



GSMA Roaming Database

IR.21 Data



RAEX IR.21 Information

Creation date:	2024-01-22
Creation time:	07:27:14+01:00
File type:	IR.21
Sender TADIG:	AZEAC
Publish Comment:	Added - VMSC1 GT range 994509167707 and VMSC2 GT range 994509177700
TADIG-GEN schema version:	2.4
RAEX-IR.21 schema version:	16.0



ORGANISATION INFORMATION

Section ID: 1 (Mandatory)

Organisation name:	Azercell Telecom LLC
Country initials:	AZE

TADIG summary

TADIG Code	MCC	MNC	VPMN / HPMN	Network type
AZEAC	400	01	VPMN, HPMN	Terrestrial
AZENT	994	60	VPMN, HPMN	Terrestrial



History of changes

TADIG Code	Section ID	Section	Date	Description
AZEAC	17	GRX/IPX Routing for Data Roaming	2024-01-22	#P range information updated.
AZEAC	13	Network Elements Information	2024-01-19	Added - VMSC1 GT range 994509167707 and VMSC2 GT range 994509177700
AZEAC	4	Routing Information	2024-01-18	Range information updated
AZEAC	16	Packet Data Service Information	2024-01-18	Updated _ WEB APN information
AZEAC	20	LTE Roaming Information	2024-01-18	Updated LTe information
AZEAC	17	GRX/IPX Routing for Data Roaming	2023-02-02	Added new user plane IP addresses for vEPG3 and vEPG4 (5.191.14.0/27 and 5.191.14.32/27)
AZEAC	13	Network Elements Information	2022-04-19	Added New SMSC range
AZEAC	13	Network Elements Information	2022-04-18	Added new SGSN / GGSN nodes
AZEAC	13	Network Elements Information	2022-03-10	Node MSCSV5 deleted
AZEAC	21	Contact Information	2022-03-10	Contact Information updated
AZENT	13	Network Elements Information	2021-07-19	Added new MSC and HSS GT address
AZEAC	17	GRX/IPX Routing for Data Roaming	2021-07-05	IP address range - removed and added
AZEAC	13	Network Elements Information	2021-03-17	Added new MSC/VLR, SGSN, SMSC
AZEAC	13	Network Elements Information	2020-11-30	Added new SGSN / vSGSN7 node
AZEAC	17	GRX/IPX Routing for Data Roaming	2020-10-06	Added new GRX provider DTAG (T-systems)
AZEAC	9	Test Numbers Information	2020-08-18	AAC test number changed
AZEAC	17	GRX/IPX Routing for Data Roaming	2020-06-17	IP Address Range updated - 5.191.11.0/24
AZEAC	5	International SCCP Gateway	2020-05-13	New DPCs for T-systems added and Old T-systems DPCs removed
AZEAC	4	Routing Information	2020-05-01	New NDC range added 994 99 1000000 && 9999999
AZEAC	4	Routing Information	2020-05-01	Added new NDC range for MNP
AZEAC	8	Subscriber Identity Authentication	2020-05-01	A5 Cipher Algorithm version in used
AZEAC	13	Network Elements Information	2020-05-01	MVPN nodes deleted
AZEAC	4	Routing Information	2020-02-27	NDC range updated
AZEAC	21	Contact Information	2020-02-27	Contacts updated
AZENT	4	Routing Information	2020-02-27	New NDC range added - 994 60 6000000 - 7999999
AZEAC	13	Network Elements Information	2019-09-27	Added new SMSSC range
AZEAC	4	Routing Information	2019-06-25	New NDC range 99410 XXXXXXX & 994501 XXXXXX & 994511 XXXXXX , MSISDN range added
AZENT	4	Routing Information	2019-03-18	Added new MSISDN range for AZENT
AZENT	4	Routing Information	2018-10-16	Global title number ranges updated
AZENT	5	International SCCP Gateway	2018-10-11	DPC information updated
AZEAC	13	Network Elements Information	2018-10-09	Network elements updated
AZEAC	16	Packet Data Service Information	2018-10-09	Update APN type
AZEAC	20	LTE Roaming Information	2018-10-09	Agreement information for LTE updated
AZEAC	20	LTE Roaming Information	2018-10-09	EPC realms of roaming interconnection updated
AZEAC	20	LTE Roaming Information	2018-10-09	Interface information for roaming interconnection updated
AZEAC	20	LTE Roaming Information	2018-10-09	Update MCC / MNC (400/001) for EPC realms of roaming interconnection
AZEAC	20	LTE Roaming Information	2018-10-09	IPX interconnection information for AZEAC added
AZENT	4	Routing Information	2018-10-09	Update MS#SDN number range for AZENT (New number range 7000000-7200000)
AZENT	8	Subscriber Identity Authentication	2018-10-09	Subscriber identity authentication information for AZENT updated
AZEAC	13	Network Elements Information	2018-04-23	Deleted Network elements
AZENT	4	Routing Information	2018-04-23	Added new MSISDN range 4000000-4999999
AZEAC	13	Network Elements Information	2018-02-19	added new HLR and HSS



