		Cey Performance Indikator		Key Performance Indikator	Definition	Formula
Service i	vice independ QoS Parameters					
	1	Radio Network Unavailability [6]			Probability that the mobile services are not offered to a user.	Radio Network Unavailability [16] , Proteing attempts with mobile services not available x 100 all proteing attempts
	2 1	Net work Non-Accessibility [6]		(Mainual   Automatic) Network Selection and Registration Failure Ratio (KG)	Probability that the user cannot perform a successful selection and registration on the desired PLAM (manual selection mode, automatic selection mode with odiped desired PLAM) or on some PLAM (automatic selection mode without a defined desired PLAM).	
				[Manual   Automatic] Network Selection and Registration Time [s]	Time it takes the user to perform a successful whiction and registration on the desired PLMN (manual selection mode, automatic selection mode with a defined desired PLMN) or on some PLMN (automatic selection mode without a defined desired PLMN).	Network Selection and Registration Time [s] = (*start of network selection and registration attempt = "successful network selection and registration [ls]
		Attach Failure Ratio [6]			The attach failure ratio describes the probability that a subscriber cannot attach to the PS network.	Matech Palsumbario (Ni) = unsoccossful Folf content activation attempts x 100 all attach attempts
	4 /	Attach Setup Time [k]			The attach setup time describes the time period needed to attach to the PS network.	Attach Scrup Time (s)* (Pattach complete "fattach request) [6]
1	5	PDP Context Activation Failure Ratio [K]			The PDP context activation failure ratio denotes the probability that the PDP context cannot be activated. It is the proportion of unsuccessful PDP context activation attempts and the total number of PDP context activation attempts.	POP Context Activation follower Ratio (%) = serviceses full POP context activation attempts x 100 all POP context activation attempts x 100
	6 1	PDP Context Activation Time [6]			The PDP context activation time describes the time period needed for activating the PDP context	POP Contest Activation Time (s)- (1900-contest activation accept "9'00-contest activation request ) [4]
1	7 1	PDP Context Cut-off Ratio [6]			The PDP context cut-offratio denotes the probability that a PDP context is descrivated without being initiated intentionally by the user.	POP Context Cut - off Ratio (Pot - all successfully activated POP context. X 100
		Data Call Access Failure Ratio (%)			A subscriber (A-party) wants to take advantage of a given service offering (as shown by the network ID in the display of his user equipment) and establish a data call to a 8-party. The failure of the data call access from initiating the data call to all-ring is covered by this parameter.	Outs CallAccess Failure Natio (Pc) - Williscoccessifi data call accessate some 500 - all data call accessate empts 500
	9 1	Data Call Access Time [s]			A subscriber (A-parry) wants to take advantage of a given service offering (is shown by the network II) in the display of this user equipment) and establish a data call to a B-party. The time elapsing from initiating the data call to alerting or a busy signal is covered by this parameter. This parameter is not calculated unless the call attempt is successful and not cut off Malprehous and the successful and the subscriber of the successful and not cut off Malprehous and the successful and the successful and the successful and not cut off Malprehous and the successful and	Data CallAccess Time(c)- (f <sub>successed</sub> call access <sup>— f</sup> initiation of data call (b)
		ONS Host Name Resolution Failure Ratio [6]			Coass up appears remove.  The DNS has to more resolution failure ratio is the probability that a host name to host address translation of a DNS resolver was not successful.	DRESHOST Name Resolution Failure Ratio (R) - <u>Unissecrest ADMONost name resolution requests</u> x 500 OMS host traine resolution requests
		ONS Host Name Resolution Time [s]				DNS Host Name Resolution Timel: (19 <sub>534454705)erryNesponse "FranciscoStuary 316)</sub>
Direct S	ervi	ces QoS Parameters	1	FTP [Download] Upload] Service Non-Accessibility [6]	The service accessibility ratio denotes the probability that a subscriber cannot establish a PDP context and access the service successfully.	TPPDownload UploadService Non - Accessibility (No.) - Intersected attempts to much the point when content is sent or received.  all attempts to much the point when content is sent or received.
			2	FTP [Download   Upload] Setup Time [k]	The setup time describes the time period needed to occess the service successfully, from storting the dial-up connection to the point of time when the content is sent or received.	TPP (Download   Upload(Setup Time + Claration access successfulSpanicio access stars) (A)
			3	FTP (Download   Upload) IP-Service Access Failure Ratio [K]	The IP-service access ratio denotes the probability that a subscriber cannot establish a TCP/IP connection to the server of a service successfully	FPP[Download]   Upload[ii] - ServiceAccas FailureRatio [XI] - inscreed at attempts to establish an IP connection to the server   x100   all attempts to establish an IP connection to the server   x100
	1	File Transfer (FTP)	4	FTP [Download   Upload] IP-Service Setup Time [s]  FTP [Download   Upload] Session Failure Ratio [K]	The IP-service setup time is the time period needed to establish a TCP/IP connection to the server of a service, from seeding the initial query to a server to the point of time when the content is sent or received.  The session failure ratio is the proportion of uncompleted sessions and sessions that were	PTP(Download) Upload)P - ServiceSetup Time - (S <sub>ervice access successful</sub> - Service access start ) In I
		, , ,	5	FTP [Download] Upload) Session Time [s]	The session time is the time period needed to successfully complete a PS data session.	FPPDownload   Upload Session Failure Natio NJ - uncomplained assistes - successfully started assistes - successfully started desisters - 1000
			6	FTP [Download   Upload) Mean Data Rate [kbit/s]	After a data link has been successfully established, this parameter describes the average	PTP(Downtoad   Liphos/(Session Time» (F <sub>accion</sub> and "-f <sub>accion start</sub>   lol
			7	FTP (Download   Upload) Data Transfer Cut-off Ratio (%)	After a data link has been successfully established, this parameter describes the everage data transfer remeasured through on the entire connection to the swrite. The data transfer shall be successfully terminated. The prenquisite for this parameter is network and survice access.  The data transfer cut-off-ratio is the proportion of incomplete data transfers and data.	Triplowmose   Upiculpinean Data Nate(Inte())* (*data transfer complete ***data transfer start )1(4)   X 100
	1		8	Mobile Broadcast Network Non-Availability (Broadcast Bearer)	transfers that were started successfully.  Probability that the Mabile Broadcast Services are not offered to an end-user by the target natwork ladic ators on the User Equipment (UE) in lide made.	IPTiDeventual ( Updas (Data Transfer Cut off Ratio ( N) = incomplete data transfers to the Cut off Ratio ( N) = incomplete data transfers X 100
			2	Mobile Broadcast Program Menu Non-Accessibility (Bootstrapping Bearer, ESG Retrieval Bearer)	This parameter describes the probability that the Mobile Broadcast Program Menu is successfully accessible by the user when requested	Mobile broadcast ProgramMenu Non. Accessibility (hg)
			3	Mobile Broadcast Program Menu Access Time (Bootstrapping Bearer, ESG Retrieval Bearer)	The parameter Mobile Broadcast Program Menu Access Time is the time period elapsed between a session start attempt of the Mobile Broadcast service and the reception of the complete menu channels list. Hieraby, the time the device requires to discover the avoilable channels for the first time is considered.	Mobile Broadcast Program Menu Access Time [i] = (T-program menu reception ""-program menu-request   [ii]
			4	Mobile Broadcast Channel Non-Accessibility (Broadcast Bearer)	Probability that the requested Mobile Broadcast channel is not started to be delivered to the user. This parameter applies also to supping situations in which the user changes the offered streaming content frequently in short intervals.	Mobile-broadcast ProgramMens Non -Access biblity [b], = unsuccessful dealmel access attempts x 100 all channel attempts x 100
			5	Mobile Broadcast Channel Access Time Broadcast Bearer)	The parameter Mobile Broadcast Channel Access Time is the time period elapsed between the user's request to access the channel and the Channel reception/displayed.	Mobile broadcast Channel Access Time (b) = (*Channel reception = *Channel request ) (c)
			6	Mobile Broadcast Interactivity Response Failure Ratio [Mobile Network Bearer] [Broadcast Bearer]  Mobile Broadcast Interactivity Response Time [Mobile Network	The Mobile Broadcast Interactivity Regionar Failure Ratio innecurums the probability that a sensire request of Mobile Broadcast survive is an interactive chroninal data or research in expected reaction (i.e. changes in content updated due to user's interaction, reception of any kind of proficiation to the user, etc.) or either the broadcast bearer or the mobile naturals beaver.	Mobile Broadcast interactivity Response PallureBatio (%) =ensurconstitutibility Broadcast service most cover simposes.  ##################################
	2.	Mobile Broadcast	7	Bearer) [Broadcast Bearer]  Mobile Broadcast Session Cut-off Ratio (Broadcast Bearer)	service request attempt of the Mobile Broadcast service via an interactive channel and the reception of a notification to the user.  Session Cut Off denotes the probability of abnormal termination of the specific service	Mobile Broadcast Interactivity Response Time [6] - (*Genica repsonse "Senica request) [6]
			8	Mobile Broadcast Service Integrity (Broadcast Bearer)	requested by the user  Mobile Broadcast technology poves the way for network operators and service providers to offer a huge polette of mobile services, which can be divided in the following categories:	Mobile Broadcast Session Cut - off Radio - 56.1 - all successfully statisticated assistance 2 and 3 an
			9			Mobile broadcast tree sactivity: Response failure Ration   Ref.   = \frac{\interface \text{Line Applied as distributes waters "riginal weak."}}{\text{"respondention finished "respondention started}} \times \text{200}
			10	Mobile Broadcast Reproduction Soft Cut-off Ratio (Broadcast Bearer)	Reproduction Self Cut QT denotes the probability that the end-user cannot see normally the channel when connected to the specific service.	$ \frac{\sum^{n}_{0} \text{disk discald satt interactivity Negocine Failure Nation} \left[ \frac{n}{2} \right]}{\sum^{n}_{0} \text{production National }} \frac{\sum^{n}_{0} \text{Negocine National }}{\sum^{n}_{0} \text{production National }} \frac{x \times 200}{x \times 200} $
			11	Mobile Broadcast Reproduction Hard Cut-off Ratio (Broadcast Bearer)	Reproduction Hard Cut Off denotes that the end-user cannot see normally the channel when connected to the specific service.	Mobile Broadcast Reproduction Mare Cut - off Ratio [96] = \frac{\sum_{\circle} \langle \text{Build audio/video resizer \(^{-1}\text{eignal labelest}\)}{\(^{1}\text{reproduction flinkbut}\) \(^{-1}\text{reproduction flinkbut}\) \(^{-1}\text{eignal labelest}\)
			12	Mobile Broadcast Audio Quality (Broadcast Bearer)  Mobile Broadcast Video Quality (Broadcast Bearer)	Mobile Broadcast Audio Quality describes the audio quality as perceived by the end-user. Since the streams can contain but not only speech information, an algorithm like ITU Recommendation — 882 12 (in a resultable for all scennics and should not be used Mobile Broadcast Video Quality describes the video quality as perceived by the end-user.	Thd.
