

GSMA Roaming Database
IR.21 Data

Non-binding draft document

RAEX IR.21 Information

Creation date:	2022-06-08
Creation time:	13:17:28+02:00
File type:	IR.21
Sender TADIG:	BGDGP
Publish Comment:	new numbering series 0133 added
TADIG-GEN schema version:	2.4
RAEX-IR.21 schema version:	15.0

ORGANISATION INFORMATION

Section ID: 1 (Mandatory)

Organisation name:	Grameenphone Ltd
Country initials:	BGD

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History of changes

TADIG Code	Section ID	Section	Date	Description
BGDGP	4	Routing Information	2023-03-30	new 0133 numbering series added
BGDGP	21	Contact Information	2023-03-30	Contacts Updated
BGDGP	21	Contact Information	2023-03-30	Contacts updated
BGDGP	21	Contact Information	2023-03-30	Contacts Updated
BGDGP	21	Contact Information	2023-03-30	Contacts Updated
BGDGP	4	Routing Information	2022-06-08	New 013 number series added - Start MSISDN: 01325800000; End MSISDN: 01329799999
BGDGP	4	Routing Information	2022-06-08	New 013-Series configuration - Start MSISDN: 01325800000; End MSISDN: 01329799999
BGDGP	4	Routing Information	2022-04-01	Numbering series added 8801324800000 - 8801325799999
BGDGP	4	Routing Information	2021-01-18	numbering series added (13233 - 13247)
BGDGP	5	International SCCP Gateway	2020-12-03	Orange SCCP carrier removed
BGDGP	5	International SCCP Gateway	2020-12-03	Orange SCCP carrier removed
BGDGP	17	IP Roaming/Networking Information	2020-12-03	Orange removed as GRX provider
BGDGP	4	Routing Information	2020-12-02	new series 13213-13219, 1322, 13230, 13231, 13232 Added
BGDGP	17	IP Roaming/Networking Information	2020-12-02	ASNs 65000 ,64650 & 65470 removed
BGDGP	4	Routing Information	2020-11-03	new number series added 13203-13212
BGDGP	4	Routing Information	2020-09-03	New NDC (13200, 13201, 13202) Added
BGDGP	5	International SCCP Gateway	2020-08-06	TATA is the new ITU/ANSI conversion partner
BGDGP	21	Contact Information	2020-01-20	Contacts Updated
BGDGP	17	IP Roaming/Networking Information	2020-01-07	ASNs added
BGDGP	4	Routing Information	2019-10-22	CC 880 NDC 14 added due to number portability
BGDGP	21	Contact Information	2019-10-22	IREG testing contact added
BGDGP	21	Contact Information	2019-10-22	Contacts added
BGDGP	13	Network Elements Information	2019-09-01	Remove some GTs
BGDGP	5	International SCCP Gateway	2019-04-29	SCCP Carrier information updated
BGDGP	5	International SCCP Gateway	2019-04-28	SCCP Carrier information change
BGDGP	13	Network Elements Information	2019-04-28	New SMSC addition
BGDGP	16	Packet Data Service Information	2019-03-14	Packet-switched data edited
BGDGP	20	LTE Roaming Information	2019-03-14	Agreement information Edited
BGDGP	16	Packet Data Service Information	2019-03-06	APN operator identifier info edited
BGDGP	16	Packet Data Service Information	2019-03-05	APN Operator Identifier info added
BGDGP	17	IP Roaming/Networking Information	2019-03-05	DNS info for LTE added
BGDGP	20	LTE Roaming Information	2019-03-05	IPX provider's name edited
BGDGP	20	LTE Roaming Information	2019-03-04	LTE Information updated
BGDGP	4	Routing Information	2018-10-01	MNP effective from October 1, 2018. As per regulatory, the previous communicated date has been revised.
BGDGP	4	Routing Information	2018-09-10	New NDC (130, 131) Added
BGDGP	13	Network Elements Information	2018-09-10	New VLR, MSS added
BGDGP	13	Network Elements Information	2018-09-10	New SCP Added
BGDGP	21	Contact Information	2018-09-10	CAMEL Contact Chnage
BGDGP	16	Packet Data Service Information	2018-09-09	APN Type added
BGDGP	17	IP Roaming/Networking Information	2018-02-04	GRX traffic will be migrated from 13th Feb'2018 to 20th Feb'2018.
BGDGP	13	Network Elements Information	2018-01-11	Add New GT
BGDGP	13	Network Elements Information	2018-01-11	Add New GT
BGDGP	13	Network Elements Information	2017-12-12	New GT of Nokia platform HLR.
BGDGP	21	Contact Information	2017-12-06	Contact info Change