TADIG Code	Section ID	Section	Date	Description
AZEAC	13	Network Elements Information	2018-02-19	new HLR common GT address
AZEAC	13	Network Elements Information	2018-01-10	Stopped MMS service
AZEAC	21	Contact Information	2018-01-05	Contacts update
AZENT	4	Routing Information	2018-01-05	MSISDN number ranges updated for AZENT
AZENT	21	Contact Information	2018-01-05	Contacts updated
AZEAC	13	Network Elements Information	2017-10-30	Added new nodes (MVPNs)
AZEAC	4	Routing Information	2017-10-19	Added new MSISDN 8200000-8999999 / 8000000-8099999, MSRN range changed
AZEAC	9	Test Numbers Information	2017-10-19	Changed test number
AZEAC	13	Network Elements Information	2017-10-19	Deleted MSC/VLR - MSC!13 - 994 50 9221100 /9221100
AZEAC	16	Packet Data Service Information	2017-10-19	APN WAP list and APN MMS list deleted
AZEAC	16	Packet Data Service Information	2017-10-19	update
AZEAC	16	Packet Data Service Information	2017-10-19	Update
AZEAC	21	Contact Information	2017-03-16	office hours
AZEAC	13	Network Elements Information	2017-03-15	new SMSC 9103343
AZEAC	21	Contact Information	2017-03-15	troubleshooting contact
AZEAC	17	GRX/IPX Routing for Data Roaming	2016-12-12	New IP Address Range added 5.191.11.0/25
AZEAC	13	Network Elements Information	2016-11-01	change GGSN name to EPG
AZENT	4	Routing Information	2016-11-01	Added new TADIG CODE AZENT
AZEAC	9	Test Numbers Information	2016-10-04	AAC test number changed
AZEAC	20	LTE Roaming Information	2016-08-12	Domain name from mnc changed to epc
AZEAC	20	LTE Roaming Information	2016-08-12	LTE information changed
AZEAC	20	LTE Roaming Information	2016-08-12	LTE roaming information changed
AZEAC	20	LTE Roaming Information	2016-08-12	LTE Roaming information changed
AZEAC	13	Network Elements Information	2016-07-22	MSCSV removed
AZEAC	4	Routing Information	2016-04-01	Made some corrections
AZEAC	4	Routing Information	2016-03-31	New MSISDN range 9945084XXXXX added
AZEAC	9	Test Numbers Information	2016-03-31	New test number added
AZEAC	9	Test Numbers Information	2016-03-31	Test number removed
AZEAC	13	Network Elements Information	2015-11-10	New GT added
AZEAC	13	Network Elements Information	2015-07-02	added new node
AZEAC	13	Network Elements Information	2015-07-02	added node
AZEAC	13	Network Elements Information	2015-07-02	network info added
AZEAC	13	Network Elements Information	2015-07-02	New network noce GT added
AZEAC	13	Network Elements Information	2015-07-02	New node GT added
AZEAC	13	Network Elements Information	2015-05-19	New SMS SC GT = 994509103320 added
AZEAC	13	Network Elements Information	2015-03-31	New Inter PLMN IP backbones and EPG nodes added
AZEAC	17	GRX/IPX Routing for Data Roaming	2015-03-31	New Inter PLMN IP address added.
AZEAC	4	Routing Information	2014-09-12	New MSISDN series added
AZEAC	13	Network Elements Information	2014-08-14	New SMS SC address 994509103307 added.
AZEAC	5	International SCCP Gateway	2014-08-01	Connection with SCCP provider BICS (Belgacom) will be terminated from 1st September. TSIC(TeliaSonera) our primary SCCP carrier. T-com used for backup.
AZEAC	5	International SCCP Gateway	2014-08-01	Connection with SCCP provider BICS (Belgacom) will be terminated from 1st September. TSIC(TeliaSonera) our primary SCCP carrier. T-com used for backup.
AZEAC	9	Test Numbers Information	2014-04-25	AAC changed
AZEAC	4	Routing Information	2014-01-23	New MSISDN range added
AZEAC	9	Test Numbers Information	2014-01-23	New test number



TADIG Code	Section ID	Section	Date	Description
AZEAC	16	Packet Data Service Information	2014-01-23	New RAEX
AZEAC	8	Subscriber Identity Authentication	2012-07-23	New RAEX
AZEAC	10	MAP	2012-07-23	New RAEX
AZEAC	14	USSD Information	2012-07-23	New RAEX
AZEAC	15	CAMEL Information	2012-07-23	New RAEX
AZEAC	17	GRX/IPX Routing for Data Roaming	2012-07-23	New RAEX



NETWORK

Section ID: 2 (Mandatory, Repeating)

Section is applicable for the following TADIG code: AZEAC

TADIG code:	AZEAC
Network name:	Azercell

Technology:	Frequency list:	Coverage:
2G-GSM	GSM 900, DCS 1800	
3G-UTRA/FDD	1 - IMT 2.1 GHz	
3G-UTRA/TDD	Unsupported	
4G-E-UTRAN	3 - DCS 1800	
4G-E-UTRAN-MIoT-LTE-M	Unsupported	
4G-E-UTRAN-MIoT-NB-IoT	Unsupported	
MIoT-NB-IoT deployment mode	Unsupported	
5G NR	Unsupported	

Service status and planned closure			
	Support	Planned partial closure	Planned full closure
2G	Supported		
3G	Supported		
4G	Supported		
MIoT-LTE-M	Unsupported		
MIoT-NB-IOT	Unsupported		
VoLTE	Unsupported		
5G-NG	Unsupported		



ROUTING INFORMATION

Section ID: 4 (Mandatory)

Section is applicable for the following TADIG code: AZEAC

Effective date of change: 2024-01-18

CCITT E.164 Number series	Country Code (CC)	National Destination Code (NDC)	SN Range Start	SN Range Stop	Primary International DPC	Secondary International DPC	Network owner	Location
MSISDN number ranges (s)								
	994	50	1000000	7999999			MNO	
	994	50	8200000	8999999			MNO	
	994	50	9600000	9999999			MNO	
	994	51	1000000	9999999			MNO	
	994	50	8000000	8099999			MNO	
	994	10	0000000	9999999			MNO	

Network Nodes Global Title Number Range(s)								
	994	50	9000000	9599999			MNO	

MSRN Number Range(s)								
	994	50	8100000	8199999				

E. 212 Number series	Mobile Country Code (MCC)	Mobile Network Code (MNC)
	400	01

E. 214 Mobile Global Title (MGT)	Country Code of MGT (CC)	Network Code of MGT (NC)
	994	50

Does Number Portability apply ?	Yes
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Is 15 Digit MSISDN Supported ?	Yes
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USIM SIM Header	8999401
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E. 164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	994	55	1000000	9999999
	994	70	0000000	9999999
	994	77	0000000	9999999

