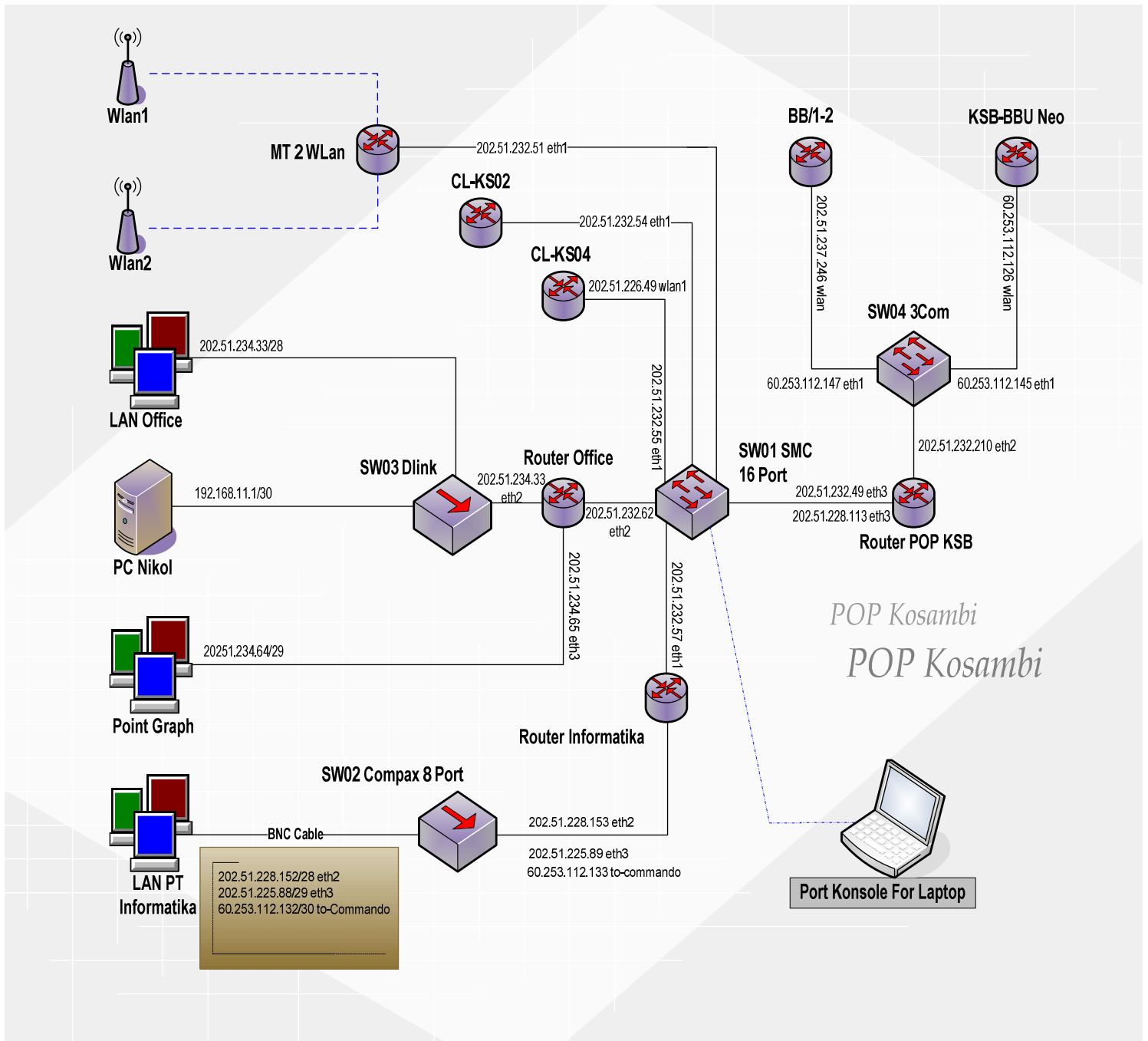
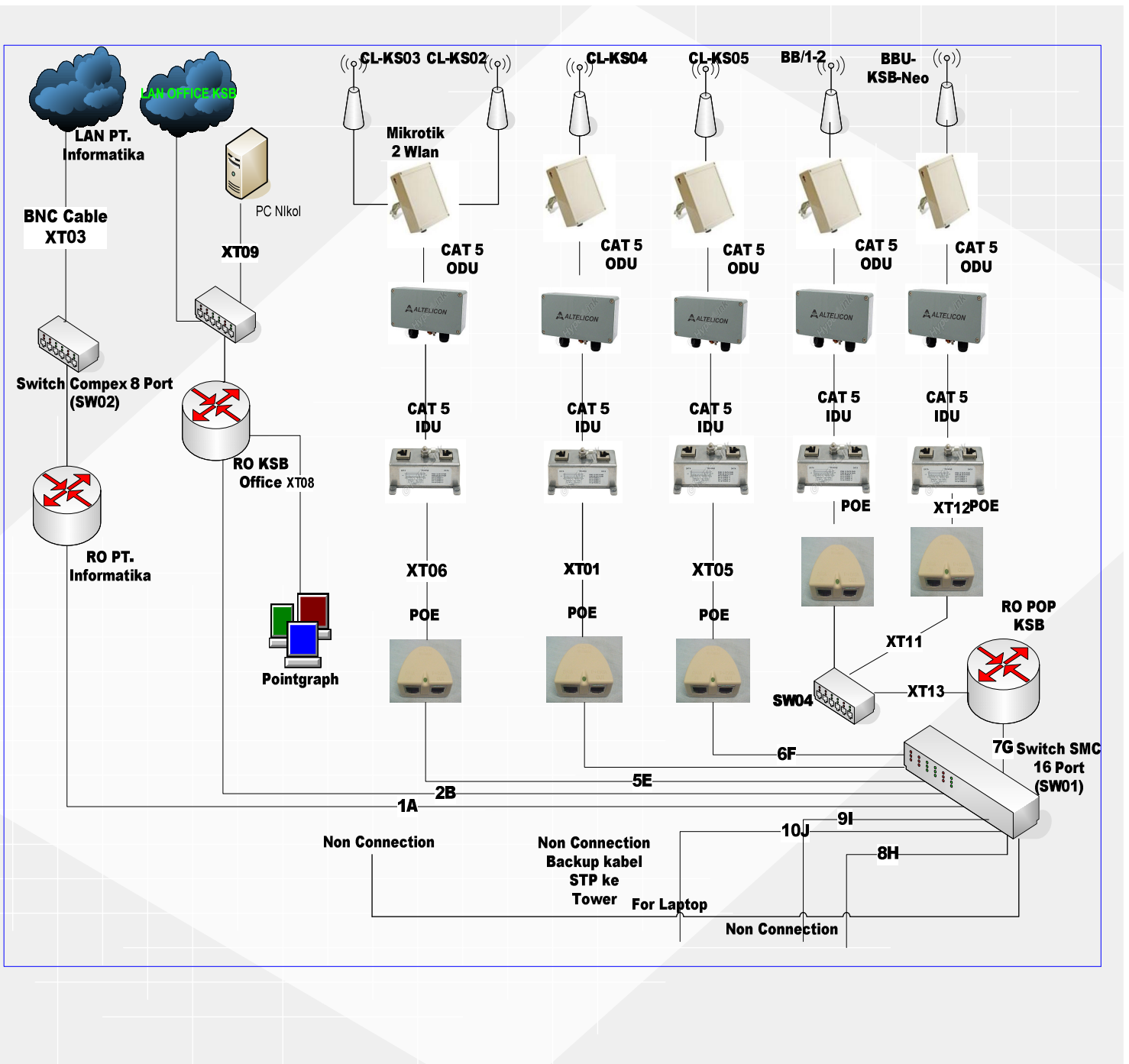