TADIG Code	Section ID	Section	Date	Description
BGDGP	16	Packet Data Service Information	2016-08-10	Change of ISP DNS IP Address
BGDGP	17	IP Roaming/Networking Information	2016-08-10	Change of List of PMN authoritative DNS server IP addresses
BGDGP	21	Contact Information	2016-02-22	TADIG Contact Info Change
BGDGP	21	Contact Information	2016-02-08	Roaming Troubleshooting Contact Changes
BGDGP	18	MMS Interworking Information	2016-02-03	MMS IW Hub Provider Name change
BGDGP	21	Contact Information	2016-02-03	Roaming Troubleshooting Contact Changes
BGDGP	5	International SCCP Gateway	2016-02-02	Change the name of France Telecom with their present Name Orange
BGDGP	16	Packet Data Service Information	2016-02-02	IP Address Checked and found same
BGDGP	16	Packet Data Service Information	2016-02-02	IP Address Change
BGDGP	17	IP Roaming/Networking Information	2016-02-02	List of PMN authoritative DNS server IP addresses and names (optional): Changed
BGDGP	17	IP Roaming/Networking Information	2016-02-02	Corrected DNS IP Address
BGDGP	13	Network Elements Information	2015-08-13	SMSC new GT: 8801700000617 added
BGDGP	4	Routing Information	2015-06-14	Corrected MNC as 01
BGDGP	17	IP Roaming/Networking Information	2015-06-11	Corrected DNS Server IP address
BGDGP	17	IP Roaming/Networking Information	2015-06-11	Corrected List of Autonomous System Number as "64819" instead of 24389
BGDGP	10	MAP	2015-05-21	First RAEX Version
BGDGP	5	International SCCP Gateway	2015-04-22	First RAEX Version
BGDGP	11	MAP Optional Routing	2015-04-22	First RAEX Version
BGDGP	12	MAP Inter Operator SMS Enhancement	2015-04-22	First RAEX Version
BGDGP	13	Network Elements Information	2015-04-22	First RAEX Version
BGDGP	15	CAMEL Information	2015-04-22	First RAEX Version
BGDGP	16	Packet Data Service Information	2015-04-22	First RAEX Version
BGDGP	17	IP Roaming/Networking Information	2015-04-22	First RAEX Version
BGDGP	18	MMS Interworking Information	2015-04-22	First RAEX Version
BGDGP	22	Hosted Networks	2015-04-22	First RAEX Version
BGDGP	4	Routing Information	2015-03-31	First RAEX Version
BGDGP	5	International SCCP Gateway	2015-03-31	First RAEX Version
BGDGP	5	International SCCP Gateway	2015-03-31	First RAEX Version
BGDGP	7	SCCP Protocol	2015-03-31	First RAEX Version
BGDGP	8	Subscriber Identity Authentication	2015-03-31	First RAEX IR21
BGDGP	4	Routing Information	2015-03-30	First RAEX Version
BGDGP	5	International SCCP Gateway	2015-03-30	First RAEX Version
BGDGP	5	International SCCP Gateway	2015-03-30	First RAEX Version
BGDGP	7	SCCP Protocol	2015-03-30	First RAEX Version
BGDGP	11	MAP Optional Routing	2015-03-30	First RAEX Version
BGDGP	12	MAP Inter Operator SMS Enhancement	2015-03-30	First RAEX Version

NETWORK

TADIG code: BGDGP
Section ID: 2 (Mandatory, Repeating)

TADIG code:	BGDGP
Network name:	grameenphone
Network type:	Terrestrial
Technology:	Frequency list:
2G-GSM frequencies:	GSM 900, DCS 1800
3G-UTRA/FDD frequencies:	Unsupported
3G-UTRA/TDD frequencies:	Unsupported
4G-E-UTRAN frequencies:	8 - 900 MHz, 3 - DCS 1800
4G-E-UTRAN-MIoT-LTE-M frequencies:	Unsupported
4G-E-UTRAN-MIoT-NB-IoT frequencies:	Unsupported
MIoT-NB-IoT deployment modes:	Unsupported
5G NR frequencies:	Unsupported
Presentation of country initials and MNN:	Bangladesh, BGDGP