History of changes

Date	Description
2024-01-18	Range information updated
2020-05-01	New NDC range added 994 99 1000000 && 9999999
2020-05-01	Added new NDC range for MNP
2020-02-27	NDC range updated
2019-06-25	New NDC range 99410 XXXXXXX & 994501 XXXXXXX & 994511 XXXXXXX , MSISDN range added
2017-10-19	Added new MSISDN 8200000-8999999 / 8000000-8099999, MSRN range changed
2016-04-01	Made some corrections
2016-03-31	New MSISDN range 9945084XXXXXX added
2014-09-12	New MSISDN series added
2014-01-23	New MSISDN range added



INTERNATIONAL SCCP GATEWAY

Section ID: 5 (Optional)

Section is applicable for the following TADIG codes: AZEAC

Effective date of change: 2020-05-13

International SCCP carrier list	
SCCP carrier name:	TeliaSonera International Carrier
Connectivity information:	Primary
DPC info:	
Signature:	S-S-UX-STX
Type:	Stand-alone STP
International DPC:	2.81.1
Comments:	load-sharing
DPC info:	
Signature:	S-S-UX2-STX
Type:	Stand-alone STP
International DPC:	2.81.2
Comments:	load-sharing
SCCP carrier name:	Deutsche Telekom AG International SCCP Gateway
Connectivity information:	Backup
DPC info:	
Signature:	FFM-STPA
Type:	SCCP/STP
International DPC:	2.124.3
Comments:	load sharing
DPC info:	
Signature:	FFM-STPC
Type:	SCCP/STP
International DPC:	2.124.4
Comments:	load sharing

History of changes

Date	Description
2020-05-13	New DPCs for T-systems added and Old T-systems DPCs removed
2014-08-01	Connection with SCCP provider BICS (Belgacom) will be terminated from 1st September. TSIC(TeliaSonera) our primary SCCP carrier. T-com used for backup.
2014-08-01	Connection with SCCP provider BICS (Belgacom) will be terminated from 1st September. TSIC(TeliaSonera) our primary SCCP carrier. T-com used for backup.

**SUBSCRIBER IDENTITY AUTHENTICATION**

Section ID: 8 (Optional)

Section is applicable for the following TADIG codes: AZEAC

Effective date of change: 2020-05-01

Authentications	Performed (Yes / No)
Authentication performed for Roaming subscribers at the commencement of GSM service	Yes
Authentication performed for roaming subscribers in case of GPRS	Yes
A5 Cipher Algorithm version in use	Yes

History of changes

Date	Description
2020-05-01	A5 Cipher Algorithm version in used
2012-07-23	New RAEX

**Test Numbers Information**

Section ID: 9 (Optional)

Section is applicable for the following TADIG codes: AZEAC

Effective date of change: 2020-08-18

Number Type	Test Number	Location	Comments
AAC	+994508149999	Baku	

History of changes

Date	Description
2020-08-18	AAC test number changed
2017-10-19	Changed test number
2016-10-04	AAC test number changed
2016-03-31	New test number added
2016-03-31	Test number removed
2014-04-25	AAC changed
2014-01-23	New test number

**MOBILE APPLICATION PART (MAP)**

Section ID: 10 (Optional)

Section is applicable for the following TADIG codes: AZEAC

Effective date of change: 2012-07-23

Interworking specifically for roaming				
Application context name	Current version in			Comments
	Inbound roaming		Outbound roaming	
	MSC/VLR	SGSN	Outbound roaming	
networkLocUp	MAPv3	N/A	MAPv3	
roamingNumberEnquiry	MAPv3	N/A	MAPv3	
InfoRetrieval	MAPv3	MAPv3	MAPv3	
subscribeDataMngt	MAPv3	MAPv3	MAPv3	
networkFunctionalSs	MAPv3	N/A	MAPv3	
mwdMngt	MAPv3	MAPv3	MAPv3	
shortMsgMT-Relay (called shortMsgRelay in v1)	MAPv3	MAPv3	MAPv3	
shortMsgMO-Relay (called shortMsgRelay in v1)	MAPv3	MAPv3	MAPv3	
ss-InvocationNotification	MAPv3	N/A	MAPv3	
subscriberInfoEnquiry	MAPv3	MAPv3	MAPv3	
gprsLocationUpdate	N/A	MAPv3	MAPv3	
locationCancellation	MAPv3	MAPv3	MAPv3	
msPurging	MAPv3	MAPv3	MAPv3	
reset	MAPv3	MAPv3	MAPv3	
networksUnstructuredSs	MAPv3	N/A	MAPv3	
reporting	MAPv3	N/A	MAPv3	
callCompletion	MAPv3	N/A	MAPv3	
istAlerting	MAPv3	N/A	MAPv3	
service Termination	MAPv3	N/A	MAPv3	
locationSvcGateway	N/A	N/A	MAPv3	
mm-EventReporting	MAPv3	N/A	MAPv3	
authenticationFailureReport	MAPv3	MAPv3	MAPv3	
imsiRetrieval	MAPv3	N/A	MAPv3	
gprsNotifyContext	N/A	MAPv3	MAPv3	
gprsLocationInfoRetrieval	N/A	MAPv3	MAPv3	
failureReport	N/A	MAPv3	MAPv3	
secureTransportHandling	MAPv3	MAPv3	MAPv3	

History of changes

Date	Description
2012-07-23	New RAEX



NETWORK ELEMENTS INFORMATION

Section ID: 13 (Optional)

