Table 1: NAS TTCN test cases

Test case	Description
	MM
tc_9_1	TMSI reallocation
tc_9_2_1	Authentication accepted
tc_9_2_2	Authentication rejected by the network
tc_9_2_3	Authentication rejected by the UE (MAC code failure)
tc_9_2_4	Authentication rejected by the UE (SQN failure)
tc_9_3_1	General Identification
tc_9_3_2	Handling of IMSI shorter than the maximum length.
tc_9_4_1	Location updating / accepted
tc_9_4_2_1	Location updating / rejected / IMSI invalid
tc_9_4_2_2_1	Location updating / rejected / PLMN not allowed – test 1
tc_9_4_2_2_2	Location updating / rejected / PLMN not allowed – test 2
tc_9_4_2_3	Location updating / rejected / location area not allowed
tc_9_4_2_4_1	Location updating rejected / roaming not allowed in this location area – procedure 1
tc_9_4_2_4_2	Location updating rejected / roaming not allowed in this location area – procedure 2
tc_9_4_2_4_3	Location updating rejected / roaming not allowed in this location area – procedure 3
tc_9_4_2_4_4	Location updating rejected / roaming not allowed in this location area – procedure 4
tc_9_4_2_4_5	Location updating rejected / roaming not allowed in this location area – procedure 5
tc_9_4_2_5	Location Updating / Rejected / No Suitable Cells In Location Area
tc_9_4_3_2	Location Updating / Abnormal cases / Attempt counter less or equal to 4, LAI different
tc_9_4_3_3	Location Updating / Abnormal cases/ Attempt Counter Equal to 4
tc_9_4_3_4	Location Updating / Abnormal cases / Attempt Counter less or equal to 4, stored LAI equal to broadcast LAI
tc_9_4_4	Location updating / release / expiry of T3240
tc_9_4_5_1	Location updating / periodic spread
tc_9_4_5_2	Location updating / periodic normal / test 1
tc_9_4_5_3	Location updating / periodic normal / test 2
tc_9_4_5_4_1	Location Updating / Periodic HPLMN search / UE waits time T.
tc_9_4_5_4_2	Location Updating / Periodic HPLMN search / UE in manual mode
tc_9_4_5_4_3	Location Updating / Periodic HPLMN search / UE waits at least two minutes and at most T minutes
tc_9_4_6	Location updating / interworking of attach and periodic
tc_9_5_2	MM connection / establishment with cipher
tc_9_5_3	MM connection / establishment without cipher
tc_9_5_4	MM connection / establishment rejected
tc_9_5_5	MM connection / establishment rejected cause 4
tc_9_5_6	MM connection / expiry T3230
tc_9_5_7_1	MM connection / abortion by the network / cause #6
tc_9_5_7_2	MM connection / abortion by the network / cause not equal to #6
tc_9_5_8_1	MM connection / follow-on request pending / test 1
tc_9_5_8_2	MM connection / follow-on request pending / test 2
tc_9_5_8_3	MM connection / follow-on request pending / test 3
	CC
tc_10_1_2_1_1	Outgoing call / U0 null state / MM connection requested
tc_10_1_2_2_1	Outgoing call / U0.1 MM connection pending / CM service rejected
tc_10_1_2_2_2	Outgoing call / U0.1 MM connection pending / CM service accepted
tc_10_1_2_2_3	Outgoing call / U0.1 MM connection pending / lower layer failure
tc_10_1_2_3_1	Outgoing call / U1 call initiated / receiving CALL PROCEEDING
tc_10_1_2_3_2	Outgoing call / U1 call initiated / rejecting with RELEASE COMPLETE
tc_10_1_2_3_3	Outgoing call / U1 call initiated / T303 expiry
tc_10_1_2_3_4	Outgoing call / U1 call initiated / lower layer failure
tc_10_1_2_3_5	Outgoing call / U1 call initiated / receiving ALERTING

