Report Installation Project Upgrade Device at Indonesia Pratama Senyiur

Swos ID : #35413
Date : 05-13 Oktober 2016
Engineer Pelaksana : Didik Kristiawan & Johan Mesak

1. Data Customer

Nama	: Indonesia Pratama site Senyiur & KM.6
Alamat	: Senyiur
Koordinat	: -
PIC	: Yulius HDT / Ferry Layuk
No Telp	: 08525141821 / 082291345668
Email	: yulius.triono@bayan.com.sg / ferry@bayan.com.sg

2. Work Description

1. Dismantle equipment outdoor at Lighting Tower Senyiur
2. Installation device outdoor at Tower Senyiur (RB911+Grid 5,8Ghz and M5 Omni)
3. Move device indoor to rack wallmout at Shelter Tower KM.6
4. Installation/Check grounding to Box Grounding at Tower Senyiur
5. Installation/Check grounding to Box Grounding at Tower KM.6
6. Installation/Check grounding to Box Grounding at Tower KM.29
7. Install/ Pointing and setting radio station M5 and RB750 at Control Panel
8. Install/Pointing and setting radio station M5 and RBHap at Control Room
9. Install/pointing and setting radio station M5 and RB433 (indoor) at workshop
10. Install/ pointing and setting radio station M5 and RB433 (indoor) at Container Medic
11. Installation/Check grounding to Box Grounding at Tower KM.73 (by Johan)
12. Installation/Check grounding to Box Grounding at Tower Gn Sari (by Johan)

3. Equipment Install

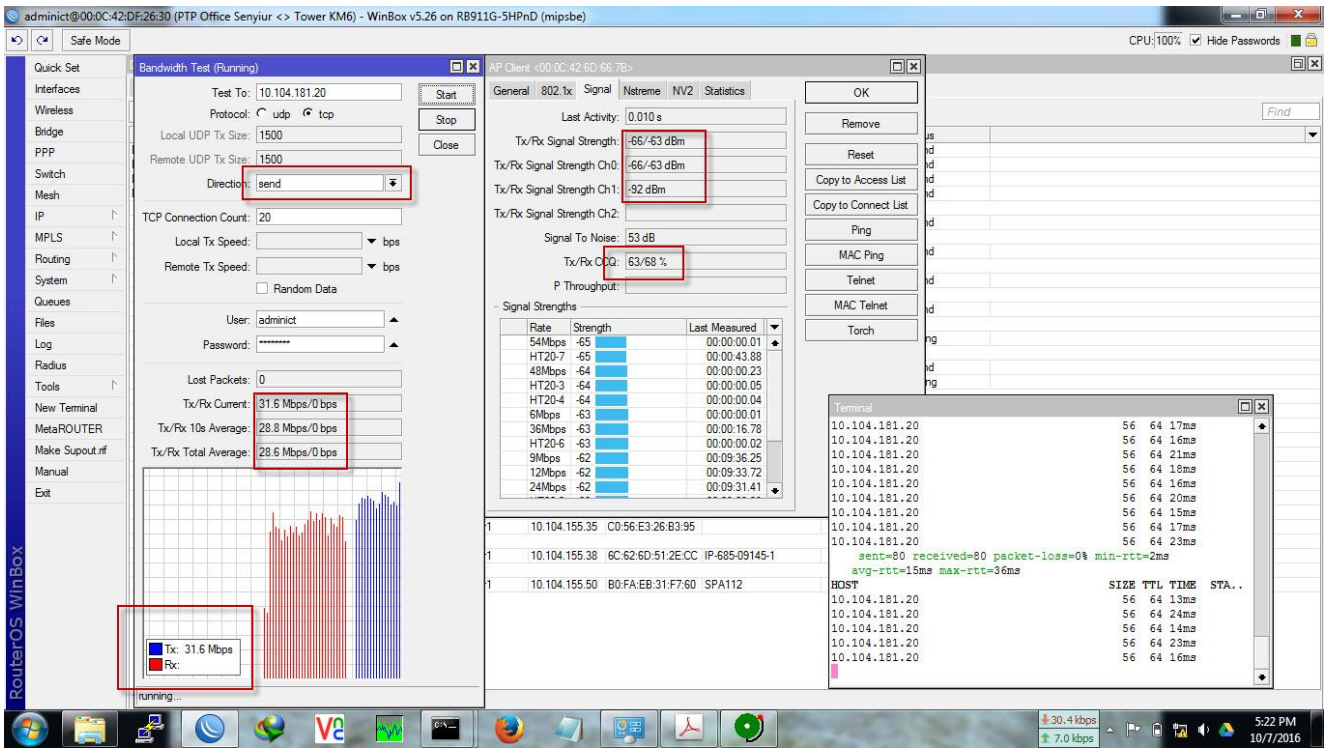
PTP Tower Senyiur to Tower KM.6
Platform : Mikrotik
Type : RB911G-5HPnD + Antenna Grid 5.8Ghz
Serial Number : 4A4301027E87

Access Point at Tower Senyiur
Platform : Ubiquiti
Type : Rocket M5 + Antenna Omni 5.8Ghz
Serial Number : -

