

the global connectivity experts™

Future Fiber Architectures and Local Deployment Choices: Architecture Choices and Service Offerings

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Nominal vs Effective Bandwidth

• When discussing availability of bandwidth it's easy to confuse nominal (ie. advertised) with effective bandwidth.

Bandwidth constraints per technology

	End	Home		Access	Transport	Core	Peering	Inter-	Samora	
	Device Network			Network	Network Network		Network Transit		net Servers	
xDSL	LAN Card	WiFi	Chipset	Attenuation (Up to 40Mbps/user)	Backhaul Capacity	None	Commercial Deals	n/a	Server Load	buud
Cable	LAN Card	WiFi	Chipset	Shared Capacity (160Mbps / ~200 users)	Backhaul Capacity	None	Commercial Deals	n/a	Server Load	nkee Ground
Fiber EP2P	LAN Card	WiFi	Chipset	None (1Gbps/user)	Backhaul Capacity	None	Commercial Deals	n/a	Server Load	Source: Va
Fiber xPON	LAN Card	WiFi	Chipset	Shared Capacity (2.5Gbps/ 30 users)	Backhaul Capacity	None	Commercial Deals	n/a	Server Load	

 In the access part of the network, the least constrained technology is Fiber EP2P followed by Fiber xPON, and XDSL/Cable roughly equal.

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Availability of 100Mbps service

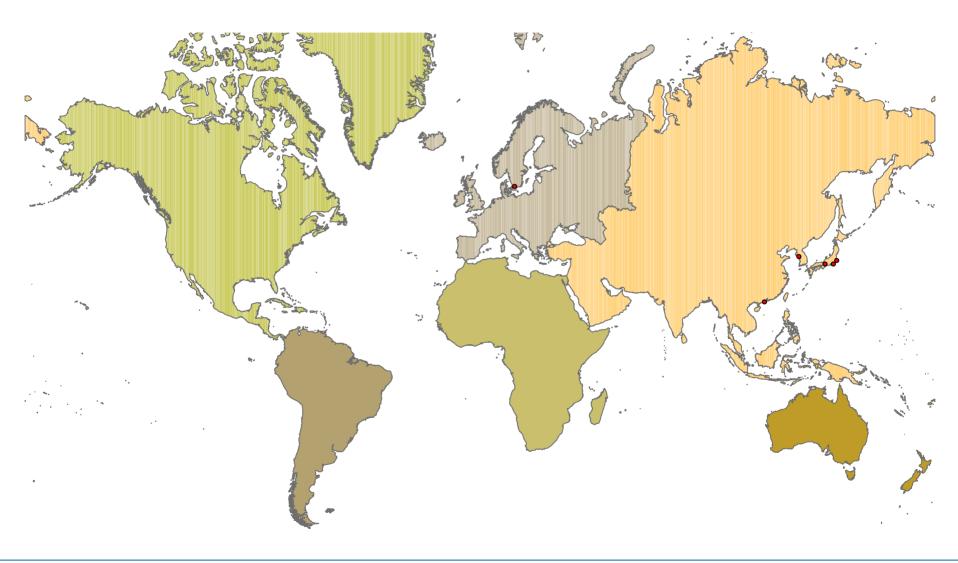
Availability of 100Mbps service in 2009

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Availability of 1Gbps service

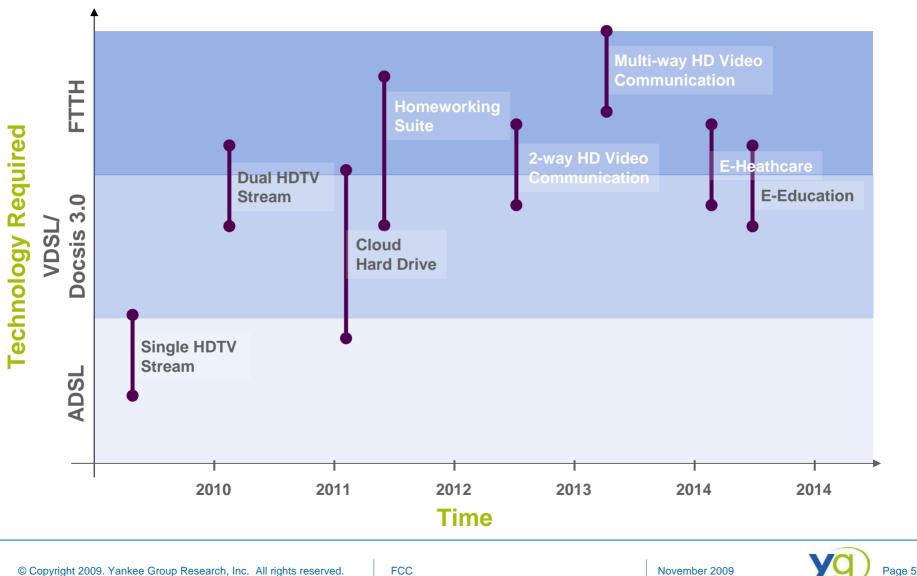








Tech Requirements of Next Gen Services



Pricing

		download	upload	Price (Local) (N	Price Norm. USD	Services) Included
free		100Mb/s	50Mb/s	EUR/m 30	31/m	IPTV (150+), HDTV, WiFi, VoIP (free wireline 140 countries)
P T		100Mb/s	10Mb/s	EUR/m 55	82/m	IPTV (100), HDTV
● 香港 電頻	*)	100Mb/s	100Mb/s	HKD/m 99	17/m	-
Bredband 2 Via Europa		100Mb/s	100Mb/s	SEK/m 399	43/m	-
🕐 NTT		100Mb/s	50Mb/s	JPY/m 5649-7329	49-63/m	-
MCABLEVISION		101Mb/s	15Mb/s	USD/m 105	105/m	-

