

History of changes (Maximum length: 1 page only)		
Date of change	Effective date	Changes made
15/10/2010	15/10/2010	New MSS, HLR addresses SGSN and GGSN vendor New email address Postal Address and Contacts
15/11/2010	15/12/2010	New SCCP Provider New GRX Provider
24/03/2010	24/03/2010	New VLR'S Address New HLR Address
15/02/2012	15/02/2012	Added SCCP Provider New SGSN GT
29/06/2012	29/06/2012	New PLMN IP, NEW SMS HUB GT
20/03/2013	20/03/2013	NEW SMSC ADDRESS
19/08/2013	19/08/2013	NEW SMSC ADDRESS
20/12/2013	20/12/2013	ADDED MSS GT'S ADDED SGSN GT'S
24/06/2014	24/06/2014	Updated HLR GT's Updates IMSI series
08/12/2015	08/12/2015	New NDC Update Contacts Update MSC GT's and SMSC GT
06/09/2016	06/09/2016	Update vendor info Update SMSC GT Update SMS Hub New SGSN GT
23/01/2017	23/01/2017	New EDNS IP Address
05/07/2019	23/07/2019	New VMSS, VHSS, SMSC and MME GT Update on ISP PDNS
18/07/2019	23/07/2019	LTE Information IPX Vendor Information
04/05/2021		Added new SGSN-MME GT's, S6a, eDNS, GSN inter PLMN IP address range
18/05/2021	18/08/2021	GPRS Information Autonomous System Number (ASN):
23/08/2021	01/09/2021	Added New HSS and New HLR GTs, New MSS GTs Added LTE Information (IPX Vendor Information) Added New DPC for International SCCP Provider
01/03/2022	05/03/2022	Removal of old GPRS and LTE information

OPERATOR NAME	AIRTEL TANZANIA PLC
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Country (Abbreviated according to ISO 3166):	TZ
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ROUTING INFORMATION		
CCITT E.164 Number series:	Country Code (CC)	National Destination Code (NDC)
MSISDN number range(s):	255	78, 68. 69
Network nodes Global Title number range(s):	255	78
E.212 Number series:	Mobile Country Code (MCC)	Mobile Network Code (MNC)
	640	05
E.214 Mobile Global Title: (MGT)	Country Code of MGT (CC)	Network Code of MGT (NC)
	255	78
Does Number Portability apply	YES	

INTERNATIONAL SCCP GATEWAY		
Name of SCCP carrier:	BICS, Belgium	
Location:	Geneve, Switzerland	Zurich, Switzerland
Signature:	GNV63TIH	ZRC64TIH
Type:	INTAL0	INTAL0
International DPC:	2-059-1 (4569)	2-063-0 (4600)
Date for the ability to transmit and handle XUDT/XUDTS:		

DATE FOR THE AVAILABILITY OF WHITE BOOK SCCP IN THE PLMN	
The ability to receive segmented XUDT/XUDTS:	
The ability to send segmented XUDT/XUDTS:	

INTERNATIONAL SCCP GATEWAY		
Name of SCCP carrier:	Bhart, India	
Location:	Chennai, India	Mumbai, India
Signature:	CHNSTP	MUMSTP
Type:	SCCP GW	SCCP GW
International DPC:	4-07-4 (8252)	4-14-4 (8308)
Date for the ability to transmit and handle XUDT/XUDTS:		

ANSI Networks SCCP GATEWAY	
Signature:	SYNIVERSE
Type:	ISC
International DPC:	235-250-000

SIGNALLING SYSTEM NO. 7 ACCESS SOLUTION		
Initial solution:	Initial solution valid until (date):	Subsequent solution:

SUBSCRIBER IDENTITY AUTHENTICATION	
Authentication performed for roaming subscribers at the commencement of GSM Service	
Authentication performed for roaming subscribers in case of GPRS	
A5 Cipher Algorithm version in use	

AUTOMATIC ROAMING TESTING		
Entity	Subscriber-Number	Location
Automatic Answering Circuit (AAC)	(MSISDN)	
1. AAC 2. AAC 3. AAC		
Automatic Answering Circuit (Accessible only from the Network-Network Interconnection Interface) 1. AAC 2. AAC 3. AAC		
Data Automatic Answering Circuit (DAAC) 1. Calls for Data 1. DAAC 2. DAAC 3. DAAC ... 2. Fax Gr.3 1. Fax DAAC 2. Fax DAAC 3. Fax DAAC		

MOBILE APPLICATION PART (MAP)