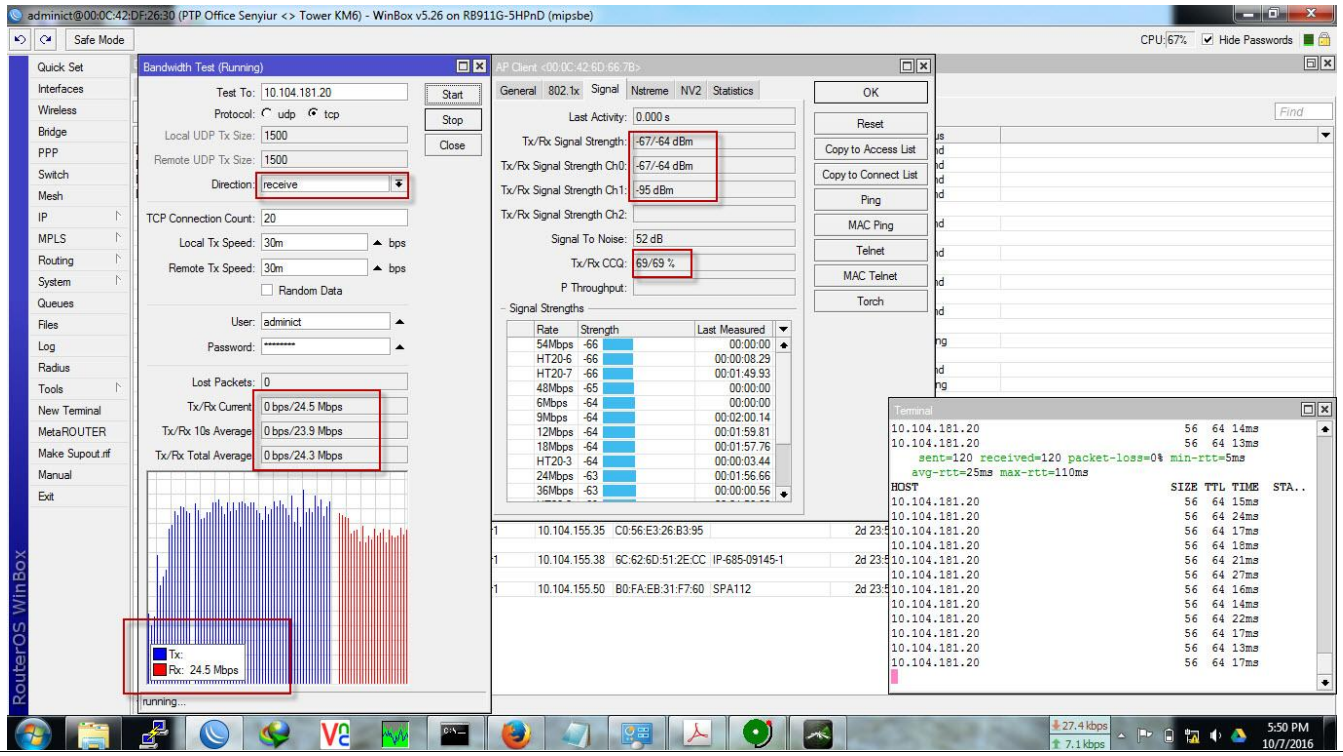
Station at Senyiur
- Control Panel : Radio NanoStation M5 + POE, RB750 sn: 467704608F10
- Control Room : Radio NanoStation M5 + POE, 951Ui-2^{nD} hAP sn: 643705AB2BE9
- Workshop : Radio NanoStation M5 + POE, RB433 sn: 6A130565104E
- Container Medic : Radio NanoStation M5 + POE, RB433 sn: 6A1305DDEC2B

4. Speed Test PTP Tower KM.6 <> Tower Senyiur

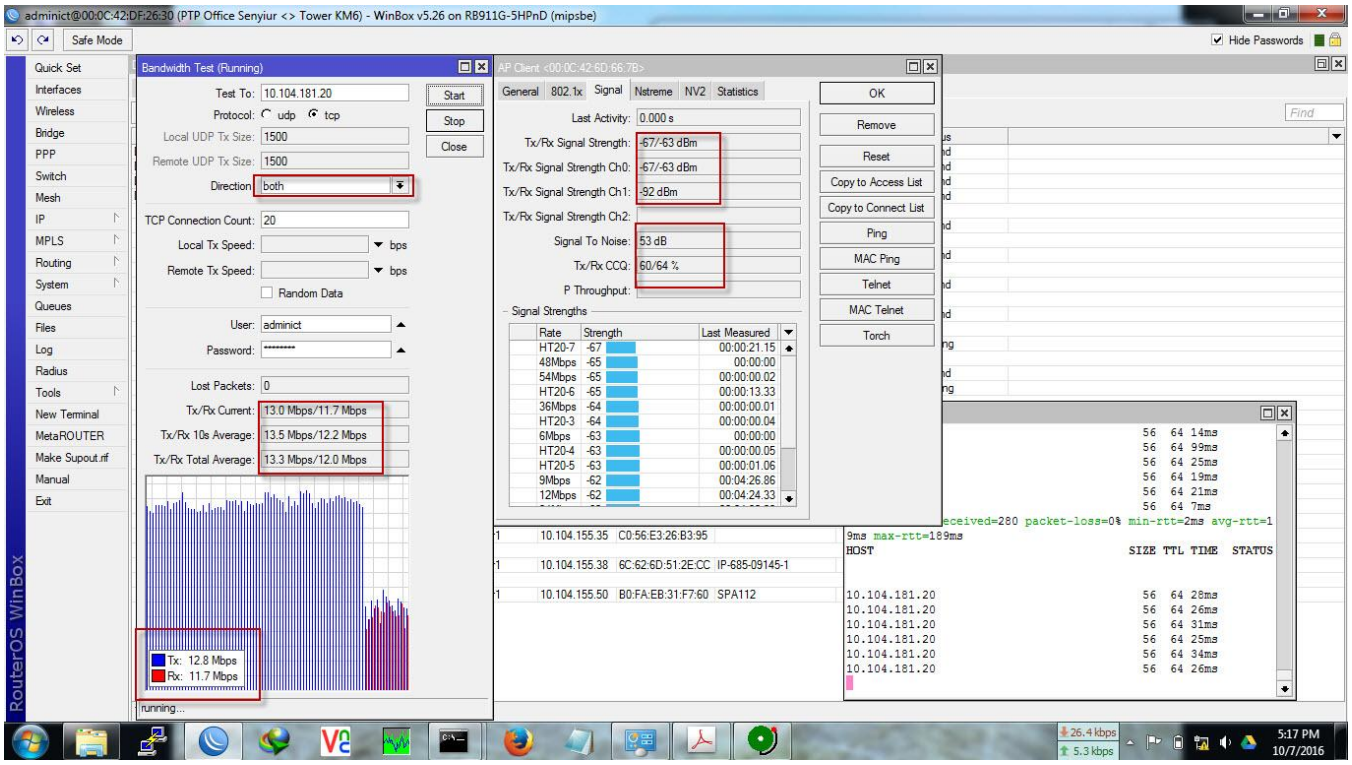
Packet Local Send Point to Point (get tx avg 28.8Mbps)