Section is applicable for the following TADIG codes: AZEAC

Effective date of change: 2024-01-19

Node type	GT address / Address range	IP address / Address range	IPv6 address / Address range	Vendor info	UTC offset
MSC/VLR-2G+3G	994 50 9408011 / 9408011			Ericsson	+04:00
MSC/VLR-2G+3G	994 50 9408013 / 9408013			Ericsson	+04:00
MSC/VLR-2G+3G	994 50 9408017 / 9408017			Ericsson	+04:00
MSC/VLR-2G+3G	994 50 9408019 / 9408019				+04:00
MSC/VLR-2G+3G	994 50 9408041 / 9408041			Ericsson	+04:00
MSC/VLR-2G+3G	994 50 9408300 / 9408300				+04:00
SMSC	994 50 9103300 / 9103300				+04:00
SMSC	994 50 9103301 / 9103301				+04:00
SMSC	994 50 9103305 / 9103305				+04:00
SMSC	994 50 9103317 / 9103317				+04:00
SMSC	994 50 9103307 / 9103307				+04:00
SMSC	994 50 9103311 / 9103311				+04:00
SMSC	994 50 9103312 / 9103312				+04:00
SMSC	994 50 9103320 / 9103320				+04:00
SMSC	994 50 9103321 / 9103321				+04:00
SMSC	994 50 9103322 / 9103322				+04:00
SMSC	994 50 9103341 / 9103341				+04:00
SMSC	994 50 9103342 / 9103342				+04:00
SMSC	994 50 9103343 / 9103343				+04:00
HLR	994 50 9144501 / 9144501				+04:00
HLR	994 50 9144502 / 9144502				+04:00
HSS	994 50 9143300 / 9143300			Ericsson	+04:00
HSS	994 50 9143301 / 9143301			Ericsson	+04:00
HLR	994 50 9144500 / 9144500			Ericsson	+04:00
SMSC	994 50 9103346 / 9103346				+04:00
SMSC	994 50 9103332 / 9103332				+04:00
SMSC	994 50 9145009 / 9145009				+04:00
PGW		217.168.178.121		Ericsson	+04:00
PGW		217.168.178.41		Ericsson	+04:00
SGSN	994 50 9138802 / 9138802	5.191.10.104		Ericsson	+04:00
SGSN	994 50 9138803 / 9138803	5.191.10.106		Ericsson	+04:00
SGSN	994 50 9138804 / 9138804	5.191.10.100		Ericsson	+04:00
SGSN	994 50 9138805 / 9138805	5.191.10.102		Ericsson	+00:00
SGSN	994 50 9138801 / 9138801	217.168.178.105		Ericsson	+04:00
SGSN	994 50 9148801 / 9148801	217.168.178.107		Ericsson	+04:00
SGSN	994 50 9148800 / 9148800	217.168.178.240		Ericsson	+04:00
SMSC	994 50 9145007 / 9145007				+04:00
MSC	994 50 9177700 / 9177700			Ericsson	+04:00
MSC	994 50 9167707 / 9167707			Ericsson	+04:00
PGW		5.191.10.113		Ericsson	+04:00
PGW		5.191.10.97		Ericsson	+04:00

History of changes

Date	Description
2024-01-19	Added - VMSC1 GT range 994509167707 and VMSC2 GT range 994509177700
2022-04-19	Added New SMSC range
2022-04-18	Added new SGSN / GGSN nodes
2022-03-10	Node MSCSV5 deleted
2021-03-17	Added new MSC/VLR, SGSN, SMSC
2020-11-30	Added new SGSN / vSGSN7 node
2020-05-01	MVPN nodes deleted
2019-09-27	Added new SMSSC range
2018-10-09	Network elements updated
2018-04-23	Deleted Network elements



Date	Description
2018-02-19	added new HLR and HSS
2018-02-19	new HLR common GT address
2018-01-10	Stopped MMS service
2017-10-30	Added new nodes (MVPNs)
2017-10-19	Deleted MSC/VLR - MSC!13 - 994 50 9221100 /9221100
2017-03-15	new SMSC 9103343
2016-11-01	change GGSN name to EPG
2016-07-22	MSCSV removed
2015-11-10	New GT added
2015-07-02	added new node
2015-07-02	added node
2015-07-02	network info added
2015-07-02	New network noce GT added
2015-07-02	New node GT added
2015-05-19	New SMS SC GT = 994509103320 added
2015-03-31	New Inter PLMN IP backbones and EPG nodes added
2014-08-14	New SMS SC address 994509103307 added.



USSD Information

Section ID: 14 (Optional)
Section is applicable for the following TADIG codes: AZEAC
Effective date of change: 2012-07-23

USSD capability available	Yes
Supported phase	Phase 2

History of changes

Date	Description
2012-07-23	New RAEX

**CAMEL INFO**

Section ID: 15 (Conditional)

Section is applicable for the following TADIG codes: AZEAC

Effective date of change: 2012-07-23

gsmSSF/MSC

CAP Version supported (Inbound)	CAP Version supported (Outbound)
CAPv1 CAPv2 CAPv3	CAPv2

CAPv4 Partial Implementations

CAMEL Phase 4 CSIs:	Supported (Yes / No)	Planned Date
MT-SMS-CSI		
MG-CSI		
PSI Enhancements		

History of changes

Date	Description
2012-07-23	New RAEX



Packet Data Services Information

Section ID: 16 (Conditional)

Section is applicable for the following TADIG codes: AZEAC

Effective date of change: 2024-01-18

List of APN Operator Identifiers

APN Operator Identifier	Description	Example
mnc001.mcc400.gprs		

List of APN's available for testing and troubleshooting

APN WEB List

APN Credential			APN Type	ISP DNS IP address	ISP DNS IP address	Required PDU Session Type	Required PDN Type	Required PDP Type
APN	Username	Password	(primary)		(secondary)			
internet	-	-	H-APN	217.168.178.33	217.168.178.34	IPv4	IPv4	IPv4

APN WAP List

APN Credential			APN Type	WAP Gateway	WAP Server URL	WAP Port ver 1	WAP Port ver 2
APN	Username	Password		IP address			

APN MMS List

APN	APN Credential		WAP Gateway IP address for MMS	Messaging Server URL
	Username	Password		

IPv6 Connectivity Information

	IPv6 PDP Supported	IPv4v6 PDP Supported
SGSN Support	No	No
GGSN Support	No	No

VPMN Support of Local Breakout

PDU Session Type / PDN Type / PDP Type

IPv4	
IPv6	
IPv4v6	
Ethernet	
Unstructured	
Non-IP	
PPP	

List of 2G/3G QOS profiles

Profile name:	One
Traffic class:	Interactive
ARP:	3
Evolved ARP support:	Yes
Evolved ARP priority level:	2
Evolved APR preemption vulnerability list:	
Evolved APR preemption capability list:	