		Ping		Ping Bound Trip Time [ms]	The round trip time is the time required for a packet to travel from a source to a destination and back. It is used to measure the distay on a network at a given time. For this measurement the service must already be established.	Pring Record Fig Time (ma) - (*packet received **spacket sent (ma).
	3		1	PoC Regis tration Fail ure Ratio (%)	The PuC registration failure ratio is the probability that the terminal cornect register with the Push to Talk over Cellular service when requested.	Psc Registration Fallure Ratio 16., "exercised McC optitation attempts at Not registration attempts x 100
			2	PoC Registration Time [s]	The PoC registration time is the time period between the registration request of the PoC service and being registered to the PoC service.	Poc. Registration Time (b) = (*Proc.Nealizable = **Proc.Neirosete (b) 1.1
			3	PoC Publish Failure Ratio (K)	The PoC publish failure ratio is the probability that the terminal connot successfully publish his PoC service settings to the PoC server, after the terminal is registered to the PoC service.	PoC Publish Pather Ratio (%)   winecreeded NC publish artisenges   x100   all PoC publish artisenges x 100
			4	PoC Publish Time [s]	The PoC publish time is the period of time that it takes to publish the terminal's PoC service settings to the PoC server.  The BoC service fields and fine period of the	PoC Politish Time (b) = (*p <sub>DCPNBTS</sub> ASEM = **p <sub>DCPNBTS</sub> ASEMT   f s)
			5	PoC Registration Failure Ratio (long) [95] PoC Registration Time (long) [6]	The PrOC registration failure ratio (long) is the probability that the terminal connot successfully be registered to the ProC service and publish his ProC service settlings  The ProC registration time (long) is the combined duration for a SIP registration and a SIP.	Poc Registration Faiture Ratio (rough fix' — air Poc registration (rough attempts 1 200  Poc Registration from (rough fix) — Opportunition — "Proceding attempts 1 11  Poc Registration from (rough fix) — Opportunition — "Proceding attempts 1 11
			6	PoC Session Initiation Failure Ratio (on-demand) (K)	publish.  The PoC session Initiation failure ratio (on-demand) is the probability that a PoC session cannot be successfully initiated. A PoC session is initiated when the user pushes the PoC botton on the terminal (and thereby expenses to all & unit) and spanned and kururt	PscCaspitation Time (sing) (%) = (PspcCasbisted = *PspcCasbisted = *Pspc
			8	PoC Session Initiation Time (on-demand) [s]	The PoC session initiation time (an-demand) is the time period between pushing the PoC button on the terminal in order to initiate a PoC session and being granted the talk burst,	In Conscious Institution Time (bit - demand) [16] = (Tages provined - Free Country pressed [14]
			9	PoC Session Media Parameters Negotiation Failure Ratio (pre- establis hed) [50]	e.g. indicated by a "Deep"-tone on the terminal.  The Pro: Session media parameters regariation failure ratio (see-established) is the probability that negariation procedure of media parameters for a posterior pre- established session cannot be successfully accomplished.	PoCSession Media Parameters Negotiation Failure-Basic give - established (%) — with screenful magnitudes attempts x 100 all registration attempts x 100
			10	PoC Session Media Parameters Negotiation Time (pre-established) [s	The PoC session media parameters negotiation time (pre-established) describes the time period needed to accomplish a successful negotiation of media parameters.	ProClession Media Parameters Negerilation Time give -established[6] = (C <sub>OX.RECOVED</sub> = "fregetiation initiation   1   1
			11	PoC Session Initiation Failure Ratio (pre-established) [K]	The PoC session initiation failure ratio (pre-established) is the probability that a pre- established session cannot be successfully initiated. After the responsition of media parameters, a pre-established session is initiated when the user pushes the PoC button on the terminal fund thereby requests the talk burst; and is greated the table burst.	NoClassion inflation failure Ratio (pre - established)   N <sub>1</sub>   - unincidental pre - established esison inflation attempts x   100   20   20   20   20   20   20   2
			12	PoC Session Initiation Time (pre-established) [s]	The PoC session initiation time (pre-established) is the time period between pushing the PoC button on the terminal in order to initiate a pre-established session and being granted the talk burst, e.g. indicated by a "beep"-tone on the terminal.	PoCSession initiation Time (pre - estatrahed) (sd = Obsego received = Proc button pressed) (s)
			13	PoC Session Setup Failure Ratio (on-demand) [65]	The PoC session setup failure ratio (on-demand) is the probability that a terminal cannot successfully register to the PoC service and initialize an on-demand session.	PucClescion Setup Failure Ratio (pn – demand) (fs) = 38 PucC session setup attempts 3 100
		i.				