Packet Local Receive Point to Point (get rx avg 24.3Mbps)

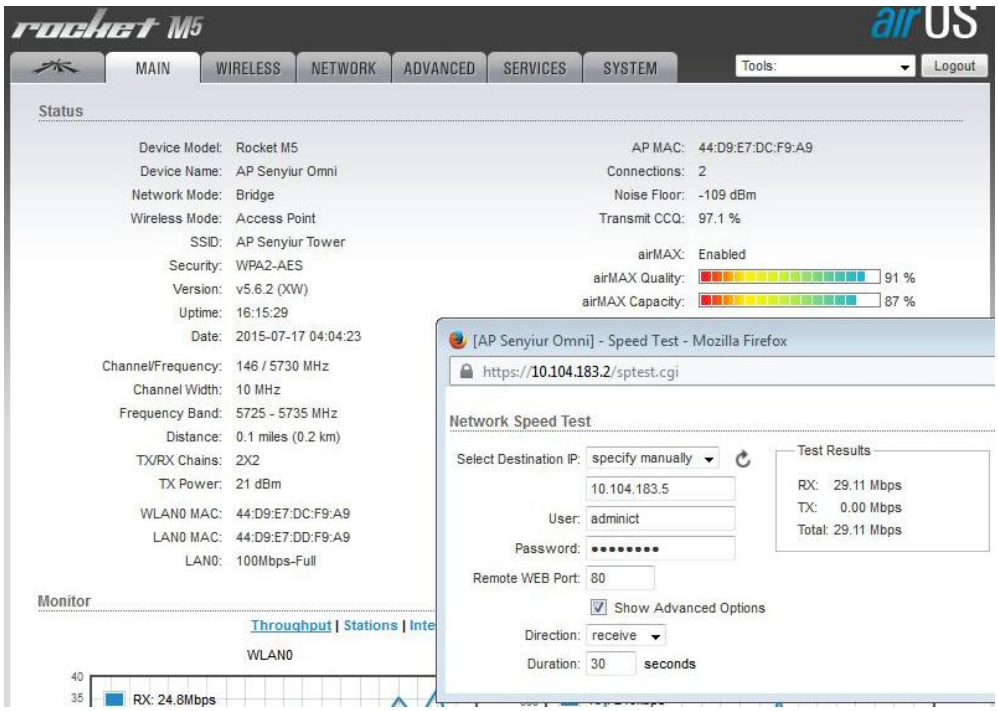


Packet Local Both Point to Point (get tx/rx avg 13.3Mbps/12.0Mbps)

