

**GSM MoU Association Permanent Reference Document: IR.21**  
**AIRTEL GABON**

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**GSM Association Roaming Database, Structure and Updating Procedures**

4.0  
April 2016

***This is a binding permanent reference document of the GSM Association.***

Security Classification Category (see next page):		
Unrestricted		X

History of changes		
26/10/2020		- Add GTs for Roamware
14/04/2020		- New NDC 24176 - Additional MSRN Below 24176001 24176002 24176003 24176004
10/02/2020	10/02/2020	- Update IP ranges PLMN:  154.0.179.97/32 154.0.179.98/32 154.0.179.99/32 154.0.179.100/32 154.0.179.64/29

		154.0.179.72/29 154.0.179.80/29 154.0.179.88/29
10/02/2020	10/02/2020	- New SGSN-MME IPs: 1. Gn/Gp-C: 154.0.179.97/32 2. Gn/Gp-U: 154.0.179.98/32 3. S6a: 154.0.179.99/32 154.0.179.100/32
10/02/2020	10/02/2020	- New SGSN-MME GT: 24107389533
10/02/2020	10/02/2020	- New GGSN IP Ranges: 1. S5/S8-C: 154.0.179.64/29 2. S5/S8-U: 154.0.179.72/29 3. Gn/Gp-C: 154.0.179.80/29 4. Gn/Gp-U: 154.0.179.88/29

01/08/2019	15/09/2019	- New HLRs & HSSs added  LTC-Z-USPP41 HQ-Z-USPP42  EPCHSS41 EPCHSS42
17/07/2019	17/07/2019	- Update IP ranges PLMN: 41.223.93.0/26 154.0.184.0/29 154.0.184.8/29 154.0.184.48/29 154.0.184.88/29 154.0.184.96/29 154.0.184.112/29 154.0.184.120/29 154.0.186.161/32 154.0.186.162/32 154.0.186.163/32 154.0.186.164/32 154.0.186.165/32 154.0.186.144/29 154.0.186.152/29 154.0.186.128/29 154.0.186.136/29
17/07/2019	17/07/2019	- New SGSN-MME IPs: 1. MME IP: 154.0.186.165/32 2. Gn/Gp-C: 154.0.186.161/32 3. Gn/Gp-U: 154.0.186.162/32 4. S6a: 154.0.186.163/32 154.0.186.164/32
17/07/2019	17/07/2019	- New SGSN-MME GT: 24107389506

17/07/2019	17/07/2019	- New GGSN IP Ranges: 1. S5/S8-C: 154.0.186.144/29  2. S5/S8-U: 154.0.186.152/29  3. Gn/Gp-C: 154.0.186.128/29 4. Gn/Gp-U: 154.0.186.136/29
01/04/2019	01/04/2019	- Update IP ranges PLMN
01/04/2019	01/04/2019	- Modify IP ranges PLMN :  41.223.93.0/26 154.0.184.0/29 154.0.184.8/29 154.0.184.48/29 154.0.184.88/29 154.0.184.96/29 154.0.184.112/29 154.0.184.120/29
29/10/2018	29/10/2018	- Update IP ranges PLMN
26/10/2018	26/10/2018	- Add IP ranges PLMN : 1. S5/S8-U IP Address: 154.0.184.120/29 2. S5/S8-C IP Address: 154.0.184.112/29
13/11/2017	13/11/2017	- New GGSN IP Ranges: 1. S5/S8-U IP Address: 154.0.184.120/29 2. S5/S8-C IP Address: 154.0.184.112/29  - New IP Ranges PLMN: 1. Gn-S5-U IP Address: 154.0.184.96/29 2. Gn-S5-C IP Address: 154.0.184.88/29
01/04/2016	01/04/2016	- New SGSN IP Ranges: 1. 154.0.184.0/29 2. 154.0.184.8/29
01/04/2016	01/04/2016	- New GT Address Range: 3. 41.223.93.0/26


