ID.
- 9.7. Please go to 'Service Mode' and select ' INTERNET '
- 9.8. Please go to ' Binding Port ' check all the boxes for Port 1 to Port 4, and Wireless SSID 1 to SSID 4
- 9.9. Please click ' Apply ' button to save and apply the new Static IP WAN configuration.

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9.10. After these steps are correctly done, your IEEE802.1Q VLAN Bridging WAN session should be connected.

#### 9.11. Please see FIG-08 below:

OVERIEN		LOGOUT
INTERNET	STATUS INTERNET SECURITY APPLICATION MANAGEMENT DIAGNOSIS	HELP
INTERNET WAN CONFIG	STATUS     NTERNET     SECURITY     APPLICATION     MANAGEMENT     DIAGNOSIS       WATCORES     PORT BINDING     DHCP SERVER     WLAN CONFIG     REMOTE MGMT     QOS     TIME CONFIG       Uplink:     FRON	HELP ROUTING
	Apply Delete	

#### FIG-08

#### 10. VOIP Configuration.

- 10.1. Please go to 'APPLICATION'  $\rightarrow$  ' VOIP CONFIG ' to configure new VoIP parameters.
- 10.2. Go to 'Binding Port For VoIP' and select the right WAN interface for your VoIP configuration.
- 10.3. Go to ' **Country**' and select the right country for your VoIP configuration.
- 10.4. Go to 'SIP Port' to configure the right port for your VoIP sessions.
- 10.5. Check the box for 'Enable Primary SIP Proxy' and configure the right SIP Server and SIP port.
- 10.6. Check the box for 'Enable Primary SIP Registration' and configure the right SIP Server and SIP port.
- 10.7. Go to the SIP account column, configuring the right Account NO., Phone Number, Authentication ID and password.
- 10.8. After done, please click on '**Apply'** button to save and apply your new VoIP Configuration. Your VoIP session should be connected after this step done.
- 10.9. Please see below for FIG-09 example:



OVER							LOGOUT
APPLICATION	STATUS	INTERNET	SECURITY	APPLICATION	MANAGEMENT	DIAGNOSIS	HELP
	DDNS CONFIG		JPNP CONFIG	IP CONFIG IGMP	CONFIG MLD CON	NFIG DAILY APP	
SIP BASIC CONFIG	Voice S	IP Basic Config					<b>A</b>
DIGITAL MAP		21 20010 00111g					
VOIP MEDIA	Enter SIP F	Parameters, Click 'A	Apply' button to save	e and take new sett	ings into effect.		
SIP SERVICES	Binding Port		p0.1 🗸				
IMS SERVICE	Country	(BR	A - BPA7TI	-			
MODULATION	Country	(bla	A DIALIL	· _			
	SIP Port [Ra	inge:0-65535] 506	<u>i</u> 0				
	I €nable	Primary SIP Proxy	/				
	Primary SIP	Proxy Address: sip.	overtek.com				
	Primary SIP	Proxy Port: 500	0				
	🗆 Enable	Primary SIP Outbo	ound Proxy				E
	🕢 Enable	Primary SIP Regist	tration				
	Primary SIP	Server Address: sip.	overtex.com				
	Primary SIP	Server Port: 596	<u>50_</u> >				
	SHE ACCOUNT	DF 1		2			
	Ascount E	nabled 🔽					
	Phone Nur	nber <b>3</b> 016	3017				
	Authentica	ition ID 3016	3017)				
	Auth Pass	vord					
				Apply			

FIG-09

#### 11. Wireless AP Configuration

- 11.1. Please go to ' INTERNET' ' WLAN CONFIG ' to configure Wireless AP parameters
- 11.2. Go to 'Enable WLAN ' and check the box for it.
- 11.3. Go to ' SSID ' to set the name of your Wireless AP.
- 11.4. Click on 'Apply' button to save and apply your new Wireless AP configurations.
- 11.5. Click on 'Advanced' button to configure your Wireless AP security profiles and authentication methods.
- 11.6. Go to ' Choose SSID ' to select the SSID that you want to enable Wireless Security for.
- 11.7. Go to 'WiFi Authentication' to set your Wireless Authentication method.
- 11.8. Go to 'WPA Preshared Key ' to set the password of your Wireless AP.
- 11.9. Go to ' WPA Encryption' to set your Wireless Security Encryption method.
- 11.10. See below for FIG-10, FIG-11 and FIG-12 for the examples:



OVERIER							LOGOUT
INTERNET	STATUS	NTERNAT	SECURITY	APPLICATION	MANAGEMENT	DIAGNOSIS	HELP
	WAN CONFIG	PORT BINDING DI	ICP SERVER WLAT	N CONFIG REMOTE	MGMT QOS	TIME CONFIG	ROUTING
WLAN CONFIG	Basic W	LAN Configuration	ı				
	Configu searchin settings	ring the basic fund Ig for Hidden SSII I into effect.	ctions of Wireless D, Configuring th	ELAN, including E e name of Wirele	nable or Disble W ss AP. Click 'Apply	LAN, Scanning an ' button to take n	d iew
	E	Enabled Wireless ssid2		Enabled Wireless ssid	3	Enabled Wireless sside	4
	SSID2:		SSID3:		SSID4:		
	<b>I</b> En	nable WLAN					
	E Hie	de SSID1					
	WLA	AN Client separation					
			Disabled WMM Broadcast				
	$\sim$		Enable WMF				
	(SSID:)	OvertekAP					
	BSSID:	00:1F:A4:91:C2:0F					

FIG-10



Band:	2.4GHz	•		
Channel selection:	Auto	<ul> <li>The current char</li> </ul>	inel: 1	
802.11n/EWC:	Automatic	•		
Bandwidth:	20MHz in Both Bands	•	Current Bandwidth: 20MHz	
Controlled sideband:	Lower	Ŧ	Current sideband: None	
802.11n rate:	Auto	•		
802.11n protecting mode:	Auto	•		
Only support 802.11n Client:	Off	•		
54g™rate:	54 Mbps	-		
Multicast Rate:	Auto	•		
Basic rate:	Default	•		
XPress™Technology:	Enabled	•		
Transmission power:	100%	•		
WMM:	Enabled	•		
WMM(Quality of service):	Forbidden	•		
WMMAPSD:	Enabled	•		
Apply	Advanced			



#### FIG-11

OVERIER								LOGOUT
INTERNET	STATUS	INTERNE?	SECURI	TY APPLIC		ANAGEMENT	DIAGNOSIS	HELP
	WAN CONFIG	PORT BINDING	DHCP SERVER	WLAN CONFIG	REMOTE MG	MT QOS	TIME CONFIG	ROUTING
WLAN CONFIG	Wireless	Security Confi	guration					
	Configuri Authenti Choose St Wifi authe WPA Pre- WPA sess interval: WPA enci WPA enci	ing Security for V cation Key and Ke SID: entication: Shared Key: ion key re-generation ryption: ryption:	Vireless LAN. Indey Length. OverTekAP WPA2 -PS on 0 TKIP+AES Disable • Apply	K Click P	ere to display	d, Data Encrypti	on Method, Wi-Fi	

FIG-12

#### **12. AUTO PROVISION**

Click ' INTERNET ' – 'REMOTE MGMT ' – 'AUTO PROVISION ' to enable Auto Provision function of your ONU.

The Auto Provision function is for remote update configuration and firmware of your OT-4020VW ONU. Enabling this function, you can configure the ONU remotely without human involvement. You can stay in your office updating the configuration for your Subscribers' device by uploading new configuration files or firmware at Server.

The OT-4020VW support auto provisioning through FTP, TFTP or http servers, you only need to update the configuration files and the firmware on your server, then when the Auto Provision condition is met, the ONU will automatically upgrade to the new configuration or new firmware version.

As the FTP, TFTP, HTTP servers are cost effective to deploy, the Auto Provision function is specially designed for small/medium ISPs to maintain the devices that are placed at Subscriber's house.



OVERIER										LOGOUT
INTERNET	STATUS	INTERNE	SECUR	ITY 4	APPLIC	ATION	MANA	GEMENT	DIAGNOSIS	HELP
	WAN CONFIG	PORT BINDING	DHCP SERVER	WLAN O	ONFIG	REMOTE	MGMT	QOS	TIME CONFIG	ROUTING
ITMS SERVER	Auto P	rovision								
LOID	Please click 'Apply' Button to save the settings.									
AUTO PROVISION										
	Current	Config Version	1.000							
	Service	Address	0.0.0							
	Usernam	пе								
	Passwor	d								
	Config F	ile Name								
	Config E	ncrypt Key								
	Protoco	l type	FTP 👻							
	Update	Interval Time	1	Hou	ır					
	Update	Mode	Disabled		-					
	Apply									

**Current Config Version:** Indicate the current version number of the configuration file. You do not need to configure this option as the configuration file versions are updated automatically.

**Service Name:** This is the Auto Provision Server address. You must fill this address in order to enable device know where to get the updated configuration file.