Interworking Specifically for Roaming				
Application Context Name	Current version in		Outbound Roaming	Comments
	Inbound Roaming			
	MSC/VLR	SGSN		
networkLocUp	V3	N/A		
roamingNumberEnquiry	V3	N/A		
infoRetrieval	V3	-		
subscriberDataMngt	V3	-		
networkFunctionalSs	V3	N/A		
mwdMngt	-	-		
shortMsgMT-Relay		-		
(called shortMsgRelay in v1)	V2	-		
shortMsgMO-Relay	-	-		
(called shortMsgRelay in v1)	V2	-		
ss-InvocationNotification	-	N/A		
subscriberInfoEnquiry	V3	-		
gprsLocationUpdate	N/A	-		
locationCancellation	V3	-		
msPurging	V3	-		
reset	V3	-		
networkUnstructuredSs	V3	N/A		
reporting	-	N/A		
callCompletion	-	N/A		
istAlerting	-	N/A		
serviceTermination	-	N/A		
locationSvcGateway	N/A	N/A		
mm-EventReporting	-	N/A		
authenticationFailureReport	-	-		
imsiRetrieval	-	N/A		
gprsNotifyContext	N/A	-		
gprsLocationInfoRetrieval	N/A	-		
failureReport	N/A	-		
secureTransportHandling	-	-		
Optimal Routing of mobile-to-mobile calls				
Application Context Name	Current Version			Comment
	(V)MSC	GMSC	HLR	
CallControlTransfer	-	-	N/A	
LocationInfoRetrieval	N/A	-	-	
Inter-Operator SMS Enhancement				
Application Context Name	Current Version			Comment
	SMS-IWMSC	SMS-GMSC	HLR	
shortMsgGateway	N/A	-	-	
shortMsgAlert	V2	N/A	-	

Vendor Information	
BSS vendor(s) and SW/HW version:	Ericsson, 12B & Huawei R17
HLR vendor(s) and SW/HW version:	Ericsson, 15A
MSC/VLR vendor(s) and SW/HW version:	Ericsson, 18.2
SMSC vendor(s) and SW/HW version:	Jinny, Version 7.1.0 and Comviva, Version 6.2.0
SGSN vendor(s) and SW/HW version:	Huawei, Ericsson SGSN-MME 1.45
GGSN vendor(s) and SW/HW version:	Huawei, Ericsson EPG 2.13
IN vendor(s) and SW/HW version:	Ericsson, CS5

GPRS Information	
APN Operator Identifier:	INTERNET.APN.EPC.MNC005.MCC640.3GPPNETWORK.ORG
EDNS IP address & name (primary)	MOeDNS01.mnc005.mcc640.gprs 41.75.216.20 MOeDNS01.epc.mnc005.mcc640.3gppnetwork.org 41.75.216.20 MOeDNS02 .mnc005.mcc640.gprs 41.75.216.20 MOeDNS02 .epc.mnc005.mcc640.3gppnetwork.org 41.75.216.20
EDNS IP address & name (secondary):	KJeDNS01.mnc005.mcc640.gprs 41.75.216.52 KJeDNS01.epc.mnc005.mcc640.3gppnetwork.org 41.75.216.52 KJeDNS02.mnc005.mcc640.gprs 41.75.216.52 KJeDNS02.epc.mnc005.mcc640.3gppnetwork.org 41.75.216.52
Inter PLMN GSN Backbone IP address range(s)	41.75.216.0/26
Autonomous System Number (ASN):	37133 , 64845 , 64514
Pingable and traceroutable IP address:	

GRX provider(s):		Belgacom international carrier services
List of APN's available for testing and troubleshooting		
WEB	APN	internet
	Username	N/A
	Password	N/A
	ISP DNS IP address (primary)	41.221.41.101, 41.75.216.21
	ISP DNS IP address (secondary)	196.45.42.100, 41.75.216.53

WAP	APN	
	Username	
	Password	
	WAP Gateway IP address	
	WAP Server URL	
	Port	

MMS	APN	
	Username	
	Password	
	WAP Gateway IP address	
	Messaging Server URL	
	Port	
Blackberry	APN	blackberry.net
	Username	N/A
	Password	N/A
	ISP DNS primary	GTP Version 2
	ISP DNS primary	GTP Version 2
GTP version	SGSN	GTP Version 2
	GGSN	GTP Version 2
BSS information :(optional field)		
Contact person(s) for GPRS :(optional field)		

MMS Interworking Information	
Domain name of MMSC	
IP address range for MMSC	
IP address(es) of incoming MTA	
IP address(es) of outgoing MTA	
Max. size of MMS allowed	
Delivery Report allowed?	
Read Report allowed?	
Contact person(s) for IW MMS:(optional field)	

MMS IW Hub Provider(s) GT addresses:	
MMS IW Hub Provider(s) Name(s):	