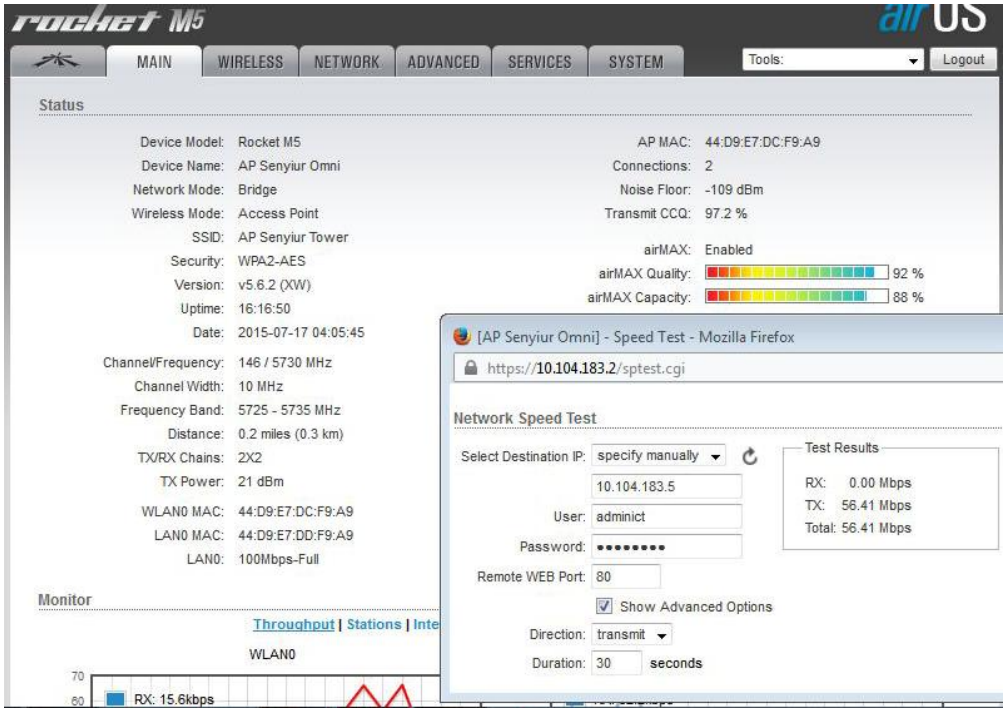


5. Speedtest Access Point at Tower Senyiur to Station Area Senyiur

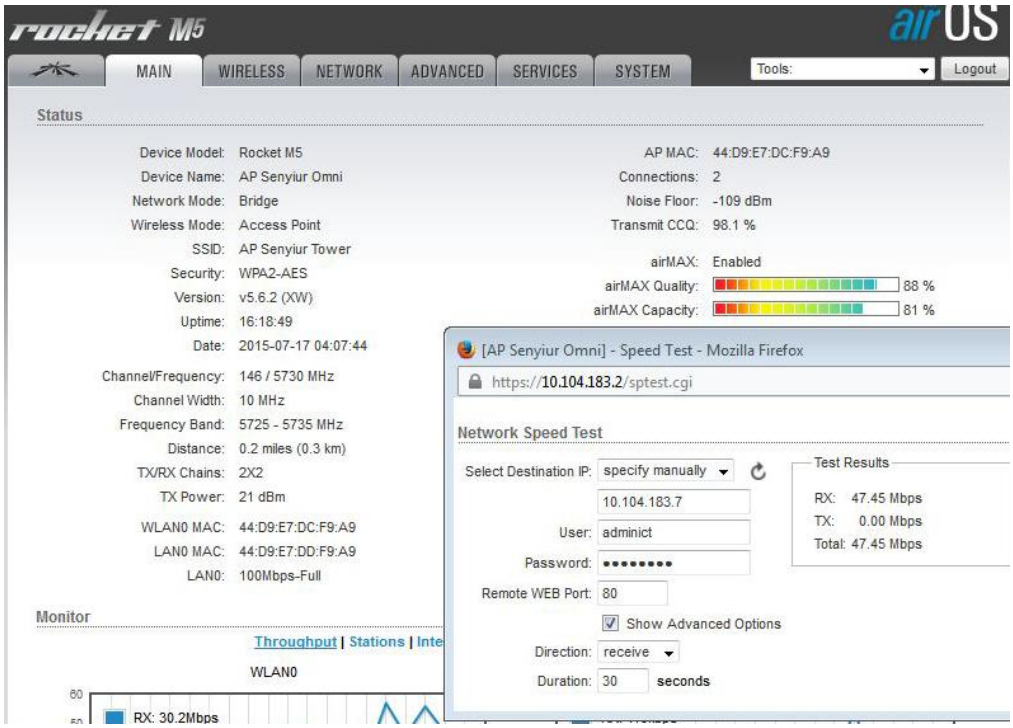
Packet Local Receive from Access Point to Station Control Panel



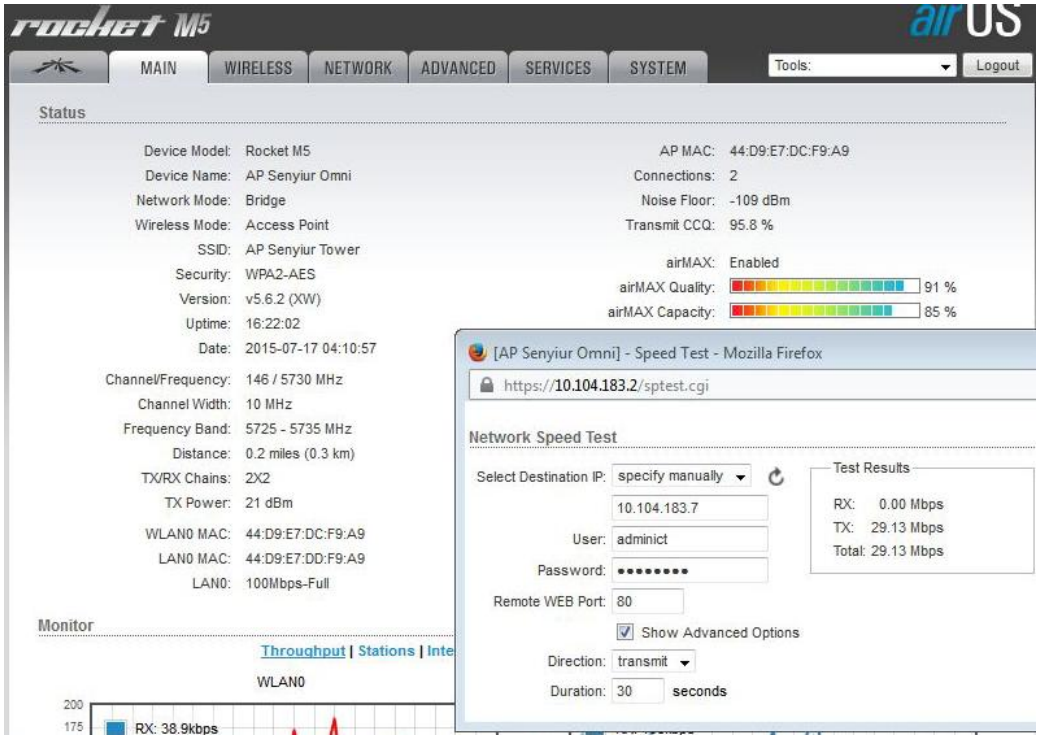
Packet Local Transmit from Access Point to Station Control Panel



