

USER MANUAL Of **XBand**

Created By
DATA INFOCOM LIMITED

Inside Jaipur Glass Premises, Tonk Road, Jaipur - 302018

Phone: 2702311, 2702312 Fax: 2703712

Website: www.dil.in

INTRODUCTION

The world has etched a dramatic growth, vertically, horizontally, and technologically too. The technological arena has been bursting of wonders and wonderings. Internet has emerged as the vein stream of business life-cycle.

The inauguration of X-band echoes like a rumble in the technology sector. It provides a mechanism which allows users on a closed network to gain rights to use network services as defined in the profile created for the particular user. It authenticates and empowers the users with a unique user ID and administrator. It also formulates the bandwidth control. This module basically features on controlling the bandwidth requirements of the Network/Users. X-band also restricts the traffic on the basis of URLs, Source & Destination Port, etc.

FEATURES

Xband provides following exclusive features

- Authentication. Authorization and Accounting Gateway
- Bandwidth Control
- Network Security
- Network Connectivity
- Interface for Users
- Accounting
- Messaging and Brand Image
- Network Trouble Shooting and Monitoring Wizard
- Package Management
- User Data Backup and Restore facility
- Local Support/Entertainment Portal
- Migration tool for 24 online subscribers
- System Services Modules
- User Management
- Search Module
- Prioritization Module
- Extensive reporting (Graph and Tabular)
- Modular Integration and facility to hold plug-ins

HARDWARE REQUIREMENT

- Intel Pentium P-III Processor 700 MHZ or P-4 1.5 GHZ or higher
- Intel Server Range Motherboard with on board SCSI Adapter of ADAPTEC or SYMBIOS
- 1.5 GB RAM
- 18 GB SCSI Hard Disk
- 2 Intel Ether Express 100 Pro Network Cards

LOGIN TO THE X-BAND ADMIN AREA

Open the Admin Area in your Browser. Type the internal IP address of the X-Band server to access the Admin area http://IP_ADDRESS/admin/





The screenshot shows the login interface for the X-Band Admin Area. On the left is a background image of a computer keyboard with the word "enter" visible on a key. The main content area has the "XB@ND" logo at the top, with the tagline "THE NEXT GENERATION BANDWIDTH MANAGER" and the website "www.myxband.com". Below the logo are two radio buttons for user selection: "Administrator" (selected) and "Service Area Administrator". Underneath are input fields for "User Name" and "Password", followed by a "Login" button. At the bottom of the login section, the following information is displayed: "Service Area LAN_MI", "IP Address 10.11.13.99", "Mac Address 00:05:5D:EE:58:3D", and "Login Time April 28, 2004, 4:01 am". The footer of the page features the "Satcom Labs India Limited" logo.

1. Enter the username, password and select the user type then click the login button.


INTERMEDIATE SCREEN

Purpose: It shows the details of all the online subscribers

Subscriber Services Service Area Packages Schemes Reports Administrator Search Logout

admin, you have logged in from a machine having IP 10.11.13.68 and MAC 00:50:BF:48:77:49,



Online Subscribers : 36

User Name	Name	MAC	IP	Start Time	Time (sec.)	Upload Data Transfer	Download Data Transfer	Bandwidth (bits/sec.)	View
ksn	Khushal Singh Narooka	00:40:CA:4D:9C:A8	10.11.13.40	2004-03-10 12:03:58	16462	92 307	92 307	0.011177256712429	Details
ankur	ankur	00:A0:4B:05:2E:DD	10.11.13.26	2004-03-08 09:51:01	16462	92 307	92 307	0.011177256712429	Details
alok	Alok Shukla	00:50:BA:89:9A:77	10.11.13.77	2004-03-10 10:02:52	16462	92 307	92 307	0.011177256712429	Details
shefali	shefali	00:08:A1:46:04:A9	10.11.13.28	2004-03-08 13:48:00	16462	92 307	92 307	0.011177256712429	Details
singhal	deepak singhal	00:08:A1:46:04:6A	10.11.13.58	2004-03-05 09:22:47	16462	92 307	92 307	0.011177256712429	Details
dheeraj	dheeraj	00:50:BA:89:3B:18	10.11.13.78	2004-03-05 09:34:07	16462	92 307	92 307	0.011177256712429	Details
jatin	jatin	00:40:CA:4D:AD:4C	10.11.13.66	2004-03-05 09:10:51	16462	92 307	92 307	0.011177256712429	Details
achints	achint	4C:00:10:AC:30:70	10.11.13.64	2004-03-05 09:37:26	16462	92 307	92 307	0.011177256712429	Details
imran	imran	00:08:A1:45:CB:66	10.11.13.72	2004-03-05 10:02:03	16462	92 307	92 307	0.011177256712429	Details
pavan	pavan	00:40:C7:2D:F8:37	10.11.13.56	2004-03-05 09:43:00	16462	92 307	92 307	0.011177256712429	Details
sonal	sonal	00:50:BF:48:77:49	10.11.13.68	2004-03-10 12:03:58	16462	92 307	92 307	0.011177256712429	Details

Procedure:

1. After login, list of all the subscribers comes
2. To view the details of the any subscriber click on the details link. This will show the session details of particular user which includes login and logout time, IP and MAC address and received and transferred data unit

Subscriber Search View

Search Results

You have Searched For :ksn

Update

Delete

Subscriber is Currently Online

Bandwidth

Upload Bandwidth:128 kbps

Download Bandwidth:128 kbps

Upload Burst:128 kbps,

Download Burst:128 kbps

Authentication

password

username

Accounting

Package Type : Pre Paid

Payment Mode : chaque

Limit : 24 Days

Total : 0Hrs.Remaining : 0Hrs.

Session Details

S.No.	Login Time	Logout Time	IP	MAC	Rx	Tx

Services

✓ HTTP

✓ IMAP

✓ MSN1

✓ POP3

✓ SMTP

✓ SSH


✓ TELNET

Click on the subscriber's link to open the page.