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NETWORK INFORMATION

TADIG code: BGDGP

Section ID: 3 (Mandatory)

The following information refer to the network identified by TADIG code BGDGP

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ROUTING INFORMATION

TADIG code: BGDGP
Section ID: 4 (Mandatory)
Effective date of change: 2023-03-30

CCITT E.164 Number series	Country Code (CC)	National Destination Code (NDC)	SN Range Start	SN Range Stop	Primary International DPC	Secondary International DPC	MVNO Number	Location
MSISDN number ranges (s)								
	880	17	00000000	99999999				
	880	130						
	880	131						
	880	13200						
	880	13201						
	880	13202						
	880	13203						
	880	13204						
	880	13205						
	880	13206						
	880	13207						
	880	13208						
	880	13209						
	880	13210						
	880	13211						
	880	13212						
	880	13213						
	880	13214						
	880	13215						
	880	13216						
	880	13217						
	880	13218						
	880	13219						
	880	1322						
	880	13230						
	880	13231						
	880	13232						
	880	13233						
	880	13234						
	880	13235						
	880	13236						
	880	13237						
	880	13238						
	880	13239						
	880	13240						
	880	13241						
	880	13242						
	880	13243						
	880	13244						
	880	13245						
	880	13246						

CCITT E.164 Number series	Country Code (CC)	National Destination Code (NDC)	SN Range Start	SN Range Stop	Primary International DPC	Secondary International DPC	MVNO Number	Location
MSISDN number ranges (s)								
	880	13247						
	880	13248						
	880	13249						
	880	13250						
	880	13251						
	880	13252						
	880	13253						
	880	13254						
	880	13255						
	880	13256						
	880	13257						
	880	13	25800000	29799999				
	880	13	33000000	33009999				
	880	13	33010000	33059999				

Network Nodes Global Title Number Range(s)								
	880	17	00000000	99999999				

MSRN Number Range(s)								
	880	17	00000000	09999999				

E. 212 Number series	Mobile Country Code (MCC)	Mobile Network Code (MNC)
	470	01

E. 214 Mobile Global Title (MGT)	Country Code of MGT (CC)	Network Code of MGT (NC)
	880	17

Does Number Portability apply ?	Yes
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Is 15 Digit MSISDN Supported ?	No
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E. 164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	880	18		
	880	16		
	880	19		
	880	15		
	880	14		

History of changes

Date	Description
2023-03-30	new 0133 numbering series added
2022-06-08	New 013 number series added - Start MSISDN: 01325800000; End MSISDN: 01329799999
2022-06-08	New 013-Series configuration - Start MSISDN: 01325800000; End MSISDN: 01329799999
2022-04-01	Numbering series added 8801324800000 - 8801325799999
2021-01-18	numbering series added (13233 - 13247)
2020-12-02	new series 13213-13219, 1322, 13230, 13231, 13232 Added
2020-11-03	new number series added 13203-13212
2020-09-03	New NDC (13200, 13201, 13202) Added
2019-10-22	CC 880 NDC 14 added due to number portability

Date	Description
2018-10-01	MNP effective from October 1, 2018. As per regulatory, the previous communicated date has been revised.
2018-09-10	New NDC (130, 131) Added
2015-06-14	Corrected MNC as 01
2015-03-31	First RAEX Version
2015-03-30	First RAEX Version

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INTERNATIONAL SCCP GATEWAY

TADIG code: BGDGP

Section ID: 5 (Optional)

Effective date of change: 2020-12-03

International SCCP carrier list	
SCCP carrier name:	Telenor Global Services
Connectivity information:	Primary
MNO TADIG code list:	
DPC info:	
Signature:	SGPSTP1
Type:	SCCP
International DPC:	5.143.7
Comments:	Load Share with (4.178.6)
DPC info:	
Signature:	HKGSTP1
Type:	SCCP
International DPC:	4.178.6
Comments:	Load Share with (5.143.7)

History of changes

Date	Description
2020-12-03	Orange SCCP carrier removed
2020-12-03	Orange SCCP carrier removed
2020-08-06	TATA is the new ITU/ANSI conversion partner
2019-04-29	SCCP Carrier information updated
2019-04-28	SCCP Carrier information change
2016-02-02	Chnage the name of France Telecom with their present Name Orange
2015-04-22	First RAEX Version
2015-03-31	First RAEX Version
2015-03-31	First RAEX Version
2015-03-30	First RAEX Version
2015-03-30	First RAEX Version

