

## Оптическая транспортная платформа NewNets NS-DWDM-OP0xx

# Web Network Management User Manual



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#### Network Management System

#### Web Network Management System

In order to facilitate the user's maintenance and configuration of the EDFA card, the device provides a Web network management function. Users can log in to the web system through HTTP and use the web interface to manage and maintain the device. The running environment of the web system is as shown in the following figure:



Figure 4.1 Web Network management running environment

#### 1. Web Network Management Login Default Information

The HTTP service is enabled by default when the device leaves the factory, and the default web login information is set. Users can use the default login information to log in to the web interface of the device through the HTTP service.

The default web login information includes:

- User name: webadmin
- Password: admin
- The default IP address of the device: 192.168.1.100

#### 2. Web Network Management Login Conditions

- Before logging in to the web system, the route between the network management PC and the device is reachable.
- The operating systems supported by the web system include: Windows Server 2008, Windows 7, Windows 8, Windows 10, and Windows Server 2012.
- Browser supported by the web network management system: Google Chrome 61.0.3163.100 and above, using other browsers may cause the page to display abnormally. This manual uses Google Chromc163.100 as an example.
- After the software version of the device is changed, users are advised to clear the cached data of the browser before logging in to the device through the web system. Otherwise, the content of the web system may not be displayed correctly.
- Please click Customize and Control Google Chrome in Google Chrome, select "More Tools > Clear Browsing Data", check "Cache and Pictures and Files" and "Cookies", click "Clear

Browsing Data", clear your browser. The above option location is illustrated by Google Chrome 61.0.3163.100.



#### 3. Web Network Management Login Step

The steps for logging in to the device using Web are as follows::

(1) Connect the device and PC

Connect the PC to the Ethernet port (ETH1 or ETH2) on the device with a straight-through or crossover Ethernet cable.

(2) Configure an IP address for the PC to ensure communication with the device.

Modify any address in the network segment with IP address 192.168.1.0/24 (except

192.168.1.100). It cannot be duplicated with the default network management IP address, for example, 192.168.1.2

(3) Start Google Chrome and enter the login information.

Start Google Chrome on your PC, enter "http://192.168.1.100" in the address bar and press Enter. You can enter the web login page of the device and enter the username "webadmin" and password "admin". Click the <Login> button to log in. As shown below:

our conne	ction to this site is not private
Isername	webadmin
Password	****

Figure 4.1.3 Web network management system login interface



#### 4. Web Network Management Page Layout

The web network management page is divided into two parts: the navigation bar and the configuration area, as shown in the following figure.

	Dovico Idoptifior -						Langua	ge Selection English •
e	Device Mentilier .					Current User: admin	User Level: admin	Shut down
WEB NMS SYSTEM	Current location : Runnir	ng status > Equipment Gen	eral view		Auto	o-refresh the remainir	ng time : 545 60 S	Refresh immediately
Running								1
Equipment General view	Equipment view							
Single Card List								
Alarm Management		0			Auto Force Mode	Local Primary	Secondary	
Current Alarm				onsole That that that the	Pri/Sec	RX TX TX1 TX1 Local Primary	TX2 RX2 Secondary	(2)
History Alarm		ê. º			C Auto Force Sector RX1 Mode		•••	
Alarm Policy Settings		• 8V 48W 097 4	ON		Pri/Sec	RX TX TX1 TX1	TX2 RX2	
Network Management								
IP Address Configuration		Equipment i	nfo					
SNMP Configuration				Power 1 attribute	DC off output 0(V)			
Safety Management	Equipment model	OTNS8600		Power 2 attribute	DC open output 13.581(V)			
Equipment Maintenance	Serial number		_	Firmware version	2.0.3	_		
Equipment Maintenance	Hardware version	v1.0	_	System time	2017Year10Mon19Day			
Equipment Maintenance	Equipment id			Duncing time	14:53:25			
System Information	Contact person		modify	Software version	4.1.3			
Remote Upgrade	Contact person		moony	Sortware version	4.1.5			
Running Log	System performance							

Figure 4.1.4 Web network management initial page

(1)Navigation bar	(2)Configuration area
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- Navigation bar: Organize the web network management function menu of the device in the form of a
  navigation tree. The user can conveniently select the function menu in the navigation bar, and the
  selection result is displayed in the configuration area.
- Configuration area: the area where users configure and view.