01/04/2016	01/04/2016	- LTE Information 1. APN Operator Identifier 2. Diameter Edge Agent 3. eDNS 4. IPv6 Connectivity Information
01/12/2015	01/11/2015	- New SGSN IP Ranges: 4. GTP- C : 154.0.184.48/32, 154.0.184.49/32 5. GTP- U: 154.0.184.50/32
01/12/2015	01/11/2015	- New SGSN Address: 24107389530
- 19/02/2013	- 19/02/2013	- Add new DNS IPs address(41.223.93.23, 41.223.93.24) -
- 13/08/2012	- 01/12/2012	- E 164 Additional numbers
- 20/08/2012	- 18/10/2012	- New NDC - New HLR added
04/08/2011	04/08/2011	- New IP address ranges for connection to Inter-PLMN IP
04/08/2011	04/08/2011	- New AS Number
11/02/2011	11/02/2011	- New SCCP Provider
19/11/2010	19/11/2010	- New APNs
19/11/2010	19/11/2010	- New HLR added
19/11/2010	19/11/2010	- Contact details changed
07/04/2009	07/04/2009	- New NDC
14/01/2009	14/01/2009	- Blackberry APN Added
14/01/2009	14/01/2009	- CAMEL Version Added
14/01/2009	14/01/2009	- Contact Details Changed
14/01/2009	14/01/2009	- IMSI Ranges Specified

Operator name: <sup>1</sup>	AIRTEL-GABON
<b>Country (abbreviated according to ISO 3166):</b>	<b>GA/GAB</b>
<b>Technologie</b>	<b>GSM;3G/UMTS;LTE/HSDPA</b>
<b>Frequency</b>	<b>GSM 900 MHz; 1800 MHz 3G/UMTS 2100 MHz LTE/HSDPA 800MHz</b>

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Maximum 22 letters. This field is only used for administrative purposes, however, it must always be filled in in order to identify the operator.

ROUTING INFORMATION		
<b>CCITT E.164 Number series:</b>	<b>Country Code (CC)</b>	<b>National Destination Code</b>
<b>MSISDN Number range(s) :</b>	241	07, <b>77</b> , 04, <b>74</b>
<b>Network nodes Global Title number range(s):</b>	241	07, <b>77</b> , 04, <b>74</b>
<b>MSRN NUMBER RANGE(S):</b>	241	07, <b>77</b> , 04, <b>74</b>
<b>E.212 NUMBER SERIES:</b>	<b>MOBILE COUNTRY CODE (MCC)</b>	<b>MOBILE NETWORK CODE (MNC)</b>
	628	03
<b>E.214 MOBILE GLOBAL TITLE: (MGT)</b>	<b>COUNTRY CODE OF MGT (CC)</b>	<b>NETWORK CODE OF MGT (NC)</b>
	241	07

ANSI Networks SCCP GATEWAY		
<b>Name of SCCP carrier:</b>		
<b>Signature:</b> <sup>2</sup>	<b>SYNIVERSE</b>	
<b>Type:</b> <sup>3</sup>	<b>ISC</b>	
<b>International DPC:</b>	<b>235-250-000</b>	
<b>Date for the ability to transmit and handle</b>		
<b>XUDT/XUDTS:</b> [3]		

<sup>2</sup>

Maximum 20 letters. This field is only needed for information and may be omitted.

<sup>3</sup>

ISC, MSC, Stand-alone SCCP etc. Maximum 20 letters. This field is only needed for information and may be omitted.

[3]

XUDT means Extended Unitdata, this long user data can be handled by the White Book through segmentation and reassembly. XUDT S means Extended Unitdata Service, this message is used to indicate that a XUDT can not delivered to destination

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

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

<b>AUTOMATIC ROAMING TESTING</b> <sup>4</sup>		
<b>Entity</b>	<b>Subscriber- Number</b>	<b>Location</b>
<b>Automatic Answering Circuit (AAC)</b> <sup>5</sup> 1. AAC 2. AAC 3. AAC . . .	(MSISDN)	
<b>Data Automatic Answering Circuit (DAAC)</b>  <b>1. Calls for Data</b> 1. DAAC 2. DAAC 3. DAAC . . . <b>2. Fax Gr.3</b> 1. Fax DAAC 2. Fax DAAC 3. Fax DAAC . . .	(MSISDN/ISDN)	

<sup>4</sup> In this field, more detailed information about subscriber-numbers using for Automatic Roaming Testing: see PRD IR.28

<sup>5</sup> The number of AAC and DAAC installed in the network is decided by each operator