3. AS BUILD DRAW

3.1. Topologi Logic



3.2. Topologi Fisik



4. DESKRIPSI GAMBAR

Kode	Deskripsi
SW01	Switch SMC 16 Port
SW02	Switch Compex 8 Port
SW03	Switch Dlink 8 Port
SW04	Switch 3Com 8 Port
1A	Kabel RO PT. Informatika to SW01
2B	Kabel RO KSB Office to SW01
3C	Kabel SW01 for Laptop
4D	Kabel Backup POE Ke SW01
5E	Kabel MT 2 Wlan (CL-KS03 & CL-KS05) to SW01
6F	Kabel MT CL-KS02 to SW01
7G	Kabel RO POP KSB to SW01
8H	Kabel SW01 to Non Connection
9I	Kabel SW01 to Non Connection
10J	Kabel SW01 to Non Connection
XT01	Kabel MT CL-KS04 to SW01
XT02	Kabel RO PT. Informatika to SW02
XT03	Kabel BNC SW02 to LAN Informatika
XT04	Kabel CAT 5 IDU to POE RO POP KSB
XT05	Kabel CAT 5 IDU to POE MT CL-KS02
XT06	Kabel CAT 5 IDU to POE MT 2 Wlan (CL-KS03 & CL-KS05)
XT07	Kabel CAT5 IDU to POE Back UP
XT08	Kabel RO KSB Office to SW03
XT09	Kabel Pcuser Nicol to SW03
XT10	Kabel dari SW04 ke POE injektor backbone KSB-BBU
XT11	Kabel dari SW04 ke POE KSB-BBU NEO
XT12	Kabel dari POE ke CAT 5 indoor KSB-BBU NEO
XT13	Kabel dari SW04 Ke router POP KSB

