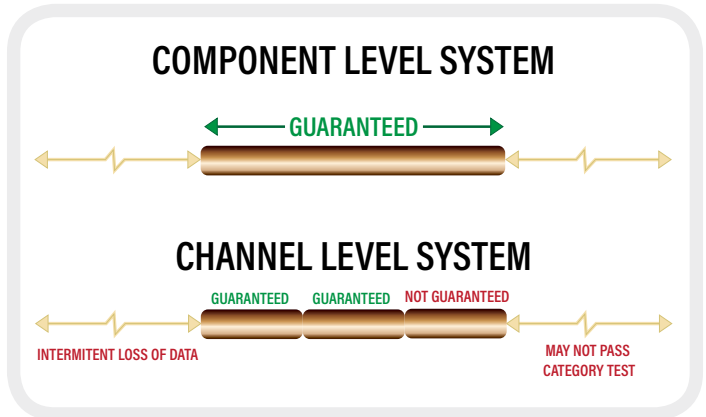# COMPONENT VS CHANNEL - PERFORMANCE



## Guaranteed or Maybe

To begin, there are no such standard transmission performance specifications as "channel-level performance", the term was created for marketing purposes to describe certain products that have parameters much better than that of an average product in the class, yet not sufficient to assign it to the next higher level.

In fact, channel-level components do not pass tests defined by the standards for the category it may have been assigned. Applying this definition to ICT connecting hardware, for example, says that "a channel-level category 6 jack may be used in category 6 structured cabling and the channel incorporating the jack can pass standard category 6 channel test". However, the supplier of such component does not guarantee the product would pass a standard component test as a standalone element.

**COMPONENT LEVEL SYSTEM**

◄———— GUARANTEED ————►

**CHANNEL LEVEL SYSTEM**

GUARANTEED · GUARANTEED · NOT GUARANTEED

INTERMITENT LOSS OF DATA · MAY NOT PASS CATEGORY TEST

The best analogy would be a courier delivery service so let's review the following:

XYZ Express is bound to deliver a parcel from New York to the Florida Keys in 72 hours using truck service. There are several legs between the hubs serviced by the same model trucks with the guaranteed minimum speed and certain capabilities beyond that speed. However, on the last leg XYZ Express can't use a truck and sends a delivery boy riding a bike. A bike is not a truck but it still can produce a maximum speed sufficient to meet the overall time schedule because the trucks on all other legs may drive faster to compensate the bike's slower speed. Even if the parcel is delivered just 5-10 minutes before scheduled, the time requirement is met. XYZ Express calls the bike "our two-wheel, man-powered, eco-friendly truck (i.e., "channel-level truck") and they show the bike as a "channel-level truck" in all their documentation (who cares while the goal is met?).

However, any disturbance or deviation from normal circumstances (old or inefficient vehicles, traffic jams, weather conditions, etc.) may cause the "real" trucks drive at speeds close to the allowed minimum and the schedule requirements would never be met.

What does this all mean for the users of a compromised ICT system? Imagine a form that is opened every five minutes with a 5 second delay due to a network deficiency. A 5 -s delay every 5 minutes translates to a loss of 35 working hours a year.

Contact our Technical Support today for any additional questions:

**techsupport@signamax.com** or **1.800.446.2377**