

Quick Installation Guide

Model No.: iBSG The Box



- (1) Product introduction
- (2) Configuration
- (3) Monitoring
- (4) Customization

(1) Product introduction

Appearance, Installation and Logon

Topic

- ▶ Appearance
- ▶ Hardware installation
- ▶ Log On to web management

Overview



- ▶ **Front Panel**
 - Power button
 - Power status LED
 - HDD activity LED

(1) Product introduction

Appearance, Installation and Logon



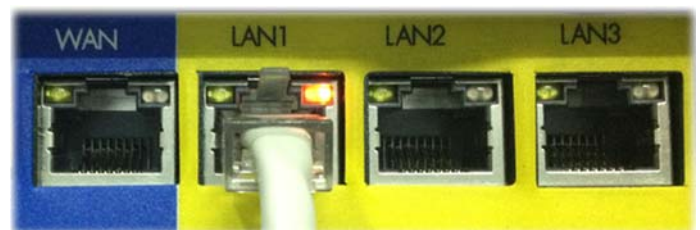
▶ Back Panel

- 12VDC Power input
- 2 x USB 2.0 service port
- 1 x 10/100/1000 Gigabit WAN port
- 3 x 10/100/1000 Gigabit LAN ports
- 1 x Auxiliary 12VDC output for heat ventilation fan
- 1 x VGA port
- 1 x Serial port (reserved)
- 1 x Console (reserved)

Indicator light status



▶ Front



▶ Back panel (Ethernet)

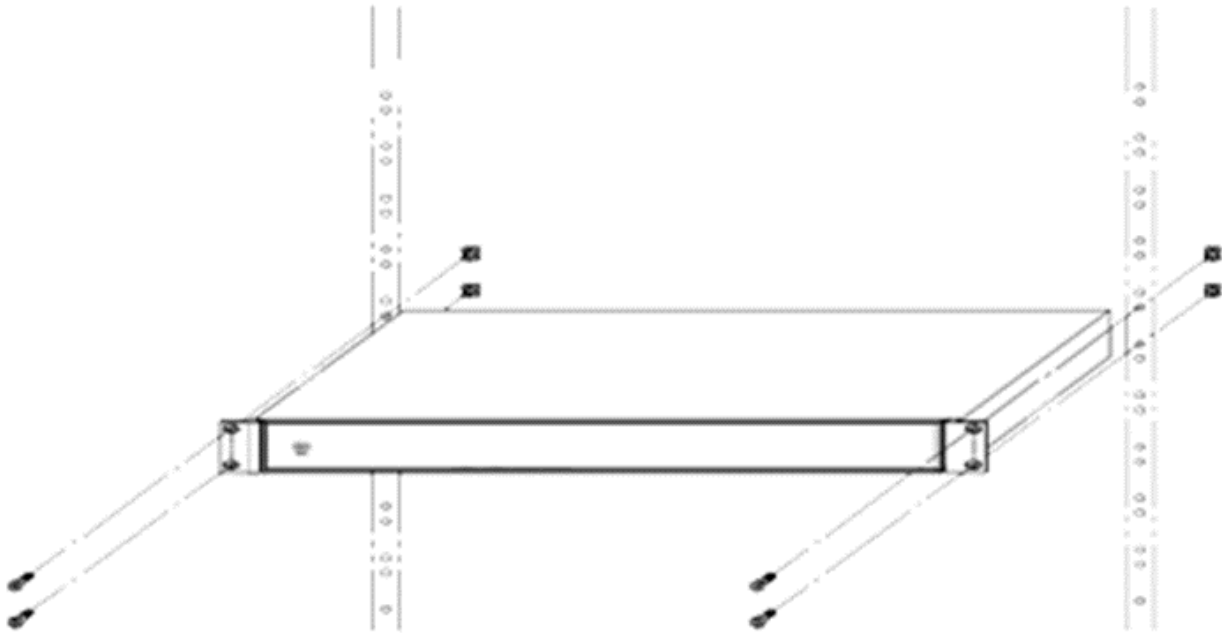
| LED | Status | Specification |
|-------|----------|---|
| Power | On | Indicator light should be light on in blue |
| | Off | System is off or no power |
| HDD | Blinking | Internal storage is reading or writing a data |

| LED | Status | Specification |
|-------------------|----------|--|
| Act (Left side) | Blinking | Port is receiving or sending data |
| Link (Right side) | Green | Port is connected with 10 or 100 Mbps mode |
| | Orange | Port is connected with 1 Gigabit mode |
| | Off | Port is not connected |

(1) Product introduction

Appearance, Installation and Logon

Installation



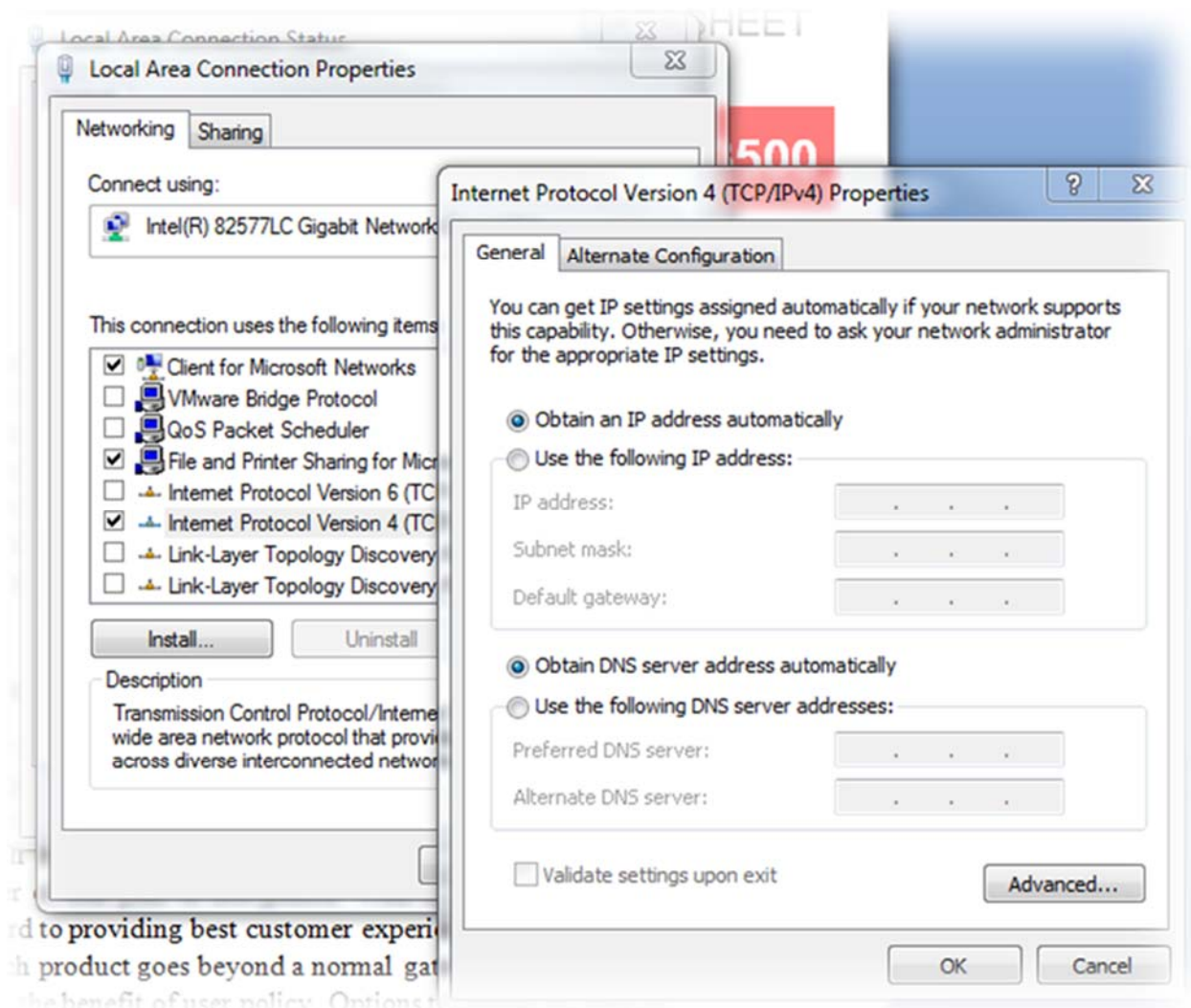
- ▶ Rack fixing
 - Fix the frame ear and screw on both sides of device
- ▶ Desktop fixing
 - You can place device on any flat desks

(1) Product introduction

Appearance, Installation and Logon

Log On, Web management

- ▶ Make sure that your Laptop / Desktop Ethernet interface is setting to DHCP mode



(1) Product introduction

Appearance, Installation and Logon

Log On, Web management

- ▶ Connect LAN cable from your Laptop/Desktop to 'LAN1' port on **iBSG3.5 The Box**
- ▶ Your laptop should obtain IP address from device with 192.168.2.x/24 range address.

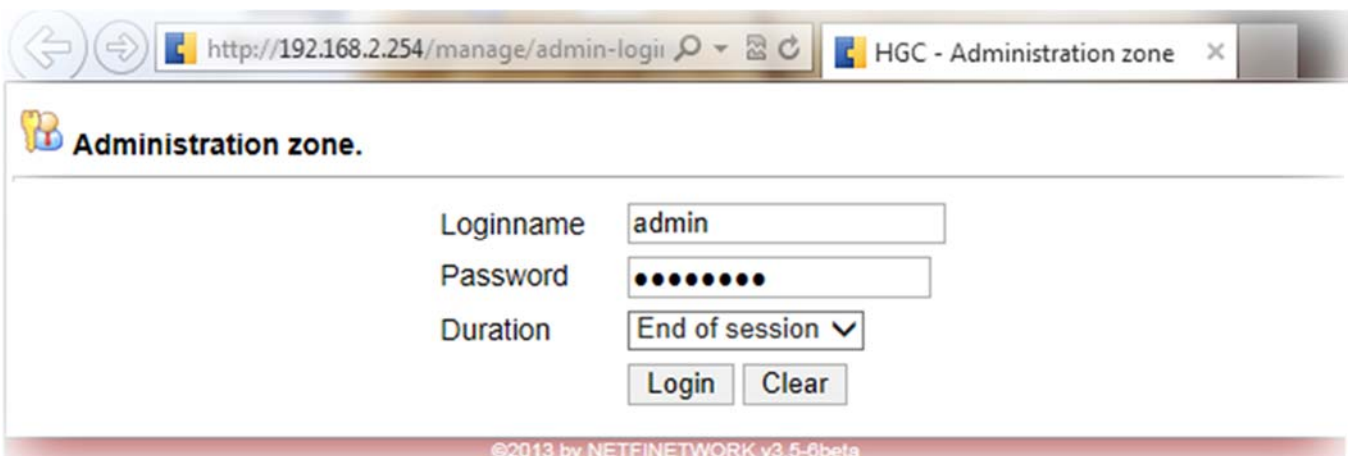


(1) Product introduction

Appearance, Installation and Logon

Log On, Web management

- ▶ Access <http://192.168.2.254/manage> via your web browser, please avoid using old browser such as IE6-8 because it might not working properly
- ▶ Default username is '**admin**' and password is '**admin123**'