5. IP ADDRESS PERANGKAT

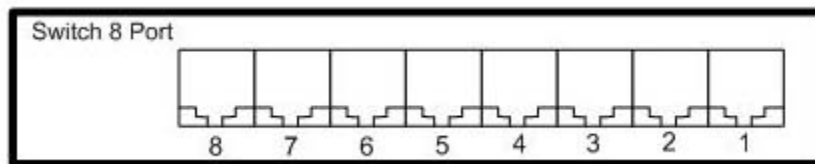
LIST IP ADDRESS PERANGKAT

Perangkat	IP Address	Interface	Deskripsi
MT BB/1-2	60.253.112.147/29	ether1	to BBU
	202.51.237.246/30	wlan1	to BBU
MT KSB-BBU Neo	60.253.112.145/29	ether1	to BBU
	60.253.112.126/30	wlan1	to BBU
MT CL-KS02	202.51.232.54/28	ether1	
		wlan1	to Harmoni
MT CL-KS04	202.51.232.55/28	ether1	
	202.51.226.49/29	wlan1	to Universal Travel
MT 2 Wlan	202.51.232.51/28	ether1, wlan1	to Brothers
	202.51.232.51/28	ether1, wlan2	to Double Lynk
RO POP KSB	202.51.228.113/28	ether3	to SW01
	202.51.232.49/28	ether3	to SW01
	202.51.232.210/30	ether2	to SW04
RO OFFICE KSB	202.51.232.62/28	ether1	to SW01
	202.51.234.33/28	ether2	to LAN OFFICE KSB
	202.51.234.65/29	ether3	to PointGraph
RO PT. INFORMATIKA	202.51.232.57/28	ether1	to SW01
	202.51.228.153/29	ether2	to LAN INFORMATIKA
	202.51.225.89/30	ether3	to LAN INFORMATIKA

6. KONFIGURASI SWITCH

6.1. Switch04

Fungsi : Untuk menghubungkan link backbone utama, link back-up dan Router POP Kosambi.
Merk : 3Com
Jumlah : 8 Port
Kode : SW04
Tanggal Revisi : 3-Sept-2008
Lokasi : POP Kosambi



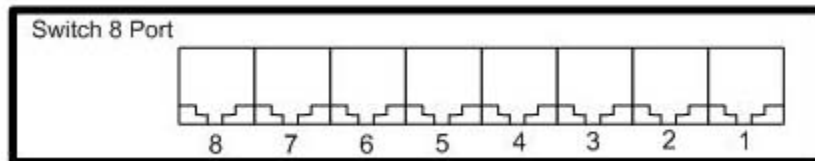
Keterangan :

1	NC	NC
2	NC	NC
3	NC	NC
4	NC	NC
5	NC	NC
6	XT11	Radio MT Ksb-BBU Neo
7	XT13	Router POP KSB (Eth2)
8	XT10	Radio MT BB/1-2

NC : No Connection

6.2. Switch03

Fungsi : Untuk menghubungkan Router Office Ksb dengan LAN Kosambi dan PC User(Nicol)
Merk : D-Link
Jumlah : 8 Port
Kode : **SW03**
Tanggal Revisi : 3-Sept-2008
Lokasi : POP Kosambi



Keterangan :

Port	Kode Kabel	Terhubung
1	NC	NC
2	NC	NC
3	XT09	PC User (Nicol)
4	XT08	Router Office KSB (Eth2)
5	XT14	LAN Kosambi (switch Lt4)
6	NC	NC
7	NC	NC
8	NC	NC

NC : No Connection

6.3. Switch02

Fungsi : Untuk menghubungkan router Informatika dan LAN Informatika/di B7(Hub ini diperlukan Port BNC nya karena antara router dan Lan Informatika masih menggunakan kabel BNC

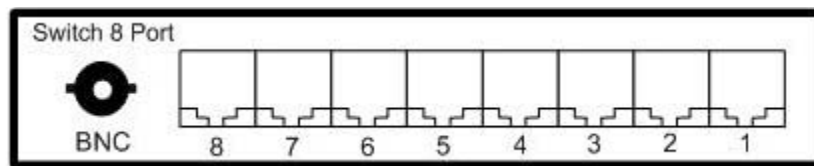
Merk : COMPEX type TP1008C

Jumlah : 8 Port

Kode : SW02

Tanggal Revisi : 3-Sept-2008

Lokasi : POP Kosambi



Keterangan :

Port	Kode Kabel	Terhubung
1	NC	NC
2	NC	NC
3	NC	NC
4	NC	NC
5	XT02	Router Informatika
6	NC	NC
7	NC	NC
8	NC	NC
BNC	XT03	LAN Informatika/di B7 (BNC kabel)

NC : No Connection

6.4. Switch01

Fungsi : Untuk menghubungkan router POP Kosambi dengan perangkat perangkat pelanggan berupa Radio Mikrotik, Mikrotik router Indoor dan router office kosambi.