SCCP Protocol available at PMN for connection for International SS7 Roaming

TADIG code: BGDGP
Section ID: 7 (Optional)
Effective date of change: 2015-03-31

SCCP Protocol available at PMN	Availability (Yes / No)
ETSI (ITU):	Yes
ANSI:	Yes

History of changes

Date	Description
2015-03-31	First RAEX Version
2015-03-30	First RAEX Version

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SUBSCRIBER IDENTITY AUTHENTICATION

TADIG code: BGDGP
Section ID: 8 (Optional)
Effective date of change: 2015-03-31

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	

History of changes

Date	Description
2015-03-31	First RAEX IR21

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MOBILE APPLICATION PART (MAP)

TADIG code: BGDGP

Section ID: 10 (Optional)

Effective date of change: 2015-05-21

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	MAPv2+
roamingNumberEnquiry	MAPv2	N/A	MAPv2	MAPv2+
InfoRetrieval	MAPv2	MAPv2	MAPv2	MAPv2+
subscribeDataMngt	MAPv2	MAPv2	MAPv2	MAPv2+
networkFunctionalSs	MAPv2	N/A	MAPv2	MAPv2+
mwdMngt	MAPv2	MAPv2	MAPv2	MAPv2+
shortMsgMT-Relay (called shortMsgRelay in v1)	MAPv3	-	MAPv3	MAPv2+
shortMsgMO-Relay (called shortMsgRelay in v1)	MAPv3	-	MAPv3	MAPv2+
ss-InvocationNotification	MAPv2	N/A	MAPv2	MAPv2+
subscriberInfoEnquiry	MAPv2	MAPv2	MAPv2	MAPv2+
gprsLocationUpdate	N/A	MAPv2	MAPv2	MAPv2+
locationCancellation	MAPv2	MAPv2	MAPv2	MAPv2+
msPurging	MAPv2	MAPv2	MAPv2	MAPv2+
reset	MAPv2	MAPv2	MAPv2	MAPv2+
networksUnstructuredSs	MAPv2	N/A	MAPv2	MAPv2+
reporting	MAPv2	N/A	MAPv2	MAPv2+
callCompletion	MAPv2	N/A	MAPv2	MAPv2+
istAlerting	-	N/A	MAPv2	MAPv2+
service Termination	MAPv2	N/A	MAPv2	MAPv2+
locationSvcGateway	N/A	N/A	MAPv2	MAPv2+
mm-EventReporting	-	N/A	-	
authenticationFailureReport	MAPv2	MAPv2	MAPv2	MAPv2+
imsiRetrieval	MAPv2	N/A	MAPv2	MAPv2+
gprsNotifyContext	N/A	MAPv2	MAPv2	MAPv2+
gprsLocationInfoRetrieval	N/A	MAPv2	MAPv2	MAPv2+
failureReport	N/A	MAPv2	MAPv2	MAPv2+
secureTransportHandling	-	-	-	

History of changes

Date	Description
2015-05-21	First RAEX Version

MAP Optimal Routing Section

TADIG code: BGDGP
Section ID: 11 (Optional)

Effective date of change: 2015-04-22

MAP Optimal Routing of mobile - to - mobile calls				
Application Context Name	Current version in			Comments
	MSC	GMSC	HLR	
CallControlTransfer	MAPv2	MAPv2	N/A	MAPv2+
LocationInfoRetrieval	N/A	MAPv2	MAPv2	MAPv2+

History of changes

Date	Description
2015-04-22	First RAEX Version
2015-03-30	First RAEX Version

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MAP Inter Operator SMS Enhancement

TADIG code: BGDGP
Section ID: 12 (Optional)
Effective date of change: 2015-04-22

Inter - Operator SMS Enhancement				
Application context name	Current version in			Comments
	SMS - IWMSC	SMS - GMSC	HLR	
shortMsgGateway	N/A	MAPv3	MAPv3	MAPv2+
shortMsgAlert	MAPv3	N/A	-	MAPv2+

History of changes

Date	Description
2015-04-22	First RAEX Version
2015-03-30	First RAEX Version

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NETWORK ELEMENTS INFORMATION