SUBSCRIBERS

Create Subscriber



Purpose: To create new subscriber of particular service area



www.myxband.com
THE NEXT GENERATION BANDWIDTH MANAGER

[Subscriber](#) [Services](#) [Service Area](#) [Packages](#) [Schemes](#) [Reports](#) [Administrator](#) [Search](#) [Logout](#)

admin, you have logged in from a machine having IP 10.11.13.68 and MAC 00:50:BF:48:77:49

Subscriber
 [Create Subscriber](#)
 [Manage Subscriber](#)

Create Subscriber


Name	<input type="text"/>		
Age	<input type="text"/>	Gender	<input type="text" value="Male"/>
Address	<input type="text"/>		
City	<input type="text"/>	Pin code	<input type="text"/>
State	<input type="text"/>	Country	<input type="text"/>
Tel No.	<input type="text"/>	Mobile No.	<input type="text"/>
Email	<input type="text"/>	User Name	<input type="text"/>
Password	<input type="text"/>	Re-Password	<input type="text"/>
Secret Question	<input type="text"/>	Secret Answer	<input type="text"/>
Service Area	<input type="text" value="Vaishali Nagar"/>	Package	<input type="text" value="DIL STAFF"/>
IP Range	<input type="text"/>	MAC Range	<input type="text"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>			

Procedure:


1. Click on the create subscriber link to open the form.
2. Enter all the details in the given form, as all the fields are mandatory.
3. Click on the submit button to save the information.
4. Click on the reset button to clear the form, so that new entries can be entered.


MANAGE SUBSCRIBER


Purpose: To update or view the subscribers details.





www.myxband.com
THE NEXT GENERATION BANDWIDTH MANAGER


**Subscriber**


**Services**


**Service Area**


**Packages**

**Schemes**


**Reports**


**Administrator**

**Search**

**Logout**

admin, you have logged in from a machine having IP 10.11.13.68 and MAC 00:50:BF:48:77:49,

**Create Subscriber**

**Manage Subscriber**

Manage Subscriber

Name	<input type="text"/>		
Tel No.	<input type="text"/>	Mobile No.	<input type="text"/>
Email	<input type="text"/>	User Name	<input type="text"/>
Service Area	<input type="text" value="Vaishali Nagar"/>	Package	<input type="text" value="Standard"/>
IP Range	<input type="text"/>	MAC Range	<input type="text"/>

Procedure:

1. To view or update enter the details of the particular subscriber and click on the submit button. This will open up the page corresponding to details entered.

Subscriber Search Results					
Search Results					
You have Searched For :					
Total Results : 1					
S.No.	Name	IP Address	MAC Address	Email	Tel No.
1	sonal			sonal.singh@soft.dil.in	View

To view the session details click on the view link, this will give the session details, as below .

Subscriber Search View

Search Results

You have Searched For :achints

Subscriber is Currently **Online**

Bandwidth
Upload Bandwidth:64 kbps
Download Bandwidth:40 kbps
Upload Burst:1 kbps,
Download Burst:24 kbps

Authentication
password
username

Accounting
Package Type : Pre Paid
Payment Mode : cheque
Limit : 24 Days
Total : 0Hrs.Remaining : 0Hrs.

Session Details

S.No.	Login Time	Logout Time	IP	MAC	Rx	Tx

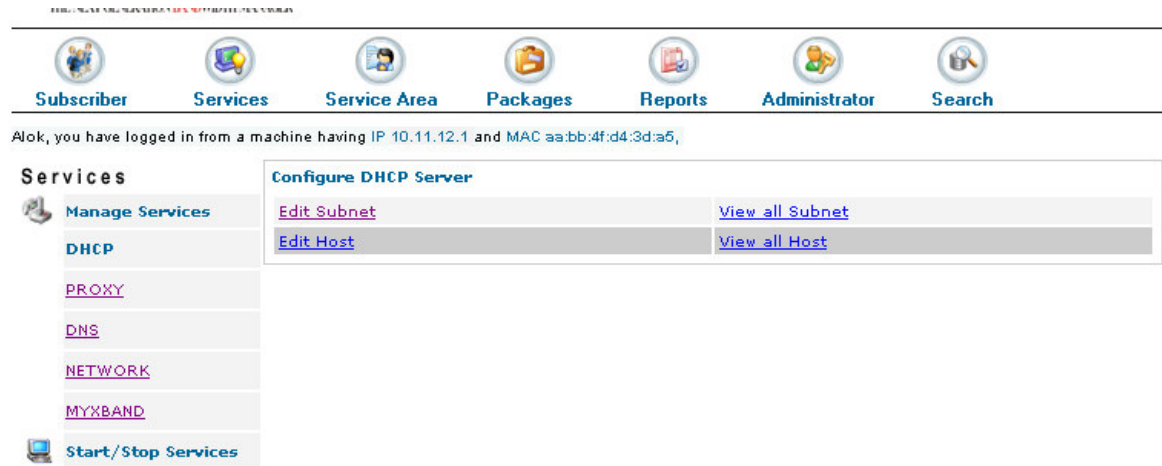
Services
☒ FTP
☒ HTTP
☒ IMAP
☒ MSN1
☒ POP3
☒ SMTP
☒ SSH
☒ TELNET

Administrator can update the details by clicking the update button, and can delete the whole details.

SERVICES

Manage services

Purpose: There are various services available to us ie. DHCP, Proxy, DNS server, MyXband, network server





Procedure:

To manage all services this link is provided. As soon as the user clicks the manage services link sublinks appear for each of the services.

1. DHCP: when this link is chosen following page appears, where more links are provided in order to edit subnet mask, edit host, view subnet mask, view host.
2. DNS
3. PROXY
4. MYXBAND
5. NETWORK

START/STOP OF SERVICES

Purpose: This is to start and stop of the services



[Subscriber](#) [Services](#) [Service Area](#) [Packages](#) [Schemes](#) [Reports](#) [Administrator](#) [Search](#) [Logout](#)

admin, you have logged in from a machine having IP 10.11.13.68 and MAC 00:50:BF:48:77:49,

Services

[Manage Services](#)
[Start/Stop Services](#)

Start/Stop Services

Manage Services			
DHCP Server	Start	Stop	
DNS Server	Start	Stop	
NETWORK Server	Start	Stop	
TICKET Server	Start	Stop	

Procedure:

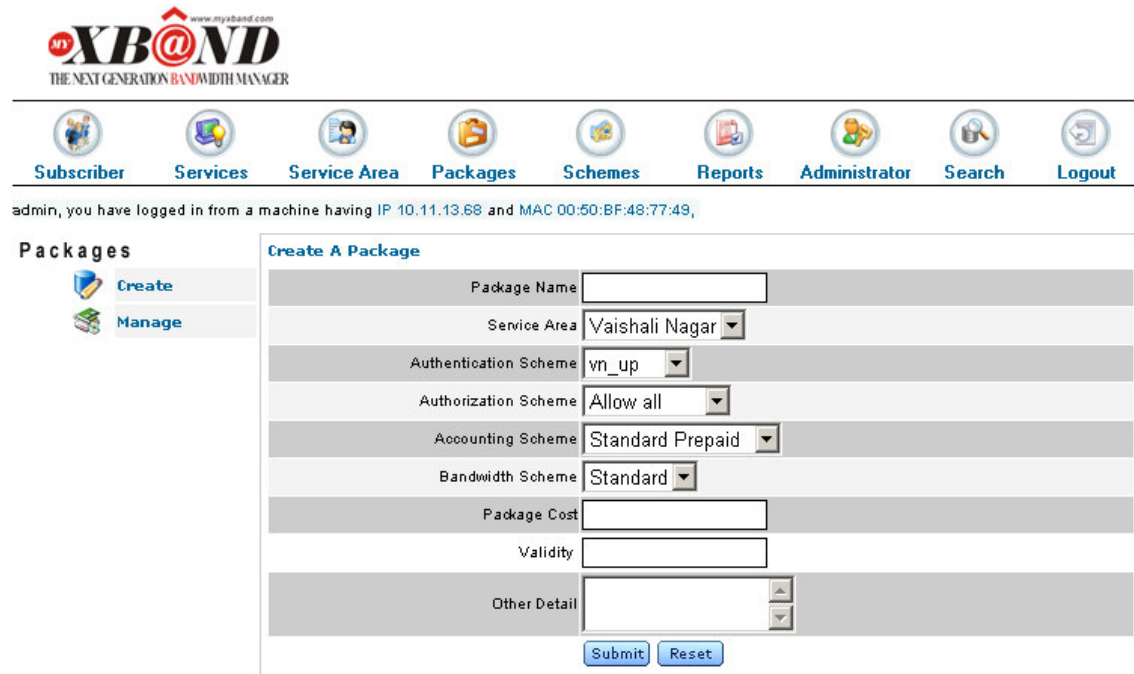
1. Click the start/stop services to open.
2. Click the respective button for each service.

Service Area

PACKAGE

Create Package

Purpose: To create new package, this includes authentication scheme, authorization scheme, accounting scheme, bandwidth scheme.



The screenshot displays the XB@ND web interface. At the top, there is a logo for 'XB@ND THE NEXT GENERATION BANDWIDTH MANAGER' with the website 'www.myxband.com'. Below the logo is a navigation bar with icons and labels for 'Subscriber', 'Services', 'Service Area', 'Packages', 'Schemes', 'Reports', 'Administrator', 'Search', and 'Logout'. A message below the navigation bar states: 'admin, you have logged in from a machine having IP 10.11.13.68 and MAC 00:50:BF:48:77:49,'. The main content area is titled 'Packages' and contains a sidebar with 'Create' and 'Manage' buttons. The 'Create A Package' form is visible, featuring the following fields: 'Package Name' (text input), 'Service Area' (dropdown menu with 'Vaishali Nagar' selected), 'Authentication Scheme' (dropdown menu with 'vn_up' selected), 'Authorization Scheme' (dropdown menu with 'Allow all' selected), 'Accounting Scheme' (dropdown menu with 'Standard Prepaid' selected), 'Bandwidth Scheme' (dropdown menu with 'Standard' selected), 'Package Cost' (text input), 'Validity' (text input), and 'Other Detail' (text input with a vertical scrollbar). At the bottom of the form are 'Submit' and 'Reset' buttons.

Procedure:

1. Click create to open the create package form
2. Fill all the details.

3. Submit the form to create and view the package.

Packages

Create

Manage

View Package

Package Name : abc

Service Area :

Vaishali Nagar

Package Cost : 1234

Validity : 12

Other Detail :

Authentication Scheme

User Name :

Password :

IP :

MAC :

Accounting Scheme

Accounting Scheme Name : VN_prepaid

Accounting Type : Pre Paid

Duration : 6000 Hrs.

Allow up to : 100 Days

Mode of Payment : cheque

No. of hours a Day : 11

Bandwidth Scheme

Upload Bandwidth

Dedicated

Bandwidth Value : 64 kb/s

Ceiling Bandwidth : 64kb/s

Download Bandwidth

Dedicated

Download Bandwidth : 40 kb/s

Ceiling Bandwidth : 40 kb/s

Services

Allow All

HTTP

SSH

TELNET

SCHEMES

Authentication Scheme

Purpose: To authenticate the user according to different criteria

admin, you have logged in from a machine having IP 10.11.13.68 and MAC 00:50:BF:48:77:49 ,

Schemes

- AuthenticationScheme
 - Manage
 - View
- Authorisation Scheme
 - Create
 - Manage
- Accounting Scheme
 - Create
 - Manage
- Bandwidth Scheme
 - Create
 - Manage

Masters

- Services Management
 - Manage

Manage Authentication Scheme

Service Area name: Vaishali Nagar

Please Provide name for each Authentication Scheme

vn_up	Username	✓	Password	✓	IP Address	✗	MAC Address	✗
vn_upi	Username	✓	Password	✓	IP Address	✓	MAC Address	✗
vn_upim	Username	✓	Password	✓	IP Address	✓	MAC Address	✓
vn_upm	Username	✓	Password	✓	IP Address	✗	MAC Address	✓

Add Reset

Procedure:

1. Click the manage link under the authentication scheme
2. Name is given to every scheme
3. Click add button to submit the details.
4. After that u can view authentication scheme page by submitting the form or by clicking the view link below the manage link.

Authentication Scheme View

Update Delete

Service Area name: Vaishali Nagar

vn_up	Username	✓	Password	✓	IP Address	✗	MAC Address	✗
vn_upi	Username	✓	Password	✓	IP Address	✓	MAC Address	✗
vn_upim	Username	✓	Password	✓	IP Address	✓	MAC Address	✓
vn_upm	Username	✓	Password	✓	IP Address	✗	MAC Address	✓

Click the update button to update the details. It returns back to the Manage Authentication Scheme page

AUTHORIZATION SCHEME

Create Authorization Scheme

Purpose: To create the authorization scheme for any service area, click on the create link of the authorization scheme. By doing this the user will get the page like the one shown below:

The screenshot displays the XBand web interface. At the top, the logo 'myXB@ND' is visible with the tagline 'THE NEXT GENERATION BANDWIDTH MANAGER'. The page title is 'Authorisation Scheme'. A navigation bar contains icons and labels for 'Subscriber', 'Services', 'Service Area', 'Packages', 'Schemes', 'Reports', 'Administrator', 'Search', and 'Logout'. A status message indicates the user is logged in from IP 10.11.13.68 and MAC 00:50:BF:48:77:49.