tc_10_1_2_3_6	Outgoing call / U1 call initiated / entering state U10
tc_10_1_2_3_7	Outgoing call / U1 call initiated / unknown message received
tc_10_1_2_4_1	Outgoing call / U3 UE originating call proceeding / ALERTING received
tc_10_1_2_4_2	Outgoing call / U3 UE originating call proceeding / CONNECT received
tc_10_1_2_4_3	Outgoing call / U3 UE originating call proceeding / PROGRESS received without in band information
tc_10_1_2_4_4	Outgoing call / U3 UE originating call proceeding / / PROGRESS with in band information
tc_10_1_2_4_5	Outgoing call / U3 UE originating call proceeding / DISCONNECT with in band tones
tc_10_1_2_4_6	Outgoing call / U3 UE originating call proceeding / DISCONNECT without in band tones
tc_10_1_2_4_7	Outgoing call / U3 UE originating call proceeding / RELEASE received
tc_10_1_2_4_8	Outgoing call / U3 UE originating call proceeding / termination requested by the user
tc_10_1_2_4_9	Outgoing call / U3 UE originating call proceeding / traffic channel allocation
tc_10_1_2_4_10	Outgoing call / U3 UE originating call proceeding / timer T310 time-out
tc_10_1_2_4_11	Outgoing call / U3 UE originating call proceeding / lower layer failure
tc_10_1_2_4_12	Outgoing call / U3 UE originating call proceeding / unknown message received
tc_10_1_2_4_13	Outgoing call / U3 UE originating call proceeding / CONNECT received
tc_10_1_2_5_1	Outgoing call / U4 call delivered / CONNECT received
tc_10_1_2_5_2	Outgoing call / U4 call delivered / termination requested by the user
tc_10_1_2_5_3	Outgoing call / U4 call delivered / DISCONNECT with in band tones
tc_10_1_2_5_4	Outgoing call / U4 call delivered / DISCONNECT without in band tones
tc_10_1_2_5_5	Outgoing call / U4 call delivered / RELEASE received
tc_10_1_2_5_6	Outgoing call / U4 call delivered / lower layer failure
tc_10_1_2_5_7	Outgoing call / U4 call delivered / traffic channel allocation
tc_10_1_2_5_8	Outgoing call / U4 call delivered / unknown message received
tc_10_1_2_6_1	U10 call active / termination requested by the user
tc_10_1_2_6_2	U10 call active / RELEASE received
tc_10_1_2_6_3	U10 call active / DISCONNECT with in band tones
tc_10_1_2_6_4	U10 call active / DISCONNECT without in band tones
tc_10_1_2_6_5	U10 call active / RELEASE COMPLETE received
tc_10_1_2_6_6	U10 call active / SETUP received
tc_10_1_2_7_1	U11 disconnect request / clear collision
tc_10_1_2_7_2	U11 disconnect request / RELEASE received
tc_10_1_2_7_3	U11 disconnect request / timer T305 time-out
tc_10_1_2_7_4	U11 disconnect request / lower layer failure
tc_10_1_2_7_5	U11 disconnect request / unknown message received
tc_10_1_2_8_1	U12 disconnect indication / call releasing requested by the user
tc_10_1_2_8_2	U12 disconnect indication / RELEASE received
tc_10_1_2_8_3	U12 dis connect indication / lower layer failure
tc_10_1_2_8_4	U12 disconnect indication / unknown message received
tc_10_1_2_9_1	Outgoing call / U19 release request / timer T308 time-out
tc_10_1_2_9_2	Outgoing call / U19 release request / 2nd timer T308 time-out
tc_10_1_2_9_3	Outgoing call / U19 release request / RELEASE received
tc_10_1_2_9_4	Outgoing call / U19 release request / RELEASE COMPLETE received
tc_10_1_2_9_5	Outgoing call / U19 release request / lower layer failure
tc_10_1_3_1_1	Incoming call / U0 null state / SETUP received with a non supported bearer capability
tc_10_1_3_2_1	Incoming call / U6 call present / automatic call rejection
tc_10_1_3_3_1	Incoming call / U9 mobile terminating call confirmed / alerting or immediate connecting
tc_10_1_3_3_2	Incoming call / U9 mobile terminating call confirmed / DTCH assignment
tc_10_1_3_3_3	Incoming call / U9 mobile terminating call confirmed / termination requested by the user
tc_10_1_3_3_4	Incoming call / U9 mobile terminating call confirmed / DISCONNECT received
tc_10_1_3_3_5	Incoming call / U9 mobile terminating call confirmed / RELEASE received
tc_10_1_3_3_6	Incoming call / U9 mobile terminating call confirmed / lower layer failure
tc_10_1_3_3_7	Incoming call / U9 mobile terminating call confirmed / unknown message received

tc_10_1_3_4_1	Incoming call / U7 call received / call accepted
tc_10_1_3_4_2	Incoming call / U7 call received / termination requested by the user
tc_10_1_3_4_3	Incoming call / U7 call received / DISCONNECT received
tc_10_1_3_4_4	Incoming call / U7 call received / RELEASE received
tc_10_1_3_4_5	Incoming call / U7 call received / lower layer failure
tc_10_1_3_4_6	Incoming call / U7 call received / DTCH assignment
tc_10_1_3_4_7	Incoming call / U7 call received / unknown message received
tc_10_1_3_4_8	Incoming call / U7 call received / RELEASE COMPLETE received
tc_10_1_3_5_1	Incoming call / U8 connect request / CONNECT acknowledged
tc_10_1_3_5_2	Incoming call / U8 connect request / timer T313 time-out
tc_10_1_3_5_3	Incoming call / U8 connect request / termination requested by the user
tc_10_1_3_5_4	Incoming call / U8 connect request / DISCONNECT received with in-band information
tc_10_1_3_5_5	Incoming call / U8 connect request / DISCONNECT received without in-band information
tc_10_1_3_5_6	Incoming call / U8 connect request / RELEASE received
tc_10_1_3_5_7	Incoming call / U8 connect request / lower layer failure
tc_10_1_3_5_8	Incoming call / U8 connect request / DTCH assignment
tc_10_1_3_5_9	Incoming call / U8 connect request / unknown message received
tc_10_1_4_1_1	In-call functions / DTMF information transfer / basic procedures
tc_10_1_4_2_1	In-call functions / User notification / UE terminated
tc_10_1_4_3_1	In-call functions / channel changes / a successful channel change in active state / Hard handover
tc_10_1_4_3_2	In-call function / channel changes / an unsuccessful channel change in active mode / Hard Handover
tc_10_3	User to user signalling
	Session Management
tc_11_1_1_1	Attach initiated by context activation/QoS Offered by Network is the QoS Requested
tc_11_1_1_2_1	QoS accepted by UE
tc_11_1_1_2_2	QoS rejected by UE
tc_11_1_2	PDP context activation requested by the network, successful and unsuccessful
tc_11_1_3_1	T3380 Expiry
tc_11_1_3_2	Collision of UE initiated and network requested PDP context activation
tc_11_1_3_3	Network initiated PDP context activation request for an already activated PDP context (on the UE side)
tc_11_1_4_1_1	QoS Offered by Network is the QoS Requested
tc_11_1_4_1_2_1	QoS accepted by UE
tc_11_1_4_1_2_2	QoS rejected by UE
tc_11_1_4_2	Unsuccessful Secondary PDP Context Activation Procedure Initiated by the UE
tc_11_1_4_3_1	T3380 Expiry
tc_11_2_1	Collision of UE and network initiated PDP context modification procedures
tc_11_2_2_1	PDP context deactivation initiated by the UE
tc_11_2_2_2	T3390 Expiry
tc_11_2_3_1	PDP context deactivation initiated by the network
tc_11_2_3_2	Collision of UE and network initiated PDP context deactivation requests
tc_11_3_1	Network initiated PDP context modification
tc_11_3_2	UE initiated PDP Context Modification accepted by network
tc_11_3_3_1	UE initiated PDP Context Modification not accepted by the network
tc_11_3_3_2	T3381 Expiry
tc_11_4_1	Error cases
	GPRS Mobility Management
tc_12_2_1_1	PS attach / accepted
tc_12_2_1_2	PS attach / rejected / IMSI invalid / illegal UE
tc_12_2_1_3	PS attach / rejected / IMSI invalid / PS services not allowed
tc_12_2_1_4_1	PS attach / rejected / IMSI invalid / PLMN not allowed / procedure 1
tc_12_2_1_4_2	PS attach / rejected / IMSI invalid / PLMN not allowed / procedure 2
tc_12_2_1_5_1	PS attach / rejected / roaming not allowed in this location area / test procedure 1