TADIG code: BGDGP

Section ID: 13 (Optional)

Effective date of change: 2019-09-01

Node type	Node ID	GT address / Address range	IP address / Address range	IPv6 address / Address range	Vendor info	SW / HW version	UTC offset
HLR		880 17 02000000 / 02000007			Huawei		+06:00
HLR		880 17 02000013 / 02000036			Nokia		+06:00
MSS/VLR		880 17 02000116 / 02000130			Huawei		+06:00
SGSN		880 17 00000411 / 00000411	202.56.6.0/24		Huawei		+06:00
SGSN		880 17 02000160 / 02000161	202.56.6.0/24		Huawei		+06:00
SMSC		880 17 00000600 / 00000600					+06:00
SMSC		880 17 00000605 / 00000607					+06:00
SMSC		880 17 00000613 / 00000613					+06:00
SMSC		880 17 00000616 / 00000616					+06:00
SMSC		880 17 00000617 / 00000617					+06:00
SMSC		880 17 00000602 / 00000602					+00:00

History of changes

Date	Description
2019-09-01	Remove some GTs
2019-04-28	New SMSC addition
2018-09-10	New VLR, MSS added
2018-09-10	New SCP Added
2018-01-11	Add New GT
2018-01-11	Add New GT
2017-12-12	New GT of Nokia platform HLR
2015-08-13	SMSC new GT: 8801700000617 added
2015-04-22	First RAEX Version

CAMEL INFO

TADIG code: BGDGP
Section ID: 15 (Conditional)
Effective date of change: 2015-04-22

gsmSSF/MSC		
CAP Version supported (Inbound)		CAP Version supported (Outbound)
CAPv2		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
2015-04-22	First RAEX Version

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Packet Data Services Information

TADIG code: BGDGP

Section ID: 16 (Conditional)

Effective date of change: 2019-03-14

List of APN Operator Identifiers

APN Operator Identifier	Description	Example
mnc001.mcc470.gprs	2G, 3G	gpinternet.mnc001.mcc470.gprs
apn.epc.mnc001.mcc470.3gppnetwork.org	LTE	gpinternet.apn.epc.mnc001.mcc470.3gppnetwork.org

List of APN's available for testing and troubleshooting**APN WEB List**

APN Credential			APN Type	ISP DNS IP address (primary)	ISP DNS IP address (secondary)
APN	Username	Password			
gpinternet			H-APN	123.108.240.187	123.108.240.172

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			
gpwap.mnc001.mcc470.gprs			H-APN		http://wap.gpstore.com		

APN MMS List

APN	APN Credential		WAP Gateway IP address for MMS	Messaging Server URL
	Username	Password		
gpmms.mnc001.mcc470.gprs				mmmc.grameenphone.com/servlets/mms

IPv6 Connectivity Information

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

List of 2G/3G QOS profiles

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	
HSUPA	

Multiple PDP Context Support	
Number of Primary PDP Context	Not supported

History of changes

Date	Description
2019-03-14	Packet-switched data edited
2019-03-06	APN operator identifier info edited
2019-03-05	APN Operator Identifier info added
2018-09-09	APN Type added
2016-08-10	Change of ISP DNS IP Address
2016-02-02	IP Address Checked and found same

Date	Description
2016-02-02	IP Address Change
2015-04-22	First RAEX Version

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IP - Roaming and IP - Interworking Information

TADIG code: BGDGP

Section ID: 17 (Conditional)

Effective date of change: 2020-12-03

List of All IP address ranges used by PMN for connection to inter - PMN IP backbone	IP Address Range
	202.56.6.0/24

List of Autonomous System Number (ASN):	ASN
	64819

List of Autonomous System Number (ASN4B):	ASN4B
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List of PMN authoritative DNS server IP addresses and names		
IP address	IPv6 address	DNS Name
202.56.6.90		svedns01.mnc001.mcc470.gprs
202.56.6.94		gpedns02.mnc001.mcc470.gprs
202.56.6.90		svedns01.epc.mnc001.mcc470.3gppnetwork.org
202.56.6.94		gpedns02.epc.mnc001.mcc470.3gppnetwork.org