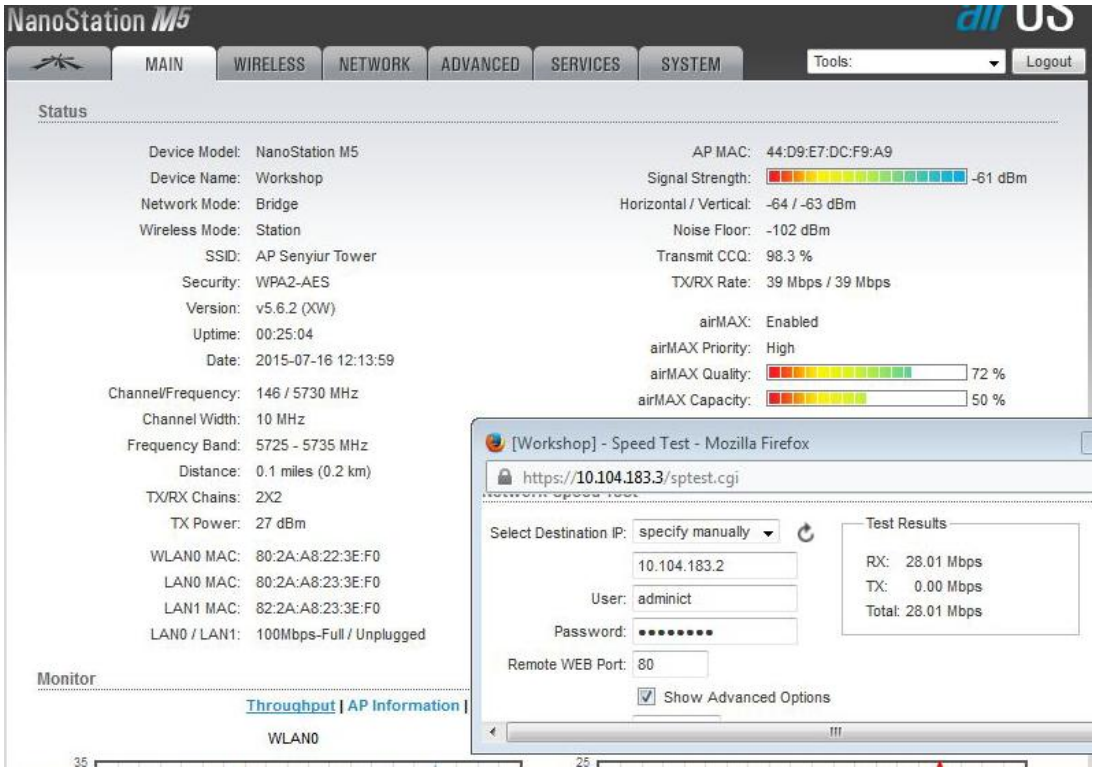
Packet Local Receive from Access Point to Station Control Room



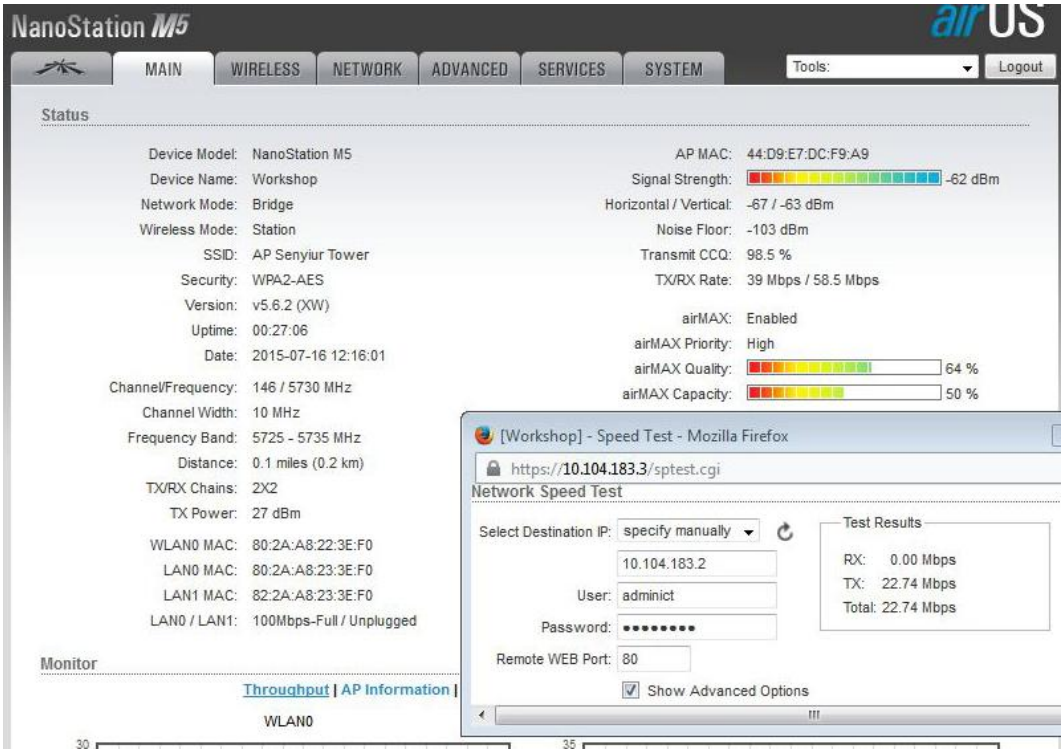
Packet Local Transmit from Access Point to Station Control Room