tc_12_2_1_5_2	PS attach / rejected / roaming not allowed in this location area / test procedure 2
tc_12_2_1_5_3	PS attach / rejected / roaming not allowed in this location area / test procedure 3
tc_12_2_1_5_4	PS attach / rejected / roaming not allowed in this location area / test procedure 4
tc_12_2_1_6_1	PS attach /abnormal cases / access barred due to access class control / procedure 1
tc_12_2_1_6_2	PS attach /abnormal cases / access barred due to access class control / procedure 2
tc_12_2_1_7	PS attach / abnormal cases / change of cell into new routing area
tc_12_2_1_8	PS attach / abnormal cases / power off
tc_12_2_1_9	PS attach / abnormal cases / PS detach procedure collision
tc_12_2_2_1	Combined PS attach / PS and non-PS attach accepted
tc_12_2_2_2_1	Combined PS attach / PS only attach accepted / procedure 1
tc_12_2_2_2_2	Combined PS attach / PS only attach accepted / procedure 2
tc_12_2_2_3	Combined PS attach / PS attach while IMSI attach
tc_12_2_2_4	Combined PS attach / rejected / IMSI invalid / illegal ME
tc_12_2_2_5	Combined PS attach / rejected / PS services and non-PS services not allowed
tc_12_2_2_6	Combined PS attach / rejected / PS services not allowed
tc_12_2_2_7	Combined PS attach / rejected / location area not allowed
tc_12_2_2_8	Combined PS attach / abnormal cases / attempt counter check / miscellaneous reject causes
tc_12_2_2_9	Combined PS attach / abnormal cases / PS detach procedure collision
tc_12_3_1_1	PS detach (NMO II) / power off / accepted
tc_12_3_1_2	PS detach / accepted
tc_12_3_1_3	PS detach / abnormal cases / attempt counter check / procedure timeout
tc_12_3_1_4	PS detach / abnormal cases / GMM common procedure collision
tc_12_3_1_5	PS detach (NMO I) / power off / accepted
tc_12_3_1_6	PS detach (NMO I) / accepted / PS/IMSI detach
tc_12_3_1_7	PS detach / accepted / IMSI detach
tc_12_3_1_8	PS detach / abnormal cases / change of cell into new routing area
tc_12_3_1_9	PS detach (NMO I) / abnormal cases / PS detach procedure collision
tc_12_3_2_1	Network initiated PS detach/ re-attach not required / accepted
tc_12_3_2_2	PS detach / rejected / IMSI invalid / PS services not allowed
tc_12_3_2_3	Network initiated PS detach / IMSI detach / accepted
tc_12_3_2_4	Network initiated PS detach/ re-attach requested / accepted
tc_12_3_2_5	Network initiated PS detach / rejected / location area not allowed
tc_12_4_1_1	Routing area updating / accepted
tc_12_4_1_2	Routing area updating / rejected /IMSI invalid / illegal ME
tc_12_4_1_3	Routing area updating / rejected / UE identity cannot be derived by the network
tc_12_4_1_4	Routing area updating / rejected / location area not allowed
tc_12_4_1_5	Routing area updating / abnormal cases /attempt counter check / miscellaneous reject causes
tc_12_4_1_6	Routing area updating / abnormal cases / change of cell into new routing area
tc_12_4_1_7	Routing area updating / abnormal cases / change of cell during routing area procedure
tc_12_4_1_8	Routing area updating / abnormal cases / P-TMSI reallocation procedure collision
tc_12_4_2_1	Combined routing area updating / combined RA/LA accepted
tc_12_4_2_2	Combined routing area updating / UE in CS operation at change of RA
tc_12_4_2_3_1	Combined routing area updating / RA only accepted / procedure 1
tc_12_4_2_3_2	Combined routing area updating / RA only accepted / procedure 2
tc_12_4_2_4	Combined routing area updating / rejected / PLMN not allowed
tc_12_4_2_5_1	Combined routing area updating / rejected / roaming not allowed in this location area / procedure 1
tc_12_4_2_5_2	Combined routing area updating / rejected / roaming not allowed in this location area / procedure 2
tc_12_4_2_6_1	Combined routing area updating / abnormal cases /access barred due to access class control / procedure 1
tc_12_4_2_6_2	Combined routing area updating / abnormal cases /access barred due to access class control / procedure 2
tc_12_4_2_7	Combined routing area updating / abnormal cases / attempt counter check / procedure timeout
tc_12_4_2_8	Combined routing area updating / abnormal cases / change of cell into new routing area
tc_12_4_2_9	Combined routing area updating / abnormal cases / change of cell during routing area procedure