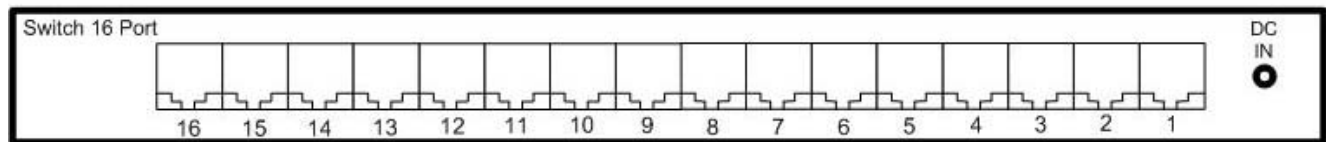
Merk : SMC

Jumlah : 16 Port

Kode : SW01

Tanggal Revisi : 3-Sept-2008

Lokasi : POP Kosambi









Keterangan :

Port	Kode Kabel	Terhubung
1	NC	NC
2	3C	Untuk Konfigurasi (notebook)
3	NC	NC
4	NC	NC
5	NC	NC
6	NC	NC
7	NC	Router Informatika (eth1)
8	NC	NC
9	NC	NC
10	NC	NC
11	NC	NC
12	2B	Router Office Ksb (eth1)
13	6F	Radio MT AP CL-KS02
14	7G	Router POP KSB (eth3)
15	5E	Radio MT AP CL-KS03/CL-KS05
16	4D	Radio MT AP CL-KS04

NC : No Connection

7. DAFTAR PERANGKAT/ ANTENNA

No	SSID	Coverage	Pelanggan	Antenna		
				Jenis Antenna	Spesifikasi	Gambar
1	CL-BB/1-2	Barat	Backbone to BBU	Flat Antenna 5.8 Ghz	Gain : 23 dBi Beam Width : 11	
2	BBUKOSAMSAM	Barat	Backbone to BBU	Integrated Antenna 5.8 Ghz	Gain : 19 dBi	
3	CL-KS02	Timur	Harmoni	Grid Antenna 2.4 Ghz	Gain : 24 dBi Beam Width : 8	
4	CL-KS04	Utara	Universal	Integrated Antenna 5.8 Ghz	Gain : 22 dBi Beam Width : 10	
5	CL-KS05	Selatan	Double Link	Grid Antenna 2.4 Ghz	Gain : 24 dBi Beam Width : 8	
6	CL-KS03	Selatan	Brother Net	Flat Pannel Antenna 5.8 Ghz	Gain :	

8. DETAIL KONFIGURASI

8.1. Office KSB

```

MikroTik v2.9.51
Login: admin
Password:

MMM      MMM      KKK      TTTTTTTTTTT      KKK
MMMM     MMMM     KKK      TTTTTTTTTTT      KKK
MMM MMMM  MMM  III  KKK  KKK  RRRRRR  000000  TTT      III  KKK  KKK
MMM  MM  MMM  III  KKKKK  RRR  RRR  000  000  TTT      III  KKKKK
MMM      MMM  III  KKK  KKK  RRRRRR  000  000  TTT      III  KKK  KKK
MMM      MMM  III  KKK  KKK  RRR  RRR  000000  TTT      III  KKK  KKK

MikroTik RouterOS 2.9.51 <c> 1999-2007      http://www.mikrotik.com/

Terminal ansi detected, using single line input mode
[admin@office-kosambil > interface print
Flags: X - disabled, D - dynamic, R - running
#  NAME      TYPE      RX-RATE  TX-RATE  MTU
0  R ether1   ether     0         0        1500
1  R ether2   ether     0         0        1500
2  R ether3   ether     0         0        1500
3  R bridge1  bridge    0         0        1500
4  R 2BBU     eoip-tunnel 0         0        1500
5  pptp-in1  pptp-in   0         0

[admin@office-kosambil > interface bridge print
Flags: X - disabled, R - running
0  R name="bridge1" mtu=1500 arp=enabled mac-address=00:00:5E:80:00:02 stp=no
   priority=32768 ageing-time=5m forward-delay=15s
   garbage-collection-interval=4s hello-time=2s max-message-age=20s
[admin@office-kosambil > ip address print
Flags: X - disabled, I - invalid, D - dynamic
#  ADDRESS      NETWORK      BROADCAST      INTERFACE
0  202.51.232.62/28  202.51.232.48  202.51.232.63  ether1
1  202.51.234.33/28  202.51.234.32  202.51.234.47  ether2
2  202.51.234.65/29  202.51.234.64  202.51.234.71  ether3
3  ;;; ptp Nikol  192.168.11.1/30  192.168.11.3  ether2
4  192.168.0.6/24   192.168.0.0    192.168.0.255  ether2
5  ;;; ;;HOSTPOT;  192.168.4.1/24  192.168.4.255  ether2
6  ;;; tes voip    60.253.118.33/30  60.253.118.35  ether2
[admin@office-kosambil > system routerboard print
   routerboard: yes
   model: "532A"
   serial-number: "0B8301D45DFE"
   current-firmware: "1.12"
   upgrade-firmware: "2.12"
[admin@office-kosambil >

