# iBSG 3.5/Thebox

# Basic configuration guide



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# Topics

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- Installation
  - Software VS. The box
  - License activation\*
- Configure
  - Steps
    - Internet connectivity
    - Policy setup
    - Account creation
    - Device monitor

- Client access
  - Login, Logout
- Cloud service
  - Monitor, Events, Maintenance



# Introduction PRODUCT TYPE



# Product type

• Software



## • Appliance (The box)



Installation

# SOFTWARE VS. THE BOX





# Download

ImgBurn

		ľ	File View Mode Tools Help			
	,		Source C:\\IBSGLITE_V3.5_17B_[A4582CDC].ISO	<u>a</u> &		
Index of /downloa	I <b>CI</b> Last modifi	<u>ed Size De</u>	Label: CDROM Imp ID: Unknown File Sys: ISO9660 (Bootable), Joliet			
Parent Directory DOCS/ IBSGLITE V3.5 17B [A4582C	11-Feb-2015 2 DC].ISO 06-Mar-2015 2	-	Sectors: 170,965 (MODE1/2048) Size: 350,136,320 bytes Time: 38:01:40 (MM:SS:FF)	00		
2 0% of IBSGLITE_V3.5_17B_[A4582CDC].ISO	downloaded		tination			
View and track your downloads	Search	n downloads	No Writers Detected!			
Name	Location	Actions	Test Mode Venty			
IBSGLITE_V3.5ISO 333 MB sniffier.com	Desktop 0% at 129 KB/sec	Pause		-		
	43 min 50 sec remaining				Settings	_
					Write Speed:	12x
					Copies:	1
			No Writers Detected!			

- 1. Download installation image at https://ibsg.nvk.co.th/download/
- 2. Burn ISO installation image to CD/DVD ROM

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- 2. Press enter
- 3. Wait for installation to complete



# Activate

Membe	er Access			Add new license				Activate license				×
							Please spe	e specify both server name and request key to proceed software a			y	
Login	Register			s First Generatio	CI	10000000	Server name	my new server				
		1	support@nvk.co.th	License capacity w	ill be changed to Level 0 (150 User- rization code in this format: ibsg_xoood	Concurrent) cx:password			Request Key	1A433ADE42C70903 D5E52583197158D8 BEE44E94F657D0D8 E0CC6BA9F3BC356	937EF 36E16 131C9	
		•	••••••	150b8f06dabb	uthorization code to proceed.	×				CDAA2EE50C26BE4 61DEABD280E8F550 26DEAADB4E4D64E 996EE9F003031	650FC 3D6FF DCAF4 11820	
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								Lie	cense ID	150b8f06dabb		$\overline{}$
								Me	ember	support	TD	
								Se	erver	my new server	.10.	
								Ca	apacity	150 - (Base)		
								Iss	sue	2015/02/01 7:13 pm		
								Ex	kpire	80		
								Re	enewal	2015/02/16 7:13 pm	(14 Day 23 Hr 59 Min 4	7 Sec)
	1	nai	in to membe	r nortal a	nt					Renew		
		og			portar at				ation Informati	on		
	h	ttp	s://ibsg.nvk.c	co.th/mer	o.th/member							
	<u> </u>											
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	ς Δ	ctiv	vate license									
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# Configure steps

## Internet connectivity

Policy setup

Account creation

**Device monitor (optional)** 



Configure

# INTERNET CONNECTIVITY



## Management access

🔀 Administration zone.		
Lo	oginname	admin
P	assword	•••••
D	uration	End of session V
		Login Clear
	©2013 by N.V.K.	INTER CO.,LTD v3.5-17beta

- 1. Access to http://192.168.2.254/manage/
- 2. Default credential is admin / admin123



## Internet connectivity

• Single WAN



• Multi WAN





# Internet connectivity (cont)

### Network - Basic

Status Report Manag	ge Monitoring Net	vork						
Basic DHCP DDNS	Pro Status Re	port Manage	Monitoring	Network				
WAN / Internet	Basic DH	ICP DDNS	Proy Status	Report	Manage	Monitor	ing Net	twork
Connection Type DHCP V Static DNS	Connection Type	Static 192.168.16.129	Basic WAN / Inte Connection	DHCP ernet In Type PP		Proxy	Firewall	Con
MTU 1500 MSS Clamp	Submet Mask Gateway Static DNS	255.255.255.0 192.168.16.254	Authentica Service N Static DN:	ation Aut				
	MTU MSS Clamp	1500	мти	149	12			
			MSS Clan Kernel Mo Alternate	np 🗹 ode 🗹 Link Check 🗸				