MOBILE APPLICATION PART (MAP)				
	Inbound Roaming		Outbound Roaming <sup>6</sup>	
	MSC/VLR	SGSN		
networkLocUp	V3			
roamingNumberEnquiry	V3			
infoRetrieval	V3			
subscriberDataMngt	V3			
networkFunctionalSs	V3			
mwdMngt	V3			
shortMsgMT-Relay	V3			
(called shortMsgRelay in v1)				
shortMsgMO-Relay	V3			
(called shortMsgRelay in v1)				
ss-InvocationNotification	V3			
subscriberInfoEnquiry	V3			
gprsLocationUpdate	N/A			
locationCancellation	V3			
msPurging	V3			
reset	V3			
networkUnstructuredSs	V3			
reporting	N/A			
callCompletion	N/A			
istAlerting	V3			
serviceTermination	V3			

<sup>6</sup> The term "Outbound Roaming" denotes any one of the following nodes that is located in the home PLMN only: HLR, gsmSCF, SMS-IW MSC, SMS-GMSC.

locationSvc Gateway	N/A			
mm-EventReporting	V3			
authenticationFailureReport	N/A			
imsiRetrieval	N/A			
gprsNotifyContext	N/A			
gprsLocationInfoRetrieval	N/A			
failureReport	N/A			
secureTransportHandling	N/A			
Optimal Routing of mobile-to-mobile calls				
Application Context Name	Current Version			Comments
	(V)MSC <sup>7</sup>	GMSC	HLR	
CallControlTransfer	V3		N/A	
LocationInfoRetrieval <sup>8</sup>	N/A			
Inter-Operator SMS Enhancement				
Application Context Name	Current Version			Comments
	SMS-IWMSC	SMS-GMSC	HLR	
shortMsgGateway	N/A			
shortMsgAlert	V2	N/A		

<sup>7</sup> The MSC is acting as a VMSC for a roaming subscriber for ORLCF; see sub-clause 4.2 of 3GPP TS 23.079 for more information.

<sup>8</sup> The "locationInfoRetrieval" application context is only valid for inter-PLMN signalling in Optimal Routing of mobile-to-mobile calls; otherwise it is only intra-PLMN. Note that the dialogue initiator is a GMSC which is integrated with the calling subscriber's MSC/VLR (and obviously the dialogue responder is the called subscriber's HLR, which is in the called subscriber's HPLMN).



**LTE Roaming Information:**

APN Operator Identifier	epc.mnc003.mcc628.3gppnetwork.org
Diameter Edge Agent (IP Address)	154.0.184.33/32
	154.0.184.34/32

DNS Name	IP Address	FQDN
eDNS1 (Primary)	41.223.93.23	edns01.epc.mnc003.mcc628.3gppnetwork.org
eDNS2 (Secondary)	41.223.93.24	edns02.epc.mnc003.mcc628.3gppnetwork.org

S5/S8 (User Plane) IP Address		154.0.184.9/29 154.0.184.120/29 154.0.186.152/29 154.0.179.72/29
S5/S8 (Control Plane) IP Address		154.0.184.1/29 154.0.184.112/29 154.0.186.144/29 154.0.179.64/29
S6a Supported without IWF	S6a MAP IWF supported to HSS	S6a MAP IWF supported to MME
True	False	False

S6d used for legacy SGSN	S8 GTP Interface Available	S8 PMIM Interface Available
False	True	False

<b>S6a Host Names:</b>
EPCHSS41.epc.mnc003.mcc628.3gppnetwork.org
EPCHSS42.epc.mnc003.mcc628.3gppnetwork.org
LTCVSGSN01.epc.mnc003.mcc628.3gppnetwork.org
HQSGSN01.epc.mnc003.mcc628.3gppnetwork.org
PGTVSGSN01.epc.mnc003.mcc628.3gppnetwork.org

S9 Hostnames (PCRF List)	N/A
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S9 Used for PCC	False
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SMS ITW	SMS Delivery over IP	SMS Delivery over SGs
	False	True

Voice ITW	CSFB
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Roaming Retry	
Is Roaming Retry supported?	Yes

	LTE Only Roaming	HPMN	VPMN
LTE Roaming Agreement Only	Supported	No	No
2G/3G Roaming Agreement Only	Supported	Yes	Yes
2G/3G/LTE Roaming Agreement	Supported	Yes	Yes
LTE Roaming Agreement Only	Supported	No	No

IPv6 Connectivity Information		
	IPv6 PDP Supported	IPv4v6 PDP Supported
MME	No	No
SGW	No	No
PGW	No	No