#### 5. Equipment General View

On the web platform page, click the <Equipment General view> button in the left navigation bar. The configuration area on the right side of the page displays the device view and basic device information, as shown in the following figure:

e	Language Selection English Device Identifier : Current User: admin User Level: admin Shut down
WEB NMS SYSTEM	Current location : Running status > Equipment General view Auto-refresh the remaining time : 54S 60 S Refresh immediately
Running Equipment General view Single Card List Alarm Management Current Alarm History Alarm	Equipment view (1)
Alarm Policy Settings	
IP Address Configuration	Equipment info
SNMP Configuration	Click on the name of the slot to the slot
Safety Management	Equipment model         OTNS8600         Power 2 attribute         DC open output 13.581(V)           Serial number         device view, and the rincard details.3page         (2)
Equipment Maintenance	Hardware version v1.0 System time 2017Year10Mon19Day
System Information	Equipment location     Image: Contact version     Image: Contact version     Image: Contact version     AL3.3
Remote Upgrade	
Running Log	System performance

#### **Note:**

- (1) Device view: The device view is the same as the physical display. Users can view the card configuration of the current device and the current working status indicator of the device.
- (2) Device information: displays the current device model, software/hardware version number, power supply properties, and running time. Users can enter remark information in the device ID, device location, and contact popup boxes to distinguish each node device.



#### 6. View the Information EDFA Card

(1) Click the name of the EDFA card in the device view. The detailed information display page of the card is displayed, as shown in the following figure:

N DUT Console		EDFA IN OUT		
Information	DFA info			c
Unit name			User defined data	
Unit location			Uplink device	
User contact			Service opened	
Unit model			Unit S/N	
Hardware version	v1.1		Firmware version	2.0.21
Creation date	2019-2-18		Last modified date	0Hour/3Min/30Sec
	Refresh			Set

INote: This page is the basic information page of the EDFA card. It mainly displays the EDFA card model, serial number,

hardware version, firmware version, and creation date. You can also enter various remarks in the blank padding area.

(2) Click <EDFA info> on the card details display page to view the current working status of EDFA, as shown in the following figure:

OFA IN OUT ALM Console	EC			
Information EDFA inf	b.			Cle
Pump state	On 🔻	Set	Pumping temperature(°C)	26.6
Work mode	AGC V	Set	Pump cooling current(mA)	182
Module input optical power(dBm)	-10.8		RX power low alarm(dBm)	-34
Module output optical power(dBm)	6.3		RX power low warning(dBm)	-30
Module temperature(°C)	29.3		RX power saturated warning(dBm)	3
Gain(dB)	17.0 (14-20)	Set	TX power low alarm(dBm)	-35
Pump operating current(mA)	98			
Pump output power(mW)	53			
	Refresh		Se	etThreshold

Note: This page is the EDFA working status information page. It mainly displays the input optical power, output optical power, temperature and other info of the EDFA card.

#### 7. Alarm Management

1) On the web network management page, click the <Current Alarm> button in the left navigation bar. The current configuration area of the device will display the current alarm information of the device, as shown in the following figure.:



#### ООО «ГК «Сети» Поставщик DWDM SFP оборудования, проектирование сетей, оптимизация и поддержка ИТ-инфраструктуры. https://dwdm-sfp.ru/