- 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



# Internet connectivity (cont)

### **Diagnostic - Ping**

Sta	tus Report	Manage	Monitoring	Netwo	rk	Admin	System	Diagnostic					
A	RP DHCP	Ping	Ггасе										
	Address	Interf	ace Size (bytes) Co	ount									
www.google.com V 32 3 Ping													
ing r	esult												
#	Address		RX Bytes	TTL		RTT (ms)							
1	61.19.2.29	40		55	2.44								
2	61.19.2.29	40		55	2.15								
~	61 19 2 29	40		55	2.22								

✓ Testing internet connection between iBSG and internet



# Configure POLICY SETUP



# Policy setup

### Manage - Policy

Policy	Account	Identity	Portal	Passthrough	Walled Garden	Webfilter	WSI					
Policies												
No policy defined.												
									⊕ <b>/</b> =			

- 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



# Policy setup (cont)

### Manage - Policy

Id	0	
Name	30hr_in	_3days
State	Active	e O Inactive
Identity	ORequ	ired  None
Туре	OPost	oaid
Price Rate	399	
Datarate DN/UP	1520	256 Kbp
Transfer Quota	0	Megabyte 🗸
Daily Usage Time	0	Minute 🗸
Weekly Usage Time	0	Minute 🗸
Monthly Usage Time	0	Minute 🗸
Usage Time	30	Hour 🗸
Valid Period	3	Day 🗸
Idle Timeout	0	(minutes)
Comment		
Build Date	2013-06	6-16
Build By	admin	

- Example 1
  - Policy name: 30hr\_in\_3days
    Data rate: 1.5Mbps / 256Kbps
    Usage time: 30 Hours
    Validity period 3 Days

•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



# Policy setup (cont)

### Manage - Policy

📥 Add / Edit							
Id	0						
Name	nolimit_3days						
State	Active     Inactive						
Identity	O Required   None						
Туре	O Postpaid						
Price Rate	299						
Datarate DN/UP	0 0 Kbps						
Transfer Quota	0 Megabyte 🗸						
Daily Usage Time	0 Minute 🗸						
Weekly Usage Time	0 Minute V						
Monthly Usage Time	0 Minute V						
Usage Time	0 Hour 🗸						
Valid Period	3 Day 🗸						
Idle Timeout	0 (minutes)						
Comment							
Build Date	2013-06-16						
Build By	admin						
	Add						

•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



# Configure ACCOUNT CREATION



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 Image: Construction of the second second

## Account creation

### Manage - Account

Status	Report	Manage	Monitoring	Network	Admin	System	Diagnost	ic Hel	p Logout	
Policy	Account	Identity	Portal	Passthrough	Walled Garde	en V	Vebfilter	WSI		
Log	in	Policy	Expire (Y/M/D)	Build (Y/M/D)	Comment	Sea	rch Type mixed	· ~		
		~				Re	eset Searc	h		
A Accounts										
	<b>000</b>									
										+ + + +
	avada / Palik									

#### •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



## Account creation (cont)

### Manage - Account

Id	0	
Sold Now	No	OYes
State	<ul> <li>Active</li> </ul>	○ Inactive
Policy	30hr_in_3days	$\checkmark$
Login	acc1	
Password	1234	Hide
MAC		
Host		
Datarate DN/UP	0 0	Kbps Override
Maximum Login	1	
Expire Date (Y M D)	2014 01	01 Not Expire
Comment		
Build Date	2013-06-16	
Build By	admin	

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



# Configure DEVICE MONITOR



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## **Device monitor**

### **Monitoring - Device**

#▲	Name	Group	IP Address	MAC Address	Mode
1	EAP-600_1	default	10.0.1.241	00	EAP-600
2	EAP-600_2	default	10.0.1.242	00	EAP-600
3	EAP-600_3	default	10.0.1.243	00	EAP-600
4	EAP-600_4	default	10.0.1.244	00	EAP-600
7	EX2200_1	default	10.0.1.253	00	Generic
8	EX2200_2	default	10.0.1.252	00	Generic
10	DSLAM#3	dslam	10.0.1.3	00	Generic
11	DSLAM#2	dslam	10.0.1.2	00	Generic
12	DSLAM#1	dslam	10.0.1.1	00	Generic
9/9					

• iBSG has build-in SNMP device monitoring feature, you can add any ip-enabled-device







