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ONU Intelligent Terminal User Manual

User Convention

It's the user manual for ONU Intelligent Terminal . The manual provide the configuration method and step based on WEB interface. The operating system introduced in the manual are Windows 2000 / XP system as an example. This manual only provides the basic configuration. Please contact the supplier if you need more advanced configuration.

All the equipment configurations in this manual take ONU intelligent terminal as an example if no special statement.

Packing List

- ◆ 1pcs ONU Intelligent Terminal
- ◆ Power adapter 12V-1A
- ◆ User manual
- ◆ Cat5 cable

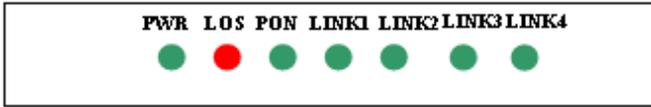
Installation Environment

In order to guarantee that the equipment work normally for a long time, it is recommended to use it in the environment as follows:

1. Stay away from heat and keep ventilated
2. Place the device on a flat level surface
3. Place the device in the dry environment without dust

Note: Please use the rated power, in order to guarantee that the equipment work normally.

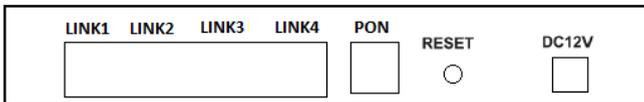
Indicator Light



Indicators Description

Indicator	Description	Function	
PWR	Power indicator	Always OFF	No power connected
		Always ON	Power connected
LOS	Optical port LOS indication	Always OFF	No connection
		Flash	Connection
PON	System registration indication	Always OFF	Not start system
		Always ON	Work normally
LANK1-4	Eth 1-4 indicators	Always OFF	There is no equipment connected at this port
		Flash	Data communication

Port and Button



LINK1-4: LAN ports with the routing function

PON: PON port which is connected with PLC splitter

Reset:

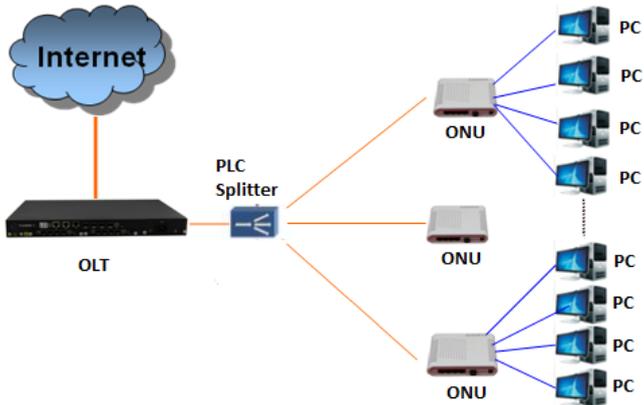
DC12V: Power Supply

Note:

(1). Console Port is on the front panel.

(2). The user could login WEB interface to configure Eth 1-4 by any Eth port.

1. Equipment Connection



Equipment connection diagram as shown above:

ONU Intelligent Terminal supports four Eth ports (Eth1-Eth4). The user could configure VLAN ID, port binding and work mode (route and bridge mode) of every Eth port. The default IP address of routing management port (LAN1-4) is 192.168.1.1.

2. WEB Configuration

2.1 Login WEB Interface

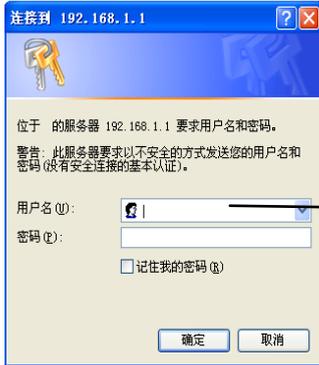
First:

Open IE browser, input `http://192.168.1.1`, and press Enter



`http://192.168.1.1`

Second:



Immediately pop up a new dialog box, enter the default user name and password, and then click login.

Username: admin
Password: admin

Third:

After the login, enter WEB management interface. The user could check system information, WAN interface status, WAN interface Flow count, LAN interface status and Wireless status by **Status** on the left side.