e	Device Ident	ifier :					Current User:	webadmin User I	evel: a	dmin				
WEB NMS SYSTEM	Current Locati	Current Location : Alarm management > Current alarm												
Running				Cu	rrent alarm info									
Equipment General view	location	Alarm Level	Alarm info 🔺 🗸	Alarm Reason	Occurrence time	Delete time	Confirm time	Alarm status	0	perate	Inquiry conditions: Start date:			
Single Card List	slot #3 Fiber	clean	Tx power return to		2019-08-12 14:02:37			Unclean&UnAck	Clean	Confirm	Expiration date:			
Alarm Management	Slot #3 Fiber	clean	Tx power return to		2019-08-12 14:02:37			Unclean&UnAck	Clean	Confirm	Select slot: All			
Current Alarm	Slot #4 Fiber	waring	Received optical signal		2014-01-25 08:28:34	2014-01-25		Cleaned & UnAck	-	Confirm	Inquiry			
History Alarm	Records:3 1 Page	s GO-> Page 1	lost(-20.0)			08:29:32					Reset			
Network Management											Operate:			
IP Address Configuration											Delete the alarms that			
SNMP Configuration											meet the conditions			
Safety Management											Delete all alarms			
Equipment Maintenance											Confirm alarms			
Equipment Maintenance											conditions			
System Information											Confirm all alarms			
Remote Upgrade														
Running Log														

- Note: This page can view the current alarm information generated by the current device, including the alarm location, alarm name, alarm status, alarm occurrence time, etc. Click the <Confirm> and <Clear> buttons in the operation column on the right side of each alarm to confirm and clear, the confirmed and cleared alarm information will be transferred to the historical alarm list; or click the rightmost <confirm all alarms> and <clear all alarms> to confirm and clear the current alarm information
- 2) On the web platform page, click the <History Alarm> button in the navigation tree on the left. The device in the configuration area on the right of the page displays the device history alarm information, as shown in the following figure.:

e	Device Identi	fier :					Current User: webadr	nin User Level: adı	min	
WEB NMS SYSTEM	Current locatio	on : Alarm manage	ement > History alarm							
Running				Hist	tory alarm info					
Equipment General view	Location 🔺 🗸	Alarm level	Alarm info 👒 👒	Alarm reason	Occurrence time	Delete time	Confirm time	Alarm status	Delete	Inquery condition: Start date:
Single Card List	Slot #4 Fiber	waring	Received optical signal		2014-01-25 08:02:01	2014-01-25	2014-01-25	cleaned & Ack	0	Expiration date:
Alarm Management	Records:1 1 Pages	GO-> Page 1	1050(*+0.0)			08:29:52	00:27:24			Expiration date.
Current Alarm		-								Select slot: All
12.1 11										inquiry
History Alarm										Reset
Network Management										Operate:
IP Address Configuration										Delete the alarms that
SNMP Configuration										meet the conditions
Safety Management										Delete all alarms
Equipment Maintenance										
Equipment Maintenance										
System Information										
Remote Upgrade										
Running Log										

Note: This page allows users to view the historical alarm information generated by the current device. Click the <Delete> button in the rightmost operation column of each alarm to delete the alarm. Users can also click the rightmost <Delete all alarms> to delete all historical alarm information.



#### 8. IP Address Configuration

On the NMS page, click the <IP Address Configuration> button in the left navigation bar. The configuration area on the right side of the page will display the device IP address setting page, as shown in the following figure.:

e	Device 1	dentifier :					Current User: webadmi	n User Level: admin
WEB NMS SYSTEM	Current I	ocation: Network Ma	nagement > IP address setting	1				
Running								
Equipment General view	IP addr	ess setting				_		
Single Card List	IP a	Idress	192.168.1.105					
Alarm Management	Sub	net mask	255.255.255.0					
Current Alarm	Gate	way	192.168.1.1					
History Alarm	MA	address	3a:1f:34:08:69:e1	Save C	onfiguration			
Network Management						]		
IP Address Configuration	Routing	list			_			
SNMP Configuration	Serial No	Routing type	Routing address		Operate	_		
Safety Management		Default routing			Click Delete	<u>'</u>		
Equipment Maintenance								
Equipment Maintenance								
System Information								
Remote Upgrade								
Running Log								