	PoC Session Setup Failure Ratio (pre-esta 14	tablis hed) [H] The PoC session satup failure ratio (pre-established) is the connot successful register to the PoC service and initialia	probability that a terminal e a pre-established session PoCSession Setup Failure Ratio (pre	- established) [%] = R+S+T all PoCsession setup attempts X 100	
	PoC Session Setup Time [s]	The PoC session satup time is the time period for the regi- time period for the initiation of a PoC session	stration to the PoC service plus the PoCSession SetupTime[s] = (t <sub>bee</sub>	preceived = spoCActivated   [s]	
4 Push to Talk over Cellular (Pot	PoC Push to Speak Failure Ratio [%]	The PoC Push to speak failure ratio is the probability that up a PoC session and start with speech leading to no oth	t terminal A connot successfully set	ReT	
	PoC Push to Speak Time [s]	The PoC push to speak time is the period of time that it to	abor to cature a flori coccine and start	= ReT all PoC push to speak attempts X 100	
	17	with speech in addition to the delay until terminal B reci 6.4.32).	rives the speech (as defined in clause POCPush to speak time B.) = (EB_h		
	PoC Session Leaving Failure Ratio (on-der 18	emand) [%] The PoC session leaving failure ratio (on-demand) is the leave the PoC session he is participating.	robobility that the user cannot PoCSession Leaving FailureRatio (or	- demand) [%] = \frac{\text{unsuccessful PoCsession leaving attempts}}{\text{all PoCsession leaving attempts}} \times 100	
	PoC Session Leaving Time (on-demand) (s 19	[5] The PoC session leaving time (an-demond) is the time pe- demand session leaving request and being disconnected	ind between sending the on- from the on-demond session.  PoCSession LeavingTime (on - dem	and)[s] = (t <sub>session</sub> left -t <sub>session</sub> leave request)[s]	
	PoC Session Leaving Failure Ratio (pre-es 20	es tablis hed) [%] The PoC session leaving failure ratio (pre-established) is leave the PoC pre-established session he is participating.	he probability that the user cannot PoCSession Leaving FailureRatio (pn	e – established) [%] = unsuccessful PoCsession leaving attempts x 100	
	PoC Session Leaving Time (pre-establishe 21	hed] [s]  The PoC session leaving time (pre-established) is the time session leaving request and being disconnected from the	period between sending the PoC Pre-established session.  Pre-established session.	blished)[s] = (t_session left =t_session leave request)[s]	
	PoC Deregistration Failure Ratio [6]	The PoC dereal stration failure ratio is the probability th		unsuccessful PoC dereeistration attempts	
	PoC Deregistration Time [s]	from the Push to Talk over Cellular service when requests		J = <u>unsuccessful PoC deregistration attempts</u> x 100 all PoC deregistration attempts	
	23	The PoC deregistration time is the time period between t successful deregistration from the PoC service.	PoCDeregistration Time [s] = (t <sub>PO</sub>	Cderegistered = Ederegistration request   [6]	
	PoC Busy Floor Response Failure Ratio (% 24	[6] The PoC busy floor response failure ratio is the probabilit talk burst request from the terminal fails.	y that, ance in a PoC session, the PoC Busy Ploor Response Failure Ra	tio %  = unsuccessful talk burst requests x 100	
	PoC Busy Floor Response Time [s]	The PoC busy floor response time is the is the time period and receiving the indication the floor is busy within an a	between requesting the talk burst	(* - 181	
	PoC Talk Burst Request Failure Ratio [%]			(Efloor response — Efloor request) [6]	
	26	terminal's request of the idle floor fails.	PoC Talk Burst Request Failure Ratio	l 96J = unsuccessful talk burst requests x 100	
	PoC Talk Burst Request Time [s] 27	The PoC talk burst request time is the time period betwee being granted the previously idle floor within an alread;	on requesting the talk burst and restablished PoC session. PoCTalk Burst Request Time[s] = (	floor granted —floor request ) [s]	
	PoC Talk Burst Cut-offRatio (%) 28	The PoC talk burst cut-off ratio is the probability that the (terminal A) has the floor and creates and sends data po- media stream), but the stream does not arrive (or arrives	e terminal on the originating side ckets containing speech data (RTP containing speech data (RTP containing speech data (RTP)	dropped talk bursts x 100	
	PoC Talk Burst Packet Drop Ratio [N]	(terminal B).  The PoC talk burst packet drap ratio is the ratio between	the number of data packets		
	29 PoC Voice Transmission Delay (first) [s]	Containing speech data sent by the terminal on the original number of data packets containing speech data receives at The parameter PoC speech transmission delay (first) desc	on the terminating sale (terminal	] = dropped RTP speech packets X 100 all sent RTP speech packets	
	30	terminal sending speech data (RTP media stream) and ti data for the first talk burst ofter a PoC session has been a	te first terminal receiving the speech   PnC Vnice Transmission Delay (Brst)	s. = (t <sub>B_hears</sub> -t <sub>A_speaks</sub> )[s]	
	PoC Speech Transmission Delay (others)   31	The parameter PoC speech transmission delay (others) do a terminal sending speech data (RTP media stream) and speech data (within an already stablished PoC session	escribes the period of time between the first terminal receiving the PoCVoiceTransmission Delay (others	s  = (t <sub>B_hears</sub> -t <sub>A_speaks</sub> )[s]	
	Streaming Service Non-Accessibility (%)	The parameter Streaming Service Non-Accessibility describes of the stream cannot be received by the UE v	when requested by the user. The Streaming Sonero Non - Arrossibility	y(%) = unsuccessful stream request attempts x 100	
	Streaming Service Access Time [s]	"packet reception" is completed by appearance of the "b user side. The parameter Streaming Service Access Time describes i	difference of the project of		
	2	requesting the stream at the partal until the reception of UE.	fthe first stream data packet at the StreamingServiceAccessTimeIs = (	Freception of first data packet — Estreamrequest ) [4]	
	Streaming Reproduction Cut-off Ratio [%]	The parameter Streaming Reproduction Cut-off Ratio de successfully started stream reproduction is ended by a co termination by the user.	acribes the probability that a suse other than the intentional StreamingReproduction Cut - off Ra	tio[%] = uninterionally terminated streamreproductions x 100	
	Streaming Audio Quality	The parameter Streaming Audio Quality describes the au	dia quality as perceived by the end-		
	4 Streaming Video Quality	user. Since the streams can contain and not only speech P.862 is not suitable for all scenarios. The parameter Streaming Video Quality measures the qu		s exist, there are no standardized solutions yet.	
	5 Streaming Audio/Video De-Synchronizatio	The normneter Streaming dustin Addas As-Sun-branian	NOTE 2: Standardization process of eva during the ITU study period 2005-2008.	luation algorithms is on-going and new recommendations are expected	
5 Streaming Video	5 Streaming Reproduction Start Failure Rat	times that time difference of the audio and video signal	ot the user side exceeds a predefined	e Ratio   %   = reproduction failures all successful service accesses X 100	
	7 Streaming Reproduction Start Delay (s)		L		
	8	at UE of the first stream data packet and the start of the UE	reproduction of the stream on the	[s] = (f <sub>start</sub> of streamreproduction —freception of first data packet) [s]	
	Streaming Teardown Failure Ratio (84) 9	The parameter Teardown Failure Ratio describes the pro message is sent from the UE client to the server and no "2 from the server.	bobility that the "Teardown" RTSP $000 \text{ CK" RTSP response is received}$ Teardown Failure Ratio $\%$ = $\frac{\cos \omega}{a}$	swithout teardown server response X 100 Ill teardown attempts by UE client	
	Streaming Teardown Time [s]	The parameter Teardown Foliure Ratio describes the dur the "Teordown" RTSP message and the "200 OK" RTSP res	otion between the UE client sending   Teardown Time is i = (t server reps	onseto teardown message — EUE client sending teardown message ) [s]	
	Streaming Rebuffering Failure Ratio [K]	The parameter Rebuffering Failure Rotio describes the probuffering mode and does not restort the stream reproc	obability that a stream goes into	successful rebuffering attempts X 100	
	Streaming Rebuffering Time [s]	The parameter Rebuffering Time describes the duration rebuffering mode and continuation of the stream, after	hat-one a cream anisa ista	tion of stream — Frebuffering message appears ] [5]	
	Telephony Service Non-Accessibility [6]				
	1	The telephony service non-accessibility denotes the prob access the mobile telephony service when requested if it indicator on the UE.	to offered by display of the network  Telephony Service Non – Accessibility	ty %  = unsuccessful call attempts x 100	
	Telephony Setup Time [s] 2	The telephony setup time describes the time period betw information and receipt of call set-up notification.	nen sending of complete address  Telephony Setup Time [s] = (t <sub>cont</sub>	ect established — fuser presses send button on UE ) [s]	
	Telephony Speech Quality on Call Basis 3	The telephony speech quality on call basis is an indicato the end-to-end speech transmission quality of the mobil commutes the speech quality on the basis of commetted of	representing the quantification of telephony service. This parameter ols. Telephony Speech Quality on Call B Telephony Speech Quality on Call B	asis (receivedA-party) = f MOS-LQO asis (receivedB-party) = f (MOS-LQO)	
6 Telephony	Telephony Speech Quality on Sample Bas	is is The telephony speech quality on call basis is an indicato the end-to-end speech transmission quality of the mobility.		le Basis (received A - party) +MOS - LQO le Basis (received B - party) +MOS - LQO	
	Telephony Cut-off Calli Ratio (%)	computes the speech quality on a sample basis.  The telephony cut-off call ratio denotes the probability in ended by a cause other than the intentional termination.			
