## Latency

In the future generation wireless systems, the latency will become a key performance metric. Why it is becoming important?



Many applications will require high responsiveness in the interaction with the network



Many applications will require high throughputs at the end users



1)

The end users may have high mobility during their connection



Many applications will use high data processing and computation

## Multi-path

What is important to be modeled in the multipath happening in a wireless communication, to use it constructively?



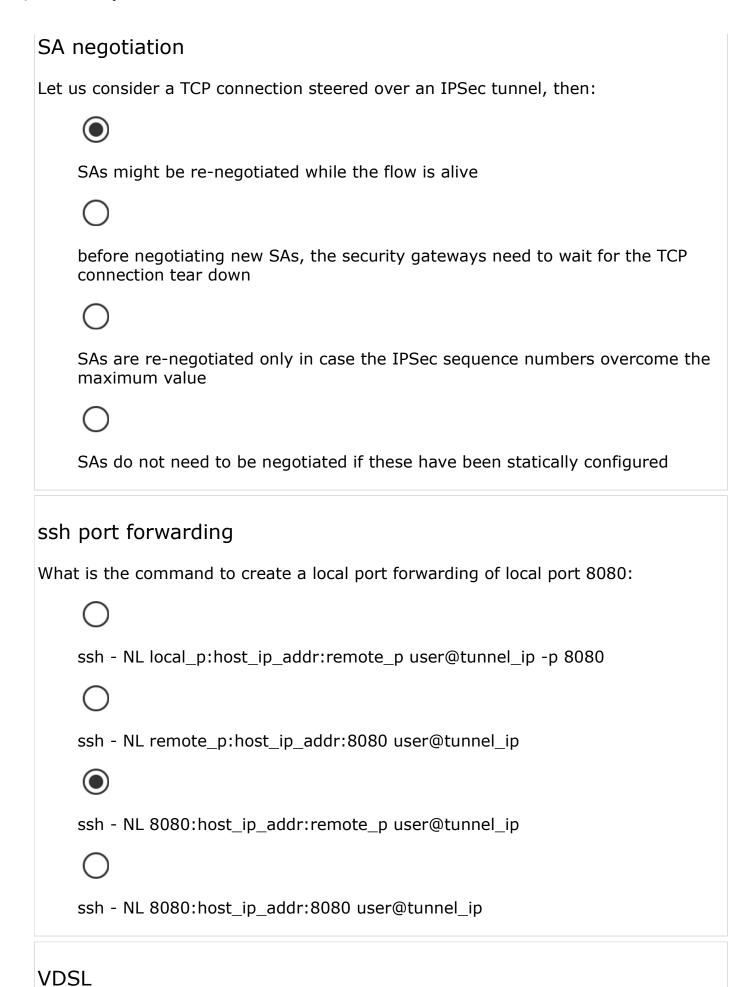
The attenuations and the delays of the different paths

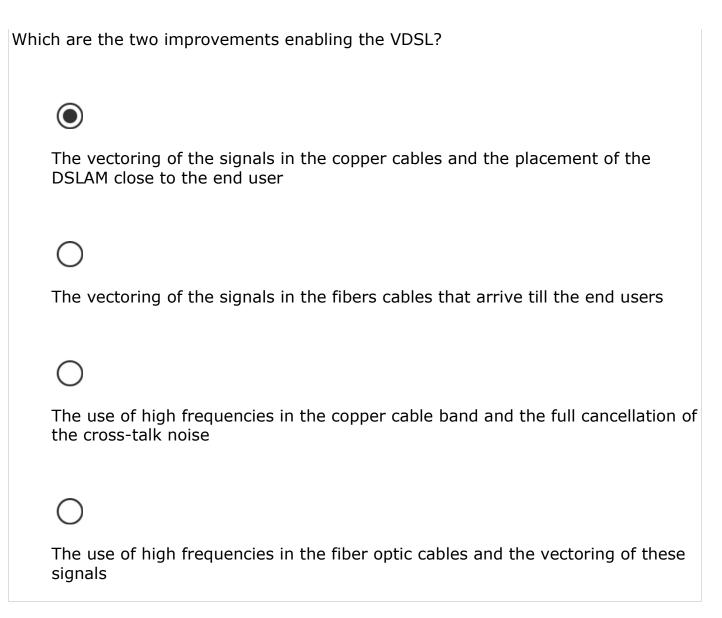
	$\circ$	
	The attenuation of the line of sight path	
	$\circ$	
	The delay of the line of sight path	
	Only the attenuation and delay of the line of sight path	
Outbound IPSec		
With reference to the outbound processing performed by an IPSec peer:		
	the first database that is checked is the SPD in order to determine if the current packet requires security service	
	the first database that is checked is the SAD in order to determine the set of security algorithms to use to handle the current packet	
	the SPI is used to select the proper SA to use to process the incoming packet	
	the SPD and SAD are inspected only if the incoming packet requires IPSec processing	

## packet auth

In order to authenticate the entire IP packet, IPSec peers must use:

AH in tunnel mode
AH in transport mode
ESP with authentication in transport mode
it is not possible to authenticate all the header fields since some of them change value while transiting in the network
PON
Which are the benefits of the Passive Optical Networks compared to the Active ones?
The cost of the infrastructure is lower
It is possible to reach longer distances only with fibers
O
The traffic management is easier
We can avoid to use Optical Network Units at the user side





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