#### **Note:**

- IP address: Users can log in to the device through the IP address. The default IP address is 192.168.1.100
- Subnet mask: Subnet mask of the device IP address. By default, the mask is 24 bits
- Gateway: The device is connected to the default gateway in the network. By default, the gateway is 192.168.1.1
- Port: The port number of the web system that is accessed through HTTP. By default, the port number is 9091
- After the IP configuration information is input, click the "Save Configuration" button, and wait for the page feedback to pop up the "Setup Successful" prompt, the device network management will restart and start the completed network settings



#### 9. SNMP Configuration

 On the NMS page, click the <SNMP Configuration> button in the left navigation bar. The SNMP configuration page will be displayed in the configuration area on the right side of the page, as shown in the following figure:

e	Device Ide	entifier :						Current User: webadmin User Level: admin			
WEB NMS SYSTEM	Current location: Network Managment > SNMP Configuration										
Running											
Equipment General view	Global Co	Global Configuration									
Single Card List	SNMP	Read Com		public							
Alarm Management	SNMP	Write Com		private							
Current Alarm					Save	Configur	ration				
History Alarm	4										
Network Management	SNMP Tra	ap configuration				Ad	dTrap				
IP Address Configuration	Serial No.	Target host name	IP address	UDP communication port	Status	Modify	Delete				
SNMP Configuration	1	Host 238	192.168.1.121	9162	Enable	Edit	Delete				
Safety Management	L										
Equipment Maintenance											
Equipment Maintenance											
System Information											
Remote Upgrade											
Running Log											

2) The SNMP read/write community can be modified in the global configuration. The default read community: public, write community: private; SNMP alarm target host can be set in the SNMP Trap configuration, as shown in the following figure:

Global Co	onfiguration								
SNMF	Read Com		public						
SNMP Write Com private									
					Save	e Configur	ration		
S <mark>NM</mark> P Tr	ap configuration					Ad	dTrap		
Serial No.	Target host name	IP address	UDP communication	port	Status -	Modify	Delete		
1	Host 238	192.168.1. <mark>1</mark> 21	9162	0	Enable	Edit	Delete		
	01	192.168.1. <mark>1</mark> 11	9162		Enable <b>•</b>				

#### Note:

• The global configuration is not recommended to modify. The global configuration of the device NE must be consistent with the global configuration in the NMS



- Only when the alarm target host is added to the SNMP Trap configuration can the alarm information be pushed to the network management host in real time, and the alarm prompt is popped up in the NMS network management system on the host in real time
- Add multiple alarm target host: First click the <Add Trap> button in the SNMP Trap configuration interface, a new table will be added in the alarm target host list, enter the host name, IP address and UDP communication port, then click <Add Trap> button once, waiting for the page feedback to pop up the "Setup Successful" prompt

#### 10. Equipment Maintenance

 On the NMS page, click the <Equipment Maintenance> button in the left navigation bar. The user management settings page will be displayed in the configuration area on the right side of the page, as shown in the following figure.:

e	Device Identifier : Current User: webadmin User Level: admin
WEB NMS SYSTEM	Current Location : Safety Management > User Management
Running	
Equipment General view	User list
Single Card List	Serial No. User name User level Creation time Contact Modify password Delete
Alarm Management	2     guest     Normal user     2017 2-10     Edit     Delete
Current Alarm	New-added user
History Alarm	
Network Management	
IP Address Configuration	
SNMP Configuration	
Safety Management	
Equipment Maintenance	
Equipment Maintenance	
System Information	
Remote Upgrade	
Running Log	



2) Change password: Click the "click to modify" button after the corresponding user name to enter the password modification page. After the modification is completed, click OK, as shown in the figure below.:

e	Device Identifier :	Current User: webadmin User Level: admin					
WEB NMS SYSTEM	Current Location : Safety Management > User Management						
Running         Equipment General view         Single Card List         Alarm Management         Current Alarm         History Alarm         Network Management         IP Address Configuration         SNMP Configuration         Safety Management         Equipment Maintenance         Equipment Maintenance         System Information         Remote Upgrade         Bunning Log	User list Serial No. User name 1 webadmin Administrators 2 guest Normal user 2017 2-10 Edit Delete Creation time Contact Modify password Edit Delete New-added user						
	Account: webadmin Password: •••••• Confirm : •••••• User level: Administrator • Cancel confirm						