The screenshot shows a web browser window with the address bar containing the URL <http://192.168.2.254/manage/admin-logii>. The page title is "Administration zone." and the content area contains a login form with the following fields and buttons:

| | |
|-----------|---|
| Loginname | <input type="text" value="admin"/> |
| Password | <input type="password" value="••••••••"/> |
| Duration | <input type="text" value="End of session"/> |
| | <input type="button" value="Login"/> <input type="button" value="Clear"/> |

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(2) Configuration

Basic configuration and running

Topic

- ▶ Initial note
- ▶ Network topologies
- ▶ Internet setup
- ▶ Ticket policy
- ▶ Ticket creation methods
- ▶ Ticket printing
- ▶ Client access

(2) Configuration

Basic configuration and running

Initial note

- ▶ Once you've entered web management for the first time, please immediately change time zone setting according to your location by navigating to 'System->Time' tab

The screenshot shows the Mikrotik web management interface. The top navigation bar includes tabs for Status, Report, Manage, Monitoring, Network, Admin, System, Diagnostic, Help, and Logout. Below this, there are sub-tabs for Appearance, AAA, Radius, Printing, Time, Configuration, Database, Log, and Maintenance. The 'Time' tab is selected. The 'Time' section shows the following settings: Server Time: Fri, 14 Jun 2013 21:23:39 +0700; Hardware clock: Local* (dropdown); Time Zone: Asia (dropdown); and a red dashed box highlights the selected Time Zone 'Ho_Chi_Minh (VN) +1045+10640' with a circled '1'. Below the Time section is the 'NTP' section with settings: Update every: 15 Minutes* (dropdown); NTP Server: Global (pool.ntp.org) (dropdown); and a Force update button. At the bottom right, the Apply button is highlighted with a red dashed box and a circled '2'. The footer shows the user is logged in as 'admin' and the copyright notice '©2013 by NETEINetwork'.

- ▶ After applied, System will redirect you to 'system->maintenance' menu, you can now reboot the device by click at 'reboot' button

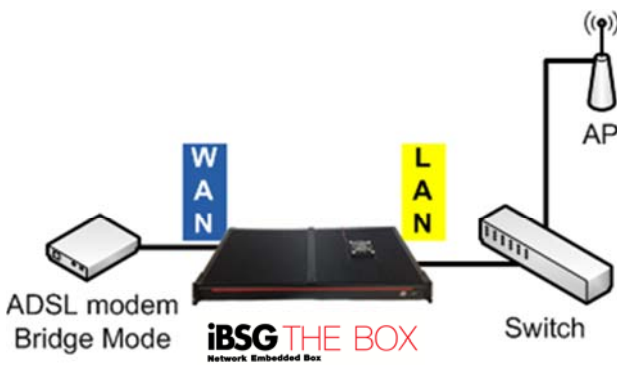
The screenshot shows the Mikrotik web management interface. The top navigation bar is the same as in the previous screenshot. The sub-tabs are Appearance, AAA, Radius, Printing, Time, Configuration, Database, Log, and Maintenance. The 'Maintenance' tab is selected. The 'Reboot' section shows a Reboot button highlighted with a red dashed box and a circled '3'. Below the Reboot button is a Shutdown button.

(2) Configuration

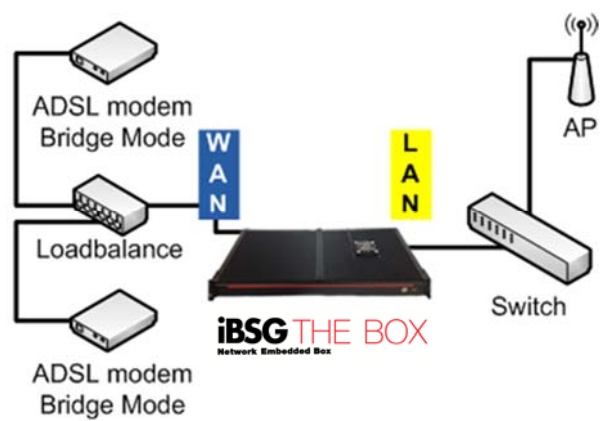
Basic configuration and running

Network topologies

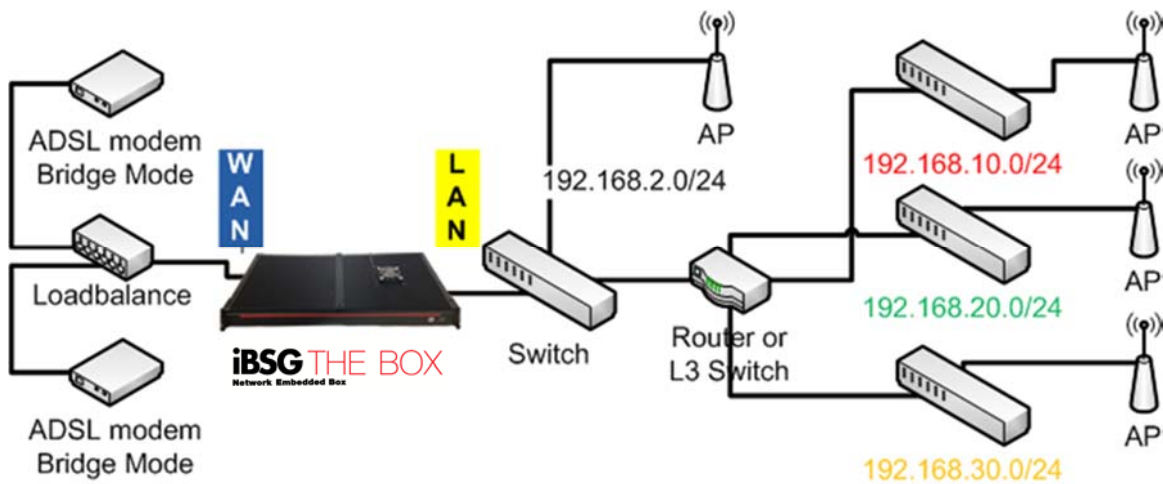
Single WAN



Multi WAN



Multi WAN + Layer 3 Extension



(2) Configuration

Basic configuration and running

Internet setup

- ▶ IBSG supported following connection types on WAN interface
 - **DHCP** Automatically obtain an IP address from connected router
 - **Static** Manually specify an IP address/subnet and gateway and DNS that provide by connected router or your ISP
 - **PPPoE** A widely use PPP over Ethernet protocol for broadband connection such as xDSL, FTTx to properly setup this connection type, your connected modem must operating in 'bridge' mode
- ▶ You can change connection type to match with your internet connection by navigating to 'network-basic' tab

The image displays three screenshots of the IBSG WAN/Internet configuration interface, illustrating different connection types:

- Left Screenshot (DHCP):** Shows the 'WAN / Internet' configuration with 'Connection Type' set to 'DHCP'. Other fields include 'Static DNS', 'MTU' (1500), and 'MSS Clamp' (unchecked).
- Middle Screenshot (Static):** Shows the 'WAN / Internet' configuration with 'Connection Type' set to 'Static'. Fields include 'IP Address' (192.168.16.129), 'Subnet Mask' (255.255.255.0), 'Gateway' (192.168.16.254), 'Static DNS', 'MTU' (1500), and 'MSS Clamp' (unchecked).
- Right Screenshot (PPPoE):** Shows the 'WAN / Internet' configuration with 'Connection Type' set to 'PPPoE'. Fields include 'Username' (pppoe1), 'Password' (masked), 'Authentication' (Auto), 'Service Name', 'Static DNS', 'MTU' (1492), 'MSS Clamp' (checked), 'Kernel Mode' (checked), and 'Alternate Link Check' (checked).

(2) Configuration

Basic configuration and running

Internet setup

- ▶ After you've successfully setup an internet connection, you can check whatever internet is working properly or not by using 'ping' tool in 'diagnostic->ping' tab

The screenshot shows a network management interface with a top navigation bar containing tabs: Status, Report, Manage, Monitoring, Network, Admin, System, and Diagnostic. Under the Diagnostic tab, there are sub-tabs: ARP, DHCP, Ping, and Trace. The Ping sub-tab is active. The configuration fields are: Address (www.google.com), Interface (a dropdown menu), Size (bytes) (32), and Count (3). A 'Ping' button is located to the right of the Count field. Two red dashed boxes with circular callouts '1' and '2' highlight the Address field and the Ping button, respectively. Below the configuration fields, the 'Ping result' section displays a table with the following data:

| # | Address | RX Bytes | TTL | RTT (ms) |
|---|---------------|----------|-----|----------|
| 1 | 74.125.135.99 | 40 | 49 | 46.7 |
| 2 | 74.125.135.99 | 40 | 49 | 46 |
| 3 | 74.125.135.99 | 40 | 49 | 46.8 |


At the bottom of the interface, a status bar indicates: 'You are logged in as 'admin' since 2013-06-14 10:18:33 pm [192.168.16.100]' and a copyright notice: '©2013 by NETFINETWORK'.