tc_12_4_2_10_1	Combined routing area updating / abnormal cases / PS detach procedure collision / procedure 1
tc_12_4_2_10_2	Combined routing area updating / abnormal cases / PS detach procedure collision / procedure 2
tc_12_4_3_1	Periodic routing area updating / accepted
tc_12_4_3_2	Periodic routing area updating / accepted / T3312 default value
tc_12_4_3_3	Periodic routing area updating / no cell available / network mode I
tc_12_4_3_4	Periodic routing area updating and periodic location area updating / no cell available
tc_12_5	P-TMSI reallocation
tc_12_6_1_1	PS authentication and ciphering / Authentication accepted
tc_12_6_1_2	PS authentication and ciphering / Authentication rejected by the network
tc_12_6_1_3_1	Authentication rejected by the UE / GMM cause 'MAC failure'
tc_12_6_1_3_2	Authentication rejected by the UE / GMM cause 'Synch failure'
tc_12_6_1_3_3	Authentication rejected by the UE / fraudulent network
tc_12_7	Identification procedure
tc_12_8	GMM READY timer handling
tc_12_9_1	Service Request initiated by the UE
tc_12_9_2	Service Request initiated by the network
tc_12_9_3	Service Request / rejected / Illegal MS
tc_12_9_4	Service Request / rejected / PS services not allowed
tc_12_9_5	Service Request / rejected / MS identity cannot be derived by the network
tc_12_9_6	Service Request / rejected / PLMN not allowed
tc_12_9_7	Service Request / rejected / No PDP context activated
tc_12_9_8	Service Request / Abnormal cases/ Access barred due to access control
tc_12_9_9	Service Request / Abnormal cases/ Collision with Routing Area Update procedure
tc_12_9_10	Service Request / Abnormal cases / Power off
tc_12_9_11	Service Request / Abnormal cases / Service Request procedure collision
	General Tests
tc_13_2_1_1	Emergency call / with USIM / accept case
tc_13_2_2_1	Emergency call / without USIM / accept case
tc_13_2_2_2	Emergency call / without USIM / reject case
	User Equipment features
tc_17_1_2	Test of autocalling restrictions/ Constraining the access to a single number (TS 22.001 category 3)
tc_17_1_3	Test of autocalling restrictions/ Constraining the access to a single number (TS 22.001 category 1 and 2)
tc_17_1_4	Test of autocalling restrictions/ Behaviour of the UE when its list of blacklisted numbers is full

Table 2: NAS TTCN test cases

Test case	Description
tc_16_1_1	SMS point to point on CS mode / SMS mobile terminated
tc_16_1_2	SMS point to point on CS mode / SMS mobile originated
tc_16_1_3	SMS point to point on CS mode / Test of memory full condition and memory available notification
tc_16_1_4	SMS point to point on CS mode / Test of the status report capabilities and of SMS-COMMAND
tc_16_1_5_1	SMS point to point on CS mode / Test of class 0 short messages
tc_16_1_5_2	SMS point to point on CS mode / Test of class 1 short messages
tc_16_1_5_3	SMS point to point on CS mode / Test of class 2 short messages
tc_16_1_7	SMS point to point on CS mode / Test of the replace mechanism for SM type 1-7
tc_16_1_8	SMS point to point on CS mode / Test of the reply path scheme
tc_16_1_9_1	SMS point to point on CS mode / Multiple SMS mobile originated / UE in idle mode
tc_16_1_9_2	SMS point to point on CS mode / Multiple SMS mobile originated / UE in active mode
tc_16_1_10	Test of capabilities of simultaneously receiving a short message whilst sending a mobile originated short message
tc_16_2_1	SMS point to point on PS mode / SMS mobile terminated
tc_16_2_2	SMS point to point on PS mode / SMS mobile originated
tc_16_2_3	SMS point to point on PS mode / Test of memory full and memory available notification
tc_16_2_4	SMS point to point on PS mode / Test of the status report capabilities and of SMS-COMMAND
tc_16_2_5_1	SMS point to point on PS mode / Test of Class 0 Short Messages
tc_16_2_5_2	SMS point to point on PS mode / Test of Class 1 Short Messages
tc_16_2_5_1	SMS point to point on PS mode / Test of Class 2 Short Messages
tc_16_2_7	SMS point to point on PS mode / Test of the replace mechanism for SM type 1-7
tc_16_2_8	SMS point to point on PS mode / Test of the reply path scheme
tc_16_2_10	SMS point to point on PS mode / Test of capabilities of simultaneously receiving a short message whilst sending a mobile originated short message
tc_16_3	Short message service cell broadcast

