IMPACT OF EARTHQUAKE ON NEPAL'S INTERNET 2015

Earthquake in Nepal At Glance

- Date: 25 April 2015
- □ Magnitude: 7.9
- □ Casualties: 8,898 dead, 22,309 injured
- Damage: more than \$ 5 billion

Status of Internet After EQ

- Nepal's international links generally survived the earthquake
- Serious damage occurred on Last mile connectivity

BGP DATA

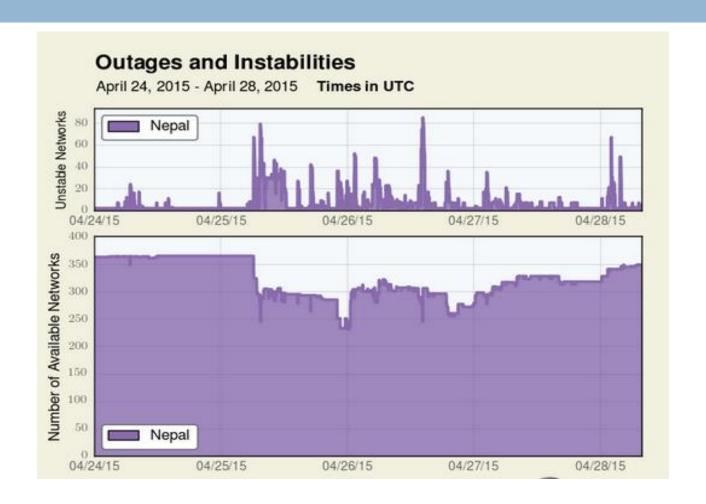


Fig.1: BGP peering

NTC Upstream

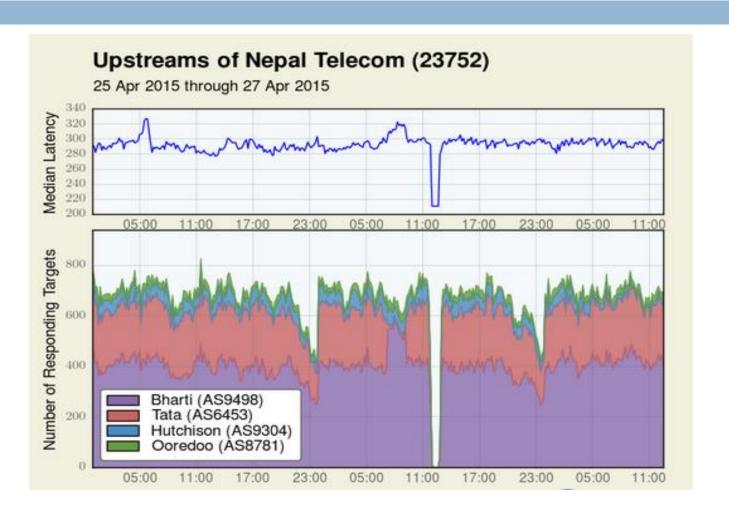


Fig. 2: Upstream of NTC

WSN Upstream 1

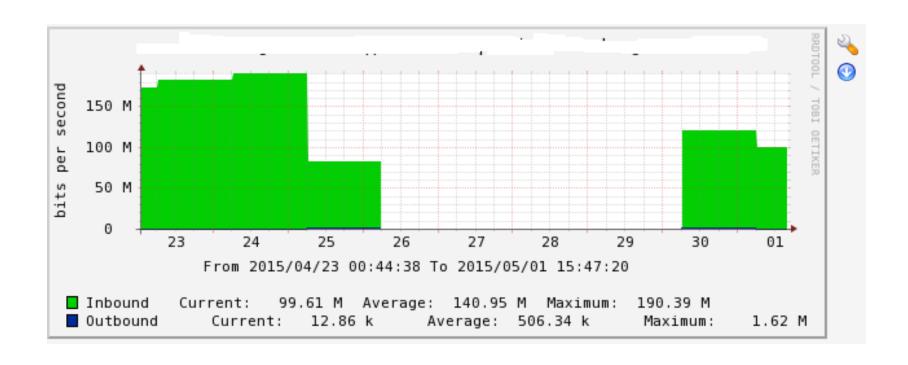


Fig. 3: WSN Upstream airtel1

WSN Upstream 2

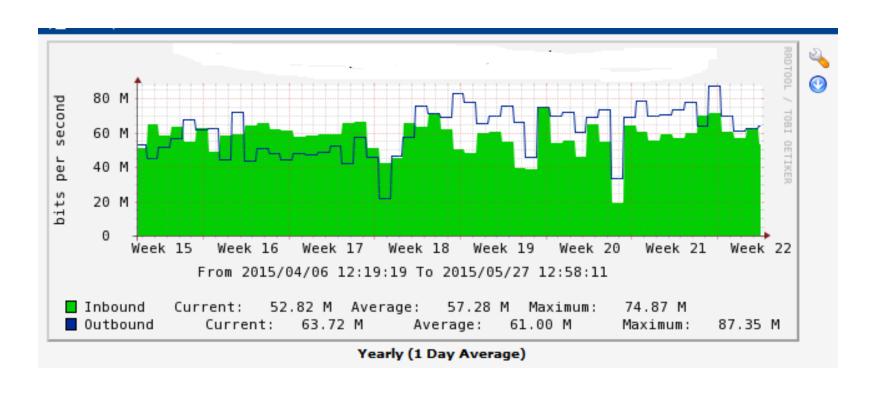


Fig. 4: WSN Upstream airtel 2

WSN Upstream 3

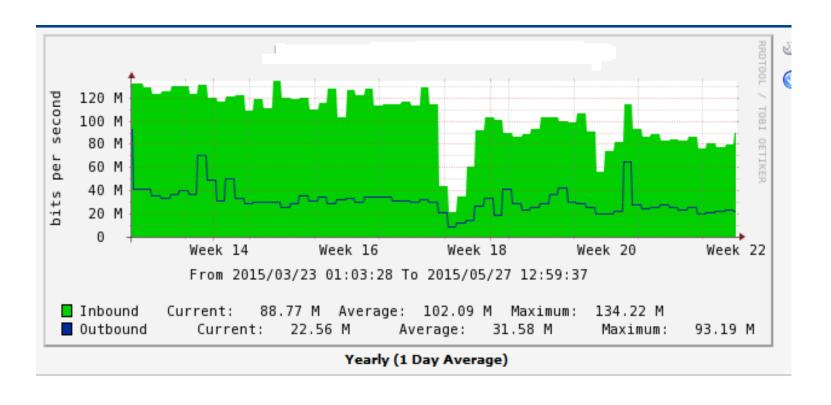


Fig. 5: WSN Upstream NIIG

MICET Foundation

- Non Profit distribution company established on September 2010 to provide ICT services in rural areas located at Melamchi, Sindhupalchok.
- Face heavy damage during massive earthquake2015
- System totally devastated by fire caused by earthquake
- Internet connectivity from Websurfer Communication
 System Pvt. Ltd. Katmandu was disconnected

Background of Establishment

- □ To avail high speed broadband Internet.
- To provide access to information and economic opportunities through broadband Internet in rural villages in Nepal.
- To implement a community-shared broadband access model that can overcome distance and terrain barriers, and can deliver Internet speeds comparable to ADSL.