WLAN Information	
RADIUS server/ RADIUS proxy IP address(es):	
IP address range(s) used for WLAN roaming signaling:	
Realm(s):	
Brand name of the WLAN service:	
Contact person(s) for WLAN:(optional field)	

LTE INFORMATION				
Hostnames	Realm name	Port	Active IP	Standby IP
MOMME01.epc.mnc005.mcc640.3gppnetwork.org	epc.mnc005.mcc640.3gppnetwork.org	3868	41.75.216.22/32	41.75.216.6/32
KJMME01.epc.mnc005.mcc640.3gppnetwork.org		3868	41.75.216.54/32	41.75.216.38/32
mor.hss.epc.mnc005.mcc640.3gppnetwork.org		2905	196.46.120.108/32	196.46.120.109/32
mrhss02.hss.epc.mnc005.mcc640.3gppnetwork.org		3868	196.46.120.112/32	196.46.120.113/32
kjhss07.hss.epc.mnc005.mcc640.3gppnetwork.org		3868	196.46.120.114/32	196.46.120.115/32
IPX VENDOR INFORMATION				
Hostnames	Realm name	Port	Active IP	Standby IP
dra01b11.dra.bics.3gppnetwork.org	dra.bics.3gppnetwork.org	3868	94.102.167.137	94.102.167.153
dra01b22.dra.bics.3gppnetwork.org		3868	94.102.167.169	94.102.167.185
dra02bru.dra.bics.3gppnetwork.org		3868	94.102.167.133	94.102.167.149
dra02mrsi.dra.bics.3gppnetwork.org		3868	94.102.167.165	94.102.167.181

CAMEL INFORMATION

gsmSSF/MSC:

CAP (CAMEL Application Part) version:	Yes	No	Date of Planned Support (if any)
CAP version 1	<input type="checkbox"/>	<input type="checkbox"/>	
CAP version 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CAP version 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CAP version 4	<input type="checkbox"/>	<input type="checkbox"/>	
Partial implementations supported in CAP version4	Yes	No	Date of Planned Support (if any)
CAMEL Phase4 CSIs:	<input type="checkbox"/>	<input type="checkbox"/>	
O-CSI	<input type="checkbox"/>	<input type="checkbox"/>	
D-CSI	<input type="checkbox"/>	<input type="checkbox"/>	

VT-CSI	<input type="checkbox"/>	<input type="checkbox"/>
MT-SMS-CSI	<input type="checkbox"/>	<input type="checkbox"/>
Functionalities:	<input type="checkbox"/>	<input type="checkbox"/>
Initiate Call Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Split Leg	<input type="checkbox"/>	<input type="checkbox"/>
Move Leg	<input type="checkbox"/>	<input type="checkbox"/>
Disconnect Leg	<input type="checkbox"/>	<input type="checkbox"/>
Entity Released	<input type="checkbox"/>	<input type="checkbox"/>
DFC With Argument	<input type="checkbox"/>	<input type="checkbox"/>
Play Tone	<input type="checkbox"/>	<input type="checkbox"/>

CAP (CAMEL Application Part) version:	Yes	No	Date of Planned Support (if any)
DTMF Mid Call	<input type="checkbox"/>	<input type="checkbox"/>	
Charging Indicator	<input type="checkbox"/>	<input type="checkbox"/>	
Alerting DP	<input type="checkbox"/>	<input type="checkbox"/>	
Location At Alerting	<input type="checkbox"/>	<input type="checkbox"/>	
Change Of Position DP	<input type="checkbox"/>	<input type="checkbox"/>	
OR Interactions	<input type="checkbox"/>	<input type="checkbox"/>	
Warning Tone Enhancements	<input type="checkbox"/>	<input type="checkbox"/>	
CF Enhancements	<input type="checkbox"/>	<input type="checkbox"/>	
gprsSSF/SGSN:			
CAP (CAMEL Application Part) version:	Yes	No	Date of Planned Support (if any)
CAP version 3	√	<input type="checkbox"/>	
CAP version 4	<input type="checkbox"/>	<input type="checkbox"/>	

Partial implementations supported in CAP version 4	Yes	No	Date of Planned Support (if any)
CAMEL Phase 4 CSIs	<input type="checkbox"/>	<input type="checkbox"/>	
MT-SMS-CSI	<input type="checkbox"/>	<input type="checkbox"/>	
MG-CSI	<input type="checkbox"/>	<input type="checkbox"/>	
PSI Enhancements	<input type="checkbox"/>	<input type="checkbox"/>	

