

## Laporan *Proof of Concept*, VSAT Ubiqu, Nawasena – PSN

Lokasi: Kantor Kejaksaan Negeri Belitung

Alamat: Jl. Sriwijaya No.1, Paal Satu, Kec. Tj. Pandan, Kabupaten Belitung, Kepulauan Bangka Belitung 33411

Koordinat: -2.737129, 107.640133

### Data Teknis dan Spesifikasi

No.	Nama Perangkat	Merek/ Tipe	Qty	
1.	VSAT Ubiqu	Ubiqu - Ku-band	1	set
2.	Router	Mikrotik RB450Gx4	1	Unit
3.	Access Point	Tenda n301	1	Unit

CIR Download/ Upload 256 Kbps

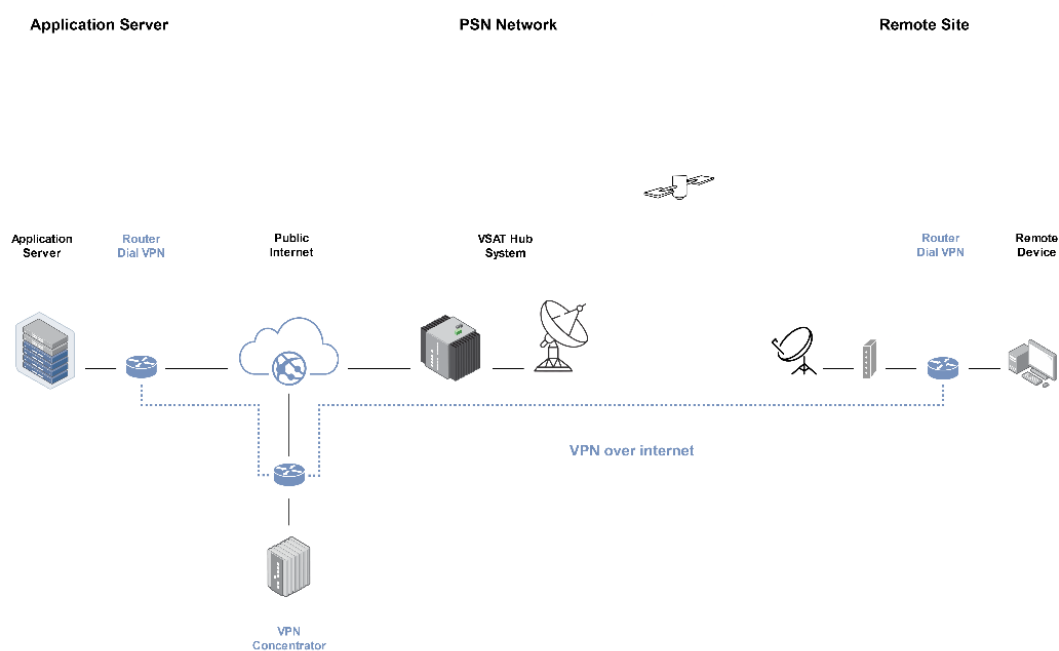
[Download Up to 3 Mbps, Upload Up to 1 Mbps]