<ul style="list-style-type: none">* Status+ Network+ WLAN+ DHCP Server+ Forwarding+ Security+ Route+ Tools+ Logout <p>©2013 Cab Link</p>	<h3>System Info</h3> <table><tr><td>Software Version:</td><td>0.0.2 build eoc-cablink</td></tr><tr><td>Build Date:</td><td>2013-08-19-14:27</td></tr><tr><td>Hardware Version:</td><td>ar9331</td></tr><tr><td>Run Time:</td><td>0d-6h-58m-8s</td></tr></table> <p style="text-align: right;"><input type="button" value="Refresh"/></p> <hr/> <h3>WAN Interface Status</h3> <table><tr><td>Access Mode:</td><td>Dynamic IP address</td></tr><tr><td>Connection status:</td><td>Disconnect</td></tr><tr><td>MAC address:</td><td>20:59:A0:91:9A:7A</td></tr><tr><td>IP Address:</td><td></td></tr><tr><td>Submask:</td><td></td></tr><tr><td>Gateway:</td><td></td></tr><tr><td>DNS Servers:</td><td></td></tr><tr><td>port bind:</td><td>WLAN1,LAN1</td></tr></table> <p style="text-align: right;"><input type="button" value="Renewing address"/></p> <hr/>	Software Version:	0.0.2 build eoc-cablink	Build Date:	2013-08-19-14:27	Hardware Version:	ar9331	Run Time:	0d-6h-58m-8s	Access Mode:	Dynamic IP address	Connection status:	Disconnect	MAC address:	20:59:A0:91:9A:7A	IP Address:		Submask:		Gateway:		DNS Servers:		port bind:	WLAN1,LAN1
Software Version:	0.0.2 build eoc-cablink																								
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Gateway:																									
DNS Servers:																									
port bind:	WLAN1,LAN1																								

<ul style="list-style-type: none">* Status+ Network+ WLAN+ DHCP Server+ Forwarding+ Security+ Route+ Tools+ Logout <p>©2013 Cab Link</p>	<h3>WAN Interface Flow Count</h3> <table><tr><td>Send Bytes:</td><td>1045602</td></tr><tr><td>Receive Bytes:</td><td>0</td></tr><tr><td>End Packages:</td><td>2601</td></tr><tr><td>Receive Packages:</td><td>0</td></tr></table> <hr/> <h3>LAN Interface Status</h3> <table><tr><td>MAC address:</td><td>20:59:a0:91:9a:7b</td></tr><tr><td>IP Address:</td><td>192.168.1.1</td></tr><tr><td>Submask:</td><td>255.255.255.0</td></tr></table> <hr/> <h3>Wireless StatusWLAN1</h3> <table><tr><td>Wireless:</td><td>Enable</td></tr><tr><td>SSID:</td><td>cncr_919A79</td></tr><tr><td>BSSID:</td><td>20:59:A0:91:9A:79</td></tr><tr><td>Authentication Mode:</td><td>None</td></tr><tr><td>Channel:</td><td>Auto</td></tr><tr><td>Mode:</td><td>802.11b/g/n</td></tr></table> <hr/>	Send Bytes:	1045602	Receive Bytes:	0	End Packages:	2601	Receive Packages:	0	MAC address:	20:59:a0:91:9a:7b	IP Address:	192.168.1.1	Submask:	255.255.255.0	Wireless:	Enable	SSID:	cncr_919A79	BSSID:	20:59:A0:91:9A:79	Authentication Mode:	None	Channel:	Auto	Mode:	802.11b/g/n
Send Bytes:	1045602																										
Receive Bytes:	0																										
End Packages:	2601																										
Receive Packages:	0																										
MAC address:	20:59:a0:91:9a:7b																										
IP Address:	192.168.1.1																										
Submask:	255.255.255.0																										
Wireless:	Enable																										
SSID:	cncr_919A79																										
BSSID:	20:59:A0:91:9A:79																										
Authentication Mode:	None																										
Channel:	Auto																										
Mode:	802.11b/g/n																										

- * **Status**
- + Network
- + WLAN
- + DHCP Server
- + Forwarding
- + Security
- + Route
- + Tools
- + Logout

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Channel:	Auto
Mode:	802.11b/g/n