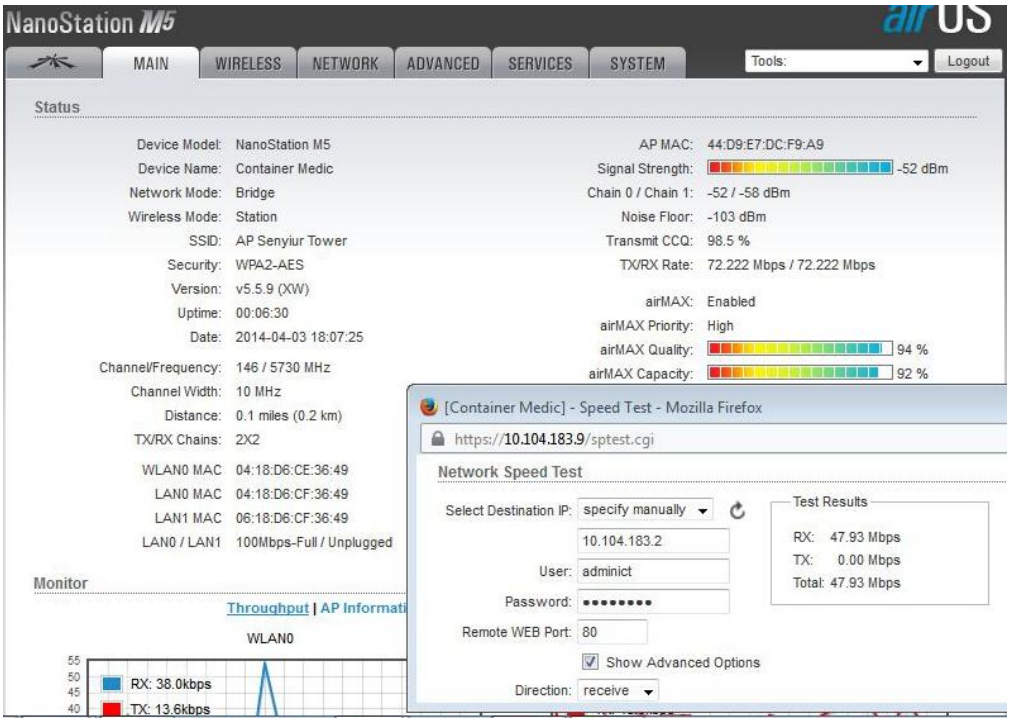
Packet Local Receive from Access Point to Station Workshop



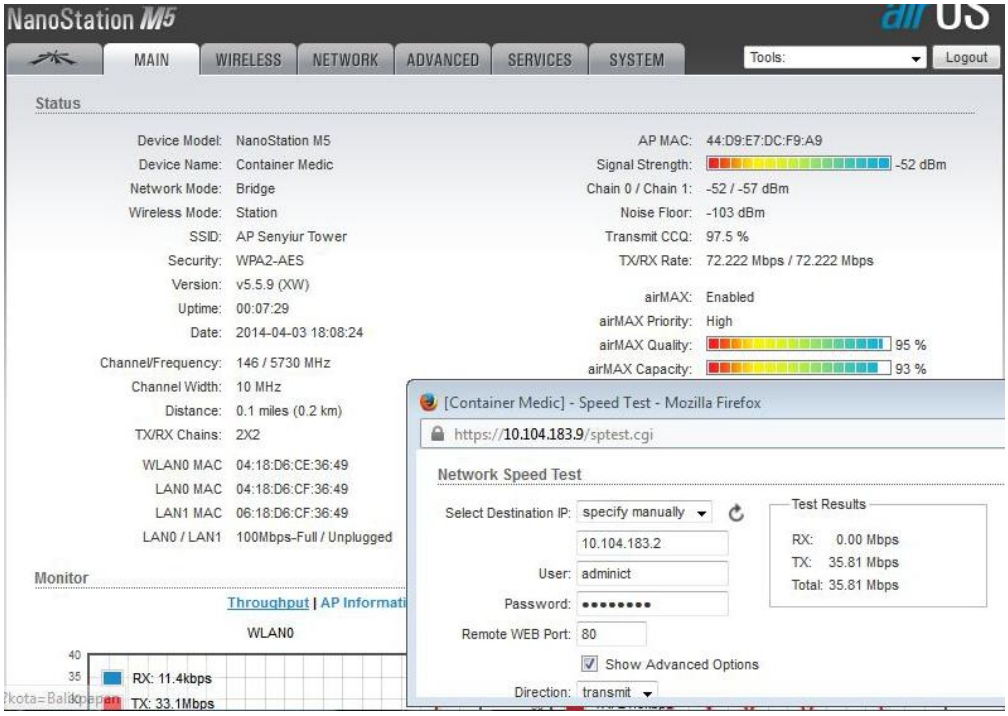
Packet Local Transmit from Access Point to Station Workshop