3) Delete User: Click the "Click Delete" button after the corresponding user name to delete the user, the web interface will pop up a page deletion success prompt, click the "Confirm" button to delete successfully; webadmin is the default administrator account for the device manufactured, and cannot be deleted.

e	Device Identifier : Current User: webadmin User Level: admin
WEB NMS SYSTEM	Current Location : Safety Management > User Management
Running	
Equipment General view	User list
Single Card List	Serial No. User name         User level         Creation time Contact Modify password Delete           1         webadmin Administrators         2017 2-10         Edit         Delete
Alarm Management	2 guest Normal user 2017 2-10 Edit Delete
Current Alarm	New-added user
History Alarm	
Network Management	
IP Address Configuration	
SNMP Configuration	
Safety Management	
Equipment Maintenance	
Equipment Maintenance	
System Information	
Remote Upgrade	
Running Log	



4) Add a new user: Click the "Add User" button to enter the new user page. Enter the information and click OK. The operation mode is as shown below:

e	Device Identifier :	Current User: webadmin User Level: admin
WEB NMS SYSTEM	Current Location : Safety Management > User Management	
Running		
Equipment General view	User list	
Single Card List	Serial No. User name User level Creation time Contact Modify password Delete	
Alarm Management	2 guest Normal user 2017 2-10 Edit Delete	
Current Alarm	New-added user	
History Alarm		
Network Management		
IP Address Configuration		
SNMP Configuration		
Safety Management		
Equipment Maintenance		
Equipment Maintenance		
System Information		
Remote Upgrade		
Running Log		
	Account: webadmin	
	Password: •••••	
	Confirm : •••••	
	User level: Administrator Administrator Common user Cancel	onfirm

#### 11. Network Management System Restart

- 1) Click the <Remote Upgrade> button in the left navigation bar on the NMS page, and the system configuration page will be displayed in the configuration area on the right side of the page.
- 2) Click <Restart> in the system configuration page to switch to the network management system restart interface.
- 3) Click <Restart> in the network management system restart interface. The web interface will pop up the network management system restart confirmation or cancel the prompt box. After clicking the "confirm" button, the network management system will restart.



e	Device Id	lentifier :			Current User: webadmin User Level: admin
WEB NMS SYSTEM	REBOOT	SYSTEM CONFIGURATION	RESTORE FACTORY SETTINGS	NCP UPGRADE	SINGLE CARD UPGRADE
Running		(2)		reboot	ot (3)
Equipment General view		(-)			
Single Card List		N			
Alarm Management					
Current Alarm	-				
History Alarm					
Network Management					
IP Address Configuration					
SNMP Configuration					
Safety Management					
Equipment Maintenance					
Equipment Maintenance					
System Information					
Remote Upgrade	(1)				
Running Log					

#### 12. Network Management System Upgrade

 Click the <Remote Upgrade> button in the left navigation bar on the NMS page. The system configuration page will be displayed in the configuration area on the right side of the page, as shown in the following figure:



2) Click the <NCP Upgrade> button on the system configuration page to switch to the network management system upgrade interface, as shown in the following figure:



e	Device Identifier :		Language Selection English • Current User: webadmin User Level: admin
WEB NMS SYSTEM	SYSTEM CONFIGURATION RESTORE FACTORY SETTINGS REBOOT	NCP UPGRADE	UNIT CARD UPGRADE REGULAR REFRESH
			Upgrade NCP firmware
Running		Select upgrade file:	Choose File No file chosen Upgrade
Equipment General view			
Single Card List			
Alarm Management			
Current Alarm			
History Alarm			
Alarm Policy Settings			
Network Management			
IP Address Configuration			
SNMP Configuration			
Safety Management			
Equipment Maintenance			
Equipment Maintenance			
System Information			