GTP Version

SGSN	GTPv1
GGSN	GTPv1

List of Data Service supported

2G Data Services	Multislot Class Capability
GPRS	
EDGE	

3G Data Services	UE 3G Category
HSDPA	



Multiple PDP Context Support	
Number of Primary PDP Context	10

History of changes

Date	Description
2024-01-18	Updated _ WEB APN information
2018-10-09	Update APN type
2017-10-19	APN WAP list and APN MMS list deleted
2017-10-19	update
2017-10-19	Update
2014-01-23	New RAEX



GRX/IPX Routing for Data Roaming

Section ID: 17 (Conditional)

Section is applicable for the following TADIG codes: AZEAC

Effective date of change: 2024-01-22

List of All IP address ranges used by PMN for connection to inter - PMN IP backbone	IP Address Range	Network owner
	217.168.178.0/24	MNO
	5.191.10.0/24	MNO
	5.191.11.11/32	MNO
	5.191.11.21/32	MNO
	5.191.11.32/27	MNO
	5.191.11.64/27	MNO
	5.191.11.0/29	MNO
	5.191.39.0/30	MNO
	5.191.39.4/30	MNO
	5.191.39.8/30	MNO
	5.191.39.12/30	MNO
	5.191.14.0/27	MNO
	5.191.14.32/27	MNO

List of Autonomous System Number (ASN):	ASN	Network owner
	64812	MNO

List of PMN authoritative DNS server IP addresses and names				
IP address	IPv6 address	DNS Name	Priority	Network owner
217.168.178.33		edns1.mnc001.mcc400.gprs	1	MNO
217.168.178.34		edns2.mnc001.mcc400.gprs	1	MNO

List of GRX/IPX Providers		
Provider name	ASN/ASN4B	Network owner
Arelion	8837	MNO
DTAG (T-systems)	20936	MNO

History of changes

Date	Description
2024-01-22	#P range information updated.
2023-02-02	Added new user plane IP addresses for vEPG3 and vEPG4 (5.191.14.0/27 and 5.191.14.32/27)
2021-07-05	IP address range - removed and added
2020-10-06	Added new GRX provider DTAG (T-systems)
2020-06-17	IP Address Range updated - 5.191.11.0/24
2016-12-12	New IP Address Range added 5.191.11.0/25
2015-03-31	New Inter PLMN IP address added.
2012-07-23	New RAEX

**LTE Roaming Information**

Section ID: 20 (Optional)

Section is applicable for the following TADIG codes: AZEAC

Effective date of change: 2024-01-18

IPX Provider Name	IPX DA Realm Used	Diameter Architecture	Date of Launch	Date of Closure
TeliaSonera	yes			

Primary IP address of DA	Secondary IP address of DA
--------------------------	----------------------------

Roaming Interconnection

EPC Realms For Roaming
epc.mnc001.mcc400.3gppnetwork.org

FQDN Diameter Edge Agent

FQDN	Primary IP Address DEA FQDN	Secondary IP Address DEA FQDN
dsc01.epc.mnc001.mcc400.3gppnetwork.org	5.191.11.1	5.191.11.2
dsc02.epc.mnc001.mcc400.3gppnetwork.org	5.191.11.3	5.191.11.4

S6a Supported without IWF	S6a MAP IWF supported to HSS	S6a MAP IWF supported to MME
true	true	true

S6d used for legacy SGSN	S9 used for PCC
true	false

SMS ITW

SMS delivery over IP	SMS over NAS (SGs) via SS7	SMS over NAS (SGd) via Diameter
false	true	false

Voice ITW

CSFB

Roaming CS Fallback

Not Supported

		HPMN	VPMN
LTE Roaming Agreement Only	LTE Only Roaming Supported	Yes	Yes
2G/3G Roaming Agreement Only	Scenario 2 Supported	Yes	No
	Scenario 3 Supported	Yes	No
2G/3G/LTE Roaming Agreement	Scenario 1 Supported	No	No
	Scenario 2 Supported	No	No
	Scenario 3 Supported	No	No
	Scenario 4 Supported	No	No
	Scenario 5 Supported	No	No
	Scenario 6 Supported	No	No

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

Diameter end-to-end security support

Supported DESS phase	DESS function delegated to IPX provider
No support	

5G early drop support

	As HPMN	AS VPMN
5G NSA (non-standalone access) supported	No	No
DNS PGW NAPTR includes +nc-nr	No	No
NSA options for EN-DC		
ARD set to support of NR as secondary RAT	No	
Restrict NR access if HSS is not set to support NR as secondary RAT		No

History of changes



Date	Description
2024-01-18	Updated LTe information
2018-10-09	Agreement information for LTE updated
2018-10-09	EPC realms of roaming interconnection updated
2018-10-09	Interface information for roaming interconnection updated
2018-10-09	Update MCC / MNC (400/001) for EPC realms of roaming interconnection
2018-10-09	IPX interconnection information for AZEAC added
2016-08-12	Domain name from mnc changed to epc
2016-08-12	LTE information changed
2016-08-12	LTE roaming information changed
2016-08-12	LTE Roaming information changed

**CONTACT INFORMATION**

Section ID: 21 (Optional, Repeating)

Section is applicable for the following TADIG codes: AZEAC

Effective date of change: 2022-03-10

List of Roaming Troubleshooting Contact Information**Roaming Troubleshooting Contact Information**

Location		Baku	
Office Time Zone in UTC		+04:00	
Office Hours	Week Day (s)	Start Time	End Time
	Mon Tue Wed Thu Fri	09:00:00	18:00:00

Main Contact for Troubleshooting (Office Hours)

Team Name	Tel.	Mobile	Fax	Email
Roaming Group				tdroaming@azercell.com

Escalation Contact for Troubleshooting

Person Name	Tel.	Mobile	Fax	Email
TD Roaming Roaming team	+994124967007			tdroaming@azercell.com

24 x 7 Troubleshooting (contact out of Office Hours)