Network Coverage

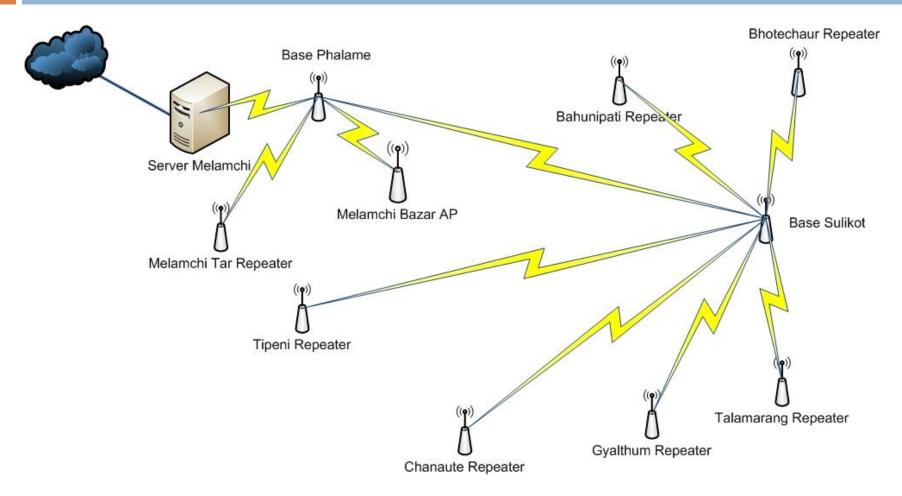


Fig. 6: MICET Network Coverage

Reason Behind Dis-connectivity

- Outage of electricity
- System devastation

Action Taken after Dis-connectivity

- For electricity, Solar Backup System was implemented
- For user connectivity, hotspot services was implemented for instant internet access
- Mobile wireless POD was established to provide
 Free Wi-Fi for needed people at public place

Main Station of MICET



Fig. 7: Main POD of MICET

Solar backup System



Fig. 8: Solar Backup System deployed at MICET after EQ

Mobile Wi-Fi POD



Fig. 9: Mobile WiFi POD deployed at MICET after EQ

MICET System Before EQ



Fig. 10: System of MICET before EQ



Fig. 11: Power Backup System of MICET before EQ

MICET After EQ



Fig. 12: MICET office after EQ

Some Glimpses during EQ





Fig. 13: Fire after EQ at MICET office

Fig. 14: Rescue operation at MICET office

Providing Client Support after EQ



Fig. 15: Providing client support at WSN

Helping People to Communicate after EQ

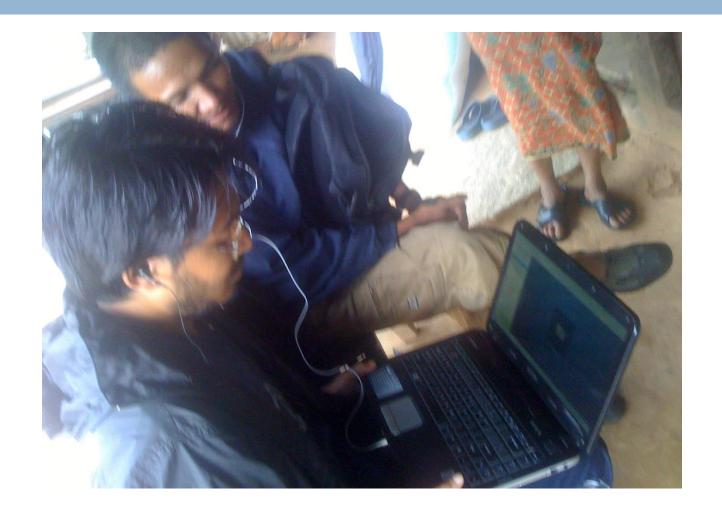


Fig 16: Helping people to communicate

Taking benefit of Free WiFi



Fig 17: Exploring internet using MICET Free WiFi

Free Wi Fi coverage in News Portal

- □ http://np.karobardaily.com/2015/05/54422/
- □ http://www.onlinekhabar.com/2015/05/279632/
- □ http://www.nepalreports.com/news/8820
- http://nepalpati.com/news/10109/my-set-wifi
- □ http://onlinepatrika.com/29248/

Conclusion

- Earthquake Nepal 2015, international link survived but last mile connection affected
- Solar backup system very effective to provide power at the time of disaster
- Free WiFi, at the time of disaster very useful means of communication

Any Queries?

Thank You