

REPORT

# NATIONAL WEB PORTAL DEVELOPMENT OR REPRESSION?

////////////////////////////////// BURMA, NOVEMBER 2010 //////////////////////////////////////



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Figure 2: Burma's connection with Greater Mekong Sub-Region Information Superhighway Links and India

So far, more than 10,000 km of fiber-optic cable have been installed across Burma covering almost all states and divisions (Figure 3).

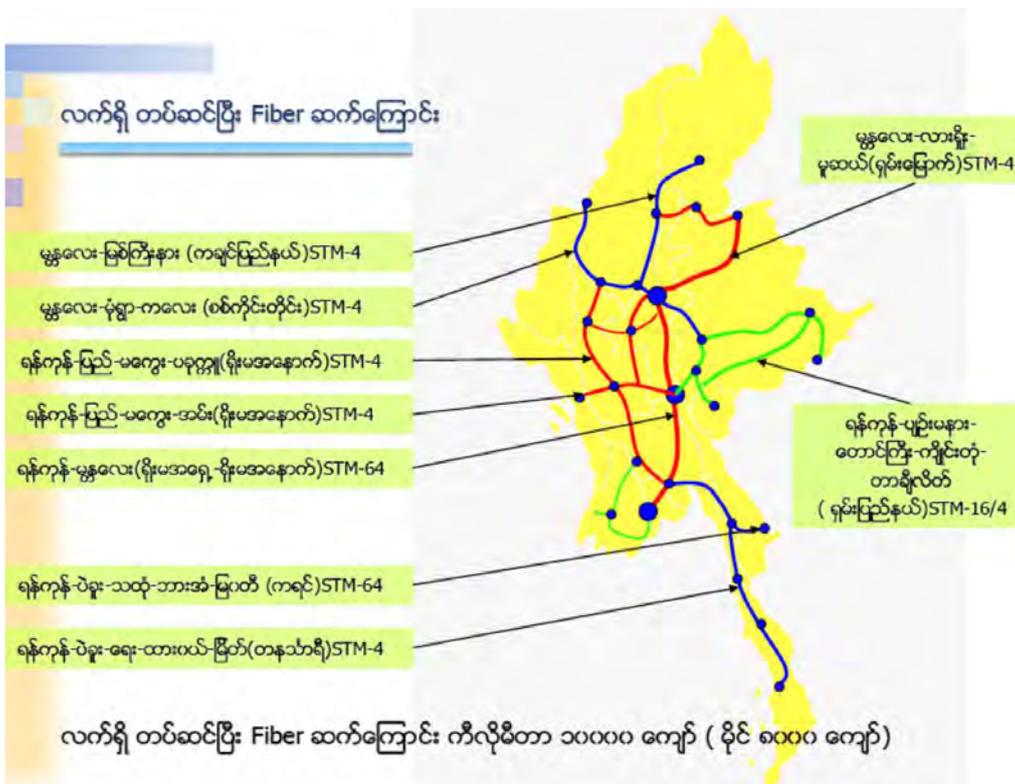


Figure 3: Current status of Burma's fiber-optic cable links (more than 10,000 km)

According to Yatanarpon Teleport, two main ISP centers in Naypyidaw and Yatanarpon, and regional sub-ISP centers in Rangoon, Myitkyina, Taungyi, Lashio, Monywa, Magwe and Myeik will provide Internet service to various regions of the country (Figure 4).