	5			unintentionally terminated telephony calls all successful telephony call attempts x 100	
	Telephony CLIP Failure Ratio [6]	The telephony CLIP failure ratio denotes the percentage party number (CPN) parameter was sent but not received	of call setups where a valid calling dintact. Telephony CLIP Failure Ratio [16] =	number of calls received by 8- party without intact CPN number of calls offered by A - party with valid CPN X 100	
	VT Service Non-Accessibility [K]	Probability that the end-user cann at access the service is network indication on the mobile equipment.	then requested while it is offered by  VT Service Non – Accessibility (%) =	unsuccessful video telephony call access attempts all video telephony call access attempts x 100	
	VT Service Access Time (s)	Time between pushing send button after input of MSISDI	N and receipt of alerting at MO side.   VTServiceAccessTime s   = (talertin	g tone — Epush send button ) [6]	
	VT Audio/Video Setup Failure Ratio [60]	Probability of audio/video setup failure after service acc successful if audio and video output is performed at bot	ess. The audio/video setup is  VT Audio/Video Setup Fail are Ratio	audio/video setup failures   x 100   all accepted calls at MT side   x 100	
	VT Audio/Video Setup Time [s]	The elapsed time from the MT call acceptance indicated		accepted care acres 3026	
1.1			at MO side until audio and video   VT Audio/Video SetuaTime <1 = 77	eudio/video start = SMT accentrall) [6]	
	4 VT Cut-off Call Ratio INI	output starts at both sides.  Probability that a successful service access is ended by a	VT Audio/Video SetupTime (3) = (1	audio/video start "fMT acceptscall) [6]	
	5	Probability that a successful service access is ended by a termination of the user (a line or called party).	VT Audiog/Video Setuptime   5  = (t couse other than the intentional VT Cut - off Call Ratio   %  = unsuc s	cessful video telephony call access attempts X 100	
2. Video Telephony	VT Speech Quality on Call Basis	Probability that a successful writer access in ended by termination of the user to thing or called pury). Indicator representing the quantification of the end-to- the Video Reighbory survice. This parameter computes it complete cities.	VT Audio/viola betoprime 3) = (c  Gause other than the intentional  VT Cut – off Call Ratio (%) = \sin \sin \sin \chi \chi \chi \chi \chi \chi \chi \chi		Sion P. RG. 2.1 [9] (10/2003) is. jn 3 400 rej and its connected
2. Video Telephony	5	Probability that a successful service access is ended by a termination of the user faciling or called party.  Indicator representing the quantification of the end-to- the Video Explanety service. The prometer computers	VT Audio/viola betoprime 3) = (c  Gause other than the intentional  VT Cut – off Call Ratio (%) = \sin \sin \sin \chi \chi \chi \chi \chi \chi \chi \chi	could, sides tolaphony call access attempts x 100 indicate bliephony call access attempts x 100 (20/2003) logspither with the related mapping given in ITU-T Recommenda this the optime on discess related to speech transmission quality (100 for through transmission) and the commendation of the commendation of severe related to speech transmission quality (100 for through transmission) AMD-LOO	6600-882.1 99 (30/2003) is 5 1 600 (sq) and fit connected
2. Video Telephony	5 VT Speech Quality on Call Basis 6 VT Speech Quality on Sample Basis 7 VT Video Quality 8 VT Video Quality	Probability that a successful service once on metal by semination of the use is falling or colorid purely. Auditor representation by the use of facilities of the seat to the falling the properties of the properties of the seat to the falling the properties of the properties of the colorid purples of colorid and colorid presentation of the colorid purples of the properties of the properties of the properties of purples of the properties of the properties of the properties of purples. The properties of the properties of the properties of the parameters or purples of the colorid purples of purples of the parameters or purples of the colorid purples of the properties of the parameters or purples.	VI Audio/viceo Schoptress 3) — (if VI Speech Quality on Sample Basis.  If VI Speech Quality on Sample Basis.  If Obe specified.	could, sides tolaphony call access attempts x 100 indicate bliephony call access attempts x 100 (20/2003) logspither with the related mapping given in ITU-T Recommenda this the optime on discess related to speech transmission quality (100 for through transmission) and the commendation of the commendation of severe related to speech transmission quality (100 for through transmission) AMD-LOO	600 F 862 2 1 99 (30/2003) is 5 1 500 (st) and fit connected
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a Web Browsing (HTTP)	5  VT Speech Quality on Call Basis  VT Speech Quality on Sample Basis  7 VT Speech Quality on Sample Basis  7 VT Speech Quality  8 VT Mode Quality  9  VT And To Got Mana One-Way Transmiss  9  VT And Transmiss Speech College (Transmiss)  1 IntTO Service Access Failure Ratio (N)  1 IntTO Service Service State (N)  1 IntTO Service Service Service Service Service Service  1 IntTO Service Servi	Probability that a accessful arrive one can an entered by a semination of the east a failing or coloridary (%).  In this failing is the coloridary of the co	Course other than the institutional VP Audit Creates Striction 3.) — (if V Audit Creates Striction 3.)	received which relies planny cell access attempts x 300  10 Video table planny cell access attempts x 300  10 Video table planny cell access attempts x 300  10 Video table planny cell access attempts x 300  10 Video table planny cell access attempts x 300  10 Video table planny cell access attempts x 300  10 Video table planny cell access attempts x 300  10 Video table planny cell access attempts x 300  10 Video table planny cell access attempts x 300  10 Video table planny cell access attempts x 300  11 Video table planny cell access attempts x 300  12 Video table planny cell access attempts x 300  13 Video table planny cell access attempts x 300  14 Video table planny cell access attempts x 300  15 Video table planny cell access attempts x 300  16 Video table planny cell access attempts x 300  17 Video table planny cell access attempts x 300  18 Video table planny cell access attem	) 3 400 roj sed Is connected

	Web Radio Reproduction Cut-off Ratio (%)			
	Web Radio Reproduction Cut-off Ratio [%] 7	This parameter denotes the probability that a subscriber cannot successfully complete stream reproduction from a given Web Radio station for a given period of time.	Web Radio Reproduction Set – up Failure Ratio %  = \frac{\underscript{\underscript{misuccessful reproduction set - up attempts}}{\underscript{all reproduction set - up attempts}} \times 100	
	Web Radio Audio Quality	Due to the nature of Web radio which is using TCP connections, expected degradation		)
	WLAN Scan Failure Ratio (%)	effects are audio "gaps" (alence) only, resulting in buffer-empty condition resulting from insufficient bondwidth.  The MM AN room billions make deposites the productibility that on desired active 48% round be		
	1	found in an area where WLAN should be present.	WLANScan FailureRatio [%] = unsuccessful scan attempts to scan WLANAPs × 100	
	WLAN Time to Scan [s]	WLANtime to scan denotes the time it takes to scan for available access points.	WLANTime to Scan  s = (T <sub>Scan</sub> result received -T <sub>Scan</sub> started) [s]	1
	WLAN PS Data Service Provisioning Failure Ratio [85]	The WLANPS data service provisioning failure ratio denotes the probability that a user		1
	3	cannot get in position to access services in a WLANarea.	WLAN PSData Service Provisioning FailureRatio %  = \frac{\text{unsuccessful connect attempts}}{\text{all connect attempts}} \times \text{100}	
	4 WLAN PS Data Service Provisioning Time [s]	The WLAN PS data service provisioning time denotes the time it takes until the user is authorized in WLAN and in position to access services.	WLAN PSData Service Provisioning Time [s] = (t <sub>Target</sub> URL received —t <sub>Connect</sub> option selected) [s]	
	WLAN Association Failure Ratio [K]	The WLAN association failure ratio denotes the probability that a user cannot establish a radio link with the chosen access point.	WLANAssociation FailureRatio   %   = unsuccessful association attempts   x 100	
	WLAN Association Time [s]	The WLAN association time denotes the time it takes to associate with the chosen access		
	6	point.	WLAN Association Time [s] = (t <sub>Successful</sub> association = t <sub>Association</sub> start) [s]	
	WLAN IP Address Allocation Failure Ratio [K]	The WLAN IP address allocation failure ratio denotes the probability that a user is not allocated on IP address by the access point.	WLAN IP Address Allocation Failure Ratio [%] = unsuccessful attempts to allocate IP address X 100	
	8 WLANIP Address Allocation Time [6]	The WLAN IP address allocation time denotes the time it takes the access point to allocate	WLAN IP Address Allocation Time[s] = (tip reception -tip allocation start)[s]	
	WLAN Landing Page Download Failure Ratio [66]	on IP address to the user's system.  The WLAN landing page download failure ratio denotes the probability that the landing		
WLAN service provisioning with	9	page to which a user will be redirected for login to the WLAN cannot be successfully downloaded after requesting the target page.	WLAN Landing Page Download Failure Ratio [16] = \frac{\text{unsuccessful landing page download attempts}}{\text{all landing page download attempts}} \times 100	
HTTP based authentication	WLAN Landing Page Download Time [s]	The WLAN landing page download time denotes the time it takes for redirection and download of the landing page provided to lagin to the WLAN successfully, after the user has	WLAN Landing Page Download Time [s] = (t_Landing page successful ly downloaded = tWebpage resquest sent) [s]	
	10	tried to access some webpage.		