The main content area is titled 'Create Authorisation Scheme'. It features a sidebar on the left with a 'Schemes' section containing links for 'AuthenticationScheme' (Manage, View), 'Authorisation Scheme' (Create, Manage), 'Accounting Scheme' (Create, Manage), and 'Bandwidth Scheme' (Create, Manage). Below this is a 'Masters' section with 'Services Management' (Manage).

The 'Create Authorisation Scheme' form includes the following fields and options:

- Service Area name:** A dropdown menu currently showing 'Vaishali Nagar'.
- Authorisation Scheme Name:** A text input field.
- All:** A checkbox.
- Services:** A grid of checkboxes for selecting services:
 - HTTP ☐ FTP ☐
 - TELNET ☐ SSH ☐
 - POP3 ☐ IMAP ☐
 - SMTP ☐ MSN1 ☐
 - ☐
- Buttons:** 'Submit' and 'Reset' buttons at the bottom right.

Procedure:

1. The page shown above needs the details filled by the user, such as service area name and authorization scheme name.
2. Apart from a number of various services are provided in the authorization scheme such as HTTP, TELNET, POP3 and others as specified in the form above. The user has to select the services for any authorization scheme by clicking the check box.
3. In order to select all the services click the check box named as 'All'
4. Click the submit button to save the details.
5. View page appears after the details are submitted.

Authorisation Scheme View

Update Delete

Service Area name

Authorisation Scheme Name abc

Services allowed in this Scheme



	<input checked="" type="checkbox"/>	FTP	<input checked="" type="checkbox"/>
HTTP	<input checked="" type="checkbox"/>	IMAP	<input checked="" type="checkbox"/>
MSN1	<input checked="" type="checkbox"/>	POP3	<input checked="" type="checkbox"/>
SMTP	<input checked="" type="checkbox"/>	SSH	<input checked="" type="checkbox"/>
TELNET	<input checked="" type="checkbox"/>		

Services not allowed in this Scheme

Click the update button to update the details; this will again open up the Create Authorization Scheme page, with all the details filled initially.

MANAGE AUTHORIZATION SCHEME

Purpose: To manage the all the authorization scheme which are created for all the service areas.

Subscriber Services Service Area Packages Schemes Reports Administrator Search Logout

admin, you have logged in from a machine having IP 10.11.13.68 and MAC 00:50:BF:48:77:49

Schemes

- AuthenticationScheme
 - Manage
 - View
- Authorisation Scheme
 - Create
 - Manage
- Accounting Scheme
 - Create
 - Manage
- Bandwidth Scheme
 - Create
 - Manage

Authorisation Manage Scheme

Service Area Name

Authorisation Scheme Name	Allow All	View
VN_STANDERD	NO	View
VN_ALL	YES	View
ds	YES	View
asd	NO	View

Procedure:

This window shows the list of all the created authorization schemes.

By clicking the view link, the details of the related scheme is displayed on the view page

From there updation can be done by clicking update button

ACCOUNTING SCHEME

Create Accounting Scheme

Purpose: To create the particular accounting scheme for a service area that includes, type of payment, mode of payment, schedules, expiry time.

The screenshot displays the XB@ND web application interface. At the top, the logo 'XB@ND' is visible with the tagline 'THE NEXT GENERATION BANDWIDTH MANAGER'. Below the logo is a navigation bar with icons and labels for 'Subscriber', 'Services', 'Service Area', 'Packages', 'Schemes', 'Reports', 'Administrator', 'Search', and 'Logout'. A message below the navigation bar states: 'admin, you have logged in from a machine having IP 10.11.13.68 and MAC 00:50:BF:48:77:49,'.

The main content area is divided into two sections. On the left, under the heading 'Schemes', there are three categories: 'Authentication Scheme' (with 'Manage' and 'View' links), 'Authorisation Scheme' (with 'Create' and 'Manage' links), and 'Accounting Scheme' (with 'Create' and 'Manage' links). Below these, under the heading 'Masters', there is a 'Services Management' category with a 'Manage' link.

The right section is titled 'Create Accounting Scheme' and contains a form with the following fields and options:

- Service Area Name:** A dropdown menu with 'Vaishali Nagar' selected.
- Accounting Scheme Name:** A text input field.
- Payment Type:** Radio buttons for 'Prepaid' (selected) and 'Post Paid'.
- Schedule:** Radio buttons for 'Hour' (selected), 'Data', 'Unlimited Time', and 'Unlimited data'.
- Prepaid Limit:** A text input field.
- Exp. Time:** A text input field.
- Mode of Payment:** A dropdown menu with 'cheque' selected.
- No. of hours a Day:** A dropdown menu with '24' selected.
- Buttons:** 'Submit' and 'Reset' buttons at the bottom right of the form.

Procedure:

1. Click the create link of accounting scheme to open the form.
2. Select the service area name and enter the accounting scheme name
3. Select the type of payment prepaid or postpaid
4. Select the schedules from the given criteria.
5. Specify the details related to duration of prepaid limit in hours and expiry time in days
6. Choose the mode of payment.
7. Select the no. of hours subscribe to the particular service area.
8. Click the submit button to save the details, which will open the Accounting Scheme View page

Accounting Scheme View

[Update](#) [Delete](#)

Service Area Name :

Accounting Scheme Name : abc1

Accounting Type : Pre Paid

Duration : 13 Hrs.

Allow up to : 12 Days

Mode of Payment : cheque

No. of hours a Day : 24

Click the update button to update the details, it will open the create accounting page, with all the details filled initially.

MANAGE ACCOUNTING SCHEME

Purpose: To manage the all the accounting scheme which are created for all the service areas.