VPN Overinternet

ID VSAT Ubiqu: **8181009738**

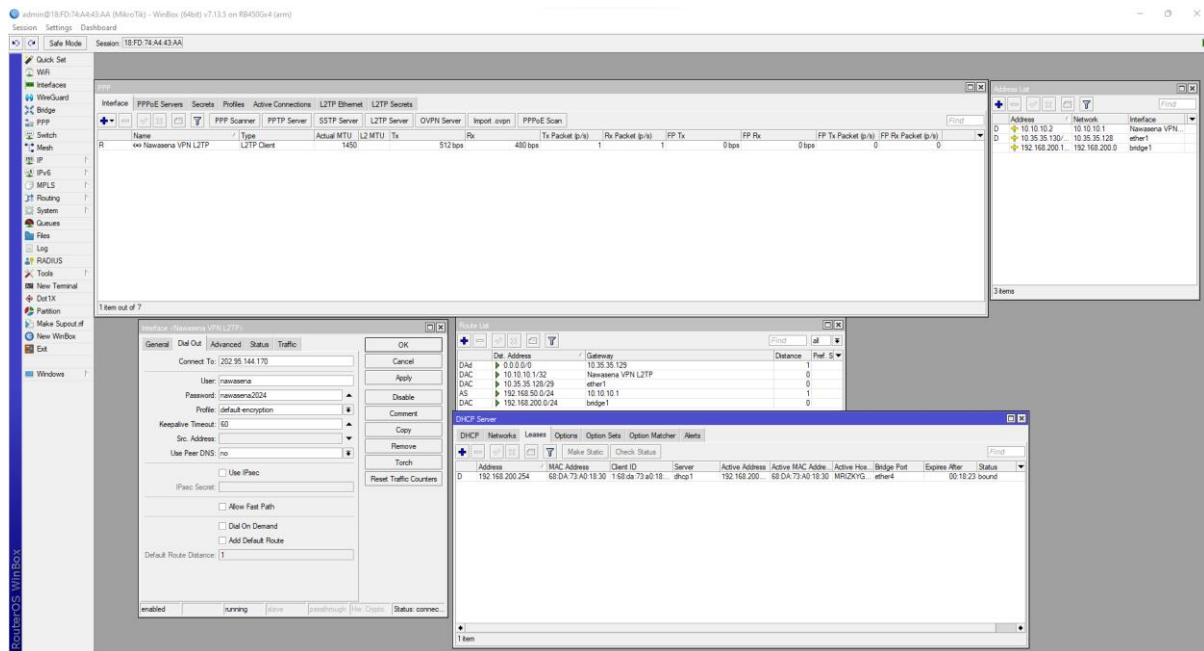
SSID Access Point: VSAT TEST KEJARI BELITUNG