- ▶ If you have configured the connection properly you will be able to see ping responses similar to above figure

(2) Configuration

Basic configuration and running

Ticket policy

- ▶ Before you can create an internet ticket (*aka. account*) you must firstly create a 'policy' by navigating to 'manage->policy' tab then click at  button




- ▶ Each policy will have its own properties that will be inherit by policy's members
 - State – define state of policy's members
 - Active
 - Inactive
 - Data rate – Maximum data rate for each policy's members
 - Download – 8 Kbps – 100Mbps or Unlimited
 - Upload – 8 Kbps – 100Mbps or Unlimited
 - Transfer Quota – Accumulated data-transfer for each policy's members
 - Usage Time – Accumulated usage time for each policy's members
 - Valid Period – Time period after first time of usage for each policy's members
 - Idle Timeout – Duration of inactivity before system automatically disconnect each policy's members


(2) Configuration

Basic configuration and running

Ticket policy

 **Add / Edit**

| | |
|--------------------|---|
| Id | <input type="text" value="0"/> |
| Name | <input type="text" value="30hr_in_3days"/> |
| State | <input checked="" type="radio"/> Active <input type="radio"/> Inactive |
| Identity | <input type="radio"/> Required <input checked="" type="radio"/> None |
| Type | <input type="radio"/> Postpaid <input checked="" type="radio"/> Prepaid |
| Price Rate | <input type="text" value="399"/> |
| Datarate DN/UP | <input type="text" value="1520"/> <input type="text" value="256"/> Kbps |
| Transfer Quota | <input type="text" value="0"/> Megabyte <input type="text" value="v"/> |
| Daily Usage Time | <input type="text" value="0"/> Minute <input type="text" value="v"/> |
| Weekly Usage Time | <input type="text" value="0"/> Minute <input type="text" value="v"/> |
| Monthly Usage Time | <input type="text" value="0"/> Minute <input type="text" value="v"/> |
| Usage Time | <input type="text" value="30"/> Hour <input type="text" value="v"/> |
| Valid Period | <input type="text" value="3"/> Day <input type="text" value="v"/> |
| Idle Timeout | <input type="text" value="0"/> (minutes) |
| Comment | <input type="text"/> |
| Build Date | <input type="text" value="2013-06-16"/> |
| Build By | <input type="text" value="admin"/> |




▶ Example - 1

- Policy name: 30hr_in_3days
 - Data rate: 1.5Mbps / 256Kbps
 - Usage time: 30 hours
 - Validity period 3Days
- ▶ Each policy member will get maximum Download/Upload data rate **1.5** Mbps and **256** Kbps respectively
- ▶ Each policy member will have total **30** Hours of usage time but only valid for **3** Days after first time use


(2) Configuration

Basic configuration and running

Ticket policy

 Add / Edit

| | |
|--------------------|---|
| Id | <input type="text" value="0"/> |
| Name | <input type="text" value="nolimit_3days"/> |
| State | <input checked="" type="radio"/> Active <input type="radio"/> Inactive |
| Identity | <input type="radio"/> Required <input checked="" type="radio"/> None |
| Type | <input type="radio"/> Postpaid <input checked="" type="radio"/> Prepaid |
| Price Rate | <input type="text" value="299"/> |
| Datarate DN/UP | <input type="text" value="0"/> <input type="text" value="0"/> Kbps |
| Transfer Quota | <input type="text" value="0"/> Megabyte <input type="text" value="v"/> |
| Daily Usage Time | <input type="text" value="0"/> Minute <input type="text" value="v"/> |
| Weekly Usage Time | <input type="text" value="0"/> Minute <input type="text" value="v"/> |
| Monthly Usage Time | <input type="text" value="0"/> Minute <input type="text" value="v"/> |
| Usage Time | <input type="text" value="0"/> Hour <input type="text" value="v"/> |
| Valid Period | <input type="text" value="3"/> Day <input type="text" value="v"/> |
| Idle Timeout | <input type="text" value="0"/> (minutes) |
| Comment | <input type="text"/> |
| Build Date | <input type="text" value="2013-06-16"/> |
| Build By | <input type="text" value="admin"/> |





- ▶ Example - 2
 - Policy name: nolimit_3days
 - Data rate: Unlimited
 - Valid Period 3Days
- ▶ Each policy member will get **maximum** Download/Upload data rate that available from your connection
- ▶ Each policy member will have total **3** Days usage after first time use

(2) Configuration

Basic configuration and running

Ticket policy

| # | ACT | IDENT | Name | Type | Price | ↓ Rate | ↑ Rate | Quota | Daily | Weekly | Monthly | Total Usage | Valid | Build | ACC | Comment |
|---|-----|-------|---------------|------|-------|-----------|----------|-------|-------|--------|---------|-------------|-------|------------|-----|---------|
| 2 | ✓ | ✗ | nolimit_3days | Pre | 299 | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | 3 Day | 2013/06/16 | - | |
| 1 | ✓ | ✗ | 30hr_in_3days | Pre | 399 | 1.48 mb/s | 256 kb/s | ∞ | ∞ | ∞ | ∞ | 1 Day 6 Hr | 3 Day | 2013/06/16 | - | |




- ▶ You can create many policies as needed
- ▶ Policy's properties can be modify anytime after created by using  (2) button
 - **Data rate** will effect immediately after change, with this behavior you could solve '**bandwidth problem**' instantly by decreasing its value
- ▶ Policy removal is possible by using  (3) button when no member associated

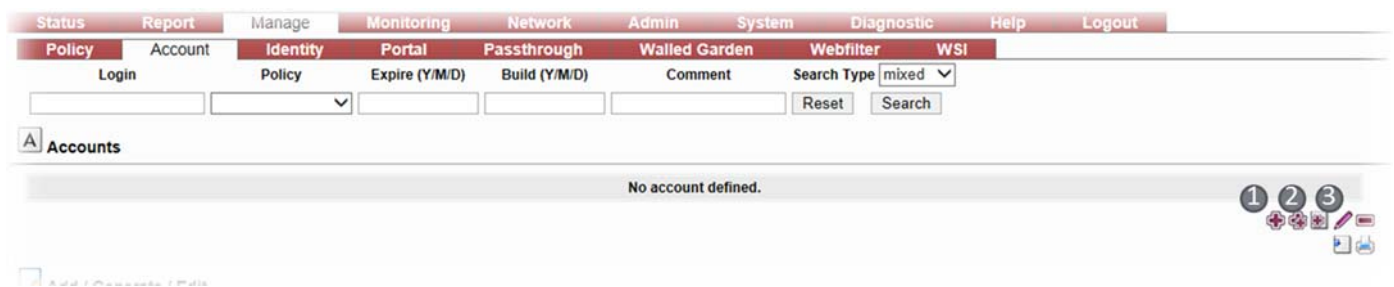
(2) Configuration

Basic configuration and running

Ticket creation

- ▶ IBSG have 3 different ticket (*aka. account*) creation methods
 - **Add** create a single account at a time which suitable for small amount of account or specify user only
 - **Generate** generate large number of accounts up to 1,000 accounts at a time, suitable for hotel or apartment where these accounts can print out and sell at reception counter
 - **Import** import an account(s) from a CSV file suitable for some organization that would like to use existing user database
- ▶ You can access account creation methods in 'manage-account' tab and click at below icons tool

-  Add (1)
-  Generate (2)
-  Import (3)



The screenshot shows the IBSG management interface. The top navigation bar includes tabs for Status, Report, Manage, Monitoring, Network, Admin, System, Diagnostic, Help, and Logout. Below this is a sub-navigation bar with tabs for Policy, Account, Identity, Portal, Passthrough, Walled Garden, Webfilter, and WSI. The 'Account' tab is selected. The main content area displays a form with the following fields and controls:

- Login:
- Policy:
- Expire (Y/M/D):
- Build (Y/M/D):
- Comment:
- Search Type:
- Reset:
- Search:


Below the form, the text 'Accounts' is displayed, followed by 'No account defined.' In the bottom right corner, there are three numbered icons: 1 (Add), 2 (Generate), and 3 (Import).


(2) Configuration

Basic configuration and running

Ticket creation

Add method

 **Add / Generate / Edit**

| | |
|---------------------|--|
| Id | <input type="text" value="0"/> |
| Sold Now | <input checked="" type="radio"/> No <input type="radio"/> Yes |
| State | <input checked="" type="radio"/> Active <input type="radio"/> Inactive |
| Policy | <input type="text" value="30hr_in_3days"/> ▾ |
| Login | <input type="text" value="acc1"/> |
| Password | <input type="text" value="1234"/> <input type="checkbox"/> Hide |
| MAC | <input type="text"/> |
| Host | <input type="text"/> |
| Datarate DN/UP | <input type="text" value="0"/> <input type="text" value="0"/> Kbps <input type="checkbox"/> Override |
| Maximum Login | <input type="text" value="1"/> |
| Expire Date (Y M D) | <input type="text" value="2014"/> <input type="text" value="01"/> <input type="text" value="01"/> <input checked="" type="checkbox"/> Not Expire |
| Comment | <input type="text"/> |
| Build Date | <input type="text" value="2013-06-16"/> |
| Build By | <input type="text" value="admin"/> |
| | <input type="button" value="Add"/>  |

▶ Add example

- Policy: 30hr_in_3days
- Login: acc1
- Password: 1234


▶ An account named 'acc1' with password '1234' associated with '30hr_in_3days' policy will be created



(2) Configuration

Basic configuration and running

Ticket creation

Generate method

 Add / Generate / Edit

| | |
|---------------------|--|
| Id | <input type="text" value="0"/> |
| Sold Now | <input checked="" type="radio"/> No <input type="radio"/> Yes |
| State | <input checked="" type="radio"/> Active <input type="radio"/> Inactive |
| Policy | <input type="text" value="30hr_in_3days"/>  |
| Maximum Login | <input type="text" value="1"/> |
| Count | <input type="text" value="10"/> |
| Login Prefix | <input type="text" value="ac"/> |
| Login Suffix Start | <input type="text" value="1"/> |
| Password Length | <input type="text" value="4"/> Options |
| Expire Date (Y M D) | <input type="text" value="2014"/> <input type="text" value="01"/> <input type="text" value="01"/> <input checked="" type="checkbox"/> Not Expire |
| Comment | <input type="text"/> |
| Build Date | <input type="text" value="2013-06-16"/> |
| Build By | <input type="text" value="admin"/> |
| | <input type="button" value="Generate"/>  |

▶ Generate example

- Policy: 30hr_in_3days
- Count: 10
- Prefix: ac
- Suffix start: 1
- Password length: 4

▶ Accounts name 'ac01' to 'ac10' with '4' characters random password will be added to '30hr_in_3days'

(2) Configuration

Basic configuration and running

Ticket creation

Import method

Account Import

Associated policy: nolimit_3days

CSV data file: D:\database.csv (Browse...)