Team Name	Tel.	Mobile	Fax	Email
Roaming Group				tdroaming@azercell.com

Roaming Troubleshooting Ticketing System Information

Ticket system web address

Ticket system email address

Additional Contacts**SCCP Inquires and ordering of SS7 Routes**

Person Name	Tel.	Mobile	Fax
Mr. Sanan Yusifov	+994124967007 1646	+994502100051	+994124301977
JobTitle	Email		
Network TechnologyCore Network Section Head	sanan@azercell.com		
Person Name	Tel.	Mobile	Fax
TD Roaming Roaming team	+994124967007		
JobTitle	Email		
Roaming team	tdroaming@azercell.com		

Roaming Coordinator

Person Name	Tel.	Mobile	Fax
Mr. Sanan Yusifov	+994124967007 1646	+994502100051	+994124301977
JobTitle	Email		
Network TechnologyCore Network Section Head	sanan@azercell.com		
Person Name	Tel.	Mobile	Fax
TD Roaming Roaming team	+994124967007		
JobTitle	Email		
Roaming team	tdroaming@azercell.com		

IREG Tests

Person Name	Tel.	Mobile	Fax
Ms. Sevinc Jabrailova	+994124967007 1594	+994502210076	+994124301977
JobTitle	Email		
Roaming team senior engineer	aksevinc@azercell.com		
Person Name	Tel.	Mobile	Fax
SD/Roaming Roaming team	+994124967007		
JobTitle	Email		
	sdroaming@azercell.com		
Person Name	Tel.	Mobile	Fax
Mr. Yusif Hajiyev	+994124967007 1626	+994502210034	+994124301977
JobTitle	Email		
Roaming team / Expert	teyusif@azercell.com		
Person Name	Tel.	Mobile	Fax
Mr. Rufan Abbasov	+994124967007 2351	+994502210266	+994124301977
JobTitle	Email		
NT CS Core Roaming Team Senior Engineer	terufan@azercell.com		

TADIG Tests



Person Name	Tel.	Mobile	Fax
Mr Ilham Guliyev	+994124967007 1659	+994502210019	+994124301933
JobTitle	Email		
IT/Service Level Monitoring and Management/ Unit Head	itilham@azercell.com		
Person Name	Tel.	Mobile	Fax
TD Roaming Roaming team	+994124967007		
JobTitle	Email		
Roaming team	tdroaming@azercell.com		
Person Name	Tel.	Mobile	Fax
Mr. Bextiyar Xanbutayev	+994124967007 1674	+994502310665	+994124301933
JobTitle	Email		
IT/BSS Platforms/ Engineer	BXanbutayev@azercell.com		

CAMEL Tests

Person Name	Tel.	Mobile	Fax
Ms. Sevinc Jabrailova	+994124967007 1594	+994502210076	+994124301977
JobTitle	Email		
Roaming team senior engineer	aksevinc@azercell.com		
Person Name	Tel.	Mobile	Fax
SD/Roaming Roaming team	+994124967007		
JobTitle	Email		
	sdroaming@azercell.com		
Person Name	Tel.	Mobile	Fax
Mr. Yusif Hajiyev	+994124967007 1626	+994502210034	+994124301977
JobTitle	Email		
Roaming team / Expert	teyusif@azercell.com		

GPRS Tests

Person Name	Tel.	Mobile	Fax
Ms. Sevinc Jabrailova	+994124967007 1594	+994502210076	+994124301977
JobTitle	Email		
Roaming team senior engineer	aksevinc@azercell.com		
Person Name	Tel.	Mobile	Fax
SD/Roaming Roaming team	+994124967007		
JobTitle	Email		
	sdroaming@azercell.com		
Person Name	Tel.	Mobile	Fax
Mr. Yusif Hajiyev	+994124967007 1626	+994502210034	+994124301977
JobTitle	Email		
Roaming team / Expert	teyusif@azercell.com		

Contact Person(s) in PMN for GRX connectivity

Person Name	Tel.	Mobile	Fax
Mr. Sanan Yusifov	+994124967007 1646	+994502100051	+994124301977
JobTitle	Email		
Network TechnologyCore Network Section Head	sanan@azercell.com		
Person Name	Tel.	Mobile	Fax
TD Roaming Roaming team	+994124967007		
JobTitle	Email		
Roaming team	tdroaming@azercell.com		

Contact Person(s) in PMN for GRX Provider

Person Name	Tel.	Mobile	Fax
Mr. Sanan Yusifov	+994124967007 1646	+994502100051	+994124301977
JobTitle	Email		
Network TechnologyCore Network Section Head	sanan@azercell.com		
Person Name	Tel.	Mobile	Fax
TD Roaming Roaming team	+994124967007		
JobTitle	Email		
Roaming team	tdroaming@azercell.com		

Contact Person(s) for WLAN

Person Name	Tel.	Mobile	Fax
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TD Roaming Roaming team	+994124967007		
JobTitle		Email	
Roaming team		tdroaming@azercell.com	

Other contact(s)

	Person Name	Tel.	Mobile	Fax
	TD Roaming Roaming team	+994124967007		
	JobTitle		Email	
	Roaming team		tdroaming@azercell.com	

IR21 Distribution Email Address	Email
	sdroaming@azercell.com tdroaming@azercell.com

History of changes

Date	Description
2022-03-10	Contact Information updated
2020-02-27	Contacts updated
2018-01-05	Contacts update
2017-03-16	office hours
2017-03-15	troubleshooting contact

**SECTIONS NOT IN USE**

TADIG Code	Section ID	Section Name
AZEAC	6	Domestic SCCP Gateway
AZEAC	7	SCCP Protocol available at PMN for connection for International SS7 Roaming
AZEAC	12	MAP Inter Operator SMS Enhancement
AZEAC	18	MMS Interworking Information
AZEAC	19	WLAN Information
AZEAC	22	Hosted Networks
AZEAC	23	M2M Roaming Information
AZEAC	26	VoLTE Roaming Information Section
AZEAC	27	LPWA Roaming Information Section

**NETWORK**

Section ID: 2 (Mandatory, Repeating)