SMSC INFORMATION

SMSC GT addresses:	25578 0000004-Used by subscribers 255780000090, 255780000216 , 255780000217, 255780000030, 255780000195, 255780000194 and 255780000188, 255780000080, 255780000080, 255780000301, 255780000291, 255780000191
SMS HUB GT	918299901123, 918299901124, 918299901125, 918299901127, 918299901128, 918299901129, 918299901900

MISCELLANEOUS INFORMATION
<p>Number Information: (if applicable, include additional E.164 Number Ranges due to Number Portability)</p> <p>MSRN Structure</p> <p>The MSRN complies with GSM 03-03 and CCITT E.164. The MSRN length is 9 digits in National Format and 12 digits in International Format.</p> <p>It is composed as follows:</p> <p>MSRN= CC+NDC+Z1,Z2,Z3,Z4,Z5,Z6 ,Z7 255 78 0000100 to 255 78 0099999</p> <p>MSISDN structure complies with GSM 03.03 and CCITT E.164 and has a fixed length of 12 Digits.</p> <p>It is composed as follows:</p> <p>MSISDN = CC+NDC+SN CC = 255 NDC=78, 68 and 69 SN= X1,X2,X3,X4,X5,X6,X7 Where X = 1,2,3,...9</p>

MISCELLANEOUS INFORMATION

IMSI structure

Complies with GSM 03.03 and

CCITT E.212 and has a fixed length of 15 Digits. It is composed as follows:

IMSI = MCC + MNC + MSIN MCC = 640

MNC = 05

MSIN = H1Â.....H10 where H1,H2 = 01 (Pre Â– Paid)

MSIN = H1Â.....H10 where H1,H2 = 03 (Post Â– Paid)

MSIN = H1Â.....H10 where H1,H2,H3 = 021 (Post Â– Paid)

MSIN = H1Â.....H10 where H1,H2,H3 = 022 (Pre Â– Paid)

MSIN = H1Â.....H10 where H1,H2,H3 = 041 (Post Â– Paid)

MSIN = H1Â.....H10 where H1,H2,H3 = 051 (Post Â– Paid)

MSIN = H1Â.....H10 where H1,H2,H3 = 052 (Pre Â– Paid)

MSIN = H1Â.....H10 where H1,H2,H3 = 061 (Post Â– Paid)

MSIN = H1Â.....H10 where H1,H2,H3 = 062 (Pre Â– Paid)

MSIN = H1Â.....H10 where H1,H2,H3 = 071 (Pre Â– Paid)

MSIN = H1Â.....H10 where H1,H2,H3 = 072 (Pre Â– Paid)

MSIN = H1Â.....H10 where H1,H2,H3 = 091 (Pre Â– Paid)

MSIN = H1Â.....H10 where H1,H2,H3 = 092 (Pre Â– Paid)

Translation of IMSI to MGT

MCC = 640 to CC = 255

MNC = 05 to NDC =78

MSC/VLR GT:

~~MSC1/VLR1: 255 78 0000008~~

~~MSS3: 255 78 0000050, 255780000034, 255780000078~~

~~MSS4: 255 78 0000054, 255780000044, 255780000098~~

MSS5: 255 78 0000055, 255780000045, 255780000172

~~MSS6: 255 78 0000220, 255780000047, 255780000124~~

MSS7: 255 78 0000035, 255780000025, 255780000075

MSS8: 255 78 0000222, 255780000056, 255780000125

..... Miscellaneous Information

~~MSS9: 255 78 0000223, 255780000063, 255780000126~~

MSS10: 25578 0000224, 255780000069, 255780000127

~~MSS11: 255780000225, 255780000289~~

MSS12: 255780000181, 255780000182, 255780000183

MRMSS01: 255780000031

KJMSS03: 255780000173

KJMSS04: 255780000193

MRMSS02: 255780000231

HLR GT:

HLR3: 255 78 0000210

HLR4: 255 78 0000174

HLR5: 255 78 0000175

HLR6: 255 78 0000176

MRHLR01: 255780000016

KJHLR07: 255780000305

HSS GT:

MRHSS01: 255780000006

MRHSS02: 255780000306

KJHSS07: 255780000309

SGSN GT:

SGSN GT: 255780000178, 255780000288

MOMME01: 255780000319

KJMME01: 255780000310

CONTACT PERSONS

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Working Hours: 08:00-17:00 (Monday-Friday)

ESCALATION CONTACT

nmc.reporting@airtel.co.tz; tz_tsg_group@airtel.co.tz

OTHER INFORMATION

Contact point (address) for distribution of updating of the roaming database:

Postal & Delivery Address

Airtel Tanzania PLC

Airtel House,
Corner Aof.H Mwinyi Road & Kawawa Road,
Morocco
P. O. Box 9623,
Dar-es-Salaam,
Tanzania

Effective date of change: 01-09-2021