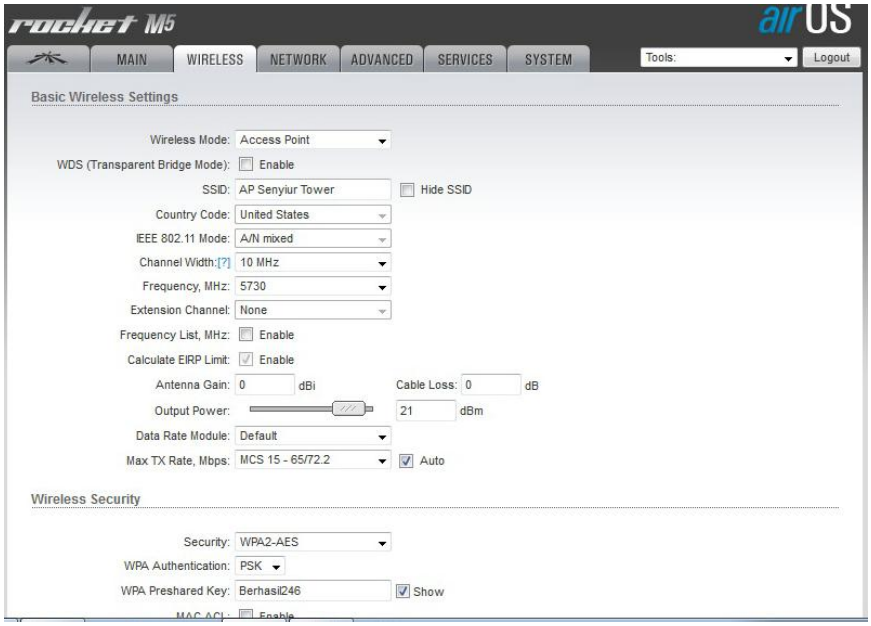
Packet Local Receive from Access Point to Station Container Medic