Section is applicable for the following TADIG code: AZENT

TADIG code:	AZENT
Network name:	Azercell

Technology:	Frequency list:	Coverage:
2G-GSM	GSM 900, DCS 1800	
3G-UTRA/FDD	Unsupported	
3G-UTRA/TDD	Unsupported	
4G-E-UTRAN	Unsupported	
4G-E-UTRAN-MIoT-LTE-M	Unsupported	
4G-E-UTRAN-MIoT-NB-IoT	Unsupported	
MIoT-NB-IoT deployment mode	Unsupported	
5G NR	Unsupported	

Service status and planned closure			
	Support	Planned partial closure	Planned full closure
2G	Unsupported		
3G	Unsupported		
4G	Unsupported		
MIoT-LTE-M	Unsupported		
MIoT-NB-IOT	Unsupported		
VoLTE	Unsupported		
5G-NG	Unsupported		

**ROUTING INFORMATION**

Section ID: 4 (Mandatory)

Section is applicable for the following TADIG code: AZENT

Effective date of change: 2020-02-27

CCITT E.164 Number series	Country Code (CC)	National Destination Code (NDC)	SN Range Start	SN Range Stop	Primary International DPC	Secondary International DPC	Network owner	Location
MSISDN number ranges (s)								
	994	60	2000000	7999999			MNO	
Network Nodes Global Title Number Range(s)								
	994	60	0000000	0039999			MNO	
	994	60	0509000	0509000			MNO	
	994	60	0100000	0199999			MNO	
MSRN Number Range(s)								
	994	60	0040000	0049999				

E. 212 Number series	Mobile Country Code (MCC)	Mobile Network Code (MNC)
	400	06
E. 214 Mobile Global Title (MGT)	Country Code of MGT (CC)	Network Code of MGT (NC)
	994	60
Does Number Portability apply ?	No	
Is 15 Digit MSISDN Supported ?	No	
USIM SIM Header	8999406	

History of changes

Date	Description
2020-02-27	New NDC range added - 994 60 6000000 - 7999999
2019-03-18	Added new MSISDN range for AZENT
2018-10-16	Global title number ranges updated
2018-10-09	Update MS#SDN number range for AZENT (New number range 7000000-7200000)
2018-04-23	Added new MSISDN range 4000000-4999999
2018-01-05	MSISDN number ranges updated for AZENT
2016-11-01	Added new TADIG CODE AZENT



INTERNATIONAL SCCP GATEWAY

Section ID: 5 (Optional)

Section is applicable for the following TADIG codes: AZENT

Effective date of change: 2018-10-11

International SCCP carrier list	
SCCP carrier name:	Deutsche Telekom AG International SCCP Gateway
Connectivity information:	Primary
DPC info:	
Signature:	FFMSTB
Type:	SCCP/STP
International DPC:	2.128.4
Comments:	Load sharing
DPC info:	
Signature:	DSSDSTB
Type:	SCCP/STP
International DPC:	2.124.1
Comments:	Load sharing
DPC info:	
Signature:	FFMSTA
Type:	SCCP/STP
International DPC:	2.128.5
Comments:	Load sharing
DPC info:	
Signature:	DSSDSTA
Type:	SCCP/STP
International DPC:	2.124.5
Comments:	Load sharing
SCCP carrier name:	TeliaSonera #nternational Carrier
Connectivity information:	Primary
DPC info:	
Signature:	S-S-UX-STX
Type:	Stand-alone STP
International DPC:	2.81.1
Comments:	Load sharing
DPC info:	
Signature:	S-S-UX2-STX
Type:	Stand-alone STP
International DPC:	2.81.2
Comments:	Load sharing

History of changes

Date	Description
2018-10-11	DPC information updated

**SUBSCRIBER IDENTITY AUTHENTICATION**

Section ID: 8 (Optional)

Section is applicable for the following TADIG codes: AZENT

Effective date of change: 2018-10-09

Authentications	Performed (Yes / No)
Authentication performed for Roaming subscribers at the commencement of GSM service	Yes
Authentication performed for roaming subscribers in case of GPRS	No
A5 Cipher Algorithm version in use	

History of changes

Date	Description
2018-10-09	Subscriber identity authentication information for AZENT updated

**MOBILE APPLICATION PART (MAP)**

Section ID: 10 (Optional)

Section is applicable for the following TADIG codes: AZENT

Effective date of change: 2018-10-09

Interworking specifically for roaming				
Application context name	Current version in			Comments
	Inbound roaming		Outbound roaming	
	MSC/VLR	SGSN	Outbound roaming	
networkLocUp	-	N/A	-	
roamingNumberEnquiry	-	N/A	-	
InfoRetrieval	-	-	-	
subscribeDataMngt	-	-	-	
networkFunctionalSs	-	N/A	-	
mwdMngt	-	-	-	
shortMsgMT-Relay (called shortMsgRelay in v1)	-	-	-	
shortMsgMO-Relay (called shortMsgRelay in v1)	-	-	-	
ss-InvocationNotification	-	N/A	-	
subscriberInfoEnquiry	-	-	-	
gprsLocationUpdate	N/A	-	-	
locationCancellation	-	-	-	
msPurging	-	-	-	
reset	-	-	-	
networksUnstructuredSs	-	N/A	-	
reporting	-	N/A	-	
callCompletion	-	N/A	-	
istAlerting	-	N/A	-	
service Termination	-	N/A	-	
locationSvcGateway	N/A	N/A	-	
mm-EventReporting	-	N/A	-	
authenticationFailureReport	-	-	-	
imsiRetrieval	-	N/A	-	
gprsNotifyContext	N/A	-	-	
gprsLocationInfoRetrieval	N/A	-	-	
faillureReport	N/A	-	-	
secureTransportHandling	-	-	-	

History of changes

**NETWORK ELEMENTS INFORMATION**

Section ID: 13 (Optional)

Section is applicable for the following TADIG codes: AZENT

Effective date of change: 2021-07-19

Node type	GT address / Address range	IP address / Address range	IPv6 address / Address range	Vendor info	UTC offset
MSC	994 60 0000500 / 0000500				+04:00
HSS	994 60 0000600 / 0000600				+04:00
SMSC	994 60 0509000 / 0509000				+04:00
SCP	994 60 0000800 / 0000802				+04:00
MSC	994 60 0000333 / 0000333				+00:00
HSS	994 60 0000666 / 0000666				+00:00