XB@ND THE NEXT GENERATION BANDWIDTH MANAGER

admin, you have logged in from a machine having IP 10.11.13.68 and MAC 00:50:BF:48:77:49

Schemes

- AuthenticationScheme
 - Manage
 - View
- Authorisation Scheme
 - Create
 - Manage
- Accounting Scheme
 - Create
 - Manage
- Bandwidth Scheme
 - Create
 - Manage

Masters

- Services Management
 - Manage

Accounting Scheme View

Service Area Name

Scheme Name	Account Type	Value	Billing Cycle	Exp time (Days)	Mode of payment	No of Hours	Schedule	Details
VN_prepaid	Prepaid	100 Hrs.	-	100	cheque	11	NO	View
VN_Postpaid	Postpaid	0	15, days	-	cash/chaque	16	NO	View
sdr	Prepaid	23 Hrs.	-	24	cheque	24	NO	View

Procedure:

This window shows the list of all the created accounting schemes. By clicking the view link, the details of the related scheme is displayed on the view page. From there updation can be done by clicking update button.

BANDWIDTH SCHEME

Create accounting scheme

Purpose: To create the bandwidth scheme for a service area

The screenshot shows the XB@ND web interface. At the top, there is a navigation bar with icons and labels for Subscriber, Services, Service Area, Packages, Schemes, Reports, Administrator, Search, and Logout. Below this, a message states: "admin, you have logged in from a machine having IP 10.11.13.68 and MAC 00:50:BF:48:77:49". The main content area is divided into two sections. On the left, under the heading "Schemes", there are links for Authentication Scheme (Manage, View), Authorisation Scheme (Create, Manage), Accounting Scheme (Create, Manage), and Bandwidth Scheme (Create, Manage). On the right, the "Create Accounting Scheme" form is displayed. It includes a dropdown menu for "Service Area" (currently set to "Vaishali Nagar"), a text input for "Bandwidth Scheme Name", and three radio buttons for bandwidth type: "Dedicated" (selected), "Dedicated with Burst", and "Shared". Below these are two sections for bandwidth values: "Upload Bandwidth" with a text input and "in kb/s" label, and "Download Bandwidth" with a text input and "in kb/s" label. At the bottom of the form are "Submit" and "Reset" buttons.

Procedure:

1. Click the create link of bandwidth scheme to open the form
2. select the service area and enter the bandwidth scheme name
3. Select the bandwidth type
 - a. Dedicated : keeping the isolated bandwidth for that service area
 - b. Dedicated with burst:
 - c. Shared: single bandwidth can be shared among various service areas.
4. Enter the upload and download bandwidth values specified to that area.
5. Click the submit button to save the details.
6. After submitting the details bandwidth scheme view page appears.

Bandwidth Scheme View

[Update](#) [Delete](#)

Service Area Name :

Bandwidth Scheme Name : qwe

Upload Bandwidth : Dedicated

Bandwidth Value : 23 kb/s

Download Bandwidth : Dedicated

Download Bandwidth : 34 kb/s

Click the update button to update the details, it will open the create bandwidth scheme page, with all the details filled initially.

MANAGE BANDWIDTH SCHEME

Purpose: To manage the all the Bandwidth scheme which are created for all the service areas.

Procedure:

XB@ND THE NEXT GENERATION BANDWIDTH MANAGER

admin, you have logged in from a machine having IP 10.11.13.68 and MAC 00:50:BF:48:77:49,

Schemes

- Authentication Scheme
 - Manage
 - View
- Authorisation Scheme
 - Create
 - Manage
- Accounting Scheme
 - Create
 - Manage
- Bandwidth Scheme
 - Create
 - Manage

Masters

- Services Management
 - Manage

Bandwidth Scheme View

Service Area Name

Scheme Name	Bandwidth Type	Upload Bandwidth	Upload Burst	Download Bandwidth	Download Burst	Details
VN_Standard	Dedicated with Burst	64	64	40	40	View
VN_Shared	Shared	64	0	64	0	View
qwe	Dedicated	23	0	34	0	View
qwe	Dedicated	23	0	24	0	View
qwe	Dedicated	23	0	24	0	View

This window shows the list of all the created bandwidth schemes.

By clicking the view link, the details of the related scheme is displayed on the view page. From there updation can be done by clicking update button.

REPORTS:

Purpose: Reports option or link is there so that whenever administrator can view the information regarding the online users, TCP traffic, UDP traffic. So Therefore when the administrator will click on the report link, three links will be seen.

1. Online users
2. TCP session
3. UDP session

ONLINE SUBSCRIBER:

Purpose: To view the list of all the users of a service area who are online at that time. The report will generate as follows.

admin, you have logged in from a machine having IP 10.11.13.26 and MAC 00:40:4B:05:2E:DD.

Reports

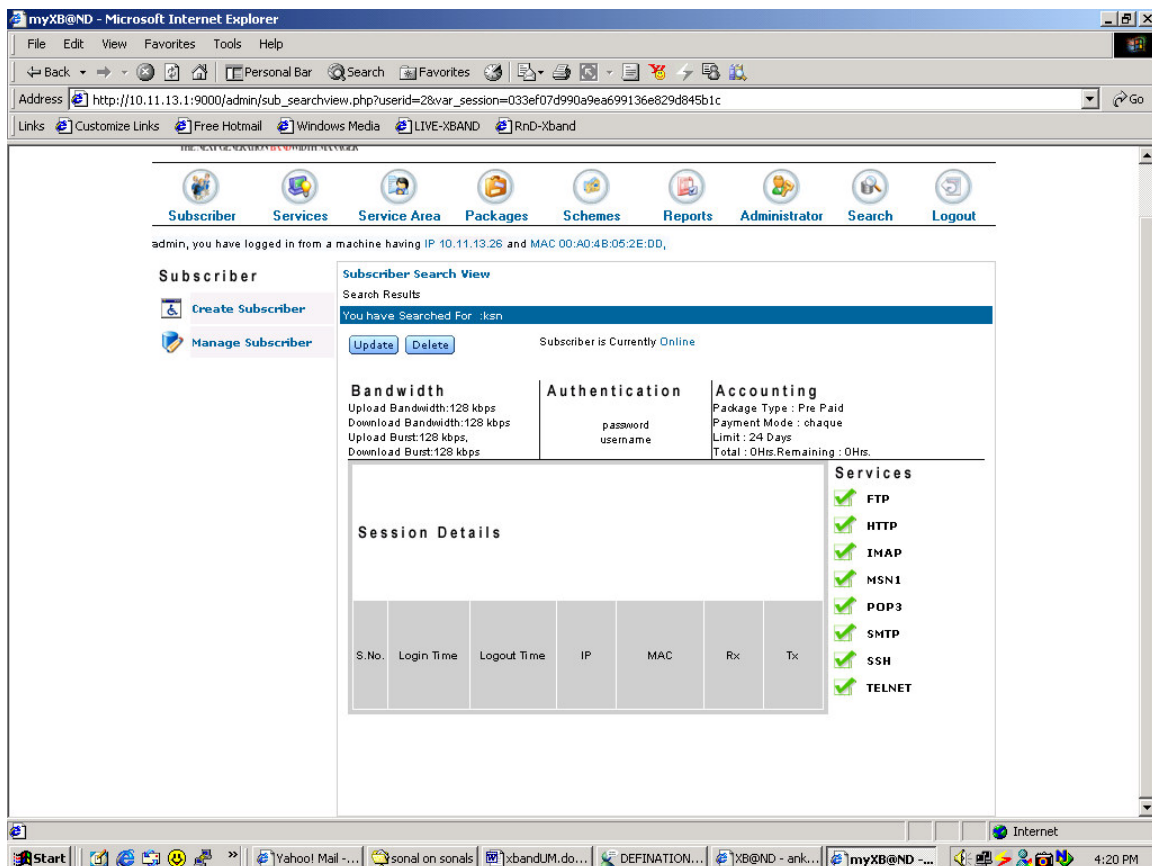
- Online Subscribers**
- TCP Session
- UDP Session