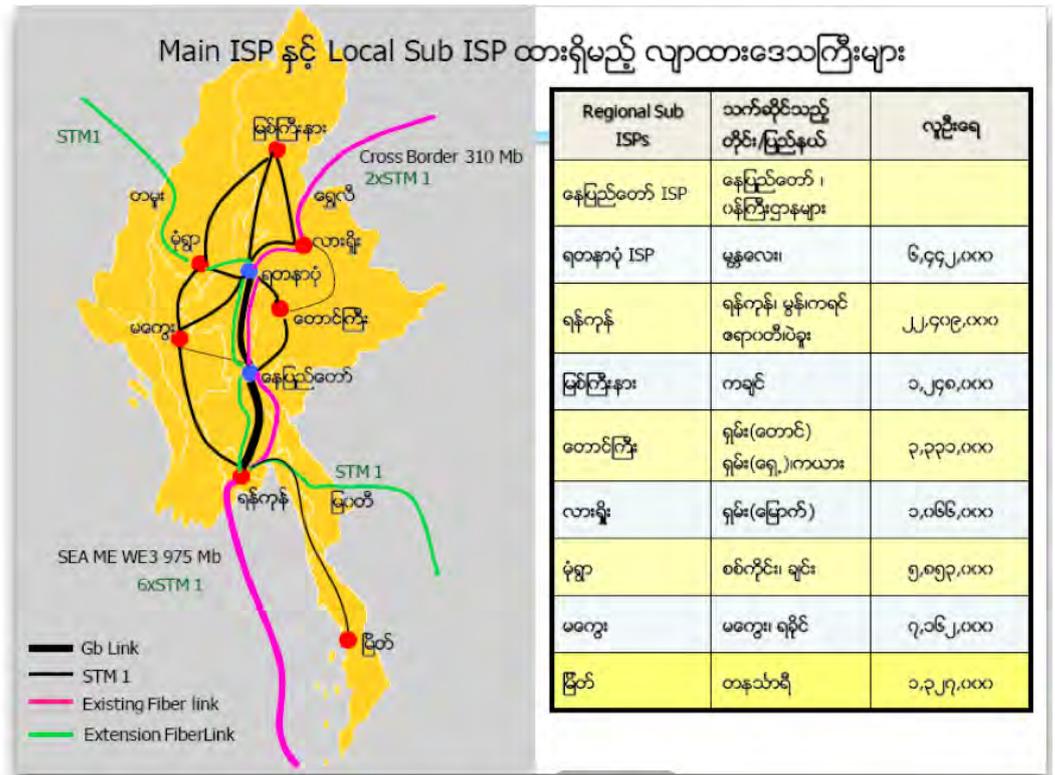


Figure 4: Planned Regions for Main and Sub ISPs

It is expected that the Hantharwaddy National Gateway will be able to provide a total bandwidth of 3.145 Gbps, a significant rise from the total bandwidth of 1.285 Gbps registered in March 2010 (Figure 5).