List of GRX Providers	GRX Provider
	Telenor Global Services

History of changes

Date	Description
2020-12-03	Orange removed as GRX provider
2020-12-02	ASNs 65000 ,64650 & 65470 removed
2020-01-07	ASNs added
2019-03-05	DNS info for LTE added
2018-02-04	GRX traffic will be migrated from 13th Feb'2018 to 20th Feb'2018.
2016-08-10	Change of List of PMN authoritative DNS server IP addresses
2016-02-02	List of PMN authoritative DNS server IP addresses and names (optional): Changed
2016-02-02	Corrected DNS IP Address
2015-06-11	Corrected DNS Server IP address
2015-06-11	Corrected List of Autonomous System Number as "64819" instead of 24389
2015-04-22	First RAEX Version

MMS Interworking Information

TADIG code: BGDGP

Section ID: 18 (Optional)

Effective date of change: 2016-02-03

MMS Elements Data

Domain name of MMSC	IP Address	Max. size of MMS allowed	Delivery Report allowed? (Yes / No)	Read Report allowed? (Yes / No)	IP address(es) of Incoming MTA	IP address(es) of Outgoing MTA
mmmc.grameenphone.com/servlets/mms	10.175.20.150	300	Yes	Yes	123.108.240.130	173.209.199.146 173.209.201.146

List of MMS IW Hub Provider	MMS IW Hub Provider Name	GT address(es)
	Syniverse	19440

History of changes

Date	Description
2016-02-03	MMS IW Hub Provider Name change
2015-04-22	First RAEX Version

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LTE Roaming Information

TADIG code: BGDGP

Section ID: 20 (Optional)

Effective date of change: 2019-03-14

IPX Provider Name	IPX DA Realm Used	Diameter Architecture
Telenor Global Services	telenor.grx	
Primary IP address of DA	Secondary IP address of DA	
213.230.171.212	213.230.171.196	
213.230.171.84	213.230.171.197	
213.230.171.213	213.230.171.68	
213.230.171.85	213.230.171.69	

Roaming Interconnection

EPC Realms For Roaming
epc.mnc001.mcc470.3gppnetwork.org

FQDN Diameter Edge Agent

FQDN	Primary IP Address DEA FQDN	Secondary IP Address DEA FQDN
svvdsc01.epc.mnc001.mcc470.3gppnetwork.org	37.111.208.4 37.111.208.5 37.111.208.12 37.111.208.13	
jsvdsc02.epc.mnc001.mcc470.3gppnetwork.org	37.11.240.4 37.11.240.5 37.11.240.12 37.11.240.13	

S6a Supported without IWF	S6a MAP IWF supported to HSS	S6a MAP IWF supported to MME
true	false	false
S6d used for legacy SGSN	S9 used for PCG	
false	false	

SMS ITW

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

Voice ITW

CSFB

Roaming CS Fallback

Roaming Forward (MTRF)

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

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
2019-03-14	Agreement information Edited
2019-03-05	IPX provider's name edited
2019-03-04	LTE Information updated

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Hosted networks

TADIG code: BGDGP
Section ID: 22 (Optional, Repeating)

Effective date of change: 2015-04-22

List of Hosted Networks

Hosted Network Data	
Network Name:	Hosted Network
Country:	BGD
TADIG code:	BGDGP
Network type:	Terrestrial
List of Hosted Network Nodes	

Node Type	GT (E. 164) Address(es)	IP Addresses / IP Address Ranges	MSRN Range(s)				
			CC	NDC	SN Range Start	SN Range End	Location
MSC/VLR	88017 02000116 - 02000130		880	17	00000000	09999999	
Node Type	GT (E. 164) Address(es)	IP Addresses / IP Address Ranges					
SGSN	88017 02000160 - 02000161						
Node Type	GT (E. 164) Address(es)	IP Addresses / IP Address Ranges					
SGSN	88017 00000411 - 00000411						

History of changes

Date	Description
2015-04-22	First RAEX Version

CONTACT INFORMATION

TADIG code: BGDGP

Section ID: 21 (Optional, Repeating)

Effective date of change: 2023-03-30

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

Location		Dhaka	
Office Time Zone in UTC		+06:00	
Office Hours	Week Day (s)	Start Time	End Time
	Mon Tue Wed Thu Sun	08:00:00	17:00:00

Main Contact for Troubleshooting (Office Hours)

Team Name	Tel.	Mobile	Fax	Email
GP-FrontOfficeCore	+8801730713816			GP-FrontOfficeCore@wipro.com