Wireless StatusWLAN2

Wireless:	Enable
SSID:	voip_919A79
BSSID:	22:59:A0:91:9A:79
Authentication Mode:	WPA2
Channel:	Auto
Mode:	802.11b/g/n

Wireless StatusWLAN3

Wireless:	Enable
SSID:	vod_919A79
BSSID:	32:59:A0:91:9A:79
Authentication Mode:	WPA2
Channel:	Auto
Mode:	802.11b/g/n

Wireless StatusWLAN4

Wireless: Disable

2.2 Network Parameter

2.2.1 WAN Configuration

VLAN need be Enable if need set VLAN ID for Eth port.

Business type includes INTERNET and OTHER. The default settings is INTERNET.

Service mode includes route and bridge. When it's route mode, there are three connect types, respectively DHCP, Static address and PPPOE address.

DNS settings and **port binding** are set according to your real network application requirement.

Please configure the above parameters according to your real network application requirement.

2.2.1.1 Route mode at LAN port

➤ DHCP

Choose DHCP, set VLAN ID, DNS, and port binding if necessary, finally click Save.

WAN参数

VLAN功能	<input checked="" type="checkbox"/> 启用
VLAN ID	<input type="text" value="74"/>
业务类型	<input type="text" value="INTERNET"/>
服务模式	<input type="text" value="路由"/>
NAT功能	<input checked="" type="checkbox"/> 启用
连接类型	<input type="text" value="DHCP"/>
自动获得DNS	<input checked="" type="checkbox"/> 启用
端口绑定	<input type="checkbox"/> LAN1 <input checked="" type="checkbox"/> LAN2 <input type="checkbox"/> LAN3 <input checked="" type="checkbox"/> LAN4 <input type="checkbox"/> WLAN1 <input type="checkbox"/> WLAN2 <input type="checkbox"/> WLAN3 <input type="checkbox"/> WLAN4

➤ Static address

Choose Static address, input manually IP address, subnet mask, gateway and Preferred DNS provided by operators, and doesn't have to fill in Alternate DNS, finally click "Save"

WAN参数

VLAN功能	<input checked="" type="checkbox"/> 启用
VLAN ID	<input type="text" value="74"/>
业务类型	<input type="text" value="OTHER"/>
服务模式	<input type="text" value="路由"/>
NAT功能	<input type="checkbox"/> 启用
连接类型	<input type="text" value="静态地址"/>
IP地址	<input type="text" value="192.168.10.41"/>
子网掩码	<input type="text" value="255.255.255.0"/>
网关	<input type="text" value="192.168.10.1"/>
主域名服务器	<input type="text" value="202.106.195.68"/>
备域名服务器	<input type="text" value="211.144.220.18"/>
端口绑定	<input type="checkbox"/> LAN1 <input checked="" type="checkbox"/> LAN2 <input type="checkbox"/> LAN3 <input checked="" type="checkbox"/> LAN4 <input type="checkbox"/> WLAN1 <input type="checkbox"/> WLAN2 <input type="checkbox"/> WLAN3 <input type="checkbox"/> WLAN4

Note: IP address, subnet mask, gateway and Preferred DNS and Alternate DNS only as the example, please consult the specific parameters with your operators.

➤ PPPOE Address

Choose **PPPOE**, input username and password provided by operators, as shown in the picture below, finally click “**Save**”

WAN参数

VLAN功能	<input checked="" type="checkbox"/> 启用
VLAN ID	<input type="text" value="74"/>
业务类型	<input type="text" value="OTHER"/>
服务模式	<input type="text" value="路由"/>
NAT功能	<input type="checkbox"/> 启用
连接类型	<input type="text" value="拨号网络"/>
用户名	<input type="text" value="PPOE"/>
密码	<input type="text" value="123411"/>
端口绑定	<input type="checkbox"/> LAN1 <input checked="" type="checkbox"/> LAN2 <input type="checkbox"/> LAN3 <input checked="" type="checkbox"/> LAN4 <input type="checkbox"/> WLAN1 <input type="checkbox"/> WLAN2 <input type="checkbox"/> WLAN3 <input type="checkbox"/> WLAN4