Table 3: RRC TTCN test cases

Test case	Description
Singlecell	
tc_8_1_1_1	Paging for Connection in idle mode
tc_8_1_1_2	Paging for Connection in connected mode (CELL_DCH)
tc_8_1_1_3	Paging for Connection in connected mode (URA_PCH)
tc_8_1_1_4	Paging for Notification in idle mode
tc_8_1_1_5	Paging for Notification in connected mode (CELL_PCH)
tc_8_1_1_6	Paging for Notification in connected mode (URA_PCH)
tc_8_1_1_7	Paging for Notification in connected mode (CELL_DCH)
tc_8_1_1_8	Paging for Notification in connected mode (CELL_FACH)
tc_8_1_2_1	RRC Connection Establishment in CELL_DCH state: Success
tc_8_1_2_2	RRC Connection Establishment: Success after T300 timeout
tc_8_1_2_3	RRC Connection Establishment: Failure (V300 is greater than N300)
tc_8_1_2_4	RRC Connection Establishment: Reject ("wait time" is not equal to 0)
tc_8_1_2_5	RRC Connection Establishment: Reject ("wait time" is not equal to 0 and V300 is greater than N300)
tc_8_1_2_6	RRC Connection Establishment: Reject ("wait time" is set to 0)
tc_8_1_2_7	RRC Connection Establishment in CELL_FACH state: Success
tc_8_1_2_8	RRC Connection Establishment: Invalid system information message reception
tc_8_1_2_9	RRC Connection Establishment: Success after Physical
tc_8_1_3_1	RRC Connection Release in CELL_DCH state: Success
tc_8_1_3_2	RRC Connection Release in CELL_FACH state: Success
tc_8_1_3_3	RRC Connection Release using on CCCH in CELL_FACH state: Success
tc_8_1_3_4	RRC Connection Release in CELL_FACH state: Failure
tc_8_1_3_5	RRC Connection Release in CELL_FACH state: Invalid message
tc_8_1_5_1	UE Capability: Success
tc_8_1_5_2	UE Capability: Success after T304 timeout
tc_8_1_5_3	UE Capability in CELL_DCH state: Failure (After N304 retransmissions)
tc_8_1_5_4	UE Capability in CELL_DCH state: Success
tc_8_1_5_5	UE Capability in CELL_FACH state: Success after T304 timeout
tc_8_1_6_1	Direct Transfer in CELL DCH state (invalid message reception)
tc_8_1_6_2	Direct Transfer in CELL FACH state (invalid message reception)
tc_8_1_7_1	Security mode control in CELL_DCH state
tc_8_1_7_2	Security mode control in CELL_FACH state
tc_8_1_8_1	Counter check in CELL_DCH state
tc_8_1_8_2	Counter check in CELL_FACH state
tc_8_1_9_1	Signalling Connection Release Request
tc_8_2_1_1	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Data integrity protection algorithm is not applied)
tc_8_2_1_2	RB Est. for transition from CELL_DCH to CELL_DCH: Success (Effected Data integrity protection algorithm)
tc_8_2_1_3	RB Est. for transition from CELL_DCH to CELL_DCH: Failure (Unsupported configuration)
tc_8_2_1_4	RB Est. for transition from CELL_DCH to CELL_DCH: Failure (Physical channel Failure and successful reversion to old configuration)
tc_8_2_1_5	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Physical channel Failure and reversion failure)
tc_8_2_1_6	RB Est. for transition from CELL_DCH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)
tc_8_2_1_7	RB Est. for transition from CELL_DCH to CELL_DCH: Failure (Invalid message reception)
tc_8_2_1_8	Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH: Success
tc_8_2_1_9	Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH: Failure (Cell reselection)
tc_8_2_1_10	Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Success
tc_8_2_1_11	Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)
tc_8_2_1_12	Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Physical channel Failure and successful reversion to old configuration)
tc_8_2_1_13	Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Physical

