

## Why 10 clients per AP?

### Background:

The problem with other vendors is that they refer to the theoretical amount of clients per AP when asked. We calculate a good bandwidth per client when we recommend a solution to ensure the stability and performance of the installation.

Yes, our AP's can handle 256 clients in theory, but that will not give the performance we say you should expect. It would probably not work well at all.

Let's stick to the 802.11a and 802.11g standards.

### Facts:

802.11a and 802.11g has a raw data transfer of 54 Mbps. There is a lot of overhead traffic that consumes almost half of the raw data speed. We will end up with around 25 Mbps of actual bandwidth. Observe that the speed is not vendor specific, but set by the standard.

### Shared bandwidth:

Now all clients connected to this AP will have to share approximately 25 Mbps.  
( $25/10 = 2.5$  Mbps /client.)

This recommendation is suitable for business implementation, but for a school it might be enough with 1 Mbps per client, thus enabling you to have more than 20 clients per AP.

### Information:

Did you know that we have a function in our AP's called "Grouping" that enables you to set a client limit? It is disabled from start, but can easily be enabled thru the web administration page in the AP.