Packet Local Transmit from Access Point to Station Container Medic

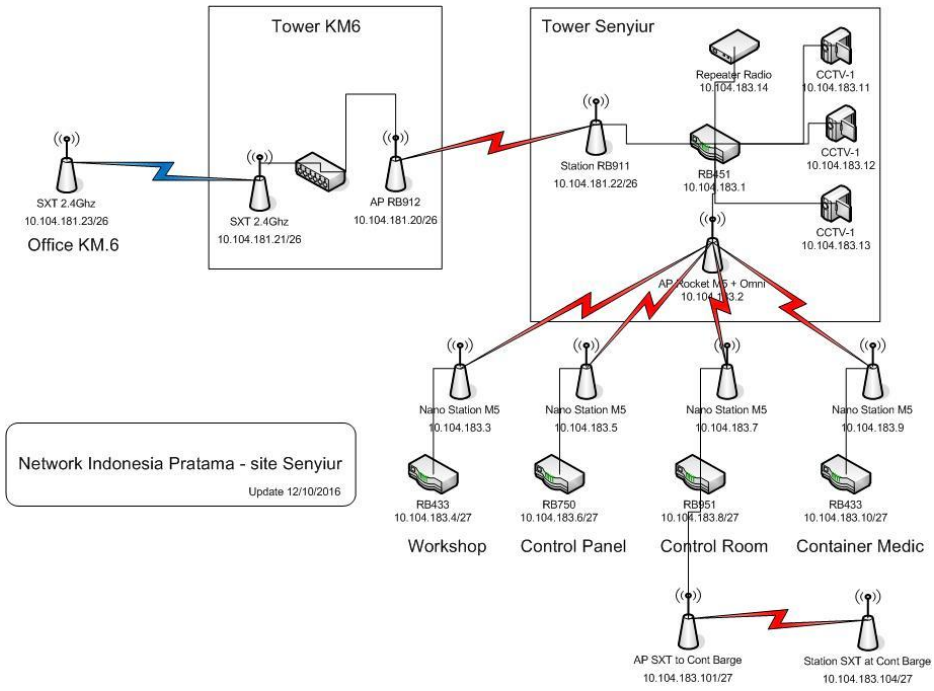


6. Configuration Radio Access Point M5 + Omni at Tower Senyiur



User Login : admin
Password Login : ictb4y4n

7. Network Topology

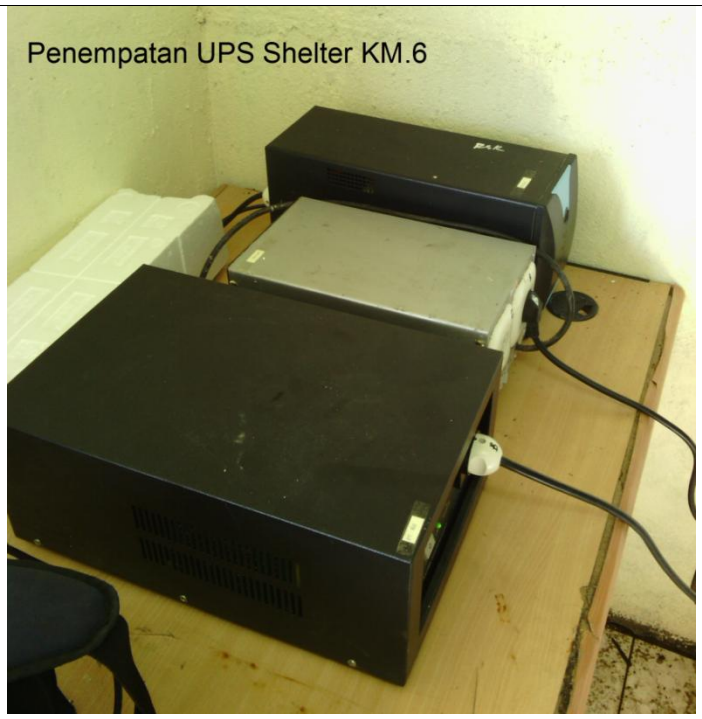


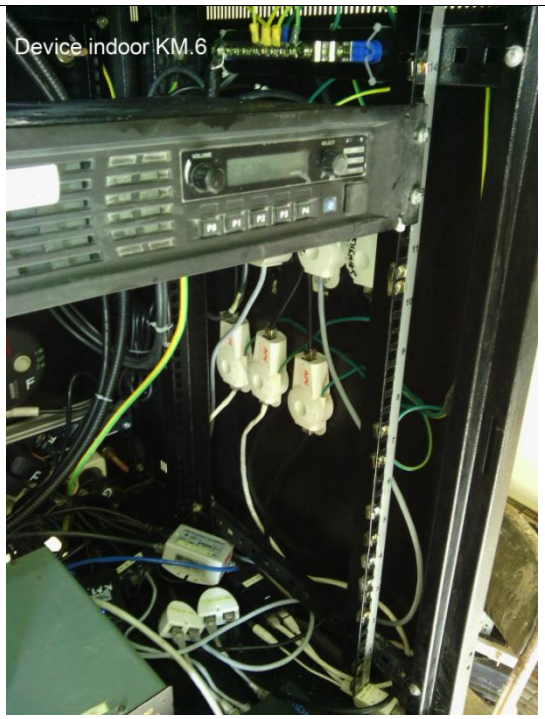
8. Ping Latency

Ping PTP from Tower KM.6 <> Tower Senyiur

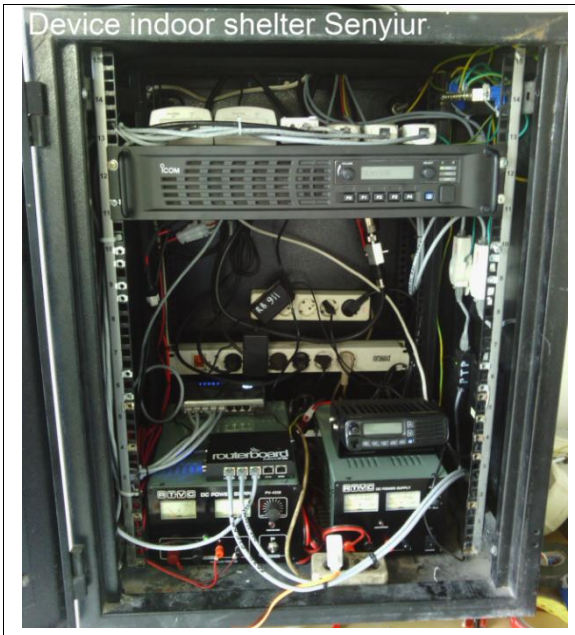
```
10.104.181.22                           1400   64 6ms
10.104.181.22                           1400   64 10ms
10.104.181.22                           1400   64 13ms
10.104.181.22                           1400   64 18ms
10.104.181.22                           1400   64 28ms
10.104.181.22                           1400   64 19ms
10.104.181.22                           1400   64 5ms
10.104.181.22                           1400   64 10ms
10.104.181.22                           1400   64 4ms
10.104.181.22                           1400   64 2ms
10.104.181.22                           1400   64 10ms
10.104.181.22                           1400   64 13ms
10.104.181.22                           1400   64 11ms
10.104.181.22                           1400   64 5ms
10.104.181.22                           1400   64 10ms
10.104.181.22                           1400   64 5ms
    sent=100 received=100 packet-loss=0% min-rtt=2ms avg-rtt=12ms max-rtt=39ms
HOST                                    SIZE TTL TIME   STATUS
```

9. Move Device Shelter KM.6

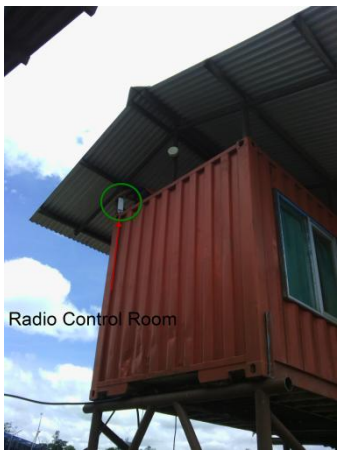




10. Dokumentasi

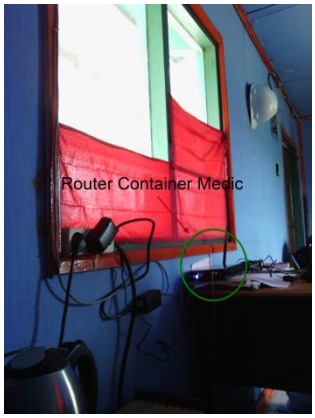

Device indoor shelter Senyiur

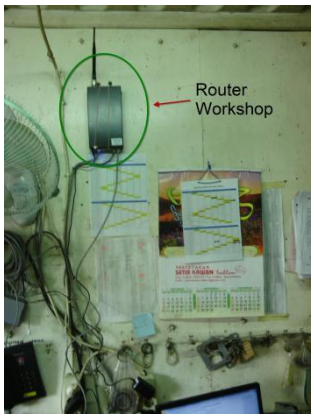

Jalur Kabel Shelter Senyiur


Radio Control Room


Radio Container Medic


Radio Workshop


Router Container Medic


Router
Workshop


Box Grounding BusBar Senyiur


Busbar grounding Tower Senyiur


Box grounding busbar KM.6


Bak control
grounding KM.6


Busbar grounding Tower KM.6


Box busbar grounding KM.29


Busbar grounding Tower KM.29


Grounding device indoor KM.29


Box busbar grounding KM.73


Busbar grounding tower KM.73


Bak control grounding KM.73


Busbar grounding Tower Gn Sari


Bak control grounding Tower Gn Sari

Terimakasih …