```

8.2. POP Router

```
[admin@POP-KSB] > interface print
Flags: X - disabled, R - running, D - dynamic, S - slave
#   NAME                TYPE      MTU
0 X ether1              ether     1500
1 R ether2              ether     1500
2 R ether3              ether     1500
[admin@POP-KSB] > ip address print
Flags: X - disabled, I - invalid, D - dynamic
#   ADDRESS              NETWORK    BROADCAST  INTERFACE
0   202.51.228.113/28     202.51.228.112  202.51.228.127 ether3
1   202.51.232.49/28     202.51.232.48   202.51.232.63  ether3
2   60.253.112.146/29    60.253.112.144  60.253.112.151 ether2
[admin@POP-KSB] > system routerboard print
routerboard: no
[admin@POP-KSB] >
```

8.3. BB/1-2

```

Password:

MMM      MMM      KKK      TTTTTTTTTT      KKK
MMMM     MMMM     KKK      TTTTTTTTTT      KKK
MMM MMMM MMMM III KKK KKK RRRRRR 000000 TTT III KKK KKK
MMM MM  MMM III KKKKK RRR RRR 000 000 TTT III KKKKK
MMM     MMM III KKK KKK RRRRRR 000 000 TTT III KKK KKK
MMM     MMM III KKK KKK RRR RRR 000000 TTT III KKK KKK

MikroTik RouterOS 2.8.24 <c> 1999-2005      http://www.mikrotik.com/

Terminal ansi detected, using single line input mode
[barudax@5,2 Kosambil > interface print
Flags: X - disabled, D - dynamic, R - running
#  NAME      TYPE      RX-RATE  TX-RATE  MTU
0  R ether1   ether     0         0        1500
1  R wlan1    wlan      0         0        1500
[barudax@5,2 Kosambil > interface wireless print
Flags: X - disabled, R - running
0  R name="wlan1" mtu=1500 mac-address=00:01:24:70:56:A9 arp=enabled
   disable-running-check=no interface-type=Atheros AR5211
   radio-name="Kosambi and The Backbone" mode=station ssid="BB/1-2"
   frequency=5320 band=5ghz scan-list=default-ism rate-set=configured
   supported-rates-b=""
   supported-rates-a/g=6Mbps,9Mbps,12Mbps,18Mbps,24Mbps basic-rates-b=""
   basic-rates-a/g=6Mbps,9Mbps,12Mbps,18Mbps,24Mbps max-station-count=2007
   ack-timeout=dynamic tx-power=20 noise-floor-threshold=default
   periodic-calibration=disabled burst-time=disabled fast-frames=no
   dfs-mode=none antenna-mode=ant-a wds-mode=disabled
   wds-default-bridge=none wds-ignore-ssid=yes
   update-stats-interval=disabled default-authentication=yes
   default-forwarding=yes hide-ssid=no 802.1x-mode=none
   disconnect-timeout=3s on-fail-retry-time=100ms
[barudax@5,2 Kosambil > interface wireless registration-table print
# INT... RADIO-NAME      MAC-ADDRESS      AP SIGNAL... TX-RATE
0 wlan1 BBU-KSB          00:0B:6B:37:60:7A yes -51      24Mbps
[barudax@5,2 Kosambil > ip address print
Flags: X - disabled, I - invalid, D - dynamic
#  ADDRESS      NETWORK      BROADCAST      INTERFACE
0  202.51.237.246/30 202.51.237.244 202.51.237.247 wlan1
1  60.253.112.147/29 60.253.112.144 60.253.112.151 ether1
[barudax@5,2 Kosambil > system routerboard print
   routerboard: yes
   model: 220
   serial-number: 015F008AB179
   current-firmware: 1.3.4 <Feb/10/2005 15:36:44>
   upgrade-firmware: 1.3.4 <Feb/10/2005 15:36:44>
[barudax@5,2 Kosambil >