<b>GPRS Information</b>		
<b>APN Operator Identifier<sup>[1]</sup>:</b>		mnc003.mcc628.gprs
<b>List of APN's available for testing and troubleshooting:</b>		
<b>WEB</b>	<b>APN 1</b>	internet.ga.zain.com
	<b>Username</b>	None
	<b>Password</b>	None
	<b>DNS IP address (primary)</b>	None
	<b>DNS IP address (secondary)</b>	None
<b>WAP</b>	<b>APN</b>	wap.ga.zain.com
	<b>Username</b>	None
	<b>Password</b>	None
	<b>WAP Gateway IP address</b>	None
	<b>WAP Server URL</b>	None
<b>MMS</b>	<b>Port</b>	None
	<b>APN</b>	
	<b>Username</b>	
	<b>Password</b>	
	<b>WAP Gateway IP address for MMS</b>	
<b>Blackberry</b>	<b>APN</b>	blackberry.net
	<b>Username</b>	None
	<b>Password</b>	None
	<b>DNS IP address (primary)</b>	
	<b>DNS IP address (secondary)</b>	
<b>GTP version<sup>[2]</sup></b>	<b>SGSN</b>	GTPv1
	<b>GGSN</b>	GTPv1
<b>BSS information<sup>[3]</sup> : (optional field)</b>		
<b>Contact person(s) for GPRS<sup>[4]</sup> : (optional field)</b>		IREG team (see contact persons section)

[1] APN Operator Identifier used for GGSN resolution. The last three labels of the APN Operator Identifier must be in the form: MNC.MCC.GPRS

[2] The highest GTP version which operators support. (e.g.: R97 and R98: ver.0, R99 and after R99 : ver.1)

It is recommend that GTPver1 be supported from 00:00:00 1st January 2005, otherwise while GTPver0 only is supported by a network that network should apply the configuration defined in IR.34.

[3] BSS vendor(s), (software/hardware version) Ciphering active yes/no PBCCH

[4] Contact information for the GPRS specialists as well as working time and Time Zone

**IP-Roaming and IP-Interworking Information**

All IP address ranges used by PLMN for connection to Inter-PLMN IP backbone<sup>9</sup>:

41.223.93.0/26  
 154.0.184.0/29  
 154.0.184.8/29  
 154.0.184.48/29  
 154.0.184.88/29  
 154.0.184.96/29  
 154.0.184.112/29  
 154.0.184.120/29  
 154.0.186.161/32  
 154.0.186.162/32  
 154.0.186.163/32  
 154.0.186.164/32  
 154.0.186.165/32  
 154.0.186.144/29  
 154.0.186.152/29  
 154.0.186.128/29  
 154.0.186.136/29  
 154.0.179.97/32  
 154.0.179.98/32  
 154.0.179.99/32  
 154.0.179.100/32  
 154.0.179.64/29  
 154.0.179.72/29  
 154.0.179.80/29  
 154.0.179.88/29

**Autonomous System Number (ASN)<sup>10</sup>:**

**37616**

**List of PLMN authoritative DNS server IP addresses & Names<sup>11</sup>:**

41.223.93.23  
 edns01.mnc003.mcc628.gprs  
 41.223.93.24  
 edns01.mnc003.mcc628.gprs

**List of PLMN local caching DNS server IP addresses & names<sup>12</sup>:**

**IP address that responds to ping/traceroute<sup>13</sup>:**

41.223.93.23  
 41.223.93.24

**GRX provider(s):**

**Bics (Belgacom)**

Contact person(s) (in PLMN) for GRX connectivity:

Marc Aurele MANGAL MA BULINGI

Contact person (in PLMN) to verify authority of a GRX provider to add/modify data in Root DNS:

Name:

Marc Aurele MANGAL MA BULINGI

Tel:

+241 74 19 48 40

Fax (optional):