Skip first row:

Login column#: 1

Password column#: 2 (Auto generate:)

Maximum login: 1

Comment column#: 3 (No comment:)

Buttons: Import, Close

- ▶ Database.csv

| | A | B | C |
|---|---------|--------|---------|
| 1 | LOGIN | PASSWD | COMMENT |
| 2 | netfi01 | 1234 | A1 |
| 3 | netfi02 | 1234 | A2 |
| 4 | netfi03 | 1234 | A3 |
| 5 | | | |

- ▶ Account name 'netfi01' to 'netfi03' with password '1234' will be added to 'nolimit_3days' policy

(2) Configuration

Basic configuration and running

Ticket creation

- ✓ Here we have total 14 accounts created 1 from add-method 10 from generate-method and 3 from CSV file

| # | ACT | Login | Policy | Type | MAC | Host | Used Total | Expire | Build | OVR | Sold | Print | Comment |
|----|-----|---------|---------------|------|-----|------|------------|--------|------------|-----|------|-------|---------|
| 14 | ✓ | netfi03 | nolimit_3days | Pre | * | - | * | * | 2013/06/16 | ✗ | ✗ | ✗ | A3 |
| 13 | ✓ | netfi02 | nolimit_3days | Pre | * | - | * | * | 2013/06/16 | ✗ | ✗ | ✗ | A2 |
| 12 | ✓ | netfi01 | nolimit_3days | Pre | * | - | * | * | 2013/06/16 | ✗ | ✗ | ✗ | A1 |
| 11 | ✓ | ac10 | 30hr_in_3days | Pre | * | - | * | * | 2013/06/16 | ✗ | ✗ | ✗ | |
| 10 | ✓ | ac09 | 30hr_in_3days | Pre | * | - | * | * | 2013/06/16 | ✗ | ✗ | ✗ | |
| 9 | ✓ | ac08 | 30hr_in_3days | Pre | * | - | * | * | 2013/06/16 | ✗ | ✗ | ✗ | |
| 8 | ✓ | ac07 | 30hr_in_3days | Pre | * | - | * | * | 2013/06/16 | ✗ | ✗ | ✗ | |
| 7 | ✓ | ac06 | 30hr_in_3days | Pre | * | - | * | * | 2013/06/16 | ✗ | ✗ | ✗ | |
| 6 | ✓ | ac05 | 30hr_in_3days | Pre | * | - | * | * | 2013/06/16 | ✗ | ✗ | ✗ | |
| 5 | ✓ | ac04 | 30hr_in_3days | Pre | * | - | * | * | 2013/06/16 | ✗ | ✗ | ✗ | |
| 4 | ✓ | ac03 | 30hr_in_3days | Pre | * | - | * | * | 2013/06/16 | ✗ | ✗ | ✗ | |
| 3 | ✓ | ac02 | 30hr_in_3days | Pre | * | - | * | * | 2013/06/16 | ✗ | ✗ | ✗ | |
| 2 | ✓ | ac01 | 30hr_in_3days | Pre | * | - | * | * | 2013/06/16 | ✗ | ✗ | ✗ | |
| 1 | ✓ | acc1 | 30hr_in_3days | Pre | * | - | * | * | 2013/06/16 | ✗ | ✗ | ✗ | |

- ▶ You can use 'search fields' above to filter only specific account by criteria such as Login (1) , Policy (2) or Comment (3)
- ▶ You can change account properties such as 'password' or 'expire date' using (4) button
- ▶ You can remove account with (5) button
- ▶ You can print account ticket using (6) button

(2) Configuration

Basic configuration and running

Ticket printing

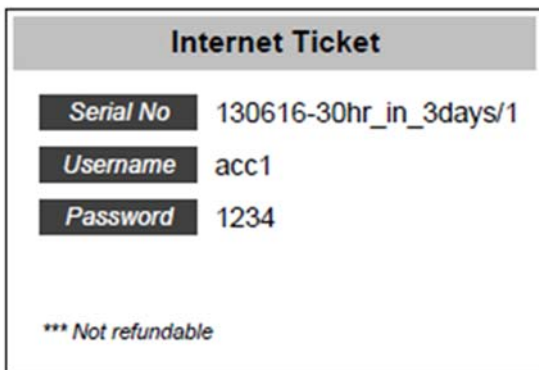
- ▶ iBSG have 3 build-in paper types for ticket printing
 - Carbon – required dot-matrix printer with 3 layers special size (100 x 140mm) continuous feed carbon copy paper
 - A4 – required only standard A4 paper with almost any printers (210 x 297mm)
 - With out background – Plain style
 - With background – With background image
 - Ticket – Small size thermal printer (45 x 76mm)

(2) Configuration

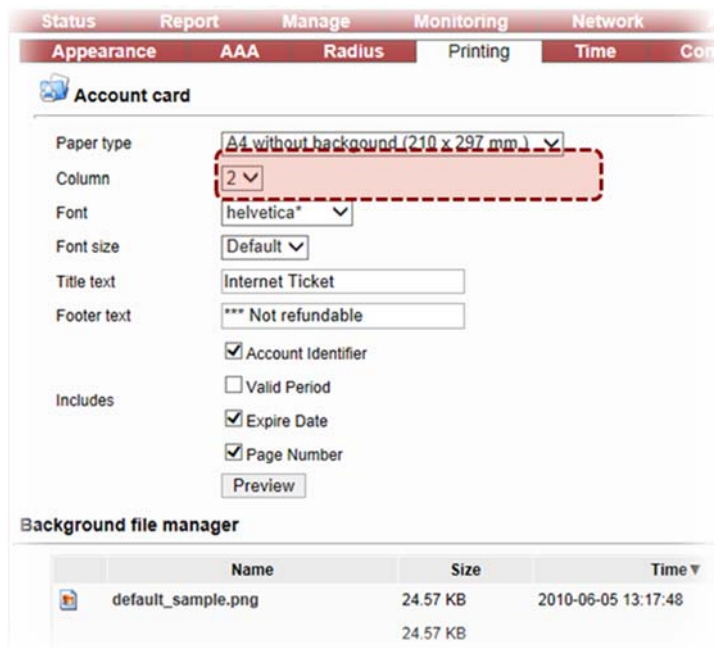
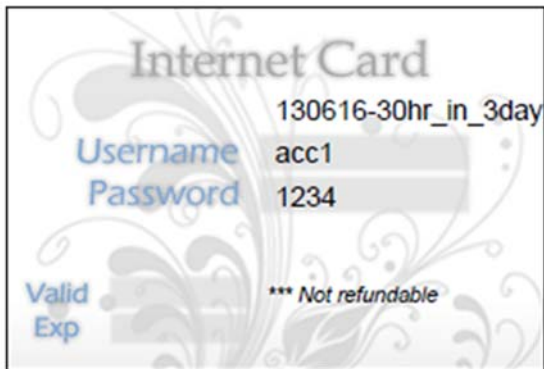
Basic configuration and running

Ticket printing

A4 - With out background ▶ You can change paper type and printing properties in 'system-printing' tab and don't forget to click 'apply' when changed




A4 - With background

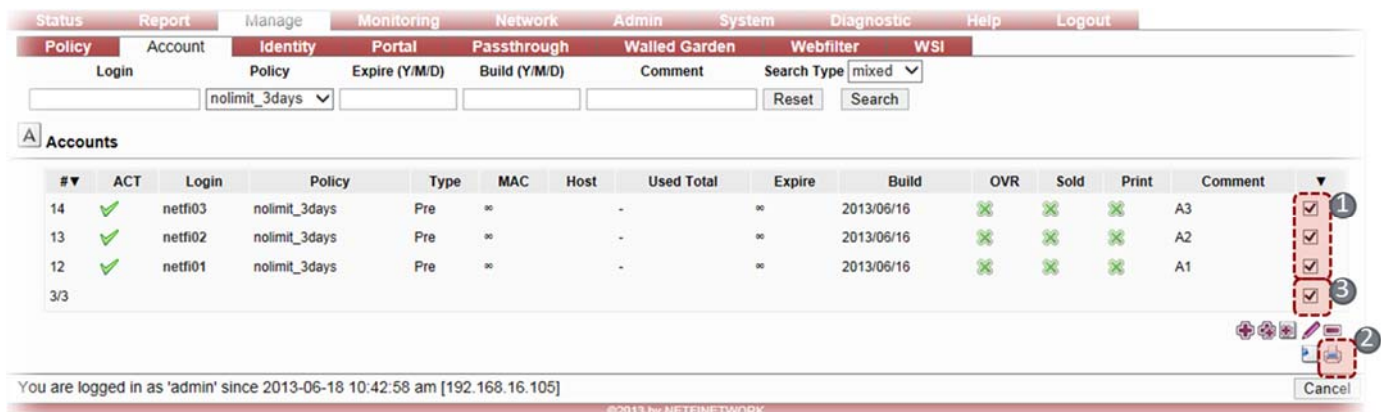


(2) Configuration

Basic configuration and running

Ticket printing

- ▶ You have to select a list of accounts (1) that you wanted to print in 'manage-account' tab then click button  (2) to print



The screenshot shows the 'Accounts' management interface. At the top, there are navigation tabs: Status, Report, Manage, Monitoring, Network, Admin, System, Diagnostic, Help, and Logout. Below these are sub-tabs: Policy, Account, Identity, Portal, Passthrough, Walled Garden, Webfilter, and WSI. A search bar is present with a dropdown menu set to 'mixed'. The main area displays a table of accounts with columns: #, ACT, Login, Policy, Type, MAC, Host, Used Total, Expire, Build, OVR, Sold, Print, and Comment. Three accounts are listed: #14 (netfi03), #13 (netfi02), and #12 (netfi01). Each row has a checkbox in the 'Print' column, which are numbered 1, 2, and 3 respectively. A 'check all' checkbox is located at the bottom right of the table, numbered 3. A print button is located at the bottom right of the interface, numbered 2. The footer shows the user is logged in as 'admin' since 2013-06-18 10:42:58 am [192.168.16.105] and the copyright notice ©2013 by NETFINETWORK.

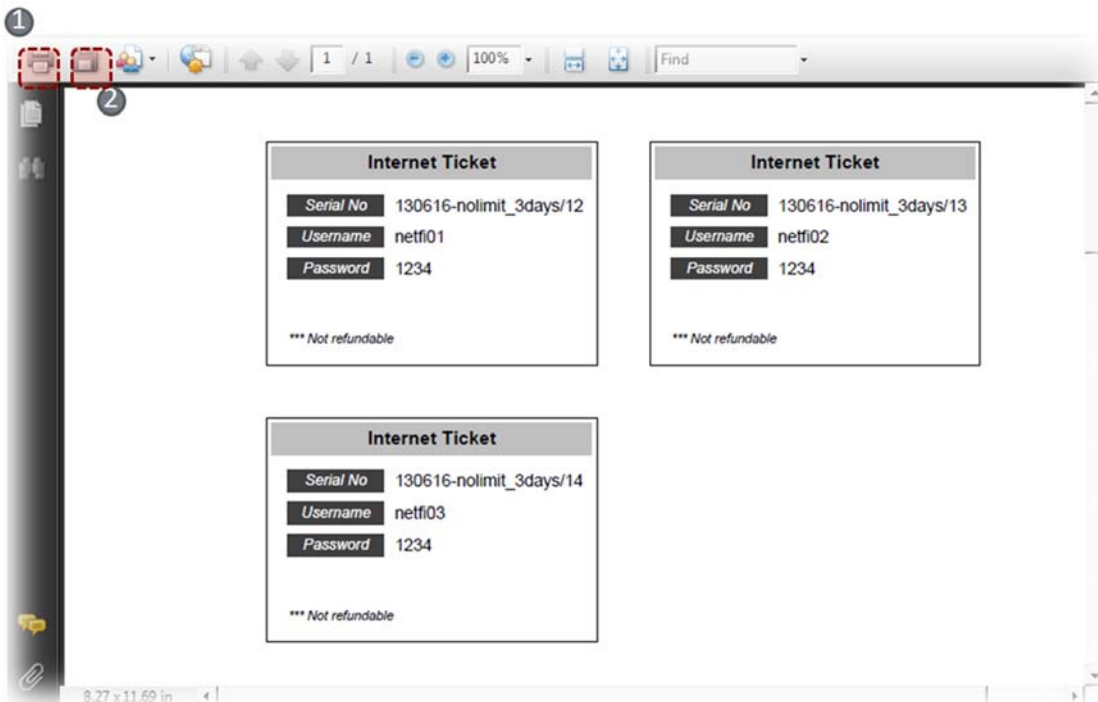
| # | ACT | Login | Policy | Type | MAC | Host | Used Total | Expire | Build | OVR | Sold | Print | Comment |
|----|-----|---------|---------------|------|-----|------|------------|--------|------------|-----|------|-------|---------|
| 14 | ✓ | netfi03 | nolimit_3days | Pre | ∞ | - | ∞ | ∞ | 2013/06/16 | ✗ | ✗ | ✗ | A3 |
| 13 | ✓ | netfi02 | nolimit_3days | Pre | ∞ | - | ∞ | ∞ | 2013/06/16 | ✗ | ✗ | ✗ | A2 |
| 12 | ✓ | netfi01 | nolimit_3days | Pre | ∞ | - | ∞ | ∞ | 2013/06/16 | ✗ | ✗ | ✗ | A1 |