```

8.4. KSB-BBU Neo

```

[barudax@KSB-BBU-NEO] > interface print
Flags: D - dynamic, X - disabled, R - running, S - slave
#   NAME      TYPE      MTU
0   R ether1    ether     1500
1   ether2    ether     1500
2   ether3    ether     1500
3   R wlan1    wlan      1500
[barudax@KSB-BBU-NEO] > interface wireless print
Flags: X - disabled, R - running
0   R name="wlan1" mtu=1500 mac-address=00:0C:42:18:0F:50 arp=enabled
    interface-type=Atheros AR5413 mode=station ssid="BBUKOSAMSAM"
    frequency=5600 band=5ghz scan-list=default antenna-mode=ant-a
    wds-mode=disabled wds-default-bridge=none wds-ignore-ssid=no
    default-authentication=yes default-forwarding=yes default-ap-tx-limit=0
    default-client-tx-limit=0 hide-ssid=no security-profile=profile1
    compression=no
[barudax@KSB-BBU-NEO] > interface wireless registration-table print
# INTERFACE      RADIO-NAME  MAC-ADDRESS  AP  SIGNAL...  TX-RATE
0 wlan1          RB333 BBU-KSB  00:0C:42:18:0F:88  yes -63dBm... 18Mbps
[barudax@KSB-BBU-NEO] > ip address print
Flags: X - disabled, I - invalid, D - dynamic
#   ADDRESS      NETWORK      BROADCAST      INTERFACE
0   60.253.112.145/29  60.253.112.144  60.253.112.151  ether1
1   60.253.112.126/30  60.253.112.124  60.253.112.127  wlan1
[barudax@KSB-BBU-NEO] > system routerboard print
    routerboard: yes
    model: "333"
    serial-number: "154201C04E1D"
    current-firmware: "2.10"
    upgrade-firmware: "2.16"
[barudax@KSB-BBU-NEO] >

```

8.5. MT 2 Wlan

```
[barudax@MT 2 Wlan-KSB] > interface print
Flags: X - disabled, D - dynamic, R - running
#   NAME      TYPE      RX-RATE  TX-RATE  MTU
0   R ether1   ether     0         0        1500
1   X ether2   ether     0         0        1500
2   X ether3   ether     0         0        1500
3   R wlan1    wlan      0         0        1500
4   R wlan2    wlan      0         0        1500
5   R bridge1  bridge    0         0        1500

[barudax@MT 2 Wlan-KSB] > interface wireless print
Flags: X - disabled, R - running
0   R name="wlan1" mtu=1500 mac-address=00:0C:42:15:21:05 arp=enabled
    disable-running-check=no interface-type=Atheros AR5413
    radio-name="AP CL-KS03" mode=ap-bridge ssid="CL-KS03" area=""
    frequency-mode=manual-txpower country=no_country_set antenna-gain=0
    frequency=5240 band=5ghz scan-list=default rate-set=configured
    supported-rates-b="" supported-rates-a/g=6Mbps,9Mbps,12Mbps,18Mbps
    basic-rates-b="" basic-rates-a/g=6Mbps,9Mbps,12Mbps,18Mbps
    max-station-count=2007 ack-timeout=dynamic tx-power=22
    tx-power-mode=card-rates noise-floor-threshold=default
    periodic-calibration=default periodic-calibration-interval=60
    burst-time=disabled dfs-mode=none antenna-mode=ant-a wds-mode=disabled
    wds-default-bridge=none wds-default-cost=100 wds-cost-range=50-150
    wds-ignore-ssid=no update-stats-interval=disabled
    default-authentication=yes default-forwarding=yes default-ap-tx-limit=0
    default-client-tx-limit=0 proprietary-extensions=pre-2.9.25
    hide-ssid=no security-profile=new disconnect-timeout=3s
    on-fail-retry-time=100ms hw-retries=15 preamble-mode=long
    compression=no allow-sharedkey=no

1   R name="wlan2" mtu=1500 mac-address=00:0C:42:15:21:0E arp=enabled
    disable-running-check=no interface-type=Atheros AR5413
    radio-name="AP CL-K05" mode=ap-bridge ssid="CL-KS05" area=""
    frequency-mode=manual-txpower country=japan antenna-gain=0
    frequency=2432 band=2.4ghz-b scan-list=default rate-set=configured
    supported-rates-b=5.5Mbps supported-rates-a/g="" basic-rates-b=5.5Mbps
    basic-rates-a/g="" max-station-count=2007 ack-timeout=dynamic
    tx-power=22 tx-power-mode=card-rates noise-floor-threshold=default
    periodic-calibration=default periodic-calibration-interval=60
    burst-time=disabled dfs-mode=none antenna-mode=ant-a wds-mode=disabled
    wds-default-bridge=none wds-default-cost=100 wds-cost-range=50-150
    wds-ignore-ssid=no update-stats-interval=disabled
    default-authentication=no default-forwarding=yes default-ap-tx-limit=0
    default-client-tx-limit=0 proprietary-extensions=post-2.9.25
    hide-ssid=no security-profile=default disconnect-timeout=3s
    on-fail-retry-time=100ms hw-retries=15 preamble-mode=both
    compression=no allow-sharedkey=no

[barudax@MT 2 Wlan-KSB] > interface wireless registration-table print
# INTE... RADIO-NAME      MAC-ADDRESS      AP  SIGNAL... TX-RATE
0   ;; Double Link
    wlan2 Double Link      00:0C:42:15:21:1E no  -58dBm... 5.5Mbps
1   wlan1 Brother-Net      00:0C:42:05:88:59 no  -76dBm... 18Mbps

[barudax@MT 2 Wlan-KSB] > ip address print
Flags: X - disabled, I - invalid, D - dynamic
#   ADDRESS      NETWORK      BROADCAST      INTERFACE
0   202.51.232.51/28 202.51.232.48 202.51.232.63  ether1

[barudax@MT 2 Wlan-KSB] > system routerboard print
routerboard: yes
model: "532"
serial-number: "111301D349EF"
current-firmware: "2.4"
upgrade-firmware: "2.12"

[barudax@MT 2 Wlan-KSB] > _
```