Escalation Contact for Troubleshooting

Person Name	Tel.	Mobile	Fax	Email
Emad Hussain	+6596534565	+6596534565		emad.hussain@telenorlinx.com

24 x 7 Troubleshooting (contact out of Office Hours)

Team Name	Tel.	Mobile	Fax	Email
GP-FrontOfficeCore	+8801730713816			GP-FrontOfficeCore@wipro.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
Service Operation Center SOC	+88029882990	+8801730713816	
JobTitle	Email		
Service Operation Center	GP-FrontOfficeCore@wipro.com		

Roaming Coordinator

Person Name	Tel.	Mobile	Fax
Emad Hussain	+6596534565	+6596534565	
JobTitle	Email		
Global Roaming Coordinator	emad.hussain@telenorlinx.com		

IREG Tests

Person Name	Tel.	Mobile	Fax
Service Operation Center SOC	+88029882990	+8801730713816	
JobTitle	Email		
Service Operation Center	GP-FrontOfficeCore@wipro.com		
Person Name	Tel.	Mobile	Fax
Emad Hussain	+6596534565	+6596534565	
JobTitle	Email		
Global Roaming Coordinator	emad.hussain@telenorlinx.com		

TADIG Tests

Person Name	Tel.	Mobile	Fax
Mr Tanvir Ahmed		+8801324255137	
JobTitle	Email		
Senior Software Engineer Billing	GP-Billing1@wipro.com		
Person Name	Tel.	Mobile	Fax
Emad Hussain	+6596534565	+6596534565	
JobTitle	Email		
Global Roaming Coordinator	emad.hussain@telenorlinx.com		

CAMEL Tests

Person Name	Tel.	Mobile	Fax
Emad Hussain	+6596534565	+6596534565	
JobTitle	Email		
Global Roaming Coordinator	emad.hussain@telenorlinx.com		

GPRS Tests

Person Name	Tel.	Mobile	Fax
Emad Hussain	+6596534565	+6596534565	
JobTitle	Email		
Global Roaming Coordinator	emad.hussain@telenorlinx.com		

Contact Person(s) in PMN for GRX connectivity

	Person Name	Tel.	Mobile	Fax
	Service Desk Telenor Global Support	+4781500166		
	JobTitle	Email		
		servicedesk@telenorglobalsupport.com		

Contact Person(s) in PMN for GRX Provider

	Person Name	Tel.	Mobile	Fax
	Emad Hussain	+6596534565	+6596534565	
	JobTitle	Email		
	Global Roaming Coordinator	emad.hussain@telenorlinx.com		

Contact person(s) for IW MMS

	Person Name	Tel.	Mobile	Fax
	Mr Md. Fuad Tanvir Syed		+8801711507526	
	JobTitle	Email		
	Product Manager	fuad.tanvir@grameenphone.com		

Contact Person(s) for WLAN

	Person Name	Tel.	Mobile	Fax
	Mr Md. Raquibul Islam		+8801711080652	
	JobTitle	Email		
	Core Services Lead	raquibul@grameenphone.com		

Other contact(s)

	Person Name	Tel.	Mobile	Fax
	Emad Hussain	+6596534565	+6596534565	
	JobTitle	Email		
	Global Roaming Coordinator	emad.hussain@telenorlinx.com		

IR21 Distribution Email Address

	Email
	GP-FrontOfficeCore@wipro.com
	raquibul@grameenphone.com

History of changes

Date	Description
2023-03-30	Contacts Updated
2023-03-30	Contacts updated
2023-03-30	Contacts Updated
2023-03-30	Contacts Updated
2020-01-20	Contacts Updated
2019-10-22	IREG testing contact added
2019-10-22	Contacts added
2018-09-10	CAMEL Contact Chnage
2017-12-06	Contact info Change
2016-02-22	TADIG Contact Info Change
2016-02-08	Roaming Troubleshooting Contact Changes
2016-02-03	Roaming Troubleshooting Contact Changes

SECTIONS NOT IN USE

TADIG Code	Section ID	Section Name
BGDGP	6	Domestic SCCP Gateway
BGDGP	9	Test Numbers Information
BGDGP	14	USSD Information
BGDGP	19	WLAN Information
BGDGP	23	M2M Roaming Information
BGDGP	24	MVNO Information
BGDGP	26	VoLTE Roaming Information Section
BGDGP	27	LPWA Roaming Information Section

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