- ▶ You can alternatively use 'check all' checkbox (3) to select all currently showing accounts

(2) Configuration

Basic configuration and running

Ticket printing



- ▶ Above window will appear, you can print this tickets by click at printer icon (1), or save to a PDF file (2) for later use

(2) Configuration

Basic configuration and running

Client access

- ▶ When users in iBSG (LAN1) network try to access a website via web browser, they will get redirected to 'landing page' (*aka. Portal*)

iBSG 3.5

Please login

Loginname

Password

Remember Me

Login

Announcement

Announcement message here

Contact

Contact information here

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- ▶ Users can check their time-remaining and expire-date by [check](#) (1) button
- ▶ Users can check their usage-history or changing password by [usage](#) (2) button

(2) Configuration

Basic configuration and running

Client access

- ▶ Users has to fill-in a correct Loginname/Password that reside in iBSG system to access the internet

Please login

Loginname

Password

Remember Me



Login successfully

Welcome to Hi-Speed internet, You can type 'logout.' in address bar and hit enter to logout.

Policy/Package: nolimit_3days
Time remain: ∞
Time quota: ∞
Transfer remain ∞
Transfer quota ∞
Valid/Expire date: 2013/06/21 13:58:30

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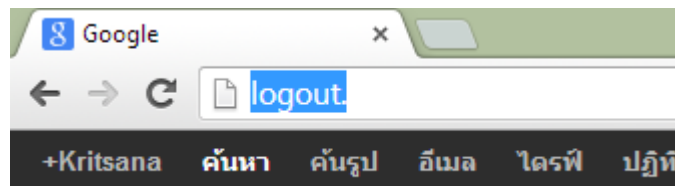
Google

(2) Configuration

Basic configuration and running

Client access

- ▶ Logged-in users can manually logout by typing '**logout.**' in browser then press enter, this method works on every browser including mobile devices



iBSG3.5

Logout status

Successfully logged out.

You have logged-in for '1m 16s'

Relogin

Close

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(3) Monitoring

System, Users and Devices

Topic

- ▶ System monitoring
- ▶ User monitoring
- ▶ IP Device monitoring
- ▶ Device configurator

(3) Monitoring

System, Users and Devices

System monitoring

| Overview | User | Device | Utilization | Log |
|-----------------|---------------------------------|--------|-------------|-----|
| System | | | | |
| Time | Tue, 18 Jun 2013 22:29:03 +0800 | | | |
| Uptime | 0 Day, 09:20:18 | | | |
| Load Average | 0.06, 0.02, 0.00 | | | |
| Mem Usage | 304.12 / 4,044.73 MB | | | |
| Swap Usage | 0.00 / 6,079.99 MB | | | |
| Disk Usage | 0.80 / 142.77 GB | | | |
| WAN | | | | |
| MAC Address | 00:E5:11:12:81:DC | | | |
| Connection Type | Static | | | |
| IP Address | 192.168.16.129 | | | |
| Subnet Mask | 255.255.255.0 | | | |
| Gateway | 192.168.16.254 | | | |
| DNS | 192.168.16.254 | | | |
| MTU | 1,500 | | | |
| Interface Name | eth0 | | | |
| Status | Connected | | | |
| LAN | | | | |
| MAC Address | 00:E5:11:12:81:DD | | | |
| IP Address | 192.168.2.254 | | | |
| Subnet Mask | 255.255.255.0 | | | |
| DHCP | 192.168.2.1 ~ 192.168.2.200 | | | |
| MTU | 1,500 | | | |
| Interface Name | eth1 | | | |
| Status | No-carrier | | | |

▶ To view overall system status please go to [‘status-overview’](#) tab

You are logged in as 'admin' since 2013-06-18 10:29:02 pm [192.168.16.100]

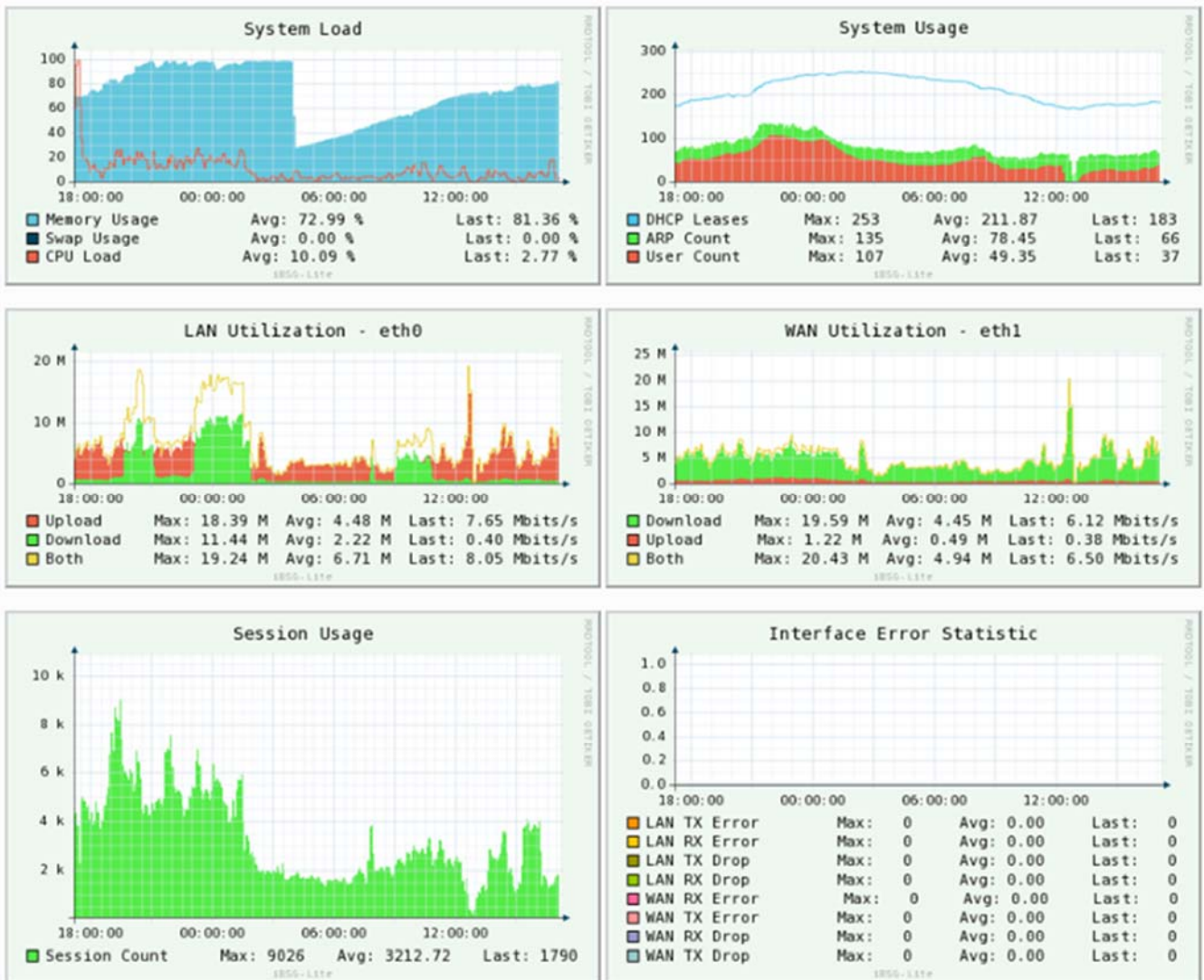
This page contain most frequent use of system and network status

- Uptime
- Load Average (1/5/15 min)
- Storage/Memory/Disk usage
- WAN IP and Physical status
- LAN IP and Physical status

(3) Monitoring

System, Users and Devices

System monitoring



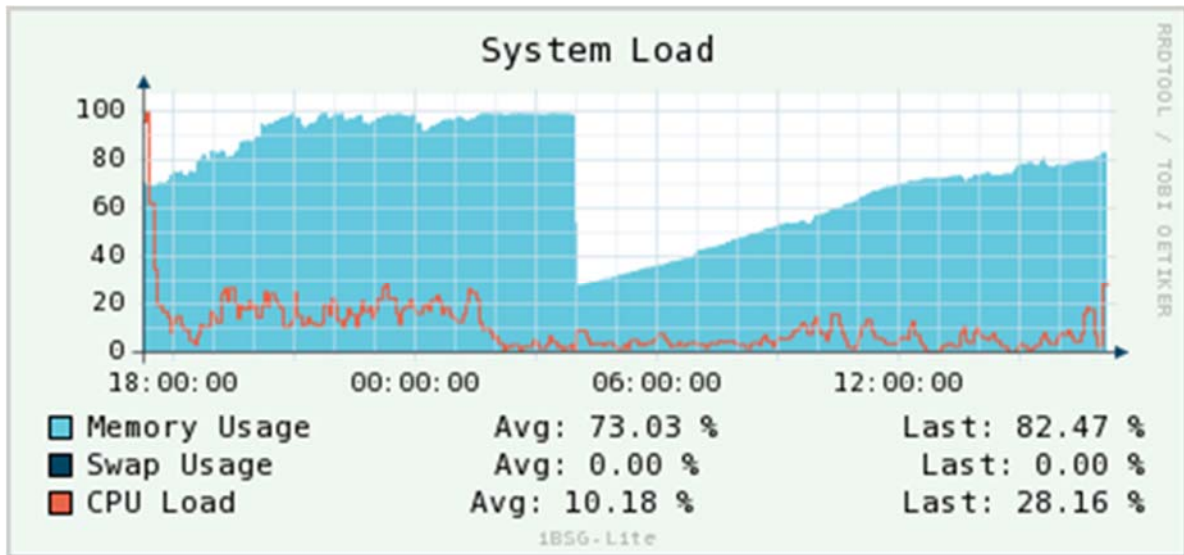
▶ Status history is available in 'status->utilization' tab