8.6. CL-KS02

```

MikroTik RouterOS 2.9.50 <c> 1999-2007      http://www.mikrotik.com/

Terminal ansi detected, using single line input mode
Iharudax@POP CL-KS021 > interface print
Flags: X - disabled, D - dynamic, R - running
#  NAME      TYPE      RX-RATE  TX-RATE  MTU
0  R ether1   ether     0        0        1500
1  R wlan1    wlan      0        0        1500
2  R bridge1  bridge    0        0        1500
Iharudax@POP CL-KS021 > interface wireless print
Flags: X - disabled, R - running
0  R name="wlan1" mtu=1500 mac-address=00:0B:6B:37:69:B8 arp=enabled
   disable-running-check=no interface-type=Atheros AR5213
   radio-name="AP CL-KS02" mode=ap-bridge ssid="CL-KS02" area=""
   frequency-mode=manual-txpower country=japan antenna-gain=0
   frequency=2484 band=2.4ghz-b scan-list=default rate-set=configured
   supported-rates-b=2Mbps,5.5Mbps supported-rates-a/g=""
   basic-rates-b=2Mbps,5.5Mbps basic-rates-a/g="" max-station-count=2007
   ack-timeout=dynamic tx-power=22 tx-power-mode=card-rates
   noise-floor-threshold=default periodic-calibration=default
   periodic-calibration-interval=60 burst-time=disabled dfs-mode=none
   antenna-mode=ant-a wds-mode=disabled wds-default-bridge=none
   wds-default-cost=100 wds-cost-range=50-150 wds-ignore-ssid=no
   update-stats-interval=disabled default-authentication=no
   default-forwarding=yes default-ap-tx-limit=0 default-client-tx-limit=0
   proprietary-extensions=post-2.9.25 hide-ssid=no security-profile=new
   disconnect-timeout=3s on-fail-retry-time=100ms hw-retries=15
   preamble-mode=both compression=no allow-sharedkey=no
Iharudax@POP CL-KS021 > interface wireless registration-table print
# INTE... RADIO-NAME      MAC-ADDRESS      AP SIGNAL... TX-RATE
0  ;;; Harmoni
   wlan1 Chicago          00:0C:42:05:88:25 no -56dBm... 5.5Mbps
Iharudax@POP CL-KS021 > ip address print
Flags: X - disabled, I - invalid, D - dynamic
#  ADDRESS      NETWORK      BROADCAST      INTERFACE
0  202.51.232.54/28  202.51.232.48  202.51.232.63  ether1
Iharudax@POP CL-KS021 > ip route print
Flags: X - disabled, A - active, D - dynamic,
C - connect, S - static, r - rip, b - bgp, o - ospf
#  DST-ADDRESS  PREF-SRC  G GATEWAY      DISTANCE  INTERFACE
0  ADC 202.51.232.48/28  202.51.232.54  r 202.51.232.49  bridge1
1  A S 0.0.0.0/0      r 202.51.232.49  bridge1
Iharudax@POP CL-KS021 > system routerboard print
routerboard: yes
model: "512"
serial-number: "0ABC01D90F1D"
current-firmware: "2.9"
upgrade-firmware: "2.12"
Iharudax@POP CL-KS021 >