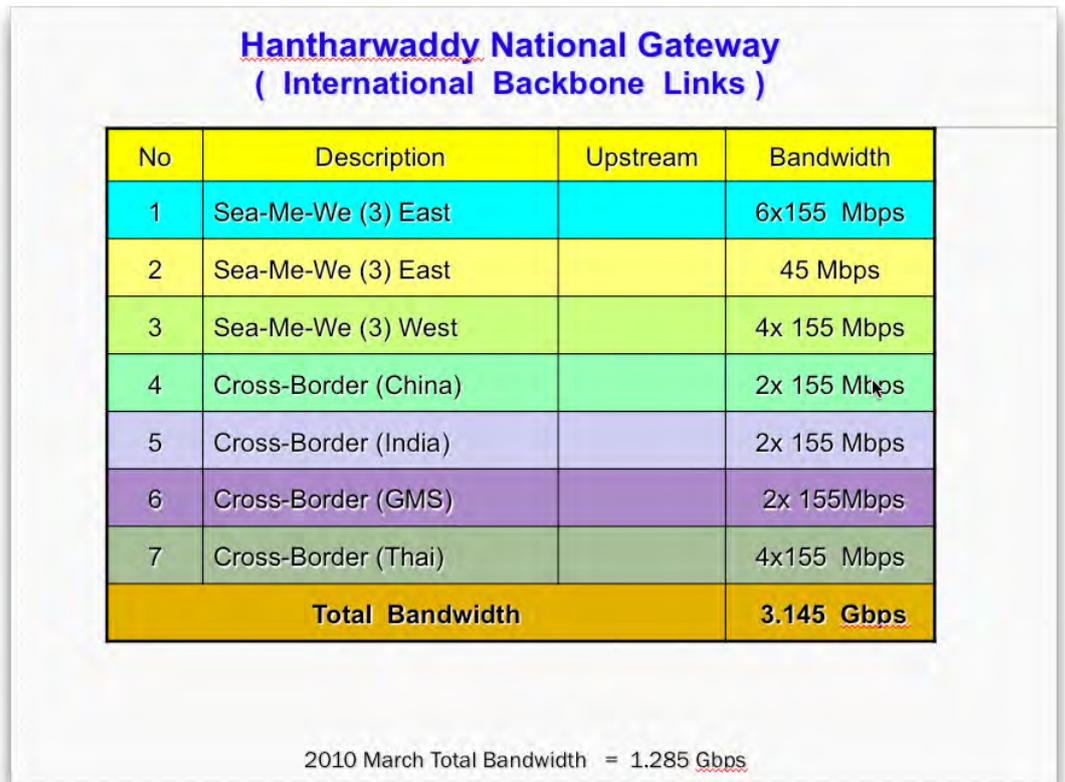


Figure 5: Total bandwidth provided by Hantharwaddy National Gateway

Yatanarpon Teleport has also planned to link with the Sea-Me-We-4 Cyber Link, an Asia-Europe submarine cable, via Bangladesh, which is the nearest country to the submarine cable. After completion of the project, the country will be able to communicate with other countries that link Sea-Me-We-4 via fiber-optic connection.

**ISP SYSTEMS**

Previous System (Figures 6 and 7)

From 2004 until October 2010, Burma used an ISP system that consisted of two ISP servers. A Ministry of Post and Telecommunications (MPT) ISP server provided Internet services to government ministries including the Ministry of Defence (MoD) and ADSL/dial-up private users. An ISP server from Yatanarpon Teleport also provided Internet services to private users (dial-up, ADSL, FTTH, wireless/broadband).

After passing through Hantharwaddy National Gateway, Internet users could connect to the global Internet via SEA-ME-WE 3 and China-Burma cross-border fiber-optic cables. Hantharwaddy National Gateway is directly controlled by the military.

Note: The ISP service of the Bagan Cyber Tech, created in 1990 by former Prime Minister Khin Nyunt, was taken over by Myanmar Teleport, which in 2004 was transformed into Yatanarpon Teleport.