### Topologi Pengetesan

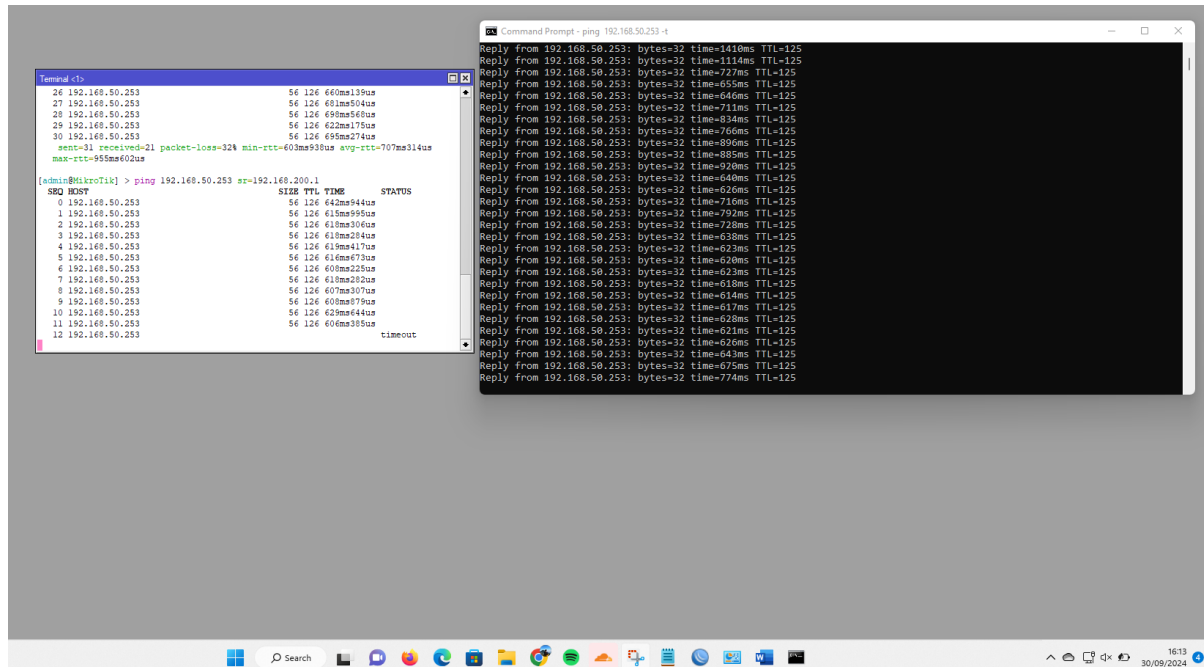


## Dokumentasi Pengetesan

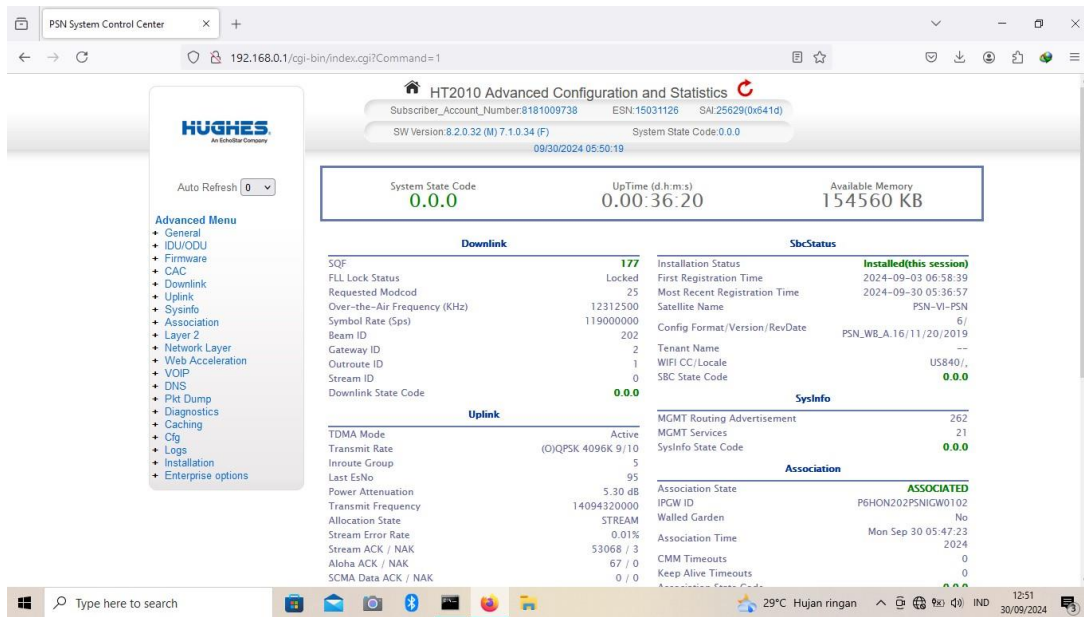
- Capture setting VSAT Ubiquiti VPN



- Capture ping test [Internet di Kantor Kejari Belitung via VPN]



- Capture setting modem



The screenshot shows the PSN System Control Center web interface. The browser address bar displays "192.168.0.1/cgi-bin/index.cgi?Command=1". The page title is "HT2010 Advanced Configuration and Statistics". The interface includes a left sidebar with a "HUGHES" logo and an "Advanced Menu" with options like General, IDU/ODU, Firmware, CAC, Downlink, Uplink, Sysinfo, Association, Layer 2, Network Layer, Web Acceleration, VOIP, DNS, Pkt Dump, Diagnostics, Caching, Cfg, Logs, Installation, and Enterprise options. The main content area displays system status and configuration details.