This page contain 6 graphs that show historical system status for 1 day period

(3) Monitoring

System, Users and Devices

System monitoring

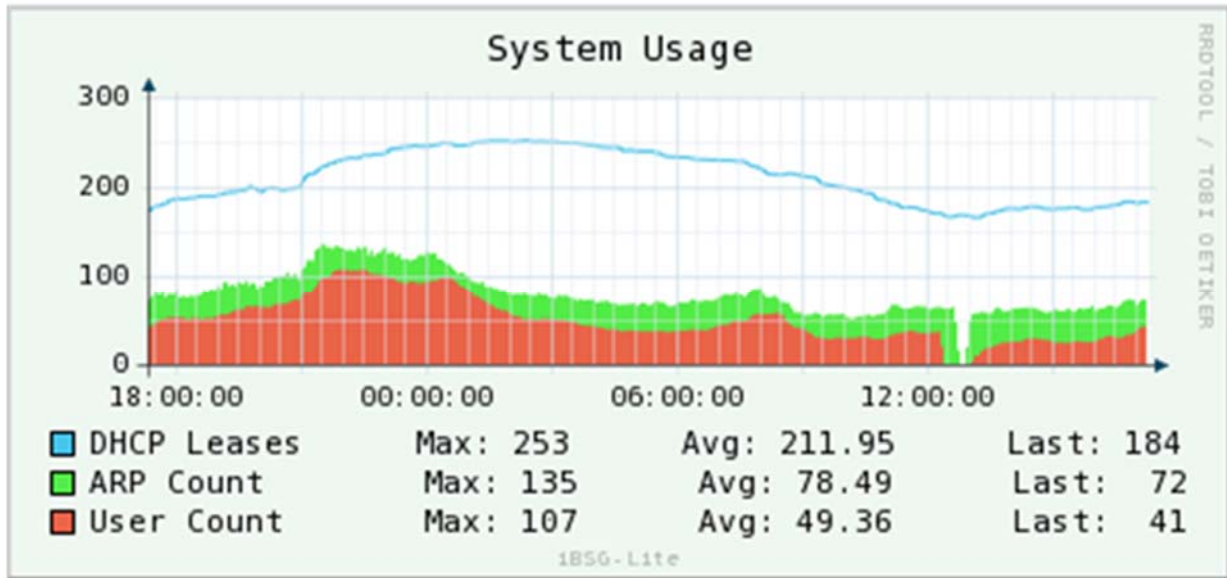


- ▶ System load
 - Memory usage (light-blue)
 - Swap Usage (dark-blue)
 - CPU Load (red)
- ▶ Because of Linux-OS behavior, memory usage can reach 100% for some period of time
- ▶ Swap usage should always 0 value, if not; that's indicates memory exhausted
- ▶ CPU Load can reach 100% when log files are being compressed around 4pm, but in average should not stay higher than 30%

(3) Monitoring

System, Users and Devices

System monitoring



- ▶ System usage
 - DHCP Leases (light-blue)
 - ARP Count (red)
 - User Count (green)
- ▶ DHCP Leases – IP Addresses count that has been offered by DHCP
- ▶ DHCP ARP – ARP addresses count that has been detected by system
- ▶ User Count – Users count that has been logged-in the system


(3) Monitoring

System, Users and Devices

User monitoring

- ▶ Real-time online user status is in 'status-user' tab

| | | | | | | | | | | | | | | |
|------|-----------|----------------|--------------|-------------------|-----------|-----------|---|-----------|-----------|---------------------|----------|-----------|----------|-------------------------------------|
| 7236 | therichm | Bcc | 172.16.1.147 | 04:54:53:ED:66:2E | 66.95 MB | 7.13 MB | ∞ | 0 b | 0 b | 2013-06-18 14:35:52 | 06:56:17 | ∞ | 00:03:08 | <input type="checkbox"/> |
| 7235 | ct050 | Contact1Y | 172.16.1.252 | 8C:FA:BA:5F:D0:9D | 119.88 MB | 3.27 MB | ∞ | 0 b | 0 b | 2013-06-18 14:25:19 | 07:06:50 | 838:59:59 | 00:10:51 | <input type="checkbox"/> |
| 7234 | therichm | Bcc | 172.16.1.87 | 14:10:9F:EA:52:E0 | 630.40 MB | 38.60 MB | ∞ | 1.17 kb | 119 b | 2013-06-18 14:18:36 | 07:13:33 | ∞ | 00:00:07 | <input type="checkbox"/> |
| 7217 | therichm | Bcc | 172.16.0.157 | 00:21:6A:0F:4C:6C | 8.52 MB | 2.18 MB | ∞ | 0 b | 0 b | 2013-06-18 13:00:42 | 08:31:27 | ∞ | 00:00:27 | <input type="checkbox"/> |
| 7212 | ct057 | Contact1Y | 172.16.0.13 | DC:2B:61:98:6A:10 | 1.61 GB | 41.99 MB | ∞ | 96.36 kb | 4.34 kb | 2013-06-18 12:28:13 | 09:03:56 | 838:59:59 | 00:00:07 | <input type="checkbox"/> |
| 7208 | 1month044 | 1Month | 172.16.0.115 | C4:85:08:25:B1:60 | 3.15 GB | 121.25 MB | ∞ | 0 b | 0 b | 2013-06-18 11:43:17 | 09:48:52 | 521:08:20 | 00:14:53 | <input type="checkbox"/> |
| 7204 | bcc | Bcc | 172.16.1.154 | 50:EA:D6:1A:37:2E | 317.90 MB | 62.18 MB | ∞ | 0 b | 0 b | 2013-06-18 11:16:37 | 10:15:32 | ∞ | 01:03:31 | <input type="checkbox"/> |
| 7187 | user02 | TheRich_Office | 172.16.0.154 | AC:81:12:D4:80:2F | 173.84 MB | 30.35 MB | ∞ | 0 b | 0 b | 2013-06-18 09:12:06 | 12:20:03 | ∞ | 01:23:38 | <input type="checkbox"/> |
| 7092 | ct003 | Contact1Y | 172.16.0.82 | 3C:D0:F8:B8:1C:7E | 408.11 MB | 6.20 MB | ∞ | 0 b | 0 b | 2013-06-17 21:16:22 | 24:15:47 | 838:59:59 | 00:05:29 | <input type="checkbox"/> |
| 7016 | ct032 | Contact1Y | 172.16.0.16 | BC:77:37:8F:49:BD | 3.28 GB | 1.08 GB | ∞ | 2.08 kb | 4.27 kb | 2013-06-17 17:37:32 | 27:54:37 | 838:59:59 | 00:00:07 | <input type="checkbox"/> |
| 6893 | ct056 | Contact1Y | 172.16.0.130 | 10:1C:0C:05:EB:B5 | 2.00 GB | 68.36 MB | ∞ | 0 b | 0 b | 2013-06-16 23:42:35 | 45:49:34 | 838:59:59 | 00:06:10 | <input type="checkbox"/> |
| 6777 | ct028 | Contact1Y | 172.16.1.245 | D0:23:DB:E1:63:B9 | 151.93 MB | 14.47 MB | ∞ | 27 b | 73 b | 2013-06-16 12:56:49 | 56:35:20 | 838:59:59 | 00:00:07 | <input checked="" type="checkbox"/> |
| 59 | | | | | | | | 8.05 mb/s | 1.70 mb/s | | | | | <input type="checkbox"/> |

- ▶ You can force user to disconnect from system by select target login name and click at button  (2)

(3) Monitoring

System, Users and Devices

IP Device monitoring

| #▲ | Name | Group | IP Address | MAC Address | Model |
|----|-----------|---------|------------|-------------|---------|
| 1 | EAP-600_1 | default | 10.0.1.241 | ∞ | EAP-600 |
| 2 | EAP-600_2 | default | 10.0.1.242 | ∞ | EAP-600 |
| 3 | EAP-600_3 | default | 10.0.1.243 | ∞ | EAP-600 |
| 4 | EAP-600_4 | default | 10.0.1.244 | ∞ | EAP-600 |
| 7 | EX2200_1 | default | 10.0.1.253 | ∞ | Generic |
| 8 | EX2200_2 | default | 10.0.1.252 | ∞ | Generic |
| 10 | DSLAM#3 | dslam | 10.0.1.3 | ∞ | Generic |
| 11 | DSLAM#2 | dslam | 10.0.1.2 | ∞ | Generic |
| 12 | DSLAM#1 | dslam | 10.0.1.1 | ∞ | Generic |

9/9

Add / Edit

Id:

Group:

Name:

IP Address:

MAC Address:

Description:

SNMP:

Version:

Vendor:

Model:

RO Community String: **1**

RW Community String:

Traffic:

Interface:

▶ iBSG has build-in SNMP device monitoring feature, you can add any ip-enabled-device that reachable by the system in 'monitoring-device' tab and it will be show in 'status-device'

▶ For SNMP enabled device you should specify a correct community string (1) so that extra status can be shown

(3) Monitoring

System, Users and Devices

IP Device monitoring

- ▶ Device monitoring will continuously poll every device and show latency level as icons from 'Green' (Low latency) to 'Red' (Unreachable)