3) Click <Select Upgrade File> in the network management system upgrade interface, select the updated network management system upgrade file in the file manager that pops up, and click the <Upgrade> button on the right, as shown in the figure below:

e	Language Selection English - Device Identifier : Current User: webadmin User Level: admin
WEB NMS SYSTEM	SYSTEM CONFIGURATION RESTORE FACTORY SETTINGS REBOOT NCPUPGRADE UNIT CARD UPGRADE REGULAR REFRESH
	Cypeak VXF methods (model) (10,000 model) (10,000 m
Running	
Equipment General view	
Single Card List	
Alarm Management	
Current Alarm	
History Alarm	
Alarm Policy Settings	
Network Management	
IP Address Configuration	
SNMP Configuration	
Safety Management	
Equipment Maintenance	
Equipment Maintenance	
System Information	

The web interface will pop up the network management system upgrade confirmation or cancel prompt box. After clicking the "confirm" button, the network management system will start to upgrade, as shown in the figure below:



→ C ③ 192.168.1.118						6
Apps For quick access, place your bookmark	s here on the bookmarks bar. Import bo	okmarks now		192.168.1.118 says		
e	Device Identifier :			Tips: 1:Make sure your network is running and stop operating while upgrading! 2:ht takes about 10-30 minutes for upgrading, due to the network		Language Selection English • Current User: webadmin User Level: admin
WEB NMS SYSTEM	SYSTEM CONFIGURATION	RESTORE FACTORY SETT	NGS	situation! Tips will come after success-upgrading I Do you really want to upgrade the UMU firmware?	R REFRE S	su
Running				OK Cancel	ar.gz	Upgrade
Equipment General view						
Single Card List						
Alarm Management						
Current Alarm						
History Alarm						
Alarm Policy Settings						
Network Management						
IP Address Configuration						
SNMP Configuration						
Safety Management						
Equipment Maintenance						
Equipment Maintenance						
System Information						

4) The network management system has a long upgrade time. During the upgrade process, do not perform other operations or refresh the page. Wait for the upgrade process to complete automatically and finally prompt "System is restarting..." and the upgrade is successful. At this time, the network management system is restarting. After a minute, users can refresh the network management interface and revisit it, as shown in the following figure:

e	Device Identifier :	Language Selection English •
		Current User: webadmin User Level: admin
WEB NMS SYSTEM	File name = nmu-en-4.2.10-2018-10-29.tar.gz Size = 3607919 bytes File Size Written = 3607919 bytes	
Running	rite nmu-en-4.2.10-2018-10-29.tar.gz upload successfully! return reboot	
Equipment General view		
Single Card List	C:\Windo	
Alarm Management	Reply fro Reply fro Reply fro	n 192.158.1.119: bytes=32 time:Ins TIL=54 n 192.158.1.118: bytes=32 time(Ins TIL=54 n 192.158.1.118: bytes=32 time(Ins TIL=54
Current Alarm	Reply fro Reply fro Reply fro	n 192.168.1.119: bytes=32 time-inn TIL-64 n 192.168.1.119: bytes=32 time-inn TIL-64 n 192.168.1.119: bytes=32 time-inn TIL-64
History Alarm	Request t Request t Request t	ined out. Ined out.
Alarm Policy Settings	Reply fro Reply fro Reply fro Reply fro	h 192.188.1.138: byte=32 time/PSAms   11+04 h 192.168.1.158: byte=32 time(lam TIL-64 h 192.168.1.138: byte=32 time(lam TIL-64 h 192.168.1.158: byte=32 time(lam TIL-64
Network Management	Reply fro Reply fro Reply fro Peply fro	A 192.168.1.138. byte=32 time(las TL)=64 an 192.168.1.118: byte=32 time(las TL)=64 an 192.168.1.118: byte=32 time(las TL)=64 an 193.168.1.118: byte=32 time(las TL)=64
IP Address Configuration	Roply fro Reply fro Reply fro	n 192.166.1.118: hytes=32 time(lns TTL-64 n 192.168.1.118: hytes=32 time(lns TTL-64 n 192.168.1.118: hytes=32 time(lns TTL-64 n 192.168.1.118: hytes=32 time(lns TTL-64
SNMP Configuration	Reply fro Reply fro Reply fro	n 172:188:1138: byte=32 time(1m: 110=64 n 192:188:118: byte=32 time(1m: TTL=64 n 192:188:1138: byte=32 time(1m: TTL=64
Safety Management		
Equipment Maintenance		
Equipment Maintenance		
System Information		