	WLAN Landing Page Password Retrieval Failure Ratio [6] 11	The WLAN landing page password retrieval failure ratio denotes the probability that the password to get submitted via the landing page is not received by the user.	WLANLanding Page Password RetrievalFailureRatio [%] = \frac{\text{unsuccessful password retrieval attempts}}{\text{all password retrievalattempts}} \times 100	
	WLAN Landing Page Password Retrieval Time [s]	The WLAN landing page password retrieval time denotes the time it takes to request and	WLAN Landing Page Password Retrieval Time is = (Tpassword received "Fauthoris at ion request submitted) [6]	
	WLAN Landing Page Authorization Failure Ratio (%)	receive a password to get submitted via the landing page.  The WLAN landing page authorization failure ratio denotes the probability that the user		
	13	authorization process via the landing page is not successful.	WLANLanding Page Authorisation FailureRatio [%] = \frac{\text{unsuccessful authorisation attempts}}{\text{all authorisation attempts}} \times \text{100}	
	WLAN Landing Page Authorization Time [6]	The WLAN landing page authorization time denotes the time it takes to perform user authorization via the landing page.	WLAN Landing Page Authorisation Time [s] = (*Lauthorisation confirmed -*Lipassword is submitted) [s]	
	WLAN Re-accessibility Failure Ratio [K]	The WLAN re-accessibility failure ratio denotes the probability that re-accessing the access	was used and all the seconds	
	15	point is not successful because of a WLAN failure.	WLANRe – accessibility FailureRatio [%] = \frac{\text{unsuccessful attempts reaccess}}{\text{all attempts to reaccess}} \times \text{x 100}	
	16 WLAN Re-accessibility Time [s]	The WLAN re-accessibility time denotes the time it takes to re-establish a lost radio link with the access point after the signal is sufficient again	WLAN Re – accessibility Time [s] = (f <sub>AP'SMACa</sub> ddress is available —f <sub>AP</sub> reappears in isst) [s]	
	WLAN Logout Page Download Failure Ratio [K]	The WLAN logout page download failure ratio denotes the probability that the logout process is not successful.	WLANLogout Page Download FailureRatio [%] = unsuccessful logout page download attempts x 100 all logout page download attempts	
	Market and the Construction of Taxable	The WLAN logout page download time denotes the time it takes to perform user logout.	U	
	18 WAP Activation Failure Ratio [6] (WAP 1.x only)		WLAN Logout Page Download Time  s  = (t Logout confirmed "fLogout procedure start)  s	
	1	The parameter WAP Activation Failure Ratio describes the probability that the WAP session could not be activated in case of WAP 1.x connection-mode session service.	WLANLogout Page Download Failure Ratio   % = \frac{\text{unsuccessful logout page download attempts}}{\text{all logout page download attempts}} \times \text{x 100}	
	WAP Activation Time [6] (WAP 1.x only)	The parameter WAP Activation Time describes the time it takes to activate the WAP session		
	WAP Page) IP Access Failure Ratio IS(I)WAP 2.x only)	in case of WAP 1.x connection-made session service.  The parameter WAP (Page) (P Access failure Ratio denotes the probability that a subscriber	WAP Activation Time [s] = (t WAP session established "FWAP session activation request) [s]	
	3	The parameter WAP (Page) IP Access railure Moto devotes the probability that a subscriber cannot establish a TCP/IP connection to the WAP server successfully	WAP(Page)IP AccessFailureRatio[%] = unsuccessful WAP IP Access attempts x 100	
	WAP (Page) IP Access Setup Time [s] (WAP 2.x only)	The WAP Page IP Access Time is the time period needed to establish a TCP/IP connection to	WAP(Page)(P AccessTime [s] = (t WAP IP connection established "SWAP IP connection request) [s]	
	WAP (Page) Session Failure Ratio (%)	the WAP server, from sending the initial query to a server to the point of time when the The parameter WAP (Page) Session Failure Ratio is the proportion of unsuccessful WAP page		
	5	access attempts and sessions that were started successfully.	WAP(Page)Session FailureRatio (%) = unsuccessful WAP page access attempts x 100	
Wireless Application Protocol (WAP)	6 WAP (Page) Session Time [s]	The parameter WAP (Page) Session Time provides the time in seconds between selection of a seecific WAP page and the successful load of the page.	WAP[Page Session Time [s] = (t appearance WAP page -tselection WAP page) [s]	
(WAP)	WAP-Page) Request Failure Ratio [60]	specific WAP page and the successful load of the page.  The WAP Page frequest Failure Batio denotes the probability that a WAP page request is not successful after a timeout period.	WAP(Page) Request FailureRatio[%] =   unsuccessful WAP page request attempts   x 100   all WAP(page) request attempts   x 100	
	<u> </u>			
	8 WAP (Page) Request Time (s	The parameter WAP (Page) Request Time describes the duration between selection of a specific WAP page and the reception of the first data packet containing WAP page content.	WAP(Page)Request Time   s  = (f first data packet reception - f selection WAP page) [s]	
	WAP (Page) Mean Data Rate (libit/s)	The WAP Page/Mean Data Rate denotes the average data rate (WAP throughput) in kbit/s.		
	WAP (Page) Data Transfer Cut-off Ratio (%)	The WAP Page] Data Transfer Cut off Ratio denotes the probability that a data download is	(* last data packet reception = first data packet reception [s]	
	10	incomplete after a timeout period (the download is aborted).	WAP[Page]Data Transfer Cut off Ratio[%] = incomplete WAP page transfer attempts x 100	
	WAP (Page) Data Transfer Time [s]	The parameter WAP (Page) Data Transfer Time describes the duration between the reception of the first data packet and the last data packet containing WAP page content	WAP(Page)Data Transfer Time [s] = (t_last data packet reception == first data packet reception) [s]	
	MTSI Registration Failure Ratio [6]	of the first data packet and the last data packet containing WAP page content  The MTSI registration failure ratio is the probability that the terminal connot register		
	1	towards IMS when requested.	MTSI Registration Failure Ratio [%] = \frac{\text{uns uccessfulMTSI registration attempts}}{\text{aEMTSI registration attempts}} \times \text{100}	
	2 MTSI Registration Time [s]	The MTSI registration time is the time period between the IMS registration request and	MTSI Registration Time [s] = (t MTSIAvailable = tMTSIActivated) [s]	
	MTSI Session Set-up Failure Ratio (%)	The MTSI Session Levels in time period period provided the INSI registration requisit and being registered to IMS.  The MTSI Session Set-up Failure Ratio is the probability that the terminal cannot setup on MTSI session. An MTSI Session is initiated when the user presses the call button and receives a	MTSI SessionSetupFailureRatio[9i] = unsuccessfulMTSI session setup attempts x 100 ailMTSI session setup attempts x 100	
	MTSI Session Set-up Time [s]	notification that the callee answers within a pre-determined time.		
	MTSI Session Set-up Time (s)	The MTSI Session Set-up Time is the time period between initiation of an MTSI session by e.g. pressing the call button and the reception of a notification that the session has been set-up.	MTS iSessionSetupTime [s] = (t user receives notification "fuser initiatessession) [s]	
	MTSI Session Add Failure Ratio [6]	The MTSI Session Add Failure Ratio is the probability that the terminal cannot add a media component. The change is initiated when the user starts to modify an existing MTSI session		
	6		MTS1 SessionAddFailureRatio [%] = unsuccessfulMTS1 session add attempts x 100	]
		alerted about the session change within a pre-determined time. Alternatively the terminating phone can have automatic consent to session changes configured.	anwisi sasaon and artempts	
	6 MTSI Session Add Time [s]	The MTSI Session 4dd Time is the time period from the start if changing a session ladding a	MTS1 SessionAddTime [s' = (t User receivesChangeBot)fication *LUserModifiesSession ] [s]	1
	MTSI Session Remove Failure Ratio [6]	media component) to the reception of a notification that the session has been changed.  The MTSI Session Remove Failure Ratio is the probability that the terminal carn of remove a media component. The removal is initiated when the user starts to modify on existing MTSI.	User receives Change Botification "UserModifies Session   161	
	7		MTS1 SessionRemoveFailureRatio [%] = \frac{\text{unsuccessfulMTS1 session removalattempts}}{\text{all MTS1 session removalattempts}} \times 100	
		callee is alerted about the session change within a pre-determined time. Alternatively the terminating phone can have automatic consent to session changes configured.		I
	MTSI Session Remove Time [s]	The MTSI Session Remove Time is the time period from the start of changing a session (removing a media component) to the reception of a notification that the session has been	MTSI Session RemoveTime s   = (t_User receivesChangeBotification = t_UserModifiesSession ) [4]	
	MTSI Session Completion Failure Ratio [60]	changed.  The MTSI Session Completion Failure Ratio is the probability that a successfully started MTSI.		1
	9	call is ended by a cause other than intentional termination by A- or B-party.	MTSI Session Completion FailureRatio [%] = \frac{\text{unsuccessfully completedMTSI sessions}}{\text{all successfully startedMTSI sessions}} \times 100	
	MTSI Speech Quality	The MTSI Speech Quality represents the end-to-end speech quality of the service.		
	10		The validation of the end-to-end quality is made using MOS-LQO scales. These scales describe the opinion of users with speech transmission and its troubles finoise, robot voice, echo, deposits, time scaling introduced by the jitter buffer etc. Jaccordinator ITU-T Recommendation p. 826 SIB1. The scale used has to be recorted. An assersation for	
	MTSI Speech Transmission Delay [s]			
	11	The MTSI Speech Transmission Delay is the delay between sending speech packets from terminal A to receiving speech packets at terminal B, when the speech is conveyed in the	MTS1 Speech Transmission Delay[s] = (f B_receives -f_A_sends)[s]	
	MTSI Speech Path Delay [s]	context of an MTSI call.  The MTSI Speech Path Delay is the speech delay between reception of speech by the	MTS1 Speech Path Delay[s] = (t B_hears -tA_speeds )[s]	
IMS Multimedia Telephony	12	microphone in terminal A to the loudspeaker playing out the speech at terminal B, when the speech is conveyed in the context of an MTSI call.		
	MTSI Video Quality	The MTSI Video Quality represents the end-to-end video quality of the service.	The validation of the end-to-end quality is made using the MOS scale. This scale describes the opinion of users using	
	13		the video service with its degradations (blockiness, jerkiness, freezes, etc). An aggregation for measurement campaigns or parts of it should be made on video sample basis.	
