

International Carrier Quality Testing

Who is the best international carrier of choice?

Setting up a call to a subscriber in a foreign country involves the choice of the relevant international interconnection carrier. How much impact has the interconnection carrier on QoS? Who is the best interconnection carrier partner?

There is a need for both mobile and fixed operators to get a global perspective on interconnection service quality in order to maintain high levels of QoS to subscribers. The international interconnection quality experience is heavily influenced by the choice of the international carrier at the national boundary.

CLI success rate [%] - 2010-01-25 00:00 to 2010-02-01 00:0								
	(1)Mon	(2)Tue	(3)Wed	(4)Thu	(5)Fri	(6)Sat	(7)Sun	avg
Chile01	33.33	25	75	100	--	--	--	53.85
Chile02	50	75	50	50	--	--	--	57.14
China01	25	75	33.33	50	75	50	50	51.85
China02	100	100	100	100	100	100	100	100
Columbia01	0	0	0	0	0	0	0	0
Columbia02	0	0	0	0	0	0	0	0
Columbia03	0	0	0	0	0	0	0	0
Czech01	100	100	100	100	100	100	100	100
Czech02	0	25	25	50	25	0	0	18.52
Czech03	100	100	100	100	100	100	100	100
Germany01	100	100	100	100	100	100	100	100
Germany02	100	100	100	100	100	100	100	100
Egypt01	0	33.33	50	66.67	33.33	50	75	47.37
Egypt02	100	100	100	100	100	100	100	100
Egypt03	100	100	100	100	66.67	100	100	96
France01	100	100	100	100	100	100	100	100
France02	100	100	100	100	100	100	100	100
GRBritain01	100	100	100	100	100	100	100	100
GRBritain02	100	100	100	100	100	100	100	100
GRBritain03	100	100	100	100	100	100	100	100
GRBritain04	100	100	100	100	100	100	100	100

Example of international CLI quality testing

Testing with prefixed called numbers requires knowledge about the current setup at the international gateway exchange. The deployment of an SS7 LU directly at the international gateway Exchange ensures dedicated interconnection carrier testing.

Poor CLI and voice quality would inevitably decrease revenue and market share.

By testing international carriers with an active monitoring system, you can not only monitor if the right calling number is displayed abroad but also the voice quality and call setup time, which can be effectively measured and reported.

In addition, international carrier quality testing can be coupled with False Answer and SIM Box Detection.

KPIs (examples):

- Received CLI on destination side
- CLI Indicator distinguishing the following cases:
 - CLI from CgPN ("OK")
 - No CLI ("N")
 - Wrong CLI ("W")
- Mean Opinion Score (PESQ MOS) for Voice Quality (ITU-T P.862.1)
- Call Setup Time



Stay in control of communication beyond your network

For example, if no CLI is received, there would be no possibility to call back and poor voice quality would result in short and frustrating conversations.

Maximising revenue is essential in an environment of falling wholesale prices. This objective can only be achieved if you have consistently high quality on your network and on your international interconnection.