User Name: This is the user name for your Auto Provision Server

Password: This is the password for your Auto Provision Server

Config File Name: This is the configuration file name, it's named using the MAC address of the ONU.

You can leave this blank.

**Config Encryt Key:** The OT-4020VW ONU support AES Encryption. You can encrypt the configuration file with AES and upload it onto the Auto Provision Server. You should fill the Encryption key in the ONU so the ONU can decrypt the configuration file.

Protocol Type: You can set Auto Provision server type to FTP, TFTP or HTTP

**Update Interval Time:** This is the Auto provision interval time, the ONU can be set to auto download the configuration file within the interval set in this blank. The minimum time interval is 1 hour, the max time interval can be 1440 hours. **Update Mode:** 

Disabled: It means the Auto Provision function is disabled in the ONU;

**Update After Reboot:** Set to 'Update After Reboot', the ONU will auto download the configuration file from the server when it's booting up.

**Update at time interval:** Set to ' Update at time interval', the ONU will auto download the configuration file from the server within the time interval set.

Note: 'Update after reboot ' and ' Update at time interval ' work simultaneously.

If you set the Auto Provision mode to 'Update at time interval', the ONU will auto download the configuration file when it's rebooted.

Apply: Click 'Apply' button to save and take new settings into effect.

### 12.1. Configuration Example for Auto Provision

**A.** Click '**INTERNET** ' – '**REMOTE MGMT** ' – '**AUTO PROVISION** ' to configure the right Auto Provision paramters. After done, click 'Apply' to save and activate Auto Provision function.

**B**. Enter into <u>http://192.168.86.1/backupsettings.html</u>, click 'Backup Setting ' button to download the configuration file to your local folder.





**C.** Go to 'Status' – 'Device Info' Page to find out the MAC address of OT-4020VW ONU.

OVEREK								
STATUS	STATUS	INTERNET	SECURI	TY APPLICA				
51/105	DEVICE INFO	INTERNET	LAN & WLAN	VOIP STATUS	REMOTE			
BASIC DEVICE INFO	This is the <b>Basic De</b>	MAC Address of y evice Info	our OT-4020VW OMU	I				
	Device M	odel: O	OT-4020VW					
	Identifica	tion No.: 0	001FA4001fa491c20e					
	Applicatio	on: Fi	ber To The Home					
	Hardware	e Version: C	5012011050001.1					
	Software	Version: C	5012011050001.1					
	Firmware	Version: C	230					
	PON regi	ster status: M	PCP Registered CT	C Unauthenticated				

**D**. Name the Configuration file in the format 'mac address +.cfg'. In this example, the MAC address is **001fa491c20e**. So the correct configuration file name should be '**001fa491c20e.cfg**'.

**E**. Edit the configuration file using any html file editors, such as Dream Weaver.

**E.1**. To upgrade configuration file, it is mandatory that you add ' <<**GEPON ONU CONFIG FILE>>Digests:3.123** ' into the '**001fa491c20e.cfg'** configuration file to enable Auto Provisioning work correctly. See below for the example:

00	001fa491c20e.cfg					
	▶代码	🖴 拆分 🔄 设计 标题: 💦 👘 🚱 🔁 📃 🗔				
	1	< <gepon config="" file="" onu="">&gt;Digests:3.123</gepon>				
무	2	xml version="1.0"?				
	3	<dslcpeconfig version="3.0"></dslcpeconfig>				
5	- 4	<internetgatewaydevice></internetgatewaydevice>				
++	5	<landevicenumberofentries>1</landevicenumberofentries>				
	6	<wandevicenumberofentries>1</wandevicenumberofentries>				
	7					



**E.2.** If you want to update both configuration file and firmware, then you should add the following parameters into the configuration file:

<<GEPON ONU CONFIG FILE>>Digests:3.123 <<AUTOUPDATE CONFIG MODULE>>Digests:1008 Auto Image Server:ftp.overtek.com.br Auto Image Protocol:2 Auto Image Name:OT4020VW.w

In the above parameters, the Auto Image Server should be your own server address The Auto Image protocol definition: 1 = FTP, 2 = TFTP, 4 = HTTP, you can set your preferred method.

The Auto Image name can be any name that you prefer, e.g, ' **123.w**'.

Please see below for the example:



**F.** After you changed all the configuration parameters you want, upload this configuration file onto your Auto Provision server.

**G.** If you set the ONU 'Update After Reboot' in the step **A**, then when the ONU is rebooted, it will auto download the new configuration file from the Auto Provision Server, then checksum and apply by itself.

End of The Quick Start Manual. For the parameters that are not specified in this manual, please find them in the OT-4020VW User Manual



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