	MTSI Video Transmission Delay [s]	The MTSI Video Transmission Delay is the delay between sending video packets from	MTSI Video Transmission Delay[s] = (t B_receives -t_A_sends )[s]	1
	14	terminal A, and reception of video packets at terminal B, where the video is transmitted in the context of an MTSI video call.	Talends (1) (1) A minus (1) A sends (1)	l .
	MTSI Video Path Delay [s]	The MTSI Video Path Delay is the delay between capturing of video at terminal A and display of the video at terminal B, where the video is transmitted in the context of an MTSI video	MTSI Video Path Delay[s] = (t B_displays -tA_captures] [s]	
	MTSI Audio/Video De-Synchronization [K]	call.  The MTSI Audi/Nideo De Synchronization is the percentage of time that the time differences		1
	16	of the audio and video signal (the "lip sync") at the receiving side is outside two thresholds, in the context of an MTSI combined aud io frideo call.	MTSI Audio Video De - Synchronization = Video Path Delay versus Speech Path Delay [s] = (f 8_view - f8_hear [s]	]
	MTSI Real-Time Text Failure Ratio [6]	The MTSI Real-Time Text Failure Ratio is the proportion of not displayed letters and total	Number of not displayed letters in realtime tout cossion	1
	17	number of letters sent in a successfully started MTSI real-time text session.	MTSI Real – Time Text Failure Ratio [16] = Number of not displayed letters in realtime text session Number of typed letters in realtime text session x 100	
	18 MTSI Real-Time Text Delivery Time [s]	The MTSI Real-Time Text DeEvery Time is the delay between sending a character from terminal A and reception of the same character in terminal B.	MTSI RealTime Text Delivery Time [s] = (f B _ receives - rA_ sends ) [s]	]
	MTSI Messaging Failure Ratio [K]	The MTSI Messaging Failure Ratio is the proportion of not received messages and sent messages in an MTSI messaging session	MTSI Messaging FailureRatio [%] = Number of not receivedmessages x 100	1
	MTSI Messaging Delivery Time [s]	The MTSI Messaging Delivery Time is the delay between sending a message from terminal A	TABLE DURINGER OF SHIRE THIS SARGES	1
	20 MTSI Messaging Delivery Time (s)	The MTSI Missaging Delivery time is the away between sending a message from terminal A and reception of the same message in terminal B, where the terminals are involved in an MTSI messaging communication.	MTSI Messaging Delivery Time [s] = (t Message_received = tMessage sen)	
	MTSI File/Medi a Sharing Failure Ratio [K]	MTSI messaging communication The MTSI Fleiphedia Sharing Failure Ratio is the proportion of uncompleted file/media sharing sessions and sessions that were started successfully.	uncompleted fle/media sharing sessions	
			MTSI Fle/MediaSharing FailureRatio[%] = uncompleted fle/media sharing sessions x 100 successfully started file/media sharing sessions x 100	
		The Multimedia Telephony File/Media Sharing Mean Data Rate is the average data transfer	MTSI FIe/Media Sharing Mean Data Rate [kbps] = uncompleted fie/media sharing sessions x 100 successfully started fie/media sharing sessions	
	MTSI File/Media Sharing Mean Data Rate (bit/s 22	rate measured of a successful transfer of a file or pre-determined media type		i .
	22			
	MTSI File / Media Sharing Mean Data Rate (bbit/s 22 MTSI Media Setup Time (s) 23	The MTSI Media Set-up Time is the (non-negative) time period between the successful setup of the signalling part of the MTSI call setup, and the receipt of the first packet containing	https://www.sharring.enum.cusa.htmle.pdp.i =successfully.started file/media.sharing.session;	
	MTSI Media Setup Time [s]	The MTSI Medio Set-up Time is the (non-negative) time period between the successful setup of the signalling part of the MTSI call setup, and the receipt of the first packet containing valid (i.e. expect ed) media payload.	MTSI Media Setup Time = max [ (* fest valid media packet received "-tsuccessful signalling setup") , 0 ]	
	22 MTSI Mirdia Setup Time (s.) 23	The MTSI Medio Set-up Time is the (non-negative) time period between the successful setup of the signalling part of the MTSI call setup, and the receipt of the first packet containing valid (i.e. expect ed) media payload.		
	22 24 MTS Media Setup Sime (s) 25 MTS Media Add Time (s) 24	The MTDL Media Set up Time is the joan-engotive) time period between the successful straps of the signal tine period between the successful straps of the signal tine period the Set and time, and the receipt of the first packet containing while if a respected time and period.  The MTDL Media Add Time is the finan engotine period between the successful Change of the section flowing me anticol repolating a market encepted of the first packet containing wild (i.e. expected playing a for the new media component.	LMSS Media Setup Time = mint [17 isos valid media packet received = Successful signature entrop 1 : 0 !  MSS Media Add Time = mint [17 isos valid media packet received = Successful signature entrop 1 : 0 !  MSS Media Add Time = mint [17 isos valid media packet received = Successful signature entrop 1 : 0 !	
	22 MTSI Mirdia Setup Time (s.) 23	The MTSI Medio Set-up Time is the (non-negative) time period between the successful setup of the signalling part of the MTSI call setup, and the receipt of the first packet containing valid (i.e. expect ed) media payload.	MTSI Media Setup Time = max [ (* fest valid media packet received "-tsuccessful signalling setup") , 0 ]	
	22	The AMTS Made is the spill time in the pion-expelling limit aprinol between the succeptil why of the signal long part of the AMTS at the say, and the recept of the Figs post act containing a provide is a report of the pion post act containing and it is a report of the pion post act containing and it is a report of the pion post act containing and act and the same post act and the pion post act containing until a containing shift post post post act containing until a containing shift post post post act containing until a containing until act and act	LTDS Media Setup Time = min. [ 0' most valid media pocket necessed "fusccessful signating strap 3 · 0 · 1  MESI Media And Time = min. [ 0' most valid media pocket necessed "fusccessful signating strap 3 · 0 · 1  MESI Media And Time = min. [ 0' most valid media pocket necessed "fusccessful signating strap 3 · 0 · 1  Time promoter has been nomed caused by a high regular sensed concept put OTGS in one and promoter has been considered caused by a high regular sensed concept put OTGS in one and	]
	22  MES Media Setup Time (s)  23  MES Media Add Time (s)  24  [Add [Sourced (upload) Service Non-Accessibility (N)  1 [Add [Sourced (upload) Service Non-Accessibility (N)  2 [Add [Sourced (upload) Service Non-Accessibility (N)  2 [Add [Sourced (upload) Service Non-Accessibility (N)	The MTS Admit Set say filters as the plane regarded time partied between the successful using a feet signal and plane of the signal and the s	MSS Media Setup Time = max [ (if set valid media patient received "functional signaling integs] + 0   1  MSS Media And Time = max [ (if sets valid media patient received "functional signaling integs] + 0   1  MSS Media And Time = max ( if sets valid media patient received "functional signaling integs] + 0   1  This parameter has been remined closed by a hage regular entered concept of DSS on exact  This parameter has been remined closed by a hage regular entered concept of DSS on exact  This parameter was regulated bytes for Accessible space.	
	22  MES Made Setup Fine        MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES MADE SETUP Fine      MES MADE SETUP Fine      MES MADE SETUP FINE      MES MADE SETUP	The MISS Made Set up Time in the John experient limit parties between the successful whop of the speak length grow of the MIS call whose, and the receipt of the Fig. packet containing and the MISS Made ARM in the John packet parties and the length of the MISS Made ARM in the John packet containing which is assume belieful and made are the made component, and the energing of the Fig packet containing while for assume belieful and made are the mission of the packet containing while for assume belieful and the mission of the mission of the packet containing while for All parameters was removed due to make changed in the energic discovered the parameters was removed for the mission of the Packet ARM of the Concept the parameters was removed for the mission of the Packet ARM of the Concept that parameters was reprinted by the mission that called it is removed to the parameters was reprinted by the mission that called the mission of the parameter was reprinted by the mission that called the mission of the parameter was reprinted by the mission that called the mission of the mission of the mission of the mission of the missi	LTDS Media Setup Time = min. [ 0' most valid media pocket necessed "fusccessful signating strap 3 · 0 · 1  MESI Media And Time = min. [ 0' most valid media pocket necessed "fusccessful signating strap 3 · 0 · 1  MESI Media And Time = min. [ 0' most valid media pocket necessed "fusccessful signating strap 3 · 0 · 1  Time promoter has been nomed caused by a high regular sensed concept put OTGS in one and promoter has been considered caused by a high regular sensed concept put OTGS in one and	
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	22  MES Made Setup Fine        MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES Made Setup Fine      MES MADE SETUP Fine      MES MADE SETUP Fine      MES MADE SETUP FINE      MES MADE SETUP	The AMTS Admit Set say Times as the place regardered limit agent of intervent the source spill artispy after signification panel of the signification, and the receipt of the right powder contention and artisphility of the significant powder contention and the second of the right powder contention and the AMTS Admit AMTS and the significant powder contention and the second of the first powder contention and the second of the first powder contention quitd pick and the second of the first powder contention and the first powder contention and the second of t	MSS Media Setup Time = max [ (if set valid media patient received "functional signaling integs] + 0   1  MSS Media And Time = max [ (if sets valid media patient received "functional signaling integs] + 0   1  MSS Media And Time = max ( if sets valid media patient received "functional signaling integs] + 0   1  This parameter has been remined closed by a hage regular entered concept of DSS on exact  This parameter has been remined closed by a hage regular entered concept of DSS on exact  This parameter was regulated bytes for Accessible space.	