Online Subscribers : 37

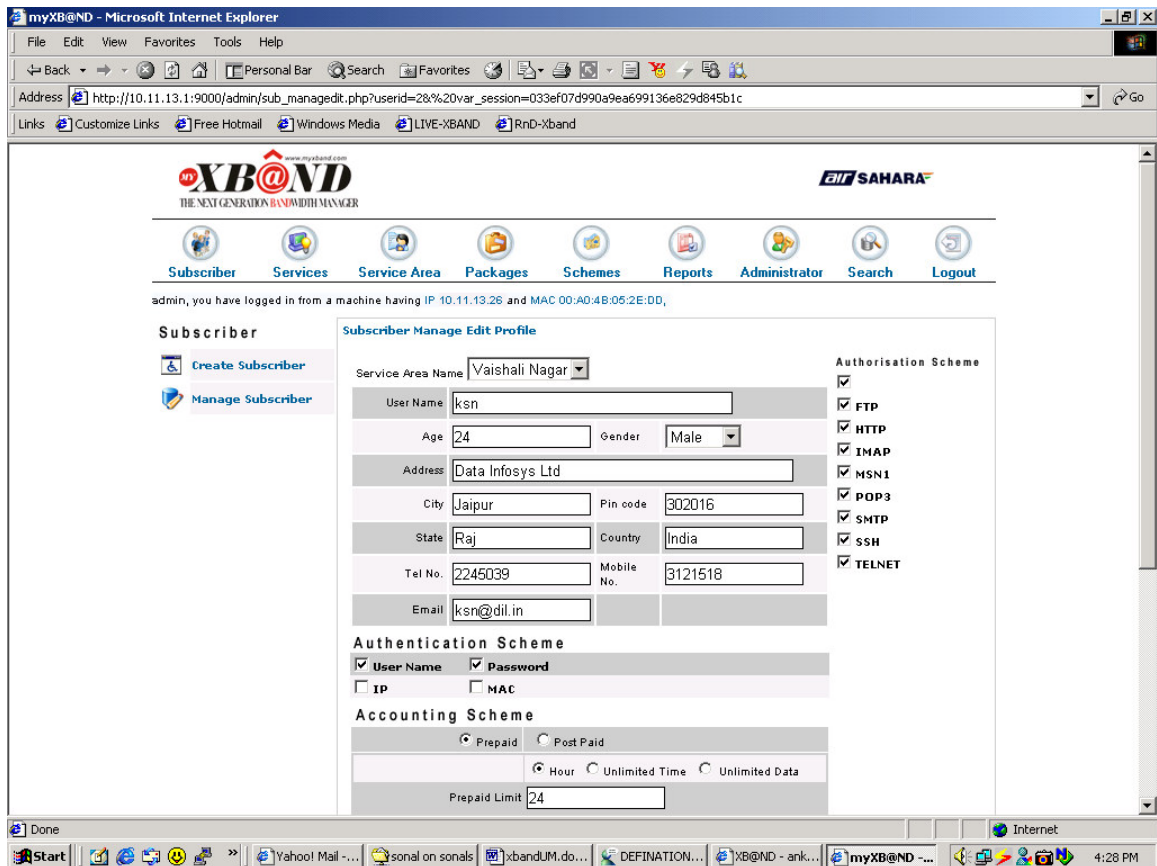
User Name	Name	MAC	IP	Start Time	Time (sec.)	Upload Data Transfer	Download Data Transfer	Bandwidth (bits/sec.)	View
ksn	Khushal Singh Narooka	00:40:CA:4D:9C:A8	10.11.13.40	2004-03-10 17:32:11	19688	92 307	92 307	0.0093457943925234	Details
ankur	ankur	00:A0:4B:05:2E:DD	10.11.13.26	2004-03-08 09:51:01	19688	92 307	92 307	0.0093457943925234	Details
alok	Alok Shukla	00:50:BA:89:9A:77	10.11.13.77	2004-03-10 10:02:52	19688	92 307	92 307	0.0093457943925234	Details
shefali	shefali	00:08:A1:46:04:A9	10.11.13.28	2004-03-08 13:48:00	19688	92 307	92 307	0.0093457943925234	Details
singhal	deepak singhal	00:08:A1:46:04:6A	10.11.13.58	2004-03-05 09:22:47	19688	92 307	92 307	0.0093457943925234	Details
dheeraj	dheeraj	00:50:BA:89:3B:18	10.11.13.78	2004-03-05 09:34:07	19688	92 307	92 307	0.0093457943925234	Details
jatin	jatin	00:40:CA:4D:AD:4C	10.11.13.66	2004-03-05 09:10:51	19688	92 307	92 307	0.0093457943925234	Details
achints	achint	4C:00:10:AC:30:70	10.11.13.64	2004-03-05 09:37:26	19688	92 307	92 307	0.0093457943925234	Details
imran	imran	00:08:A1:45:CB:66	10.11.13.72	2004-03-05 10:02:03	19688	92 307	92 307	0.0093457943925234	Details
amit	Amit	00:08:A1:50:E9:27	10.11.13.57	2004-03-11 11:24:47	19688	92 307	92 307	0.0093457943925234	Details
pavan	pavan	00:40:C7:2D:F8:37	10.11.13.56	2004-03-05 09:43:00	19688	92 307	92 307	0.0093457943925234	Details
sonal	sonal	00:50:BF:48:77:49	10.11.13.68	2004-03-10 12:02:13	19688	92 307	92 307	0.0093457943925234	Details
ravi	ravi	00:08:A1:46:0A:DC	10.11.13.71	2004-03-05 09:47:19	19688	92 307	92 307	0.0093457943925234	Details
adi	adi	00:00:E8:5C:AE:E0	10.11.13.76	2004-03-05	19688	92 307	92 307	0.0093457943925234	Details