	channel Failure and reversion failure)
tc_8_2_1_14	Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)
tc_8_2_1_16	Radio Bearer Establishment for transition from CELL_FACH to CELL_FACH: Success
tc_8_2_1_19	Radio Bearer Establishment from CELL_DCH to CELL_PCH: Success
tc_8_2_1_20	Radio Bearer Establishment from CELL_DCH to URA_PCH: Success
tc_8_2_2_1	Radio Bearer Reconfiguration (Hard handover) from CELL_DCH to CELL_DCH: Success
tc_8_2_2_3	Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)
tc_8_2_2_4	Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion failure)
tc_8_2_2_5	Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)
tc_8_2_2_7	Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Continue and stop)
tc_8_2_2_8	Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Success
tc_8_2_2_9	Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Failure (Physical channel failure)
tc_8_2_2_10	Radio Bearer Reconfiguration: from CELL_FACH to CELL_DCH: Success
tc_8_2_2_12	Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)
tc_8_2_2_7	Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Continue and stop)
tc_8_2_4_1	Transport channel reconfiguration from CELL_DCH to CELL_DCH (Hard handover to same radio frequency): Success with no transport channel type switching
tc_8_2_4_2	Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Unsupported configuration)
tc_8_2_4_3	Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)
tc_8_2_4_4	Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion failure)
tc_8_2_4_5	Transport Channel Reconfiguration from CELL_DCH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)
tc_8_2_4_6	Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Invalid message reception and Invalid configuration)
tc_8_2_4_7	Transport channel reconfiguration from CELL_DCH to CELL_FACH: Success
tc_8_2_4_9	Transport channel reconfiguration from CELL_DCH to CELL_FACH: Failure (Cell re-selection)
tc_8_2_4_10	Transport channel reconfiguration from CELL_FACH to CELL_DCH: Success
tc_8_2_4_11	Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)
tc_8_2_4_12	Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion to old channel)
tc_8_2_4_13	Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion failure)
tc_8_2_4_14	Transport Channel Reconfiguration from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)
tc_8_2_4_15	Transport channel reconfiguration from CELL_FACH to CELL_DCH: Failure (Invalid message reception and Invalid configuration)
tc_8_2_4_16	Transport channel reconfiguration from CELL_FACH to CELL_FACH: Success with no transport channel type switching
tc_8_2_4_17	Transport channel reconfiguration from CELL_FACH to CELL_FACH: Failure (Cell re-selection)
tc_8_2_4_18	Transport Channel Reconfiguration from CELL_DCH to CELL_DCH: Success (Subsequently received)
tc_8_2_4_19	Transport Channel Reconfiguration from CELL_FACH to CELL_DCH: Success (Subsequently received)
tc_8_2_4_20	Transport Channel Reconfiguration from CELL_DCH to CELL_PCH: Success
tc_8_2_4_21	Transport Channel Reconfiguration from CELL_DCH to URA_PCH: Success
tc_8_2_5_1	Transport format combination control in CELL_DCH: restriction
tc_8_2_5_2	Transport format combination control in CELL_DCH: release a restriction
tc_8_2_5_3	Transport format combination control in CELL_DCH: Failure (Incompatible simultaneous reconfiguration)
tc_8_2_5_4	Transport format combination control in CELL_DCH: Failure (Invalid message reception and Invalid configuration)
tc_8_2_6_1	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Success
tc_8_2_6_2	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another

	frequency): Failure (Unsupported configuration)
tc_8_2_6_3	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Physical channel failure and reversion to old channel)
tc_8_2_6_4	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Physical channel failure and reversion failure)
tc_8_2_6_5	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Incompatible simultaneous reconfiguration)
tc_8_2_6_6	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Failure (Invalid message reception and Invalid configuration)
tc_8_2_6_7	Physical channel reconfiguration for transition from CELL_DCH to CELL_FACH: Success
tc_8_2_6_8	Physical channel reconfiguration for transition from CELL_DCH to CELL_FACH: Failure (Cell re-selection)
tc_8_2_6_9	Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Success
tc_8_2_6_10	Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)
tc_8_2_6_11	Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)
tc_8_2_6_12	Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and reversion failure)
tc_8_2_6_13	Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Incompatible simultaneous reconfiguration)
tc_8_2_6_14	Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Invalid message reception and Invalid configuration)
tc_8_2_6_15	Physical channel reconfiguration for transition from CELL_FACH to CELL_FACH (Hard handover to another frequency): Success
tc_8_2_6_16	Physical channel reconfiguration for transition from CELL_FACH to CELL_FACH: Failure (Cell re-selection)
tc_8_2_6_17	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency): Success (Subsequently received)
tc_8_2_6_18	Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Success (Subsequently received)
tc_8_2_6_19	Physical Channel Reconfiguration from CELL_DCH to CELL_PCH: Success
tc_8_2_6_20	Physical Channel Reconfiguration from CELL_DCH to URA_PCH: Success
tc_8_3_1_1	Cell Update: cell reselection in CELL_FACH
tc_8_3_1_2	Cell Update: cell reselection in CELL_PCH
tc_8_3_1_3	Cell Update: periodical cell update in CELL_FACH
tc_8_3_1_4	Cell Update: periodical cell update in CELL_PCH
tc_8_3_1_5	Cell Update: UL data transmission in URA_PCH
tc_8_3_1_6	Cell Update: UL data transmission in CELL_PCH
tc_8_3_1_7	Cell Update: paging response in URA_PCH
tc_8_3_1_8	Cell Update: Paging response in CELL_PCH
tc_8_3_1_9	Cell Update: re-entering of service area after T305 expiry and being out of service area
tc_8_3_1_10	Cell Update: expiry of T307 after T305 expiry and being out of service area
tc_8_3_1_11	Cell Update: Success after T302 time-out
tc_8_3_1_12	Cell Update: Failure (After Maximum Re-transmissions)
tc_8_3_1_13	Cell Update: Reception of Invalid CELL UPDATE CONFIRM Message
tc_8_3_1_15	Cell Update: Acknowledged Mode RLC Reset
tc_8_3_1_16	Cell Update: cell reselection in CELL_FACH
tc_8_3_1_17	Cell Update: Failure (UTRAN initiate an RRC connection release procedure on DCCH)
tc_8_3_1_18	Cell Update: Radio Link Failure (T314>0, T315=0)
tc_8_3_1_19	Cell Update: Unrecoverble error in RLC
tc_8_3_1_20	Cell Update: Reception of CELL UPDATE CONFIRM Message that causes invalid configuration
tc_8_3_2_1	URA Update: URA reselection
tc_8_3_2_2	URA Update: periodical URA update
tc_8_3_2_3	URA Update: re-entering of service area after T306 expiry
tc_8_3_2_4	URA Update: loss of service after expiry of timers T307 and T306
tc_8_3_2_5	URA Update: Success After Confirmation error of URA-ID list
tc_8_3_2_6	URA Update: Failure (V303 is greater than N303: Confirmation error of URA-ID list)
tc_8_3_2_7	URA Update: Success after T303 timeout
tc_8_3_2_8	URA Update: Failure (V303 is greater than N303: T303 timeout)
tc_8_3_2_9	URA Update: Failure (UTRAN initiate an RRC connection release procedure on DCCH)