```

8.7. CL-KS04

```

MMM      MMM      KKK      TTTTTTTTTT      KKK
MMMM     MMMM     KKK      TTTTTTTTTT      KKK
MMM MMMM MMM III   KKK KKK RRRRRR  000000  TTT   III   KKK KKK
MMM MM  MMM III   KKKKK RRR RRR  000 000  TTT   III   KKKKK
MMM    MMM III   KKK KKK RRRRRR  000 000  TTT   III   KKK KKK
MMM    MMM III   KKK KKK RRR RRR  000000  TTT   III   KKK KKK

MikroTik RouterOS 3.10 <c> 1999-2008      http://www.mikrotik.com/

sep/15/2008 15:06:55 system,error,critical login failure for user barudax from 202.5
1
.232.49 via telnet

[barudax@POP CL-KS04] > interface print
Flags: X - disabled, R - running, D - dynamic, S - slave
#   NAME      TYPE      MTU
0 R ether1    ether     1500
1 R wlan1     wlan      1500

[barudax@POP CL-KS04] > interface wireless print
Flags: X - disabled, R - running
0 R name="wlan1" mtu=1500 mac-address=00:0C:42:15:21:09 arp=enabled
   interface-type=Atheros AR5413 mode=ap-bridge ssid="CL-KS04" frequency=2432
   band=2.4ghz-b scan-list=default antenna-mode=ant-a wds-mode=disabled
   wds-default-bridge=none wds-ignore-ssid=no default-authentication=yes
   default-forwarding=yes default-ap-tx-limit=0 default-client-tx-limit=0
   hide-ssid=no security-profile=new compression=no

[barudax@POP CL-KS04] > interface wireless registration-table print
# IN RADIO-NAME      MAC-ADDRESS      AP  SIGNAL... TX-RATE UPTIME
0 ;; Universal Travel
  w1 Universal Soldie 00:0C:42:05:86:F9 no  -66dBm... 11Mb... 1w1h16m54s

[barudax@POP CL-KS04] > ip address print
Flags: X - disabled, I - invalid, D - dynamic
#   ADDRESS      NETWORK      BROADCAST      INTERFACE
0   202.51.232.55/28  202.51.232.48  202.51.232.63  ether1
1   202.51.226.49/29  202.51.226.48  202.51.226.55  wlan1

[barudax@POP CL-KS04] > ip route print
Flags: X - disabled, A - active, D - dynamic,
C - connect, S - static, r - rip, b - bgp, o - ospf, m - mme,
B - blackhole, U - unreachable, P - prohibit
#   DST-ADDRESS      PREF-SRC      G GATEWAY      DISTANCE INT...
0 A S 0.0.0.0/0        r 202.51.232.49  1 ether1
1 A S 60.253.118.24/29 r 202.51.226.51  1 wlan1
2 ADC 202.51.226.48/29 202.51.226.49  0 wlan1
3 ADC 202.51.232.48/28 202.51.232.55  0 ether1

[barudax@POP CL-KS04] > system routerboard print
routerboard: yes
model: "112"
serial-number: "0F4D01D67211"
current-firmware: "2.6"
upgrade-firmware: "2.15"

[barudax@POP CL-KS04] >

```


8.8. Router Informatika

```

MikroTik v2.9.42
Login: barudax
Password:

MMM      MMM      KKK      TTTTTTTTTT      KKK
MMMM     MMMM     KKK      TTTTTTTTTT      KKK
MMM MMMM MMM III  KKK KKK RRRRRR  000000  TTT      III  KKK KKK
MMM MM  MMM III  KKKKK RRR RRR  000 000  TTT      III  KKKKK
MMM     MMM III  KKK KKK RRRRRR  000 000  TTT      III  KKK KKK
MMM     MMM III  KKK KKK RRR RRR  000000  TTT      III  KKK KKK

MikroTik RouterOS 2.9.42 (c) 1999-2007      http://www.mikrotik.com/

Terminal ansi detected, using single line input mode
Ibarudax@PT Informatikal > interface print
Flags: X - disabled, D - dynamic, R - running
#  NAME      TYPE      RX-RATE  TX-RATE  MTU
0  R ether1   ether     0         0        1500
1  R ether2   ether     0         0        1500
2  R ether3   ether     0         0        1500
3 X ether4   ether     0         0        1500
4 X ether5   ether     0         0        1500
5 X to-commando  ipip     0         0        1480

Ibarudax@PT Informatikal > ip address print
Flags: X - disabled, I - invalid, D - dynamic
#  ADDRESS      NETWORK      BROADCAST      INTERFACE
0  ;;; Backbone  202.51.232.57/28  202.51.232.48  202.51.232.63  ether1
1  202.51.228.153/29  202.51.228.152  202.51.228.159  ether2
2  202.51.225.89/30  202.51.225.88  202.51.225.91  ether3
3  60.253.112.133/30  60.253.112.132  60.253.112.135  to-commando

Ibarudax@PT Informatikal > ip route print
Flags: X - disabled, A - active, D - dynamic,
C - connect, S - static, r - rip, b - bgp, o - ospf
#  DST-ADDRESS  PREF-SRC  G GATEWAY      DISTANCE  INTERFACE
0  DC 60.253.112.132/30  60.253.112.133  u 60.253.112.134  ether3
1  ADC 202.51.225.88/30  202.51.225.89  u 60.253.112.134  ether3
2 X S 202.51.225.96/29  u 60.253.112.134  ether3
3 X S 202.51.228.144/29  u 60.253.112.134  ether3
4 ADC 202.51.228.152/29  202.51.228.153  ether2
5 ADC 202.51.232.48/28  202.51.232.57  ether1
6 A S 0.0.0.0/0  r 202.51.232.49  ether1

Ibarudax@PT Informatikal > system routerboard print
routerboard: yes
model: "153"
serial-number: "109901D014F8"
current-firmware: "2.6"
upgrade-firmware: "2.7"
Ibarudax@PT Informatikal > _

```