Procedure:

The above page consists of list of all the users who are online for a particular service area. Further in this page one can see the details link for each user. In order to view the details of any of the users in the above link, one has to just click on the 'Details' link provided for each of the listed user. As the user click on Details of any of the user, following page is displayed.



Further the above page the details of the selected user can manipulated and updated. For this links are provided here for deleting and updating the user details. If the update link is checked then **Subscriber Manage Edit Profile** page will be retrieved, like the one shown below. From here we can update the user's complete profile.



TCP Session:

Purpose: To view the TCP session related information

Procedure:

Click on the TCP session link provided in reports link domain. We will get the page as shown i.e. **Current TCP Session**

Subscriber - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Personal Bar Search Favorites

Address http://10.11.13.1:9000/admin/reports_tcp.php?var_session=033ef07d990a9ea699136e829d845b1c Go

Links Customize Links Free Hotmail Windows Media LIVE-XBAND RnD-Xband

XB@ND
THE NEXT GENERATION BROADBAND MANAGER

air SAHARA

Subscriber Services Service Area Packages Schemes Reports Administrator Search Logout

admin, you have logged in from a machine having IP 10.11.13.26 and MAC 00:A0:4B:05:2E:DD,

Reports

Online Subscribers TCP Session UDP Session

Current TCP Session :

Status	Source IP	Destination IP	Source Port	Destination Port
ESTABLISHED	10.11.13.58	202.157.79.26	1966	1433
SYN_SENT	10.11.13.65	10.15.61.230	4521	135 [UNREPLIED]
ESTABLISHED	10.11.13.1	10.11.13.78	44224	1521
SYN_SENT	10.11.13.65	10.15.64.238	1340	135 [UNREPLIED]
SYN_SENT	10.11.13.65	10.15.65.29	1387	135 [UNREPLIED]
SYN_SENT	10.11.13.65	10.15.63.255	1099	135 [UNREPLIED]
SYN_SENT	10.11.13.65	10.15.63.178	4982	135 [UNREPLIED]
SYN_SENT	10.11.13.65	10.15.59.250	4027	135 [UNREPLIED]
SYN_SENT	10.11.13.65	10.15.62.191	4738	135 [UNREPLIED]
ESTABLISHED	10.11.13.76	216.155.193.174	2227	119
ESTABLISHED	10.11.13.1	10.11.13.78	44682	1521
ESTABLISHED	10.11.13.32	207.46.106.147	1154	1863
SYN_SENT	10.11.13.65	10.15.64.42	1144	135 [UNREPLIED]
SYN_SENT	10.11.13.65	10.15.62.159	4706	135 [UNREPLIED]
ESTABLISHED	10.11.13.29	207.46.106.128	1227	1863
SYN_SENT	10.11.13.65	10.15.60.146	4179	135 [UNREPLIED]
ESTABLISHED	10.11.13.4	66.220.17.154	1502	80
SYN_SENT	10.11.13.65	10.15.61.216	4507	135 [UNREPLIED]
TIME_WAIT	10.11.13.1	10.11.13.78	45088	1521
SYN_SENT	10.11.13.65	10.15.64.63	1165	135 [UNREPLIED]
ESTABLISHED	10.11.13.1	10.11.13.78	44225	1521
SYN_SENT	10.11.13.65	10.15.60.239	4272	135 [UNREPLIED]
SYN_SENT	10.11.13.65	10.15.63.200	1044	135 [UNREPLIED]
SYN_SENT	10.11.13.65	10.15.60.171	4204	135 [UNREPLIED]
SYN_SENT	10.11.13.65	10.15.60.164	4197	135 [UNREPLIED]
SYN_SENT	10.11.13.65	10.15.60.98	4131	135 [UNREPLIED]
SYN_SENT	10.11.13.65	10.15.60.152	4185	135 [UNREPLIED]
SYN_SENT	10.11.13.65	10.15.62.209	4756	135 [UNREPLIED]
SYN_SENT	10.11.13.65	10.15.63.124	4927	135 [UNREPLIED]
SYN_SENT	10.11.13.65	10.15.65.20	1378	135 [UNREPLIED]

Start | Yahoo! Mail | Sonal on sonals | xbandUM.do... | DEFINATION... | XB@ND - ank... | Subscriber ... | 4:30 PM

This page will show the connection status, source IP , destination IP, source port , destination port of the packets traveling through the TCP traffic.

UDP Session:

Purpose: To view the UDP session related information

Procedure:

Click on the UDP session link provided in reports link domain. We will get the page as shown i.e. **Current UDP Session:**

Subscriber - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Personal Bar Search Favorites

Address http://10.11.13.1:9000/admin/reports_udp.php?var_session=033ef07d990a9ea699136e829d845b1c Go