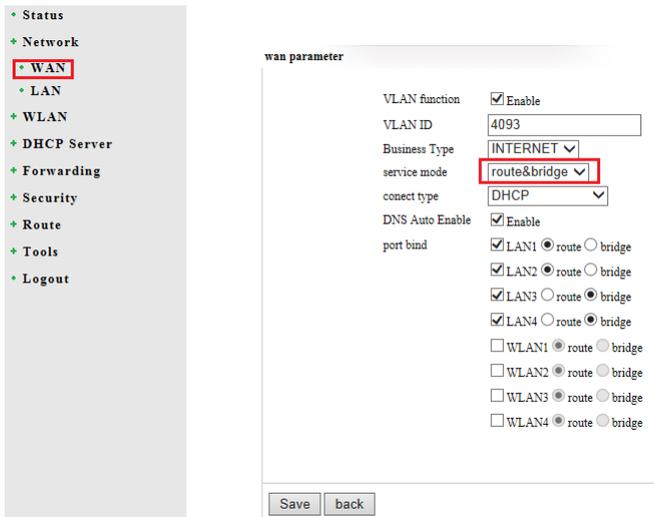
2.2.1.2 Bridge mode at LAN port

WAN参数

VLAN功能	<input checked="" type="checkbox"/> 启用
VLAN ID	<input type="text" value="81"/>
业务类型	<input type="text" value="INTERNET"/>
服务模式	<input type="text" value="桥接"/>
DHCP遗传	<input checked="" type="checkbox"/> 启用
端口绑定	<input type="checkbox"/> LAN1 <input checked="" type="checkbox"/> LAN2 <input checked="" type="checkbox"/> LAN3 <input type="checkbox"/> LAN4 <input type="checkbox"/> WLAN1 <input type="checkbox"/> WLAN2 <input type="checkbox"/> WLAN3 <input type="checkbox"/> WLAN4

Note: When the port is set as bridge, you can't login WEB management interface by IP address at this port

2.2.1.3 Route&Bridge mode at LAN port



If choose **route&bridge** mode, 4Eth ports can't be set as route or bridge mode simultaneously.

For example:

LAN 1 and LAN2 are set as route, and then LAN3 and LAN4 need be set as bridge.

LAN1, LAN2, LAN3 and LAN4 can't be set as route or bridge at the same time.

2.2.2 LAN Port Settings

Change IP address of the router, and save it. Login WEB interface by the new IP address next time.

- Status
- + Network
 - WAN
 - LAN**
 - + WLAN
- + DHCP Server
- + Forwarding
- + Security
- + Route
- + Tools
- Logout

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LAN Setting

IP Address:

Submask:

2.3 WLAN Settings(Reservation function for the future ONU with WIFI function)

2.4 DHCP Server

2.4.1 Service

Enable DHCP Server, and set the start and end address of IP pool(The range of IP pool is1-254). The default expiration time is one day, and the user can change it. Finally click Save to complete the settings.

- Status
- + Network
 - + WLAN
 - + DHCP Server
 - Service**
 - Client List
 - Static assign
- + Forwarding
- + Security
- + Route
- + Tools
- Logout

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DHCP Service Set

DHCP Server: Enable

IP pool start address:

IP pool end address:

Expiration Time: ▾

2.4.2 Client List

Show the name, MAC address, IP address and the valid name of the client end which is accessed to this AP currently.



The screenshot shows a network management interface. On the left is a sidebar menu with the following items: Status, Network, WLAN, DHCP Server, Service, Client List (highlighted with a red box), Static assign, Forwarding, Security, Route, Tools, and Logout. At the bottom of the sidebar is the text '©2013 Cab Link'. On the right, the 'Client List' page is displayed, featuring a table with the following data:

ID	Client name	MAC address	IP address	valid time
1	my_computer	00:12:3b:0c:224e	192.168.1.100	23h-12m-40s

Below the table is a 'Refresh' button.

2.4.3 Static Address Assign

In order to facilitate the user to control the IP address of the slave in the local area network (LAN), the salve provides the built-in static address allocation function. Static address allocation table can reserve a static IP address for the specific MAC address slave. After the slave requesting DHCP server to send IP address, DHCP server will assign this reserved IP addresses to it.



