

**TRAI CONSULTATION PAPER ON BANDWIDTH REQUIRED FOR ISPs FOR BETTER CONNECTIVITY & IMPROVED QUALITY OF SERVICE, DATED: 15.01.2009:**

**ISSUES FOR CONSULTATION**

1. In order to ensure sufficient bandwidth for good quality broadband service, should some "Thumb Rule" for maximum contention ratio be fixed for dial up, broadband, high bandwidth services & leased line Internet access? If so what should be the values for different Internet services:

Services	Maximum contention ratio For Home Users	Maximum Contention Ratio For Business users
Dialup		-----
Broadband		
High Bandwidth Services (like IPTV etc.)		-----
Leased Line	-----	

Give your suggestions with justification.

2. Will defining contention Ratio likely to impact prevailing Internet/Broadband packages to access Internet? Give your suggestions with justification.
3. Any other suggestion to improve quality of Internet/Broadband access to end users?

**HCL's response:** As the Bandwidth of customer links sharing the same bandwidth capacity, normally/ practically differs to each other & varies from say 64Kbps to 2Mbps, fix number of the links to share different units of same bandwidth, may not be ascertained. As such fixing maximum contention ratio for dial up, broadband, high bandwidth services & leased line Internet access etc. logically will not be justified, because due to different bandwidth of sharing links, total bandwidth of different bunch of the fixed number of sharing links shall not be the same always. However to have better connectivity & improved quality of service, benchmark of %ge of bandwidth utilization may be fixed say 80% to 90% of the total available bandwidth.



04 FEB 2009