#### 13. Unit Card Upgrade

 On the Web management page, click the <Remote Upgrade> button in the left navigation bar. The configuration area on the right side of the page will display the unit upgrade interface, as shown in the following figure.:



e	Device Identifier : Current User: webadmin User Level: admin
WEB NMS SYSTEM	REBOOT SYSTEM CONFIGURATION RESTORE FACTORY SETTINGS NCP UPGRADE UNIT CARD UPGRADE
Running	Upgrade the unit card firmware Select all Select none Invert Selection
Equipment General view	Please select the unit card which need to upgrade:
Single Card List	Unit card #3
Alarm Management	□ Fan
Current Alarm	Select the upgrading files:
History Alarm	
Network Management	
IP Address Configuration	
SNMP Configuration	
Safety Management	
Equipment Maintenance	
Equipment Maintenance	
System Information	
Remote Upgrade	
Running Log	

2) In the unit card upgrade interface, select the unit card to be upgraded, and then click the <Select Upgrade File> button, select the updated unit card upgrade file in the file manager that pops up, and click the <Upgrade> button on the right side, as shown in the following figure:

e	Device Ider	ntifier :			Current l	User: webadmin User Level: admin				
WEB NMS SYSTEM	REBOOT	SYSTEM CONFIGURATION	RESTORE FACTORY SETTINGS	NCP UPGRADE	UNIT CARD UPGRADE					
Running		100	Select all	Upgrade the unit ca Select none	ard firmware					
Equipment General view		Please select the unit card which need to upgrade: □ Unit card #2 □ Unit card #3 □ Unit card #4								
Single Card List										
Alarm Management										
Current Alarm		select the upgrading files:								
History Alarm										
Network Management										
IP Address Configuration										
SNMP Configuration										
Safety Management										
Equipment Maintenance										
Equipment Maintenance										
System Information										
Remote Upgrade										
Running Log										

3) The web interface will pop up the unit card upgrade confirmation or cancel the prompt box. After clicking the "confirm" button, the unit card will start to upgrade, as shown in the figure below:



<b>应用</b> 点击这里导入书签。	开始	119.188.163.238:9091 显示	
C Wab网管亚台	设备标识: 系统配置 依照出厂设置 重启 NCP并	提示 1.升级过程中请确保网络畅通并停止操作! 2.升级视网络临况需要1-5分钟,升级成功后会有提示 你真的要升级单元盘固件吗?	当前用户:webadmin 用户吸游:管理员 退出
WebME+F			
运行状态		确定 取消	
设备概范			
单板列表		□ <b>=</b> 7/ <b>=</b> <sup>#</sup> / □ 単元最 <sup>#</sup> 6	
告警管理		□ 风烟 透得升级文件: 选择文件 edfa v2.0.12.bin	
当前告警			
历史告警			
告警策略配置			
网络管理			
IP地址配置			
SNMP配置			
安全管理			
用户管理			
设备维护			
系统信息			1
远程升级			
运行日志			

4) The unit card upgrade time is fast. During the upgrade process, do not perform other operations or refresh the page. Wait for the upgrade process to complete automatically and finally prompt "the unit disk upgrade is completed", indicating that the upgrade is successful. At this time, the network management interface can be refreshed to visit. As shown below:

e	设备标识:			当前用户	: webadmin	用户级别:	管理员	
Web网管平台	文件名 = otdx 2.0.8.bin 大小 = 74624 字节							
运行状态	保存的文件大小 = 74624 字节 文件 otdx 2.0.8.bin 上传升级成功!							
设备概览	单元盘升级完毕 返回							
单板列表								
告警管理								
当前告警								
历史告警								
告警策略配置		\						
网络管理		$\backslash$						
IP地址配置								
SNMP配置								
安全管理								
用户管理								
设备维护								
系统信息								
远程升级								