Static assign

ID	MAC address	IP address	Enable	operate
1	<input type="text" value="00:03:05:11:12:17"/>	<input type="text" value="192.168.1.166"/> ×	<input checked="" type="checkbox"/>	<input type="button" value="add"/>

2.5 Forward

2.5.1 Virtual Server

Fill in the mapping port of the external network, the real port of the internal network, the internal network IP address, choose the protocol type, click **Enable** and **Add**, finally **Save** the settings. And could delete the items directly when don't need it.

The user could choose **Common Server Port** number to generate the corresponding service, and also could add the corresponding service.



Virtual Server

virtual server defines the reflection relationship of WAN service interface and LAN server. All visits of the WAN service port will be pointed to the specified server.

Common Service Port:

ID	External port	Internal port	Internal IP	protocol	Enable	operate
1	<input type="text" value="21"/>	<input type="text" value="21"/>	<input type="text" value="192.168.1.5"/> ×	<input type="text" value="TCP"/>	<input checked="" type="checkbox"/>	<input type="button" value="add"/>

2.5.2 DMZ Host

Click **Enable**, input DMZ Host IP address (Usually is the internal IP

address), and Save finally.



2.5.3 ALG

Some early designed protocols at the application layer, such as FTP and TFTP, often cannot work normally after through the NAT devices. In this case, you can Enable ALG of the corresponding protocol to overcome these problems on this page.



2.6 Security

2.6.1 MAC Filter

Enable **MAC Filter**, fill in MAC address, description (could not fill in), and click Add. And could delete the items directly when don't

need it.

Enable **Set the MAC address filtering to control whether a computer can access the router.** Finally **Save** the settings.



MAC Filter

Set the MAC address filtering to control whether a computer can access the router Enable

ID	MAC address	description	Enable	operate
1	<input type="text"/>	<input type="text"/>	<input checked="" type="checkbox"/>	<input type="button" value="add"/>

Only allow MAC address in the MAC address list access the router
 Only forbidden MAC address in the MAC address list access the router, but other MAC address can access it

2.6.2 IP Filter

The settings method is the same as 3.7.1



IP Filter

Set the IP address filtering to control whether a computer can access the internet Enable

ID	IP Address	Enable	operate
1	<input type="text"/>	<input checked="" type="checkbox"/>	<input type="button" value="add"/>

Only allow IP address in the IP address list access the internet
 Only forbidden IP address in the IP address list access the internet, but other IP address can access it

2.6.3 URL Filter

The settings method is the same as 3.7.1

- Status
 - Network
 - WLAN
 - DHCP Server
 - Forwarding
 - Security
 - MAC Filter
 - IP filter
 - **URL filter**
 - Route
 - Tools
 - Logout
- ©2013 Cab Link

URL Filter

URL is short of the universal resource locator, it is also called the webpage. URL is composed of three parts: the protocol type, host name, the path and the file name, we can set the corresponding webpage according to the format.

ID	Domain	Enable	operate
1	http://www: <input style="width: 150px;" type="text"/>	<input checked="" type="checkbox"/>	<input type="button" value="add"/>

2.7 Router Function

2.7.1 Static

Add Destination IP, Subnet Mask and gateway. Click Add and Save. The settings can be deleted directly by the final part when the user doesn't need it.

- Status
 - Network
 - WLAN
 - DHCP Server
 - Forwarding
 - Security
 - Route
 - **Static Route**
 - Tools
 - Logout
- ©2013 Cab Link

Static Route

Static routing is the manual configuration of the routing information which is defined by the network administrator or the user. Make sure that the router has the interface which can arrive the destination network when the static routing is set id, otherwise, routing entries added are discarded in local this is because it can not reach the destination network.