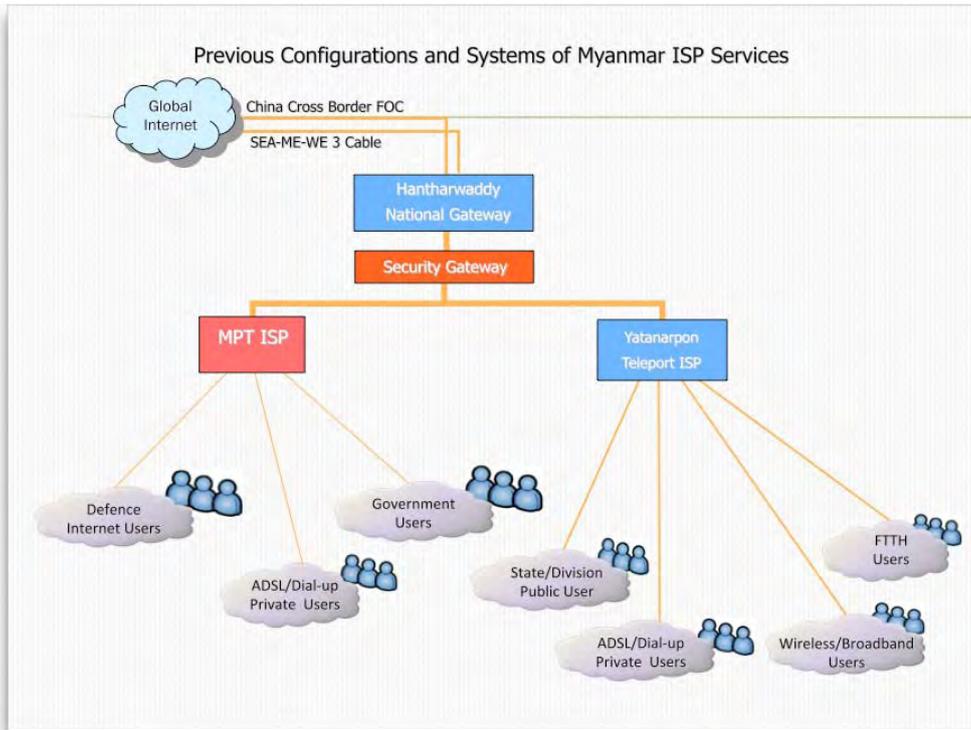


Figure 6: Configurations and systems of Myanmar ISP Services (2004-October 2010)

Previous ISP system required all Internet requests to go through proxy servers in Yangon (Rangoon). The old system also created a bottleneck for military and government users, as they had to share the same ISP with private users. Web performance was also less than impressive.

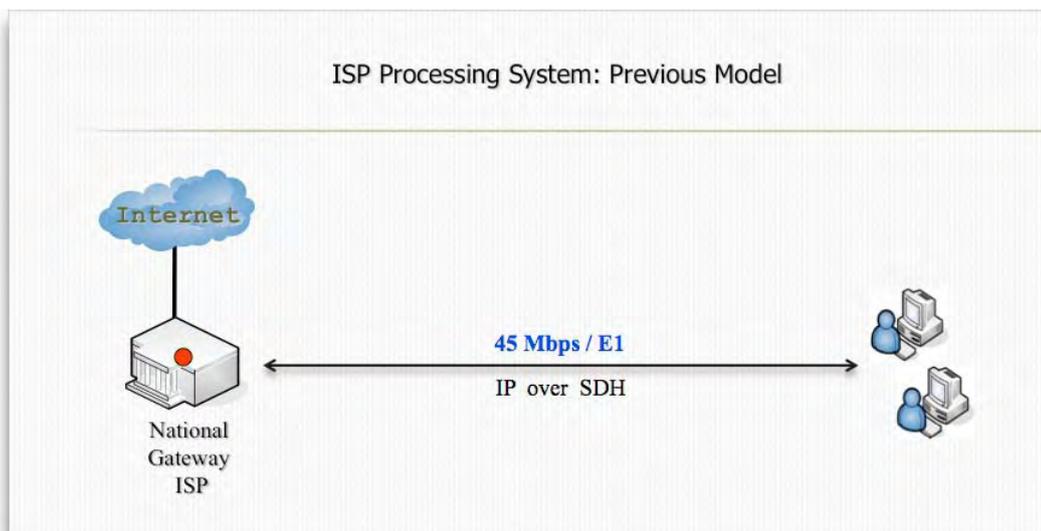


Figure 7: Previous ISP Processing System (2004-October 2010)









## CONCLUSION

It is expected that the Yatanarpon Myanmar National Web Portal will provide faster bandwidth and improved Web services to Burmese Internet users. However, according to the current setup, only users from the government ministries, especially those from the Ministry of Defence, will enjoy faster Internet connection and consequently better Web services.

The FTTH high-tech communication system is an impressive development compared with the previous system. It can also be assumed that the new system will cost more. However, given the low per capita income in Burma, only a tiny fraction of the public will be able to enjoy the FTTH system.

The segregated nature of the new ISP system would also allow the authorities to shut down the civilian ISP without affecting the two other ISPs that serve the government and the military. The authorities are likely to use that opportunity to stifle freedom of press and expression.

The new system also grants the military exclusive control over the Hantharwaddy National Gateway. The military is therefore now in a position to spy on all Burmese citizens – civilians, soldiers and government service personnel.

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