## **VoSeT - Voice test KPI definition** in compliance with Orange Group MSAD

Voice call test KPIs for 2G/3G/4G CSFB		
KPI name	KPI description	
Calls	Number of all success and failed attempts	
	Number of all success attempts in percentage:	
Call Success Rate /%/	All successful attempts x 100%	
	All attempts	
Post Dial Dolay (soc)	An average time of time when VoSeT Master (or Slave) receives back RING tone from Slave (or Master). Post Dial Delay (PDD) is experienced by the originating customer as the time from the sending of the final dialled digit to the point at which they hear ring tone.	
Connect time /sec/	An average time taken to establish connection to subscriber. Connect time is a time from VoSeT Master started to dial a telephone number till VoSeT Slave will pick up the phone.	
PESQ or POLQA /MOS/ on both Master and Slave	Level of PESQ/POLQA result (MOS - Mean Opinion Score) 5 - Excellent Imperceptible 4 - Good Perceptible but not annoying 3 - Fair slightly annoying 2 - Poor Annoying 1 - Bad Very annoying	
CSFB redirection from 4G to 3G/2G	It is a time from the end of dialing till modem is registered in 3G or 2G	
Fast return from 2G/3G to 4G	It is a time from the end of voice call till modem is registered back in 4G	

Voice call test KPIs for fixed networks		
KPI name	KPI description	
Calls	Number of all success and failed attempts	
Call Success Rate /%/	Number of all success attempts in percentage:	
	All successful attempts x 100%	
	All attempts	
Post Dial Delay /sec/	An average time of time when VoSeT Master (or Slave) receives back RING tone from Slave (or Master). Post Dial Delay (PDD) is experienced by the originating customer as the time from the sending of the final dialled digit to the point at which they hear ring tone.	
Connect time /sec/	An average time taken to establish connection to subscriber. Connect time is a time from VoSeT Master started to dial a telephone number till VoSeT Slave will pick up the phone.	
PESQ or POLQA /MOS/ on both Master and Slave	Level of PESQ/POLQA result (MOS - Mean Opinion Score)	
	5 - Excellent Imperceptible 4 - Good Perceptible but not annoving	
	3 - Fair slightly annoying	
	2 - Poor Annoying	
	1 - Bad Very annoying	

VoLTE & VoWiFi test KPIs	
KPI name	KPI description
Calls	Number of all success and failed attempts
	Number of all success attempts in percentage:
Call Success Rate /%/	All successful attempts x 100%
	All attempts
Call Setup Time /sec/	CallSetupTime is the interval between sending INVITE message by the originating side and receiving message 180 Ringing from the terminating
	side
Connect time /sec/	An average time taken to establish connection to subscriber. Connect time is a time from VoSeT Master started to dial a telephone number till
	VoSeT Slave will pick up the phone.
	Level of PESQ result (MOS - Mean Opinion Score)
	5 - Excellent Imperceptible
PESQ or POLQA /MOS/ on both Master and Slave	4 - Good Perceptible but not annoying
sides	3 - Fair slightly annoying
	2 - Poor Annoying
	1 - Bad Very annoying
CSFB redirection from 4G to 3G	It is a time from the end of dialing till modem is registered in 3G if VoLTE or VoWiFi is unavailable
Fast return from 3G to 4G	It is a time from the end of voice call till modem is registered back in 4G if VoLTE or VoWiFi is unavailable

Voice call test KPIs for OTT Android services (WhatsApp, Viber, etc.)		
KPI name	KPI description	
Calls	Number of all success and failed attempts	
Call Success Rate /%/	Number of all success attempts in percentage:	
	All successful attempts x 100%	
	All attempts	
Call Setup Time /sec/	CallSetupTime is the interval between sending INVITE message by the originating side and receiving message 180 Ringing from the terminating side	
Connect time /sec/	An average time taken to establish connection to subscriber. Connect time is a time from VoSeT Master started to dial a telephone number till VoSeT Slave will pick up the phone.	
PESQ or POLQA /MOS/	Level of PESQ result (MOS - Mean Opinion Score) 5 - Excellent Imperceptible 4 - Good Perceptible but not annoying 3 - Fair slightly annoying 2 - Poor Annoying 1 - Bad Very annoying	

IVR test KPIs for 2G/3G/4G CSFB		
KPI name	KPI description	
IVR Calls	Number of all success and failed attempts	
IVR Call Connection Success Rate /%/	Number of all success attempts in percentage:	
	All successful attempts x 100%	
	All attempts	
PESQ or POLQA /MOS/ for IVR Menu #1	Level of PESQ/POLQA result (MOS - Mean Opinion Score) 5 - Excellent Imperceptible 4 - Good Perceptible but not annoying 3 - Fair slightly annoying 2 - Poor Annoying 1 - Bad Very annoying	
PESQ or POLQA /MOS/ for IVR Menu #2	Level of PESQ/POLQA result (MOS - Mean Opinion Score) 5 - Excellent Imperceptible 4 - Good Perceptible but not annoying 3 - Fair slightly annoying 2 - Poor Annoying 1 - Bad Very annoying	

Voicemail test KPIs for 2G/3G/4G CSFB		
KPI name	KPI description	
Voicemail Calls	Number of all success and failed attempts	
	Number of all success attempts in percentage:	
Voicemail Call Connection Success Rate /%/	All successful attempts x 100%	
	All attempts	
SMS notification delivery time /s/	Average of delivery time of all success attempts during day.	