| #▲ | Name | Group | IP Address | 15 m | 10 m | 5 m | Min RTT | Max RTT | SSID | Channel | Tx Power | ↓ Transferred | ↑ Transferred | Uptime | Client | Last seen | ▼ |
|----|-----------|---------|------------|------|------|-----|---------|---------|-----------|---------|-----------------|---------------|---------------|----------------|--------|---------------------|-------------------------------------|
| 1 | EAP-600_1 | default | 10.0.1.241 | 🟢 | 🟢 | 🟢 | 0 ms | 0 ms | NVK_Staff | Auto | 20 dBm (100 mW) | 1.19 GB | 1.06 GB | 77d 8h 31m 25s | 6 | 2013/06/18 17:40:19 | <input checked="" type="checkbox"/> |
| 2 | EAP-600_2 | default | 10.0.1.242 | 🟢 | 🟢 | 🟢 | 0 ms | 0 ms | NVK_Staff | Auto | 20 dBm (100 mW) | 3.46 GB | 3.36 GB | 5d 4h 16m 28s | 1 | 2013/06/18 17:40:20 | <input type="checkbox"/> |
| 3 | EAP-600_3 | default | 10.0.1.243 | 🟢 | 🟢 | 🟢 | 0 ms | 1 ms | NVK_Staff | Auto | 20 dBm (100 mW) | 546.00 MB | 1.90 GB | 77d 8h 31m 25s | 3 | 2013/06/18 17:40:19 | <input type="checkbox"/> |
| 4 | EAP-600_4 | default | 10.0.1.244 | 🟢 | 🟢 | 🟢 | 0 ms | 0 ms | NVK_Staff | Auto | 20 dBm (100 mW) | 1.78 GB | 277.76 MB | 21d 1h 5m 24s | 7 | 2013/06/18 17:40:23 | <input type="checkbox"/> |
| 7 | EX2200_1 | default | 10.0.1.253 | 🟢 | 🟢 | 🟢 | 2 ms | 3 ms | - | - | - | 1.97 GB | 3.64 GB | 25d 2h 32m 43s | - | 2013/06/18 17:40:24 | <input type="checkbox"/> |
| 8 | EX2200_2 | default | 10.0.1.252 | 🟢 | 🟢 | 🟢 | 3 ms | 4 ms | - | - | - | 3.22 GB | 1.90 GB | 25d 2h 33m 4s | - | 2013/06/18 17:40:25 | <input type="checkbox"/> |
| 10 | DSLAM#3 | dslam | 10.0.1.3 | 🔴 | 🔴 | 🔴 | - | - | - | - | - | - | - | - | - | - | <input type="checkbox"/> |
| 11 | DSLAM#2 | dslam | 10.0.1.2 | 🔴 | 🔴 | 🔴 | - | - | - | - | - | - | - | - | - | - | <input type="checkbox"/> |
| 12 | DSLAM#1 | dslam | 10.0.1.1 | 🔴 | 🔴 | 🔴 | - | - | - | - | - | - | - | - | - | - | <input type="checkbox"/> |
| 9 | | | | | | | | | | | | 12.16 GB | 12.12 GB | | 17 | | <input type="checkbox"/> |

- ▶ EnGenius Access Points (1) are exclusively compatible with IBSG, that means you can change its configuration such as *Channel*, *Tx Power*, *SSID Name*, *SSID Security* and *Isolation* through IBSG device configurator without entering each device web-interface after deployed

(3) Monitoring

System, Users and Devices

Device configurator

- ▶ You can configure supported EnGenius Access point, by selecting devices(1) in 'status-device' tab and click button (2)

| IP Address | 15 m | 10 m | 5 m | Min RTT | Max RTT | SSID | Channel | Tx Power | ↓Transferred | ↑Transferred | Uptime | Client | Last seen | |
|------------|------|------|-----|---------|---------|-----------|---------|-----------------|--------------|--------------|----------------|--------|---------------------|-------------------------------------|
| 10.0.1.241 | ● | ● | ● | 0 ms | 0 ms | NVK_Staff | Auto | 20 dBm (100 mW) | 1.27 GB | 1.07 GB | 77d 9h 12m 43s | 2 | 2013/06/18 18:21:37 | <input checked="" type="checkbox"/> |
| 10.0.1.242 | ● | ● | ● | 0 ms | 0 ms | NVK_Staff | Auto | 20 dBm (100 mW) | 3.48 GB | 3.61 GB | 5d 4h 57m 45s | 2 | 2013/06/18 18:21:37 | <input checked="" type="checkbox"/> |
| 10.0.1.243 | ● | ● | ● | 0 ms | 0 ms | NVK_Staff | Auto | 20 dBm (100 mW) | 547.88 MB | 1.91 GB | 77d 9h 12m 42s | 1 | 2013/06/18 18:21:37 | <input checked="" type="checkbox"/> |
| 10.0.1.244 | ● | ● | ● | 0 ms | 0 ms | NVK_Staff | Auto | 20 dBm (100 mW) | 1.78 GB | 300.56 MB | 21d 1h 43m 31s | 1 | 2013/06/18 18:18:30 | <input checked="" type="checkbox"/> |
| 10.0.1.253 | ● | ● | ● | 2 ms | 4 ms | - | - | - | 2.30 GB | 1.41 GB | 25d 3h 10m 50s | - | 2013/06/18 18:18:31 | <input checked="" type="checkbox"/> |
| 10.0.1.252 | ● | ● | ● | 2 ms | 4 ms | - | - | - | 2.33 GB | 3.93 GB | 25d 3h 11m 10s | - | 2013/06/18 18:18:31 | <input checked="" type="checkbox"/> |
| 10.0.1.3 | ● | ● | ● | - | - | - | - | - | - | - | - | - | - | <input checked="" type="checkbox"/> |
| 10.0.1.2 | ● | ● | ● | - | - | - | - | - | - | - | - | - | - | <input checked="" type="checkbox"/> |
| 10.0.1.1 | ● | ● | ● | - | - | - | - | - | - | - | - | - | - | <input checked="" type="checkbox"/> |
| | | | | | | | | | 11.69 GB | 12.21 GB | | | 6 | <input type="checkbox"/> |

1

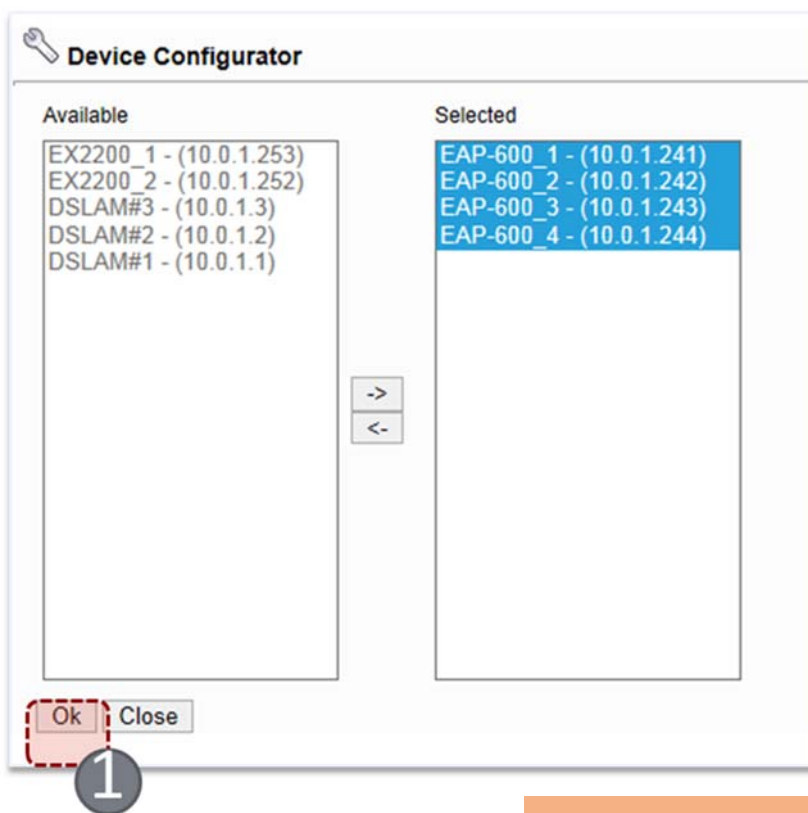
2

(3) Monitoring

System, Users and Devices

Device configurator

- ▶ Once configurator window appear, only supported device will be selected, you can proceed by click ok(1) button



- ▶ Unlike *EnGenius EZ-Controller* *iBSG* supported most of obsoleted EnGenius AP and can deploy configuration to different model/platform at once

(3) Monitoring

System, Users and Devices

Device configurator

- ▶ You have to select combo box(1) in front of parameters that would like to change and change it to desired value (2) then click at 'deploy' button

The screenshot shows a web-based configuration interface for a device. It is divided into several sections:

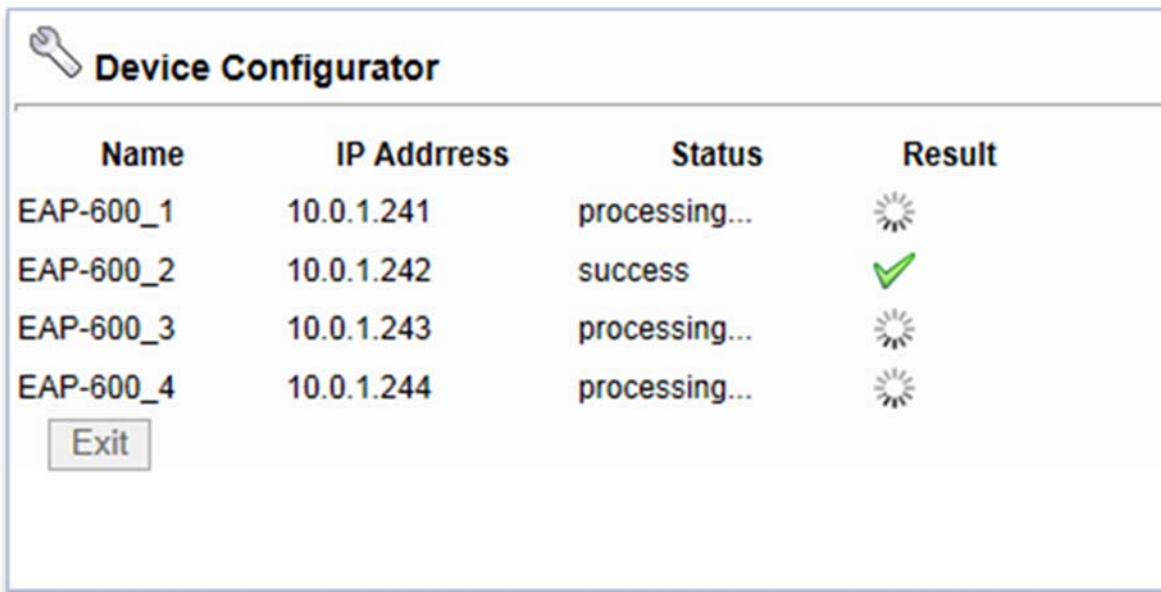
- Maintenance:** Contains a checkbox for 'Reboot'.
- 2.4Ghz Radio:** Contains two checkboxes. The first checkbox is checked and highlighted with a red dashed box and a callout '1'. Below it are two dropdown menus: 'Channel/Frequency' (set to 'Ch7-(2.442)') and 'Transmit Power' (set to '22 dBm (158 mW)'). These two dropdowns are also highlighted with a red dashed box and a callout '2'.
- 5Ghz Radio:** Contains two checkboxes and two dropdown menus. The first dropdown is set to 'Auto'.
- 2.4Ghz SSID:** Contains a table of settings for the SSID. The first row is checked and has the following values: Name: 'NVK_Staff', Hide (not broadcast): 'disabled', Authen/Encrypt: 'WPA2 PSK (AES)', Key/Passphrase: (empty), Isolation (L2 isolation): 'enabled', VID: '1'.

