Headline Wi wi for wider broadband coverage

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## Wi-Wi for wider broadband coverage



The digital divide is seen as a stumbling block on the path towards progress in the knowledge-based economy. Developing countries are looking to next-generation networks (NGNs) as the only way to meet their ICT development goals. Locally, research and development powerhouse Mimos Bhd is cooking what it calls Wi-Wi - a combination of WiMax and Wi-Fi technologies - said to allow affordable and wider coverage of broadband access. IZWAN

ISMAIL has the story.

frequency division multiplexing (OFDM), broadband over wireline and high latitude platforms.

To add to the number of these technologies and give more options to the Government and service providers, Mimos Berhad has announced its wireless broadband initiative called Wi-Wi. According to the company's head of wireless communications cluster Dr Mazlan Abbas, the solution that Mimos is developing uses both WMAs and Wi-Fi technologies, hence the name Wi-Wi. "What we are developing is a hybrid solution between a base station, cuter, relay station, access point and gateway that provides a Wi-Fi access and WiMax backhau!" he says, adding that due to the relay and mesh capability. Wi-Wi can extend the coverage further. This Wi-Wi initiative is also part of Mimos' agenda as a strategic agency under Science, Technology and Innovation Ministry (Most) to champion ICT advancements for the nation.

WIRELESS, THE WAY TO GO.

Mazlan says wireless is the cheappest way to consider length and the proposition of the post party or oronide Internet access to most parts.

WIRELES, THE WAY TO GO.
Mazian says wireles is the cheapest way to provide Internet access to most parts of the country. Traditionally, Internet access which utilise copper wires or fibre optics are expensive and difficult to implement due to the issues of last-mile connectivity such as the need to dig the trenches and the degradation of quality of the old copper wires. Also, there is

limitation of distance when using copper as the last mile. Explaining further on the workings of Wi-Wi, Mazlan says the technology provides a WH-Taccess or hotspot for users with WH-Ti devices such as laptop reproad legibla assistant (PDA). "However, it will use WiMax technology due to its high capacity and the ability to transmit further distance to carry the user traffic over a backhaul network or the backbone," he says. WW-Wi scorligued in a mesh network whereby all the WI-Wi devices will connect to one another, thus provide the extended distance and better reliability.

wi-wi ADVANTAGES. Most of the current implementations of WiWax, WFF for third generation (3G) are stand-alone networks. Other implementations which are integrated, combining WFF and WM&x, are configured in a point-to-point or point-to-multipoint network. Mazlan says Mimos' WFW enhances the current WM&x protocol to the next level by including meth, which provides a higher throughput and can carry bigger bandwidth over the WFW

network. "It's not only running IPv4 but also IPv6, which is the next-generation protocol that provides IP (internet protocol) that provides IP (internet protocol) with the provides IP (internet protocol) with the says.

PROJECT'S PROCRESS. Currently, Mirnos has developed the first generation W-WH prototype, which is critical used in "star" configuration.

"The mobile IPv6 and multicasting communications stack, which is critical for the mobility and IPTV, has also been developed. We are still developing the core W-WH protocol which is meant for the second-generation W-W," says Mazian.