**System Status:**

- System State Code: 0.0.0
- UpTime (d:h:m:s): 0.00:36:20
- Available Memory: 154560 KB

**Downlink:**

- SQF: 177
- FL Lock Status: Locked
- Requested Modcod: 25
- Over-the-Air Frequency (KHz): 12312500
- Symbol Rate (Sps): 119000000
- Beam ID: 202
- Gateway ID: 2
- Outroute ID: 1
- Stream ID: 0
- Downlink State Code: 0.0.0

**Uplink:**

- TDMA Mode: Active
- Transmit Rate: (O)QPSK 4096K 9/10
- Inroute Group: 5
- Last EsNo: 95
- Power Attenuation: 5.30 dB
- Transmit Frequency: 14094320000
- Allocation State: STREAM
- Stream Error Rate: 0.01%
- Stream ACK / NAK: 53068 / 3
- Aloha ACK / NAK: 67 / 0
- SCMA Data ACK / NAK: 0 / 0

**SbcStatus:**

- Installation Status: Installed (this session)
- First Registration Time: 2024-09-03 06:58:39
- Most Recent Registration Time: 2024-09-30 05:36:57
- Satellite Name: PSN-VI-PSN
- Config Format/Version/RevDate: 6/ PSN\_WB\_A.16/11/20/2019
- Tenant Name: --
- WiFi CC/Locale: US840/
- SBC State Code: 0.0.0

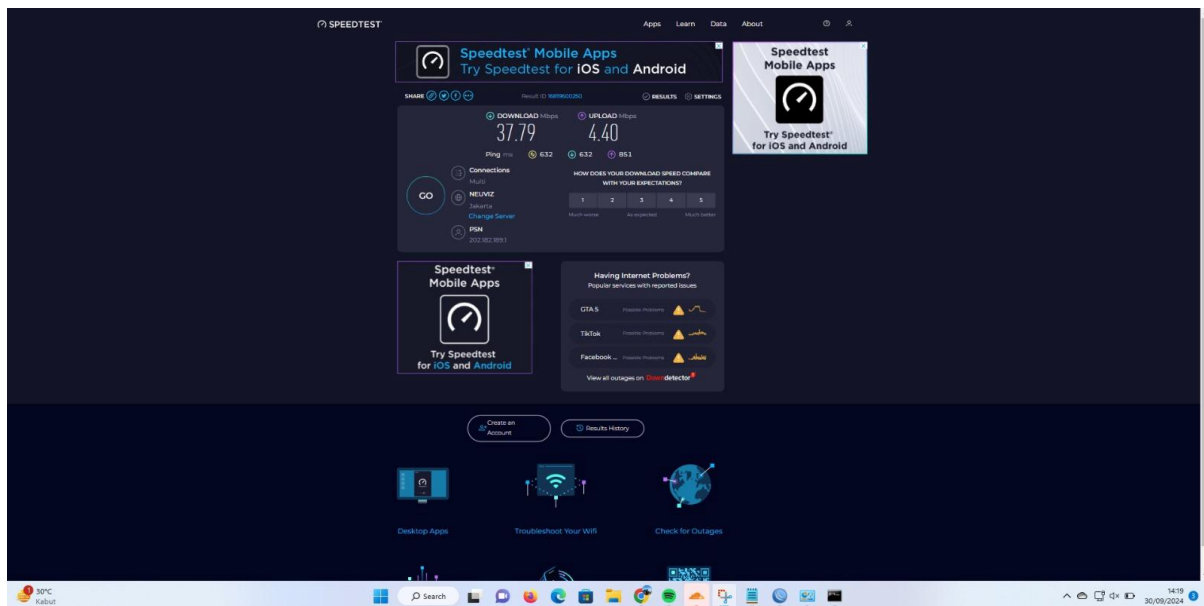
**SysInfo:**

- MGMT Routing Advertisement: 262
- MGMT Services: 21
- Sysinfo State Code: 0.0.0