Links Customize Links Free Hotmail Windows Media LIVE-XBAND RnD-Xband

Reports		Current UDP Session :				
		Source IP	Destination IP	Source Port	Destination Port	Replied / Unreplied
Online Subscribers						
TCP Session						
UDP Session						
		10.11.13.33	202.157.78.3	2771	53	
		10.11.13.76	10.11.13.1	2106	53	
		10.11.13.65	10.11.13.1	2749	53	
		10.11.13.4	10.11.13.1	4282	53	
		10.11.13.4	10.11.13.1	4245	53	
		10.11.13.59	202.157.78.3	3185	53	
		202.157.72.231	202.157.78.3	33672	53	
		10.11.13.254	10.11.13.1	32791	53	
		10.11.13.76	10.11.13.255	137	137	[UNREPLIED]
		10.11.13.25	10.11.13.1	2349	53	
		10.11.13.254	10.11.13.1	32792	53	
		10.11.13.68	10.11.13.1	3092	53	
		10.11.13.4	10.11.13.1	4328	53	
		10.11.13.66	10.11.13.1	3297	53	
		202.157.72.231	202.157.79.3	33672	53	
		10.11.13.59	202.157.78.3	3193	53	
		10.11.13.4	202.157.78.3	4164	53	
		10.11.13.60	10.11.13.1	3761	53	
		10.11.13.4	202.157.78.3	4282	53	
		10.11.13.254	10.11.13.1	32793	53	
		10.11.13.63	10.11.13.1	3848	53	
		10.11.13.41	10.11.13.1	2618	53	
		10.11.13.4	202.157.78.3	4245	53	
		10.11.13.4	10.11.13.1	4164	53	
		10.11.13.44	10.11.13.1	1869	53	
		10.11.13.4	10.11.13.1	4343	53	
		10.11.13.59	10.11.13.1	3185	53	
		202.157.72.231	66.78.33.100	33672	53	
		10.11.13.25	10.11.13.255	137	137	[UNREPLIED]
		10.11.13.78	202.157.79.26	137	137	[UNREPLIED]
		10.11.13.4	10.11.13.1	4318	53	
		10.11.13.76	10.11.13.1	2104	53	
		10.11.13.68	10.11.13.1	3090	53	
		10.11.13.59	202.157.78.3	3190	53	
		10.11.13.59	202.157.78.3	3187	53	
		10.11.13.43	10.11.13.1	2810	53	
		10.11.13.59	202.157.78.3	3194	53	
		10.11.13.75	10.11.13.255	138	138	[UNREPLIED]
		202.157.72.231	69.50.189.83	33672	53	
		10.11.13.4	10.11.13.1	4207	53	

Done Internet



Start Yahoo! - Micr... sonal on sonals xbandUM.do... DEFINATION... XB@ND - ank... Subscriber ... 4:40 PM










This page will show the connection status, source IP , destination IP, source port , destination port of the packets traveling through the UDP traffic. Also This report will specify if the packets are replied or unreplied.

ADMINISTRATOR

Authentication

Purpose: To change the password of the administrator.





SubscriberServicesService AreaPackagesSchemesReportsAdministratorSearchLogout

admin, you have logged in from a machine having IP 10.11.13.68 and MAC 00:50:BF:48:77:49,

Authentication

Old Password	<input type="password"/>
New Password	<input type="password"/>
Re-type Password	<input type="password"/>

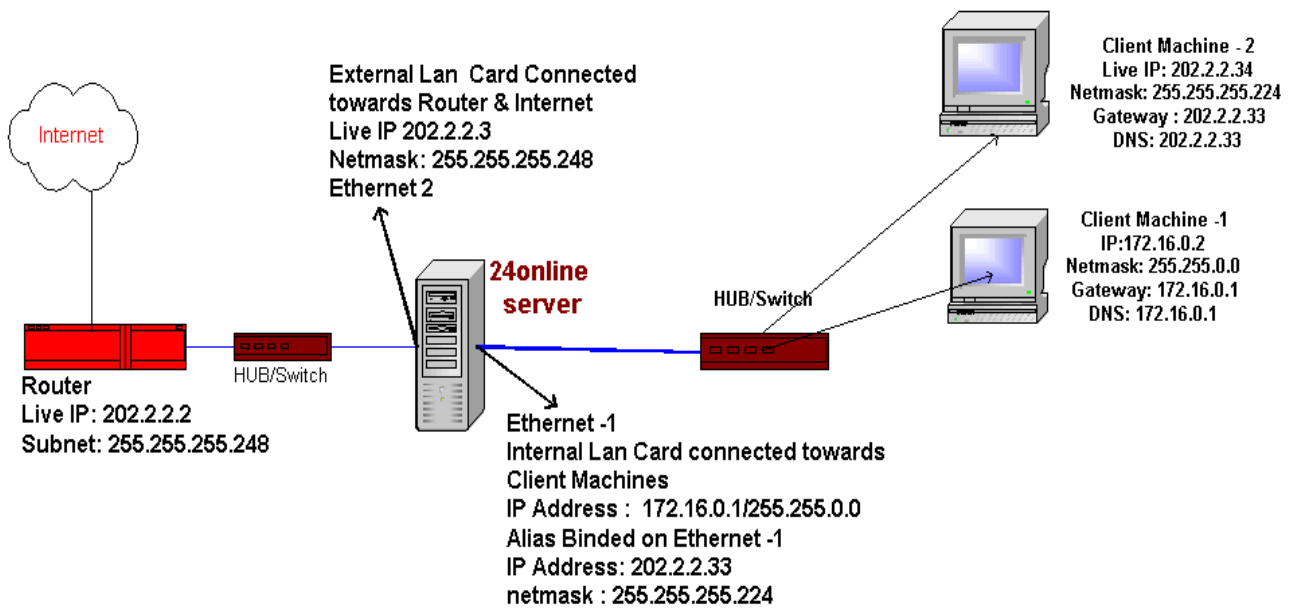
SubmitReset

Procedure:

1. Enter your administrator old password
2. Enter the new password and retype it
3. Click the submit button to save the details.

Network Connection Diagram

Diagram to Give LIVE IPs to clients



Steps to Assign Public Live IP address to clients

1. Get a separate pool of IPs from ISP with different class /subnet. This pool of IPs should be different that assigned to router and 24online external Card.
2. For example Pool taken from ISP to give to clients: 202.2.2.32/255.255.255.240
3. Bind one Alias IP from that pool to Internal LAN Card of 24online Server (Ethernet -1). For example bind Alias IP 202.2.2.33 to Ethernet -1
4. Need to set route in Router to route these class of IPs towards 24online server
5. Set route in Router to forward the above pool 202.2.2.32/255.255.255.224 to Ethernet -2 IP address of 24online server (towards 202.2.2.3)
6. Give clients IP Addresses starting from 202.2.2.34 with netmask 255.255.255.224 and also define this pool in 24online Node Management GUI and mark it LIVE.