+241 11 74 52 86      +241 111 74 52 86

- 9 IP addresses or IP address range(s) of all operator's nodes that connect to the inter-PLMN IP backbone network known as the "GRX" e.g. GGSNs, SGSNs, MMSCs, AAA Servers/Proxies, DNS Servers etc. This information is used for firewall and Border Gateway configuration (see PRD IR.34).
- 10 The Autonomous System Number (ASN) is a 16 bit integer that every PLMN must assign to their IP network that is seen as one Autonomous System (AS). The ASN enables the exchange of exterior routing information between neighbouring Autonomous Systems. This can be either a private ASN (64512 through to 65535) or public ASN.
- 11 IP address(es) and name(s) of DNS server(s) that are authoritative DNS server(s) i.e. DNS servers that answer DNS requests/queries from local caching DNS servers. Note that DNS hostname(s) given in this field should match the actual name(s) configured in the operator DNS server(s) (this is to avoid conflict with the NS records in the Root DNS and operator DNS servers).
- 12 IP address(es) and name(s) of DNS server(s) that are local caching DNS server(s) i.e. DNS server(s) that send DNS requests/queries in order to resolve domain names on behalf of e.g. SGSN, MMSC etc. Note that DNS hostname(s) given in this field should match the actual name(s) configured in the operator DNS server(s) (this is to avoid conflict with the NS records in the Root DNS and operator DNS servers).
- 13 Pingable and traceroutable IP address of a node within the operator's AS. Maximum size for ping is 64 bytes. Minimum time interval for pinging is 1 hour.

IP-Roaming and IP-Interworking Information	
E-Mail:	<a href="mailto:Roaminghelpdesk@ga.airtel.com">Roaminghelpdesk@ga.airtel.com</a>
Alternative contact person (in PLMN) to verify authority of a GRX provider to add/modify data in Root DNS:	
Name:	Debora NGO NSANG
Tel:	+241 74 21 01 41
Alternative Tel:	
E-Mail (optional):	<a href="mailto:RoamingHelpdesk@ga.airtel.com">RoamingHelpdesk@ga.airtel.com</a>

MMS Interworking Information	
Domain name of MMSC	
IP address(es) of incoming MTA	
IP address(es) of outgoing MTA	
Max. size of MMS allowed	
Delivery Report allowed?	
Read Report allowed?	

CAMEL INFORMATION			
CAP (CAMEL Application Part) version : Inbound		Date of planned support (if any)	
Roaming	Yes	No	
CAP version 1	<input checked="" 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 checked="" type="checkbox"/>	
CAP (CAMEL Application Part) version : Outbound			
Roaming			
CAP version 1	<input checked="" 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 checked="" type="checkbox"/>	

## MISCELLANEOUS INFORMATION 14

Number Information: 15

**IMSI** : Complies with GSM 03.30 and CCITT E.212

The IMSI number has a fixed length of 15 digits and is composed as follow

628 03 Y<sub>1</sub> Y<sub>2</sub>Y<sub>3</sub> X<sub>1</sub> X<sub>2</sub>X<sub>3</sub>X<sub>4</sub>X<sub>5</sub>X<sub>6</sub>X<sub>7</sub> where Y<sub>1</sub> Y<sub>2</sub>Y<sub>3</sub> = HLR identifier = 045 where X = 0 to 9

**IMSI Ranges** :

Postpaid -> 628 03 52 X<sub>1</sub> X<sub>2</sub> X<sub>3</sub>X<sub>4</sub>X<sub>5</sub>X<sub>6</sub>

Prepaid -> 628 03 5Y X<sub>1</sub> X<sub>2</sub> X<sub>3</sub> X<sub>4</sub>X<sub>5</sub>X<sub>6</sub> where Y = 0;1;3;4;5;6;7;8;9  
where X = 0 to 9

**MSISDN** : Complies with GSM 03.30 and CCITT E.164

The Existing MSISDN number has a fixed length of 11 digits and is composed as follow

CC	NDC	SN	
+241	07	X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>5</sub> X <sub>6</sub>	where X = 0 to 9
+241	04	X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>5</sub> X <sub>6</sub>	where X = 0 to 9

The New MSISDN number has a fixed length of 11 digits and is composed as follow s.Initially both numbers formats will need to be supported the NDC containing a zero as above and the zeroless NDC as below.