tc_8_3_3_1	UTRAN Mobility Information: Success
tc_8_3_3_2	UTRAN Mobility Information: Failure (Invalid message reception)
tc_8_3_4_1	Active set update in soft handover: Radio Link Addition
tc_8_3_4_2	Active set update in soft handover: Radio Link Removal
tc_8_3_4_3	Active set update in soft handover: Combined radio link addition and removal (Active set is not full)
tc_8_3_4_4	Active set update in soft handover: Unsupported configuration in the UE
tc_8_3_4_5	Active set update in soft handover: Combined radio link addition and removal (Active set is full)
tc_8_3_4_7	Active set update in soft handover: Invalid Message Reception
Measurement	
tc_8_4_1_1	Measurement Control and Report: Intra-frequency measurement for transition from idle mode to CELL_DCH state
tc_8_4_1_2	Measurement Control and Report: Inter-frequency measurement for transition from idle mode to CELL_DCH state
tc_8_4_1_3	Measurement Control and Report: Intra-frequency measurement for transition from idle mode to CELL_FACH state
tc_8_4_1_4	Measurement Control and Report: Inter-frequency measurement for transition from idle mode to CELL_FACH state
tc_8_4_1_5	Measurement Control and Report: Intra-frequency measurement for transition from CELL_DCH to CELL_FACH state
tc_8_4_1_6	Measurement Control and Report: Inter-frequency measurement for transition from CELL_DCH to CELL_FACH state
tc_8_4_1_7	Measurement Control and Report: Intra-frequency measurement for transition from CELL_FACH to CELL_DCH state
tc_8_4_1_8	Measurement Control and Report: Inter-frequency measurement for transition from CELL_FACH to CELL_DCH state
tc_8_4_1_9	Measurement Control and Report: Unsupported measurement in the UE
tc_8_4_1_10	Measurement Control and Report: Failure (Invalid Message Reception)
tc_8_4_1_11	Measurement Control and Report: Compressed Mode Configuration Failure during radio bearer reconfiguration procedure
tc_8_4_1_12	Measurement Control and Report: Compressed Mode Configuration Failure during transport channel reconfiguration procedure
tc_8_4_1_13	Measurement Control and Report: Compressed Mode Configuration Failure during physical channel reconfiguration procedure
tc_8_4_1_14	Measurement Control and Report: Cell forbidden to affect reporting range
tc_8_4_1_15	Measurement Control and Report: Configuration Incomplete
Idle Mode Operations	
tc_6_1_1_1	PLMN selection of RPLMN, HPLMN, UPLMN and OPLMN; Manual mode
tc_6_1_1_2	PLMN selection of "Other PLMN / access technology combinations"; Manual mode
tc_6_1_1_3	PLMN selection; independence of RF level and preferred PLMN; Manual mode
tc_6_1_1_4	PLMN selection of RPLMN, HPLMN, UPLMN and OPLMN; Automatic mode
tc_6_1_1_5	PLMN selection of "Other PLMN / access technology combinations"; Automatic mode
tc_6_1_1_6	UE will transmit only if PLMN available
tc_6_1_2_1	Cell reselection
tc_6_1_2_2	Cell reselection using Qhyst, Qoffset and Treselection
tc_6_1_2_3	HCS Cell reselection
tc_6_1_2_4	HCS Cell reselection using reselection timing parameters for the H criterion
tc_6_1_2_5	HCS Cell reselection using reselection timing parameters for the R criterion
tc_6_1_2_6	Emergency calls