(3) Monitoring





System, Users and Devices

Device configurator

- ▶ It will now proceed configuration deploy to all selected AP



The screenshot shows a window titled "Device Configurator" with a wrench icon. It contains a table with four columns: Name, IP Address, Status, and Result. The table lists four APs: EAP-600_1, EAP-600_2, EAP-600_3, and EAP-600_4. The status for EAP-600_1, EAP-600_3, and EAP-600_4 is "processing...", while EAP-600_2 is "success". The result column shows a loading spinner for "processing..." and a green checkmark for "success". An "Exit" button is located at the bottom left of the table area.

| Name | IP Address | Status | Result |
|-----------|------------|---------------|---|
| EAP-600_1 | 10.0.1.241 | processing... |  |
| EAP-600_2 | 10.0.1.242 | success |  |
| EAP-600_3 | 10.0.1.243 | processing... |  |
| EAP-600_4 | 10.0.1.244 | processing... |  |

Exit

- ▶ Some AP will automatically reboot once configuration changed, depends on AP platform and model

(3) Monitoring

System, Users and Devices

Device configurator

► **EnGenius Access Point Configuration Compatibility Chart (EAPCCC)**

| Model | Compliance | Reboot | 2.4 Ghz Radio | | 2.4Ghz SSID | | | | | 5 Ghz Radio | | 5Ghz SSID | | | | |
|----------------------|------------|--------|---------------|---------|-------------|-----------|----------|-----------|-----|-------------|---------|-----------|-----------|----------|-----------|-----|
| | Firmware | | Tx Power | Channel | Name | Broadcast | Security | Isolation | VID | Tx Power | Channel | Name | Broadcast | Security | Isolation | VID |
| EOC-1650 | 1.3.1 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| EOC-2610 | 1.3.1 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| ECB-3500 | 1.3.4 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| EAP-3660 | 1.3.4 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| EOC-2611P | 1.3.1 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| EOC-5510 | 1.3.1 | Y | - | - | - | - | - | - | - | Y | Y | Y | Y | Y | Y | Y |
| EOC-5610 | | | | | | | | | | | | | | | | |
| EOC-5611P | | | | | | | | | | | | | | | | |
| M35 | 2.2.1 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| M36 | 2.2.1 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| M2000 | 2.2.1 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| M5000 | | | | | | | | | | | | | | | | |
| ECB-9500 | 2.3.2 | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - | - | - |
| EAP-9550 | 1.3.2 | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - | - | - |
| ECB-150/300 | 1.1.4 | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - | - | - |
| EAP-150/300 | 1.3.4 | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - | - | - |
| ENH-200 | 1.1.13 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| ENH-200EXT | 1.1.13 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| ENH-210EXT | 1.1.13 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| ERA-150 | 1.2.1 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| ENS-200 | 1.3.0 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| ENS-202 | 1.3.1 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| ENS-202EXT | 1.3.1 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| ECB-350 | 1.1.13 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| EAP-350 | 1.1.13 | Y | Y | Y | Y | Y | Y | Y | Y | - | - | - | - | - | - | - |
| ENH-500 | 1.1.11 | Y | - | - | - | - | - | - | - | Y | Y | Y | Y | Y | Y | Y |
| ENS-500 | 1.3.1 | Y | - | - | - | - | - | - | - | Y | N/C | Y | Y | Y | Y | Y |
| ENS-500EXT | 1.3.1 | Y | - | - | - | - | - | - | - | Y | N/C | Y | Y | Y | Y | Y |
| EAP-600 | 1.2.9* | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| ENH-700EXT | 1.2.2 | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |

| Legends | |
|---------|--------------------|
| Y | Compatible |
| N/C | Not Compatible Yet |
| - | Not Applicable |
| * | Private Firmware |

(4) Customization

Portal

▶ Portal

(4) Customization

Portal

Portal

- ▶ iBSG portal files come with 5 different pages
 - Login – this page will show when user try to access the internet
 - Login Success – this page will show when user successfully logged-in
 - Login Fail – this page will show when user fail to login
 - Logout – this page will show when user successfully logged-out
 - Online – this page will show when user accidently access iBSG LAN IP while still logged-in the system

(4) Customization

Portal

Portal



Please login

Loginname:

Password:

Remember Me


Announcement

Announcement message here

Contact

Contact information here

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Login successfully

Welcome to Internet Service, You can type 'logout.' in address bar and hit enter to logout.

Policy/Package: staff

Time remain: ∞

Time quota: ∞

Transfer remain: ∞

Transfer quota: ∞

Valid/Expire date: ∞

© 2013 N.V.K.INTER.CO.,LTD



Login Error

Loginname or Password is invalid! (1)

© 2013 N.V.K.INTER.CO.,LTD



Logout status

Successfully logged out.

You have logged-in for '2m 32s'

© 2013 N.V.K.INTER.CO.,LTD



You are currently online

Please hit 'close' to close this window or click 'logout' to logout.

© 2013 N.V.K.INTER.CO.,LTD

(4) Customization

Portal

Portal

Pages & Messages

Page encoding: UTF-8*

Title: Hotspot Service

Login: login.html

Announce: `<p>Announcement text here</p>
<!-- <p>Please download anti-netcut script <a href="anti-`

Contact: `<p>Contact information here</p>`

Login success: login_success.html

Message (Welcome): `Welcome to Hi-Speed internet, You can type 'logout.' in address bar and hit enter to`

Message (Check): `Internet usage history is available here`

Login fail: login_fail.html

Logout: logout.html

Online: online.html

Message (Online): `Please hit 'close' to close this window or click 'logout' to logout.`

Iden registration: iden_regis.html

Message (Register): `<p>Please complete above registration form to continue using this service.<p><p>We may`

Footer: © 2013 NETFINETWORK


Default URL: http://www.google.com Force redirect
















- ▶ Each portal file have different static messages, you can easily change it in 'pages & message' section in 'manage-portal' tab
- ▶ All portal file are standard HTML+CSS file, you can practically modify or change it completely to match with your customer needs

(4) Customization

Portal

Portal

- ▶ You can upload new portal file by accessing to 'Portal file manager' section in 'manage-portal' tab and click at  button(1)

| | Name | Directory | Size | Time | |
|---|---------------------|-----------|-----------|---------------------|--------------------------|
|  | login_fail.html | | 1.57 KB | 2013-05-26 13:56:51 | <input type="checkbox"/> |
|  | logout.html | | 1.68 KB | 2013-05-26 13:56:51 | <input type="checkbox"/> |
|  | login.html | | 3.03 KB | 2013-05-26 13:56:51 | <input type="checkbox"/> |
|  | online.html | | 2.01 KB | 2013-05-26 13:56:51 | <input type="checkbox"/> |
|  | login_success.html | | 2.52 KB | 2013-05-26 13:56:51 | <input type="checkbox"/> |
|  | iden_regis.html | | 5.79 KB | 2013-05-26 13:56:51 | <input type="checkbox"/> |
|  | theme.css | | 1.32 KB | 2013-05-26 13:56:51 | <input type="checkbox"/> |
|  | extra_pages.zip | /bin | 7.55 KB | 2013-05-26 13:56:51 | <input type="checkbox"/> |
|  | shadow.png | /images | 111 B | 2013-05-26 13:56:51 | <input type="checkbox"/> |
|  | favicon.ico | /images | 24.62 KB | 2013-05-26 13:56:51 | <input type="checkbox"/> |
|  | reddot.gif | /images | 40 B | 2013-05-26 13:56:51 | <input type="checkbox"/> |
|  | leftlogo.jpg | /images | 12.73 KB | 2013-05-26 13:56:51 | <input type="checkbox"/> |
|  | toplogo.jpg | /images | 15.17 KB | 2013-06-18 13:08:02 | <input type="checkbox"/> |
|  | toplogo_small.jpg | /images | 7.10 KB | 2013-06-18 13:08:02 | <input type="checkbox"/> |
|  | jquery-1.5.2.min.js | /script | 83.93 KB | 2013-05-26 13:56:51 | <input type="checkbox"/> |
| | | | 169.15 KB | | <input type="checkbox"/> |

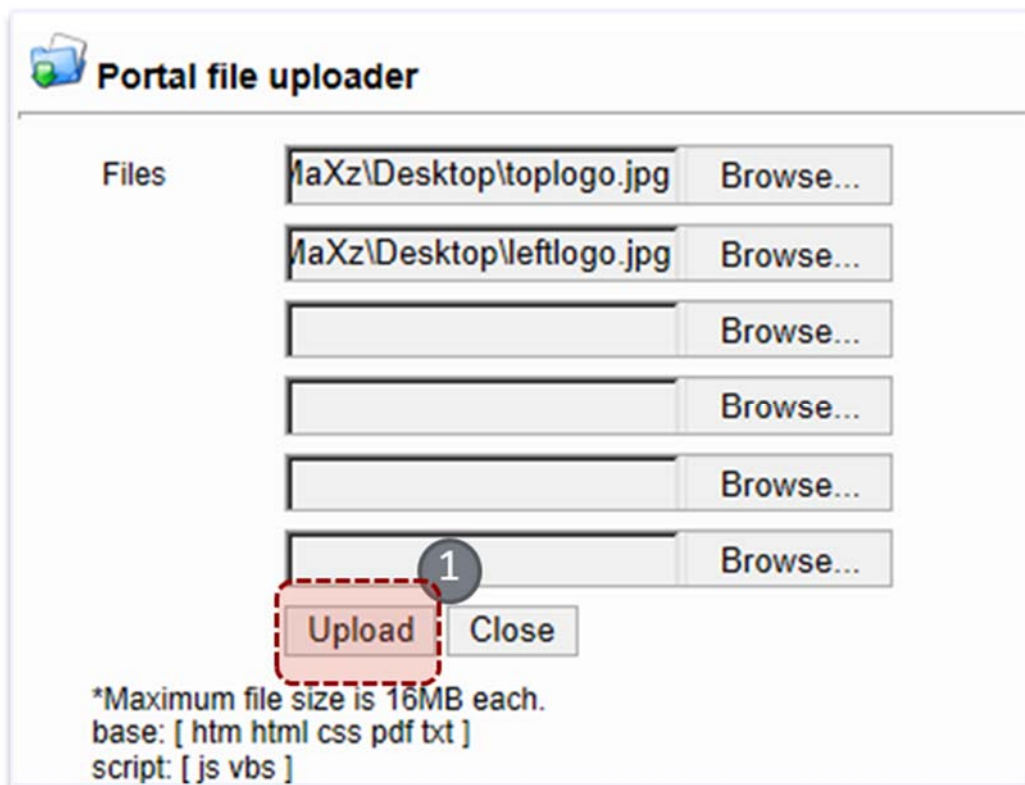


(4) Customization

Portal

Portal

- ▶ Select file to upload then click upload button(1) if file upload file-name already exist system will overwrite existing file with newly uploaded



- ▶ Example
if you wish to change only logos, please named your logo files with 'toplogo.jpg' and 'leftlogo.jpg' then upload it

(4) Customization

Portal

Portal

- ▶ These are portals that were customized by some of our customer