+241	77	X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>5</sub> X <sub>6</sub>	where X = 0 to 9
+241	74	X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>5</sub> X <sub>6</sub>	where X = 0 to 9
+241	74	X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>5</sub> X <sub>6</sub>	where X = 0 to 9

**MSRN** : Complies with GSM 03.30 and CCITT E.164

The MSRN number has a fixed length of 11 digits and is composed as follow

CC	NDC	SN	
+241	07 38 96	Z <sub>1</sub> Z <sub>2</sub>	Where Z <sub>1</sub> = 0 to 9 and Z <sub>2</sub> = 0 to 9
+241	07 38 97	Z <sub>1</sub> Z <sub>2</sub>	Where Z <sub>1</sub> = 0 to 9 and Z <sub>2</sub> = 0 to 9
+241	07 38 98	Z <sub>1</sub> Z <sub>2</sub>	Where Z <sub>1</sub> = 0 to 9 and Z <sub>2</sub> = 0 to 9
+241	07 38 99	Z <sub>1</sub> Z <sub>2</sub>	Where Z <sub>1</sub> = 0 to 9 and Z <sub>2</sub> = 0 to 9
+241	04 01 50	Z <sub>1</sub> Z <sub>2</sub>	Where Z <sub>1</sub> = 0 to 9 and Z <sub>2</sub> = 0 to 9
+241	04 01 51	Z <sub>1</sub> Z <sub>2</sub>	Where Z <sub>1</sub> = 0 to 9 and Z <sub>2</sub> = 0 to 9
+241	04 01 52	Z <sub>1</sub> Z <sub>2</sub>	Where Z <sub>1</sub> = 0 to 9 and Z <sub>2</sub> = 0 to 9
+241	04 01 53	Z <sub>1</sub> Z <sub>2</sub>	Where Z <sub>1</sub> = 0 to 9 and Z <sub>2</sub> = 0 to 9

New additional Roaming numbers will be with a fixed length of 11 digits.

CC	NDC	SN	
+241	77 38 96	Z <sub>1</sub> Z <sub>2</sub>	Where Z <sub>1</sub> = 0 to 9 and Z <sub>2</sub> = 0 to 9
+241	77 38 97	Z <sub>1</sub> Z <sub>2</sub>	Where Z <sub>1</sub> = 0 to 9 and Z <sub>2</sub> = 0 to 9
+241	77 38 98	Z <sub>1</sub> Z <sub>2</sub>	Where Z <sub>1</sub> = 0 to 9 and Z <sub>2</sub> = 0 to 9
+241	77 38 99	Z <sub>1</sub> Z <sub>2</sub>	Where Z <sub>1</sub> = 0 to 9 and Z <sub>2</sub> = 0 to 9

This field has the purpose of giving more detailed information. The content and structure is decided by each operator.

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In this field more detailed information about numbers relevant for roaming should be given.

+241 74 01 50 Z1Z2	Where	Z1 = 0 to 9 and Z2 = 0 to 9
+241 74 01 51 Z1Z2	Where	Z1 = 0 to 9 and Z2 = 0 to 9
+241 74 01 52 Z1Z2	Where	Z1 = 0 to 9 and Z2 = 0 to 9
+241 74 01 53 Z1Z2	Where	Z1 = 0 to 9 and Z2 = 0 to 9
+241 76 00 1 Z1Z2Z3	Where	Z1 = 0 to 9 ; Z2 = 0 to 9 and Z3=0 to 9
+241 76 00 2 Z1Z2Z3	Where	Z1 = 0 to 9 ; Z2 = 0 to 9 and Z3=0 to 9
+241 76 00 3 Z1Z2Z3	Where	Z1 = 0 to 9 ; Z2 = 0 to 9 and Z3=0 to 9
+241 76 00 4 Z1Z2Z3	Where	Z1 = 0 to 9 ; Z2 = 0 to 9 and Z3=0 to 9

Translation E.212 to E214

The MGT translation in roaming should be: 628 03 to 241 07

HLR and VLR Addresses

HLR1 Address: 241 07 38 95 13  
 HLR2 Address: 241 07 38 95 02  
 VLR1 Address: 241 07 38 95 10  
 VLR2 Address: 241 07 38 95 40  
 SMSC number: 241 07 91 01 01  
 GMSC Address: [24107389500] / [24107389510]  
 SGSN Address: 241 07 38 95 30  
 LTCVSGSN1: 241 07 38 95 06  
 PGTvSGSN01: 241 07 38 95 33

