



Islander March 2012 Technology Update

Today's lesson is about numbers – big ones!

Before you read on, I think it may be a good idea to define the terminology used to describe data quantities. It's really useful to understand what these quantities mean in real terms and with everyday measures. The reason being is that a recent report from Cisco, which I mention later, is meaningless without this technology update.

You don't have to have a first class honors' degree in Advanced Maths to understand this. We are having to define new terms to get a grasp of the growth in this technology. So let's start from the basics.

A **byte** is a unit of digital information in computing and telecommunications, which for the sake of argument, consists of 8 bits. Historically, a byte was the number of bits used to define a single character of text such as "h" or "b".

One byte is 8 bits:

This is a single letter.

A kilobyte is a thousand bytes:

This is a third of an A4 page of text.

A megabyte is a thousand kilobytes:

This is one photo of about 1950x1200 resolution.

A gigabyte is a thousand megabytes:

This is a low resolution movie. 5Gb is an HD movie.

A terabyte is a thousand gigabytes:

This is 2,000 hours of CD quality audio.

A petabyte is a thousand terabytes:

The adult human brain has been estimated to store the equivalent on 2.5 petabytes of binary data.

An exabyte is a thousand petabytes

This is equivalent to 20,000 times all the books in the world ever written!



The incremental amount of traffic being added to the mobile Internet between 2015 and 2016 alone is approximately three times the estimated size of the entire mobile Internet in 2012, according to Cisco. "By 2016, 60 percent of mobile users -- 3 billion people worldwide -- will belong to the 'Gigabyte Club,' each generating more than one gigabyte of mobile data traffic per month," said Cisco's Suraj Shetty. "By contrast, in 2011, only one-half percent of mobile users qualified. This impressive growth in mobile traffic will be driven by more powerful devices, notably smartphones and tablets, using faster networks, such as 4G and Wi-Fi, to access more applications, particularly data-intensive video."

These are very big numbers aren't they?

A couple of observations to add to this extraordinary set of figures. There is already a "Gigabyte Club" in the super yacht market. During this last 2011 Med summer we have seen multiple gigabytes being demanded by large yachts when owners and guests are on board. Will this become the "Terabyte Club" by 2016?

It seems evident that the Capacity Crunch will be a feature for some years to come as the demand grows and the infrastructure development plays catch-up, whether via the introduction of the land-based networks with LTE and 4G or Inmarsat's Global Express new VSAT services or, of course, any yet to be heard of new technologies.

Enough of the maths – how about some new gadgets? Of all the gadgets I get to see each month, these two have caught my attention, and I have desires on them both

Wowee One Vue

Firstly from WOWee, the inventor of the gel speaker technology. They have been busy and have just launched a new slimmer version that turns any surface into a great speaker.

However, what really excites me is the "about to be launched" **Wowee ONE VUE**. This turns any surface into sights and sounds.

It is a new portable projector. I am sure the WOWee ONE new micro projector will be a great item to own. It will allow you to bring cinema alive with plug-and-play simplicity in your pocket. Any visual material may be viewed through this remarkable device at micro or mega scale—the image will not distort. With the unique, patented green laser technology, images can grow or shrink with no blurring.



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Imagine being able to show presentations, movies, videos on a wall anywhere, in the office, lift, bedroom, on a sail.....

The VUE provides a simple connection to your devices. It requires a single cable for connecting to iPhone, iPad and iPod and a dock for PC and MACs. It will always be in focus. The VUE fits in your pocket but still provides widescreen resolution. Hook up and project in bright, vivid color in seconds with HDMI digital connectivity.

<http://www.woweeone.com/index.php/uk/vue>

Sollis iJacket Sun – ideal for yachties

The iJacket Sun is a cover for an iPhone 4 or 4S that has a thin high capacity backup battery with a solar panel. Wherever you are, power is always available when the sun comes out.



Perfect for anyone in yachting or in fact anyone involved in any outdoor activities.

<http://www.ijacket.net>

So, the conclusion to my column this month is that you will need an iJacket to keep all your telecommunication iDevices fully charged so that you can join in and contribute to the data explosion and become a member of the “Gigabyte Club” and then with the WOWee One Vue you can show everyone your videos anywhere. What better advice can I offer you?

Roger Horner of e3 Systems

For further information on any of the above, please contact us.

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