**Association:**

- Association State: ASSOCIATED
- IPGW ID: P6HON202PSNIGW0102
- Walled Garden: No
- Association Time: Mon Sep 30 05:47:23 2024
- CMM Timeouts: 0
- Keep Alive Timeouts: 0

- Capture bandwidth test



The screenshot shows the Speedtest Mobile Apps interface. The main display shows a download speed of 37.79 Mbps and an upload speed of 4.40 Mbps. The interface includes a "Speedtest Mobile Apps" logo, a "Try Speedtest for iOS and Android" button, and a "Results History" section. The bottom of the screen features a navigation bar with icons for Desktop Apps, Troubleshoot Your WiFi, and Check for Outages. The Windows taskbar at the bottom shows the date as 30/09/2024 and the time as 14:19.

**Speedtest Mobile Apps Results:**

- Download Speed: 37.79 Mbps
- Upload Speed: 4.40 Mbps
- Ping: 632 ms

**Speedtest Mobile Apps:**

- Try Speedtest for iOS and Android

**Results History:**

- Desktop Apps
- Troubleshoot Your WiFi
- Check for Outages



File Edit View History Bookmarks Tools Help

Speedtest by Ookla - The Glob... (2) WhatsApp

https://www.speedtest.net/result/16824321753

### SPEEDTEST

Apps Learn Data About

Speedtest® Mobile Apps  
Try Speedtest for iOS and Android

Result ID: 16824321753

DOWNLOAD Mbps: 23.88

UPLOAD Mbps: 1.81

Ping ms: 730

Connections: Multi

HYPERNET

Jakarta

Change Server

PSN

202.162.189.1

HOW LIKELY IS IT THAT YOU WOULD RECOMMEND PSN TO A FRIEND OR COLLEAGUE?

0 1 2 3 4 5 6 7 8 9 10

Not at all likely Extremely Likely

Travel smarter  
Get reliable, fast 5G data wherever you go

Having Internet Problems?  
Popular services with reported issues

Fortnite Problems

86°F Party sunny

Search

15:41 01/10/2024

### SPEEDTEST

Apps Learn Data About

Speedtest® Mobile Apps  
Try Speedtest for iOS and Android

Result ID: 16819528899

DOWNLOAD Mbps: 12.59

UPLOAD Mbps: 1.01

Ping ms: 728

Connections: Multi

NEUTZ

Jakarta

Change Server

PSN

202.162.189.1

HOW DOES YOUR NETWORK AVAILABILITY COMPARE WITH YOUR EXPECTATIONS?

1 2 3 4 5

Much worse As expected Much better

Install your free eSIM now  
use it when you travel  
Fast 5G Best Prices TRY IT NOW

Having Internet Problems?  
Popular services with reported issues

Reddit Possible Problems

TikTok Possible Problems

GTA 5 Possible Problems

View all outages on Down detector

Create an Account Results History

30°C Kabut

Search

14:15 30/09/2024

### Wi-Fi

VSAT TEST KEJARI BELITUNG  
Connected, secured

Disconnect

4GUF1\_6118

KEJARI BELITUNG

KEJARI TANJUNG PANDAN 1

More Wi-Fi settings

## Dokumentasi Instalasi



*Penempatan Antenna VSAT*



*Penempatan Perangkat Indoor di Ruang Server Kejari Belitung*

## Kesimpulan

1. Pengetesan VPN telah dilakukan dan berhasil melakukan test ping [PSN Jakarta sebagai VPN server dan VSAT Ubiqu di kejar belitung sebagai client/ user dengan menambahkan sementara Mikrotik RB951Ui-2HND yang terhubung dengan internet [*IndieHome*] di kantor Kejari sebagai VPN Client].
2. Bandwidth test yang dilakukan sudah sesuai dengan penawaran yang diberikan oleh PSN, yaitu CIR 526 untuk masing-masing Download dan Upload [Download up to 3 Mbps dan Upload up to 1 mbps].