Table 4: RLC TTCN test cases

Test case	Description
tc_7_2_2_2	UM Segmentation and reassembly / Selection of 7 or 15 bit Length Indicators
tc_7_2_2_3	UM Segmentation / 7-bit Length Indicators / Padding
tc_7_2_2_4	UM Segmentation / 7-bit Length Indicators / LI = 0
tc_7_2_2_5	UM Segmentation / 7-bit Length Indicators / Invalid LI value
tc_7_2_2_6	UM Segmentation / 7-bit Length Indicators / LI value > PDU size
tc_7_2_2_7	UM Segmentation / 7-bit Length Indicators / First data octet LI
tc_7_2_2_8	UM Segmentation / 15-bit Length Indicators / Padding
tc_7_2_2_9	UM Segmentation / 15-bit Length Indicators / LI = 0
tc_7_2_2_10	UM Segmentation / 15-bit Length Indicators / One octet short LI
tc_7_2_2_11	UM Segmentation / 15-bit Length Indicators / LI value > PDU size
tc_7_2_2_12	UM Segmentation / 15-bit Length Indicators / First data octet LI
tc_7_2_3_2	AM Segmentation and reassembly / Selection of 7 or 15 bit Length Indicators
tc_7_2_3_3	AM Segmentation / 7-bit Length Indicators / Padding or Piggy-backed Status
tc_7_2_3_4	AM Segmentation / 7-bit Length Indicators / LI = 0
tc_7_2_3_5	AM Segmentation / 7-bit Length Indicators / Reserved LI value
tc_7_2_3_6	AM Segmentation / 7-bit Length Indicators / LI value > PDU size
tc_7_2_3_7	AM Segmentation / 15-bit Length Indicators / Padding or Piggy-backed Status
tc_7_2_3_8	AM Segmentation / 15-bit Length Indicators / LI = 0
tc_7_2_3_9	AM Segmentation / 15-bit Length Indicators / One octet short LI
tc_7_2_3_10	AM Segmentation / 15-bit Length Indicators / Reserved LI value
tc_7_2_3_11	AM Segmentation / 15-bit Length Indicators / LI value > PDU size
tc_7_2_3_12	AM Correct use of Sequence Numbering
tc_7_2_3_13	AM Control of Transmit Window
tc_7_2_3_14	AM Control of Receive Window
tc_7_2_3_15	AM Polling for status / Last PU in transmission queue
tc_7_2_3_16	Polling for status / Last PU in retransmission queue
tc_7_2_3_17	AM Polling for status / Poll every Poll_PU Pus
tc_7_2_3_18	Polling for status / Poll every Poll_SDU SDUs
tc_7_2_3_19	AM Polling for status / Timer triggered polling (Timer_Poll_Periodic)
tc_7_2_3_20	AM Polling for status / Polling on Poll_Window% of transmission window
tc_7_2_3_21	AM Polling for status / Operation of Timer_Poll timer / Timer expiry
tc_7_2_3_22	AM Polling for status / Operation of Timer_Poll timer / Stopping Timer_Poll timer
tc_7_2_3_23	AM Polling for status / Operation of Timer_Poll timer / Restart of the Timer_Poll timer
tc_7_2_3_24	AM Polling for status / Operation of timer Timer_Poll_Prohibit
tc_7_2_3_25	AM Receiver Status Triggers / Detection of missing Pus
tc_7_2_3_26	AM Receiver Status Triggers / Operation of timer Timer_Status_Periodic
tc_7_2_3_27	AM Receiver Status Triggers / Operation of timer Timer_Status_Prohibit
tc_7_2_3_28	AM Status reporting / Abnormal conditions / Reception of LIST SUFI with Length set to zero
tc_7_2_3_30	AM SDU discard after MaxDAT number of retransmissions
tc_7_2_3_31	AM Timer based discard, with explicit signalling / Failure of MRW procedure
tc_7_2_3_32	AM SDU discard after MaxDAT number of retransmissions
tc_7_2_3_33	AM Operation of the RLC Reset procedure / UE Originated
tc_7_2_3_34	AM Operation of the RLC Reset procedure / UE Terminated

Table 5: MAC TTCN test cases

Test case	Description
tc_7_1_8_2	DTCH or DCCH mapped to RACH/FACH / Invalid TCTF

Table 6: BMC TTCN test cases

Test case	Description
tc_7_4_1_1	General BMC message reception / UE in Idle mode
tc_7_4_1_2	General BMC message reception / UE in RRC CELL_PCH
tc_7_4_1_3	General BMC message reception / UE in RRC URA_PCH

Table 7: PDCP TTCN test cases

Test case	Description
tc_7_3_2_1_1_1	IP Header Compression and PID assignment /UE in RLC AM /Transmission of uncompressed Header (1. Test procedure: Transmission of uncompressed IP header packets using PDCP Data PDU)
tc_7_3_2_1_1_2	IP Header Compression and PID assignment /UE in RLC AM /Transmission of uncompressed Header (2. Test procedure: Transmission of uncompressed IP header packets using No Header PDU)
tc_7.3.2.1.2	IP Header Compression and PID assignment /UE in RLC AM/Transmission of compressed Header
tc_7_3_2_2_1_1	IP Header Compression and PID assignment /UE in RLC UM /Transmission of uncompressed Header (1. Test procedure: Transmission of uncompressed IP header packets using PDCP Data PDU)
tc_7_3_2_2_1_2	IP Header Compression and PID assignment /UE in RLC UM /Transmission of uncompressed Header (2. Test procedure: Transmission of uncompressed IP header packets using No Header PDU)
tc_7_3_2_2_2	IP Header Compression and PID assignment /UE in RLC UM/Transmission of compressed Header
tc_7_3_2_2_3	Extension of used compression methods
tc_7_3_2_2_4	Compression type used for different entities
tc_7_3_2_2_5	Reception of not defined PID values

Table 8: RAB TTCN test cases

Test case	Description
tc_14_2_4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
tc_14_2_5	Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH
tc_14_2_6	Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
tc_14_2_7	Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH
tc_14_2_8	Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
tc_14_2_9	Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
tc_14_2_10	Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH
tc_14_2_11	Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH
tc_14_2_12	Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
tc_14_2_13_1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI
tc_14_2_13_2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI
tc_14_2_14_1	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH Conversational / unknown / UL:32 DL:32 kbps / CS RAB / 20 ms TTI
tc_14_2_14_2	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH Conversational / unknown / UL:32 DL:32 kbps / CS RAB / 40 ms TTI
tc_14_2_15	Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
tc_14_2_16	Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

tc_14_2_17	Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
tc_14_2_26	Interactive or Background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

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Total of test cases: 499