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1		l f		Group Call Setup Time [s]	The group call setup time is the time period between pushing the Push To Talk (PTT)	
			2		The group call setup time is the time period between pushing the Push To Talk (PTT) button at the LE and receipt of call set-up notification by an acoustical and/or optical indication at the LE that the group call is successfully established.	Group Call Setup Time [s] = (f connection established "fuser pressed button) [s]
	14	Group Call	3	Group Call Speech Quality on Call Basis	The group call speech quality on call basis is an indicator representing the quantification of the end-to-end speech transmission quality of the group call service. This parameter computes the speech quality on the basis of completed calls.	The applicability of a suitable speech quality evaluation method for the narrow-band speech codec within TETRA networks is for further study.
			4	Group Call Speech Quality on Sample Basis	The group call speech quality on sample basis is an indicator representing the quantification of the end-to-end speech transmission quality of the group call service. This parameter computes the speech quality on a sample basis.	The group call speech quality on sample basis is an indicator representing the quantification of the end-to-end speech transmission quality of the group call service. This parameter computes the speech quality on a sample basis.
			5	Group Call Cut-off Call Ratio (%)	The group call cut-off rotio denotes the probability that a successful call attempt is ended by a cause other than the intentional termination by the A-or 8-party.	Group Call Cut – off Call Ratio (IG) = unintentionally terminated group calls x 100
			6	Group Call Speech Transmission Delay [s]	The group call speech transmission delay describes the time period between a UE sending speech data and the group member UEs receiving the speech data for a unique talk burst or	Group CallSpeech Transmission Delay Is. = (t B_Jisten "-f_ASpeak   [s]
Store-an	nd-foi	orward (S&F) Services QoS Parameters			speech sample within a successfully established group call.	
			1	(Service) Message Upload Session Failure Ratio (%)	The message upload session fail are ratio describes the proportion of unsuccessful message upload sessions and message upload sessions that were started successfully. The upload is successful if the message is marked as sent.	Service   Message UploadSession FailureRatio    K  =   unsuccess fulmercage upload sessions   x 100
			2	(Service) Message Upload Session Time [s]	The message upload session time describes the time period needed to successfully complete a message upload session.	Service   Message UploadSession Time  s  = (*successfulnessageuploadsession = ***********************************
			3	(Service) Message Upload Access Failure Ratio (K)	The message upload access failure ratio describes the probability that the customer carnot successfully establish a data connection to the message server to upload	
					messages.	Entertailmentage oppositionates a supervision (rd = allmentage upload access attempts
			4	(Service) Message Upload Access Time [s]	The message uplead access time describes the time period needed to establish a data connection to the message server, from sending the initial query to the message server to the point of time when the message upload starts.	[Service] Message UploadAccessTime [s] = (t <sub>successtulmessageupload access</sub> t <sub>message</sub> upload access attemps) [s]
			5	[Service] Message Upload Data Transfer Cut-off Ratio [K]	The message upload data transfer out-off ratio describes the proportion of unsuccessful message uploads and message uploads that were started successfully.	[Service] Message Upload Data Transfer Cut - off Ratio [K] =   unsuccessfully started message uploads   x 100
			6	(Service) Message Upload Data Transfer Time [s]	The message upload data transfer time describes the time period from the start to the end of the complete message upload.	[Service]Message UploadData Yransfer Time[s] = (t <sub>successfulmessageupload</sub> = t <sub>successfully</sub> startedmessageupload] [s]
			7	[Service] Notification Start Failure Ratio [96]	The notification start failure ratio describes the probability that the notification download by the B-party is not successfully initiated after the successful upload of the	successful and first for American American American Street
					message by the A-party.	Service  Pacification Start Failure Ratio   PL   = unscore soful notification downhoad at tempts by it party x 100
			8	[Service] Notification Start Time [k]	The notification start time describes the time period from the successful message upload by the Aparty to the start of the notification download attempt by the 8-party.	Service   Northincation Start Time [s] = (f notification download attempt by B-party "fsuccessful messageuple ad by A-party   [6]
			9	[Service] Notification Download Session Failure Ratio [6]	The notification download session failure ratio describes the proportion of unsuccessful notification downloads and notification downloads that were started successfully	
			10	Service I Notification Download Session Time &1	The notification download session time describes the time period needed to successfully	
					complete a notification download session.	Service Peotification DownloadSession Time  s  = (t successfulnot fication downloadsession = fnotification downloadsession start attempt)  10
			11	[Service] Notification Download Access Failure Ratio [6]	The notification download access failure ratio describes the probability that the customer cannot successfully establish a data connection to the message server to download the notification of a new message.	[Service] Notification Download Access Failure Ratio [No] = "unsuccessful notification download accesses x 100
			12	[Service] Notification Download Access Time [s]	The notification download access time describes the time period needed to establish the data connection to the message server, from sending the initial query to the message	
				W. Callerina and	server to the point of time when the notification download starts.	Service (Next Item DownloadSession Time  s  = (2 successfulnot fication downloadsession = 4-notification downloadsession start attempt    6
		Generic Store-and-forward	13	[Service] Notification Download Data Transfer Cut-off Ratio [K]	The notification download data transfer cut-off ratio describes the proportion of unsuccessful notification downloads and notification downloads that were started successfully.	
	1	Parameters	14	[Service] Notification Download Data Transfer Time [s]	The notification download data transfer time describes the time period from the start to the end of the complete notification download.	Genice Notification Data Transfer Time    s  = -(t_successfulnotification downloadt_successfulnystarted notification download    s
		}	15	(Service) Message Download Session Failure Ratio (%)	The message download session failure ratio describes the proportion of unsuccessful message download sessions and message download sessions that were started	Service   Message Down load Session Failure Ratio (No) = unsuccessful message download sessions 100   100
			16	[Service] Message Download Session Time [s]	successfully	
			10	Musical wayzalla powingsg pazziou ilima bil	The message download session time describes the time period needed to successfully complete a message download session	[Service]MessageDownloadSession Time[s] = (t <sub>out</sub> cessfulmessagedownload session = r messagedownloadsession start attempt ] [s]
			17	[Service] Message Download Access Failure Ratio [6]	The message download access failure ratio describes the probability that the customer cannot successfully establish a data connection to the message server to download messages	[Service]Message Download Access Failure Ratio [K] =
			18	(Service) Message Download Access Time [s]	The message download access time describes the time period needed to establish a data cornection to the message server, from sending the initial query to the message server to	[Sirvice]NbscsageDownloadAccestTime [i] = (f_succestfulmestagedownload access = "fmestagedownload access attempt ] [c]
			19	[Service] Message Download Data Transfer Cut-off Ratio [6]	the point of time when the message download starts  The message download data transfer cut-offratio describes the proportion of	
					unsuccessful message downloads and message downloads that were started successfully	[Service]Mersage Download Data Transfer Cut - off Ratio [K] = all successful message downloads x 100
			20	[Service] Message Download Data Transfer Time [s]	The message download data transfer time describes the time period from the start to the end of the complete message download.	$[Service] Message Download Data Transfer Time [s] = (t_{success full message download} = t_{success full y started message download}) [s]$
			21	(Service) Notification and Message Download Failure Ratio (%)	The notification and message download failure ratio describes the probability that the customer carnot download first the notification and thereafter the complete message with the UE. User reaction times are not considered.	Cervice Notification andMessage Download Failure Ratio [K]
			22	(Service) Notification and Message Download Time [s]	The notification and message download time describes the time period from the start of the notification download to the end of the reception of the whole message content. User	[Service]Netflication andMessageDownloadTime 8) = (* successfulnotification andmessagedownload **netflication and messagedownload attempt ) Idl
			23	(Service) End-to-End Failure Ratio [64]	reaction times are not considered.  The end-to-end failure ratio describes the probability that the complete service usage	
					from the start of the message upload at the A-party to the complete message download at the B-party cannot be completed successfully. This transmission is unsuccessful if the message upload, the notification (if possible) or the message download falls.	Service  End - to - End Fall ure Ratio PG  = uscuccestelf message downloads by 8- party   x 100     x 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
			24	(Service) End-to-End Time [s]	The end-to-end time describes the time period needed for the complete service usage, from the start of the message upload at the Aparty to the complete message download at the B-party.	