History of changes

Date	Description
2021-07-19	Added new MSC and HSS GT address

**CONTACT INFORMATION**

Section ID: 21 (Optional, Repeating)

Section is applicable for the following TADIG codes: AZENT

Effective date of change: 2018-01-05

List of Roaming Troubleshooting Contact Information**Roaming Troubleshooting Contact Information**

Location	Baku		
Office Time Zone in UTC	+04:00		
Office Hours	Week Day (s)	Start Time	End Time
	Mon Tue Wed Thu Fri	09:00:00	18:00:00

Main Contact for Troubleshooting (Office Hours)

Team Name	Tel.	Mobile	Fax	Email
Roaming Group				tdroaming@azercell.com

Escalation Contact for Troubleshooting

Person Name	Tel.	Mobile	Fax	Email
TD Roaming Roaming team	+994124967007			tdroaming@azercell.com

24 x 7 Troubleshooting (contact out of Office Hours)

Team Name	Tel.	Mobile	Fax	Email
Roaming Group				tdroaming@azercell.com

Roaming Troubleshooting Ticketing System Information

Ticket system web address

Ticket system email address

Additional Contacts**SCCP Inquires and ordering of SS7 Routes**

Person Name	Tel.	Mobile	Fax
Mr. Sanan Yusifov	+994124967007 1646	+994502100051	+994124301977
JobTitle	Email		
Network TechnologyCore Network Section Head	sanan@azercell.com		
Person Name	Tel.	Mobile	Fax
TD Roaming Roaming team	+994124967007		
JobTitle	Email		
Roaming team	tdroaming@azercell.com		

Roaming Coordinator

Person Name	Tel.	Mobile	Fax
Mr. Sanan Yusifov	+994124967007 1646	+994502100051	+994124301977
JobTitle	Email		
Network TechnologyCore Network Section Head	sanan@azercell.com		
Person Name	Tel.	Mobile	Fax
TD Roaming Roaming team	+994124967007		
JobTitle	Email		
Roaming team	tdroaming@azercell.com		

IREG Tests

Person Name	Tel.	Mobile	Fax
SD/Roaming Roaming team	+994124967007		
JobTitle	Email		
	sdroaming@azercell.com		
Person Name	Tel.	Mobile	Fax
Ms. Sevinc Jabrailova	+994124967007 1594	+994502210076	+994124301977
JobTitle	Email		
Roaming team senior engineer	aksevinc@azercell.com		

TADIG Tests

Person Name	Tel.	Mobile	Fax
Mr Ilham Guliyev	+994124967007 1659	+994502210019	+994124301933
JobTitle	Email		
IT/Service Level Monitoring and Management/ Unit Head	itilham@azercell.com		
Person Name	Tel.	Mobile	Fax
Mr. Bextiyar Xanbutayev	+994124967007 1674	+994502310665	+994124301933
JobTitle	Email		
IT/BSS Platforms/ Engineer	BXanbutayev@azercell.com		

**CAMEL Tests**

Person Name	Tel.	Mobile	Fax
SD/Roaming Roaming team	+994124967007		
JobTitle	Email		
	sdroaming@azercell.com		
Person Name	Tel.	Mobile	Fax
Ms. Sevinc Jabrailova	+994124967007 1594	+994502210076	+994124301977
JobTitle	Email		
Roaming team senior engineer	aksevinc@azercell.com		

GPRS Tests

Person Name	Tel.	Mobile	Fax
SD/Roaming Roaming team	+994124967007		
JobTitle	Email		
	sdroaming@azercell.com		
Person Name	Tel.	Mobile	Fax
Ms. Sevinc Jabrailova	+994124967007 1594	+994502210076	+994124301977
JobTitle	Email		
Roaming team senior engineer	aksevinc@azercell.com		

Contact Person(s) in PMN for GRX connectivity

Person Name	Tel.	Mobile	Fax
Mr. Sanan Yusifov	+994124967007 1646	+994502100051	+994124301977
JobTitle	Email		
Network TechnologyCore Network Section Head	sanan@azercell.com		
Person Name	Tel.	Mobile	Fax
TD Roaming Roaming team	+994124967007		
JobTitle	Email		
Roaming team	tdroaming@azercell.com		

Contact Person(s) in PMN for GRX Provider

Person Name	Tel.	Mobile	Fax
Mr. Sanan Yusifov	+994124967007 1646	+994502100051	+994124301977
JobTitle	Email		
Network TechnologyCore Network Section Head	sanan@azercell.com		
Person Name	Tel.	Mobile	Fax
TD Roaming Roaming team	+994124967007		
JobTitle	Email		
Roaming team	tdroaming@azercell.com		

Other contact(s)

Person Name	Tel.	Mobile	Fax
TD Roaming Roaming team	+994124967007		
JobTitle	Email		
Roaming team	tdroaming@azercell.com		
Person Name	Tel.	Mobile	Fax
SD/Roaming Roaming team	+994124967007		
JobTitle	Email		
	sdroaming@azercell.com		

IR21 Distribution Email Address

Email
sdroaming@azercell.com

History of changes

Date	Description
2018-01-05	Contacts updated

**SECTIONS NOT IN USE**

TADIG Code	Section ID	Section Name
AZENT	6	Domestic SCCP Gateway
AZENT	7	SCCP Protocol available at PMN for connection for International SS7 Roaming
AZENT	9	Test Numbers Information
AZENT	12	MAP Inter Operator SMS Enhancement
AZENT	14	USSD Information
AZENT	15	CAMEL Information
AZENT	16	Packet Data Services Information
AZENT	17	GRX/IPX Routing for Data Roaming
AZENT	18	MMS Interworking Information
AZENT	19	WLAN Information
AZENT	20	Roaming in Long Term Evolution
AZENT	22	Hosted Networks
AZENT	23	M2M Roaming Information
AZENT	26	VoLTE Roaming Information Section
AZENT	27	LPWA Roaming Information Section