## Device monitor (cont)

### Status - Device

#### 🥪 Device Status

#▲	Name	Group	IP Address	15 m	10 m	5 m	Min RTT	Max RT	T SSID	Channel	Tx Power	↓Transfered	<b>↑Transfered</b>	Uptime	Client	Last seen	T
1	EAP-600_1	default	10.0.1.241	$\bigcirc$	$\bigcirc$	$\bigcirc$	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	✓
2	EAP-600_2	default	10.0.1.242	$\bigcirc$	$\bigcirc$	$\bigcirc$	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	
3	EAP-600_3	default	10.0.1.243	$\bigcirc$	$\bigcirc$	$\bigcirc$	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	
4	EAP-600_4	default	10.0.1.244	$\bigcirc$	$\bigcirc$	$\bigcirc$	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	
7	EX2200_1	default	10.0.1.253	$\bigcirc$	$\bigcirc$	$\bigcirc$	2 ms	3 ms	<b>`</b>	-	-	1.97 GB	3.64 GB	25d 2h 32m 43s	*	2013/06/18 17:40:24	
8	EX2200_2	default	10.0.1.252	$\bigcirc$	$\bigcirc$	$\bigcirc$	3 ms	4 ms	-	-	-	3.22 GB	1.90 GB	25d 2h 33m 4s	-	2013/06/18 17:40:25	
10	DSLAM#3	dslam	10.0.1.3	9	$\Theta$	0	-	-	-	-	-	-	-	-	-	-	
11	DSLAM#2	dslam	10.0.1.2	9	$\Theta$	$\Theta$	-	-	-	-	-	-	-	-	-	-	
12	DSLAM#1	dslam	10.0.1.1	9	$\Theta$	$\Theta$	-	-	-	-	-	-	-	-	-	-	
9												12.16 GB	12.12 GB		17		

•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 NetFi device configurator without entering each device web-interface after deployed



## **Device monitor**

#### Status - Device Maintenance Reboot 2.4Ghz Radio Nevice Configurator Channel/Frequency Ch7-(2.442) 🗸 22 dBm (158 mW) 🗸 Transmit Power Available Selected EX2200\_1 - (10.0.1.253) EX2200\_2 - (10.0.1.252) DSLAM#3 - (10.0.1.3) 5Ghz Radio Channel/Frequency DSLAM#2 - (10.0.1.2) DSLAM#1 - (10.0.1.1) Transmit Power 2.4Ghz SSID Enabled **√** #1 NVK\_Staff Name -> disabled V Hide (not broadcast) <-Authen/Encrypt WPA2 PSK (AES) Key/Passphrase Isolation (L2 isolation) enabled 🗸 VID 1 Solution Configurator Ok Close **IP Addrress** Name Status Result Nº Nº EAP-600\_1 10.0.1.241 processing ... EAP-600\_2 10.0.1.242 $\checkmark$ SUCCESS X EAP-600\_3 10.0.1.243 processing ... Nº Nº EAP-600\_4 10.0.1.244 processing ... Exit



Client access

# LOGIN,LOGOUT



## **Client access**

• Login



## **Client access**

• Logout





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# Monitor



# Events

Overview	Events						
Events 4	Show 15 entries					Search:	
Servers	# 🔶 Time	Server	Source	Event	Severity	Status	÷.
Profile	1 14/03/2015 - 03:31:18	Devel@Office	REMOTE	Server started	INFO		¢
FIONE	4 13/03/2015 - 11:45:27	Devel@Home	REMOTE	Server started	INFO	<b>•</b>	\$
	3 13/03/2015 - 11:44:31	Devel@Home	REMOTE	Server halt	INFO		¢
	2 13/03/2015 - 11:41:21	Devel@Home	REMOTE	Server started	INFO		\$
		-		-		Previo	nus 1 Next math Remove All
nvk						N.V.K. Ƴ @n ff fac ₩ ww	INTER CO., LTD. vkwireless ebook.com/nvkinter w.nvk.co.th

# Maintenance

### 

Servers

Overview

+ Events

E Servers

Licenses

Profile

001	1010						
Show	15 entries					Search:	
#	÷ Name	Uptime	IP Address	Version	Clients/Capacity	Last Seen	\$
8	Sirisin35 <del>↓</del>	6d 4h 26m 51s	110.171.170.208 -	3.5-17beta	45/200	3m 19s	
7	U-Place -	6d 4h 28m 15s	183.89.147.151 -	3.5-17beta	100/200	1m 37s	
6	Devel@VMx -	1h 26m 39s	180.183.117.184 -	3.5-17beta	0/500	5d U-Place	
5	2014-0269 (Pacific A) -	9d 19h 48m 39s	61.90.175.2 -	3.5-17beta	0/150	345	
4	2014-0161 (The Kump I)+	3d 15h 21m 57s	61.91.41.62 -	3.5-17beta	3/150	285	dmin
3	2013-0075 (The Kump G)-	10d 1h 6m	61.91.37.154-	3.5-17beta	0/1000	3m 40s	
2	Devel@Home -	1d 10m 59s	49.49.251.36-	3.5-17beta	0/150	4m 51s	
1	Devel@Office -	8h 25m 39s	110.78.162.42 -	3.5-17beta	0/150	4m 29s	
8					148		

Previous

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