				[Service] Login Non-Accessibility [K]	The login non-accessibility describes the probability of a login failure between the message client and the message server. The login is needed to prepare the client of the 8-	
			25		party to be able to receive new notifications or messages. The parameter does not	Senire linein Non - Arreschiëty RCI = unsuccessful logins y 100
					consider an actual message transfer.	Darrico Login Non - Accessibility DL
				Service]Login Access Time [s]	party for the date of receiver for inclination consider an attain message transfer.  The logis access time describes the time period from starting the logis procedure to the point of free when the logis procedure is successfully completed and the client can receive notifications or messages at the B-party side.	Bennica  Josiph Non - Access Billing Not
				Service Login Access Time   5   E-Mail (Download) Upload) Service Non-Accessibility   5	consider an actual message transfer.  The login access time describes the time period from starting the login procedure to the called the control of the con	
					consider an actual missage transfer.  The logis access time describes the time period from starting the login procedure to the point of time when the logis procedure is successfully completed and the client can receive notifications or messages at the B-party side.	
3				E-Mail (Download   Upload) Service Non-Accessibility (%)	consider an actual message transfer.  He bype a cests time doctores the time period from stanting the logis procedure to the point of time when the logis procedure is successfully completed and the client can revolve motification messages at the legant excess residence and excess motification messages at the legant excess residence and the client can revolve motification messages at the legant excess the client excess removed due to major changes in the e-mail QLS concept.	General Tongle Access Time (b) = - Croscossidal login Sogin attempt   10
3				E-Mail (Download) Upload) Service Non-Accessibility (%)  E-Mail (Download) Upload) Setup Time (%)	concider on actual message transfor.  By high parcess the mobile by the period from starting the light procedure to the period from starting the light procedure to the control of the start of the star	Carrier's Legion Access Time (b) = - Co caccessful logion Gogon attempt (10)
3				E Mail Downtood[Uplood] Service Non-Accessibility (N)  E Mail Downtood[Uplood] Service Time (s)  E Mail Downtood[Uplood] Service Time (s)  Mail Downtood[Uplood] or Marice Access Fabrus Ratio (N)	consider on actual measures transfer.  By the pair access the mode has the period from starting the legis procedure to the consideration of the pair access the mode of the start access of the start access of the start access of the parameter was removed due to major changes in the e mad Qui concept.  This parameter was removed due to major changes in the e mad Qui concept.  This parameter was removed due to major changes in the e mad Qui concept.  This parameter was removed due to major changes in the e mad Qui concept.  This parameter was regarded by the "tagin from Access shall by "parameter specified in clause? 2.21.  This parameter was regarded by the "tagin from Access shall by" parameter specified in clause? 2.31.  This parameter was regarded by the "tagin from Access shall by" parameter specified in clause? 2.31.	Binning   Legin Access Time   M   = 10 - access table   leginlegin attempt   M
3			26	E-Mail Downtoad (Upload) Service Non-Accessibility (N)  Abail Downtoad (Upload) Service Non-Accessibility (N)  Abail Downtoad (Upload) (P-Service Access Failure Ratio (N)  Abail Downtoad (Upload) (P-Service Access Failure Ratio (N)  Abail Downtoad (Upload) (P-Service Service Non-E)	consider on actual measures transfer.  By the para centar time of the party of the control from starting the laptic procedure to the control temperature of temperatu	Carrier's Legion Access Time (b) = - Co accessful legion Geograph attempt (10)
3			26	E.Mail Downtoad (Upload) Service Non-Accessibility (NI)  E.Mail Downtoad (Upload) Service Trine (s)  E.Mail Downtoad (Upload) IP Service Access Fabre Nate (NI)  E.Mail Downtoad (Upload) IP Service Setup Trine (s)  E.Mail Downtoad (Upload) IP Service Setup Trine (s)	consider on actual manager transfer.  The large access the endows the time period from starting the lagge procedure to the more reduction of the case of a second control of the case	Barriard Liagin Access Time (b) = (C successful lagon - Regin attempt 103  This parameter was removed due to major changes in the e-mail Qui concept  This parameter was removed due to major changes in the e-mail Qui concept  This parameter was removed due to major changes in the e-mail Qui concept  This parameter was replaced by the Tagon Non-Accessibility' parameter up collegio double 2.2.11  This parameter was replaced by the Tagon Non-Accessibility' parameter up collegio double 2.2.11
3			26	E-Mail Downtoad (Upload) Service Non-Accessibility (N)  Abail Downtoad (Upload) Service Non-Accessibility (N)  Abail Downtoad (Upload) (P-Service Access Failure Ratio (N)  Abail Downtoad (Upload) (P-Service Access Failure Ratio (N)  Abail Downtoad (Upload) (P-Service Service Non-E)	conclute on a stand mensage transfer.  The large access the mode between the time period from starting the lagge procedure to the conclusion of the large access the mode of the standard conclusion of the conclu	Barrian   Lington Access Time   bit   = G - access shall alignon - "doing not stempt   10.5
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3	2	E-mail	226 26 27 3 3 3 4 4 7 22 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	E-Mail Downtood (Juliand) Service Non-Accessibility (N)  (Mail Downtood (Juliand) Service Non-Accessibility (N)  (Mail Downtood (Juliand) (P-Service Access Failure Ratio (N)  (Mail Downtood (Juliand) (P-Service Access (Juliand) (Juliand) (Juliand)  (Mail Downtood (Juliand) (Juliand) (Juliand) (Juliand)  (Mail Downtood (Juliand) (Juliand)  (Mail Downtood (Juliand) (Juliand)  (Mail Downtood (Juliand) (Juliand)  (Mail Downtood (Jul	conclute on a stand measure transfer.  The large access the medium control of the standard the large procedure to the large access the medium control of the standard that the standard control of the	Berninol Lington Access Time 81 = 10 successful signs - "logge attempt 101
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3	2 2 3	E-mail  E-mail  Multimedia Messaging Service	226 26 27 3 3 3 4 4 7 22 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	E-Mail Downtoad (Julias) Service Non-Accessibility (N)  (Mail Downtoad (Julias) Service Non-Accessibility (N)  (Mail Downtoad (Julias) (P Amrice Service Non-Non-Non-Non-Non-Non-Non-Non-Non-Non-	conclute on a stand mensage transfer.  The large access the medical between the time period from stanting the lagin procedure to the experiment of the lagin access the decidance or messages at the Begarty side.  This period the standard control of the standard begarty side.  This period the standard control of the standard begarty side.  This period the standard does not make the standard standard standard control of the standard s	Berning Lington Access Time 31 = C successful lagon -*lagon attempt 1101
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	1 (SMS   SDS) Service Non-Accessibility (K)	The BMS [ 305] service non-accessibility denotes the probability that the end-user cannot access the 9nort Message Service (BMS) or Short Data Service (BSS) when requested while it is offered by display of the network indicator on the UE.	SMS SDS Service Non -Accessibility Ks  =   unicocoscial/SMS SDS service attempts   x 100
	2 [SMSSDS] Access Delay [s]	The (SMS   SDS) access delay is the time period between sending a short message to the network and receiving a send confirmation from the network at the originating side	[SMS]SDS]AccessDelay [s] = (t Areceive -t Asend   ls
	3 (SMS   SDS) Completion Failure Ratio (%)	The (SMS   SDS) Completion Failure Ratio is the ratio of unsuccessfully received and sent messages from one UE to another UE, excluding duplicate received and corrupted messages	[SM5]505(Completion FeatureRisto(Rs) = winter create(Mr) receive(SM5) 505/ ari(SM5)505(completion FeatureRisto(Rs) = x 100
	4 (SMS   SDS) End-to-End Delivery Time (s)	The (SMS   SDS) end-to-end delivery time is the time period between sending a short message to the network and receiving the very same short message at another UE	SMS SOSEnd - to -End Delivery Time  s  = (f 8,receive - r4,send)  s
Short Message Service (SMS) , Short Data Service (SDS)	5 (SMS   SDS) Receive Confirmation Failure Ratio (%)	The [SMS   SOS) receive confirmation failure ratio denotes the probability that the receive confirmation for a sent attempt is not received by the originating UE although requested.	[DMS]SDS[ReceiveConfirmation Failure Ratio [R] - \frac{\text{rine - confirmed(SMS] SDS] receptions.}}{\text{all(SMS]SDS) period attempts.}}\times 100
	6 (SMS   SDS) Receive Confirmation Time [s]	The BMS   SDS) receive confirmation time is the time particl between sending a short missage to the network and receiving the receive confirmation for this message from the network	[SMS SDS ReceiveConfirmation Time  s  = (r <sub>Areceive</sub> confirmation - r <sub>Asend</sub> ) [s]
	7 (SMS   SDS) Consumed Confirmation Failure Ratio (%)	The [SMS   SOS] consumed confirmation failure ratio denotes the probability that the consumed confirmation for a sent attempt is not received by the originating UE although requested.	[SMS]SDS)C onsumed Confirmation FailurePastio [kg] = non - confirmed[SMS]SDS] consumptions x 100
	8 [SMS   SDS] Consumed Confirmation Time [s]	The (SMS   SOS) consumed confirmation time is the time period between sending a short message to the network and receiving the consumed confirmation from the network.	[9MS]SDS[Consume dConfirmation Time [s] = (t _Aconsume dconfirmation t_Asend ][s]