ID	Destination IP	Subnet Mask	Gateway	Enable	operate
1	<input style="width: 100px;" type="text" value="192.168.5.11"/>	<input style="width: 100px;" type="text" value="255.255.255.0"/>	<input style="width: 100px;" type="text" value="192.168.5.1"/>	<input checked="" type="checkbox"/>	<input type="button" value="add"/>

2.8 Tool

2.8.1 Time Settings

The screenshot shows a web-based configuration interface. On the left is a vertical sidebar menu with the following items: Status, Network, WLAN, DHCP Server, Forwarding, Security, Route, Tools, Time (highlighted with a red box), Upgrade, Reset, Config File, Password, System Log, Reboot, and Language. The main content area is titled "Time Setting". It contains the following text: "First please select your time zone, then enter the server address, and finally click 'Save' to complete the system time set." Below this text are four fields: "Automatically synchronize:" with a checked checkbox labeled "Enable"; "Time Zone:" with a dropdown menu showing "(GMT+00:00)Beijing, Hong Kong, Macao, Taipei"; "Time Server1:" with a text input field containing "210.72.145.44"; and "Time Server2:" with a text input field containing "202.120.2.101". At the bottom of the form are two buttons: "Save" and "Restore".

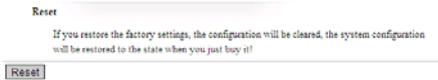
2.8.2 Software Upgrade

Click browse to select the corresponding software, click upload to upgrade.

The screenshot shows a web-based configuration interface. On the left is a vertical sidebar menu with the following items: Status, Network, WLAN, DHCP Server, Forwarding, Security, Route, Tools, Time, Upgrade (highlighted with a red box), Reset, Config File, Password, System Log, Reboot, and Language. The main content area is titled "Software Upgrade". It contains the following text: "Software Select:" followed by a text input field and a "浏览..." (Browse...) button. Below this is an "Upload" button.

2.8.3 Reset

Click Reset, it will be restored to the state when you just buy it.



2.8.4 Configuration File

Choose the file with xml format to upgrade. The equipment would run the new configuration after upgrading. Please find the attached file in the configuration file about the new username, password and IP address of Eth ports.

Could download the configuration file to the local PC by **Configure Download**



2.8.5 Password

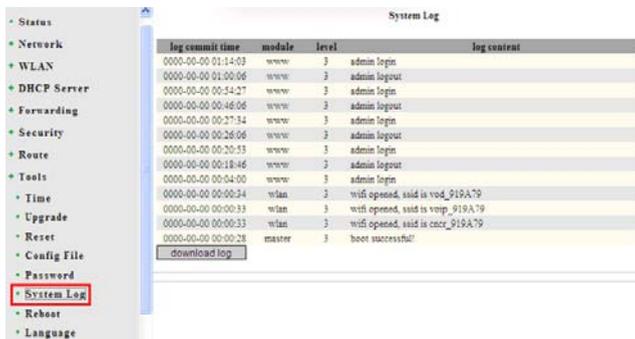
Input the username and the old password, and submit it. Then the

password is changed.



2.8.6 System Log

This function can record log information of the slave after starting the system. Maximum 650 log information can be recorded; Click Download Log to download the log to the local PC; Choose the "level", the system will only record the log which level is less than or equal to the level of system log; Click the "Page Down" and "Page Up" to view all recorded log information.



2.8.7 Reboot

Click Reboot, the device will restart.

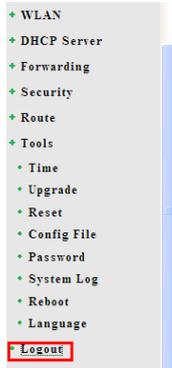


2.8.8 Language

The user could switch the language here.



2.9 Logout



Attachment

Clauses of Maintenance for Communication Series Products.

If you buy the communication series products manufactured by our company, we'll provide free maintenance and replacement service of 1 year.

If inconsistent with the specific warranty terms, subject to contract:

1. If the product is applied correctly according to the operation manual, but happened failures under the normal application condition, in 2nd and 3rd year, we would only charge the cost of the components.
2. In the following cases, the maintenance cost will be charged(The cost fee of the components and labor)
 - a. Stricken by thunder high voltage, watering.
 - b. Damage caused by accidents.
 - c. Product exceeds the warranty period.
3. Manufacture statement

After receiving your goods, please check them and send back the receipt to our company. We will keep it in the archives as equipment warranty proof. Otherwise, our company will deem that the customers give up warranty service.