#### ROAMWARE INFORMATION

DIGITS (24107389560,24107389562, 24107389564,24107991006, 24107991008,  
 24107389567~,24107389568, 24107389561,24107389563,24107389565,24107991007,24107991009,  
 24107389569~,24107389570)  
 # Message on IRTMS GTs  
 DIGITS (24107389571,24107389573,24107389575)  
 # Message on NTR/BRG GTs  
 DIGITS (24107389576,24107389578)  
 # Message on TCAPserver GT  
 DIGITS (24107389582)  
 # Message on RMI GTs  
 DIGITS (2410738958011,2410738958022)  
 # Message on MAPserver GT  
 DIGITS (24107389580)  
 # Message on tSMSC GT  
 DIGITS (2410738956088)  
 #####OUTGOING#####  
 # Check for looping on GLR GTs  
 DIGITS (24107389560,24107389562, 24107389564, 24107991006, 24107991008,  
 24107389567~,24107389568, 24107389561,24107389563, 24107389565, 24107991007, 24107991009,  
 24107389569~,24107389570)  
 # Check for looping on IRTMS GTs  
 DIGITS (24107389571,24107389573, 24107389575)  
 # Check for looping on IRTMS GTs  
 DIGITS (24107389576,24107389578)  
 # Check for looping on TCAP GTs  
 DIGITS (24107389582)  
 # Check for looping on TCAP GTs  
 DIGITS (24107389582)  
 # Messages from SCAP on GLR GTs should be sent to GLR

DIGITS (24107389560,24107389562, 24107389564, 24107991006, 24107991008,  
24107389567~,24107389568, 24107389561,24107389563, 24107389565, 24107991007, 24107991009,  
24107389569~,24107389570)  
# Check for looping on MAP GTs  
DIGITS (24107389580)  
# Check for looping on TSMSC GTs  
DIGITS (2410738956088)  
# Check for looping on RMI GTs

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**Contact persons: 16**

**Roaming service Agreement**

**Ms Debora Nadine NGO-NSANG**

Airtel Gabon SA  
Rue Pecqueur  
Gabon Mining Logistic Centre ville  
BP 9259 Libreville GABON  
Tel: +241 74 00 00 / +241 77 74 00 00  
Fax: +241 174 52 86 /+241 1174 52 86  
Mob: + 241 04210141 /+ 241 74210141  
E-mail: [Roaminghelpdesk@ga.airtel.com](mailto:Roaminghelpdesk@ga.airtel.com); [debora.ngo@ga.airtel.com](mailto:debora.ngo@ga.airtel.com)

**IREG & TADIG services**

**Mr Marc-Aurèle MANGAL MA BULINGI**

Airtel Gabon SA  
Rue Pecqueur  
Gabon Mining Logistic Centre ville  
BP 9259 Libreville GABON  
Tel: +241 74 00 00 / +241 77 74 00 00  
Fax: +241 174 52 86 /+241 1174 52 86  
Mob: + 241 04194840 /+ 241 74194840  
E-mail: [Roaminghelpdesk@ga.airtel.com](mailto:Roaminghelpdesk@ga.airtel.com); [marc.bulingi@ga.airtel.com](mailto:marc.bulingi@ga.airtel.com)

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In this field at least the contact points for the following functions should be given:

- Roaming Service Agreements and Scheduling
- International Gateway SS7 Service Agreements and Scheduling

**International gateway SS7 technical details****Belgacom International Carrier Services****Rue Lebeau-4, 1000 Bruxelles****Tél : +32 2 547 51 51****Fax :****E-mail : [customer.care@bics.com](mailto:customer.care@bics.com)****Contact for Technical Details, SS7 connection :****Ms. Stevie BOYEMBE MEBALET**

Tel: +241 074 00 00 / +241 77 74 00 00

Fax: +241 074 52 86 / +241 1174 52 86

Mob: +241 04 82 06 80 / +241 74 82 06 80

E-mail: [stevie.boyembe@ga.airtel.com](mailto:stevie.boyembe@ga.airtel.com) ; [RoamingHelpdesk@ga.airtel.com](mailto:RoamingHelpdesk@ga.airtel.com)**Contact point (address) for distribution of updating of the roaming database:** <sup>17</sup>**International Roaming****Ms Débora NGO-NSANG**

Tel: +241 07 74 00 00 / +241 77 74 00 00

Fax: +241 174 52 86 / +241 1174 52 86

Mob: + 241 04210141 + 241 74210141

E-mail: [Roaminghelpdesk@ga.airtel.com](mailto:Roaminghelpdesk@ga.airtel.com); [debora.NGO@ga.airtel.com](mailto:debora.NGO@ga.airtel.com)

Effective date of change:

**14 April 2020**

<sup>17</sup> This field is not a part of the database and is only used by the MoU PS when distributing updating information.