

GSMA Roaming Database IR.21 Data



RAEX IR.21 Information

Creation date:	2022-11-24
Creation time:	12:26:06+01:00
File type:	IR.21
Sender TADIG:	FROFT
Publish Comment:	iBasis removed. Migration to Arelion implemented and completed.
TADIG-GEN schema version:	2.4
RAEX-IR.21 schema version:	15.0

ORGANISATION INFORMATION

Section ID: 1 (Mandatory)

Organisation name:	FT Samskifti
Country initials:	FRO

History of changes

TADIG Code	Section ID	Section	Date	Description
FROFT	5	International SCCP Gateway	2022-11-21	iBasis removed
FROFT	17	IP Roaming/Networking Information	2022-11-21	iBasis removed
FROFT	20	LTE Roaming Information	2022-11-21	iBasis removed.
FROFT	20	LTE Roaming Information	2022-11-21	iBasis removed
FROFT	4	Routing Information	2022-08-24	MSISDN 29891x number range added.
FROFT	9	Test Numbers Information	2022-08-24	AAC test numbers added.
FROFT	4	Routing Information	2022-04-28	Number range 29896 added
FROFT	5	International SCCP Gateway	2022-03-07	SCCP carrier name modified
FROFT	20	LTE Roaming Information	2022-03-03	Roming CS fallback updated
FROFT	4	Routing Information	2022-03-02	MSISDN and number portability ranges updated.
FROFT	5	International SCCP Gateway	2022-03-02	Added new primary SCCP Carrier
FROFT	13	Network Elements Information	2022-03-02	SMSC node id changes
FROFT	15	CAMEL Information	2022-03-02	CAMEL SCP GT addr. 298249011 and 298249013 removed
FROFT	17	IP Roaming/Networking Information	2022-03-02	New GRX provider added
FROFT	20	LTE Roaming Information	2022-03-02	Added new IPX provider
FROFT	20	LTE Roaming Information	2022-03-02	List of LTE QOS profiles updated
FROFT	13	Network Elements Information	2020-10-08	Network elements updated
FROFT	4	Routing Information	2020-10-02	Routing Information MNP updated
FROFT	13	Network Elements Information	2020-10-02	Network Nodes 2G, 3G, 4G and 5G updated
FROFT	17	IP Roaming/Networking Information	2019-11-06	All DNS servers updated to Authoritative serves.
FROFT	17	IP Roaming/Networking Information	2019-10-24	Authoritative DNS servers 'FTEDNS01' and 'FTEDNS02' removed and out off service.

NETWORK

TADIG code: FROFT

Section ID: 2 (Mandatory, Repeating)

TADIG code:	FROFT
Network name:	Faroese Telecom
Network type:	Terrestrial
Technology:	Frequency list:
2G-GSM frequencies:	GSM 900
3G-UTRA/FDD frequencies:	8 - 900 MHz, 1 - IMT 2.1 GHz
3G-UTRA/TDD frequencies:	Unsupported
4G-E-UTRAN frequencies:	20 - 800 MHz EDD, 3 - DCS 1800, 7 - 2.6 GHz, 1 - IMT 2.1 GHz
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:	n78 - TDD 3500
Other technology - WCDMA:	900 MHz, 2100 Mhz
Presentation of country initials and MNN:	Faroe Islands
Abbreviated MNN:	FT-GSM

NETWORK INFORMATION

TADIG code: FROFT

Section ID: 3 (Mandatory)

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

ROUTING INFORMATION

TADIG code: FROFT

Section ID: 4 (Mandatory)

Effective date of change: 2022-08-24

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)								
	298	21	0000	9999				
	298	22	0000	9999				
	298	23	0000	9999				
	298	24	0000	9999				
	298	25	0000	9999				
	298	26	0000	9999				
	298	27	0000	9999				
	298	28	0000	9999				
	298	29	0000	9999				
	298	78	0000	9999				
	298	79	0000	9999				
	298	94	0000	9999				
	298	96	0000	9999				
	298	91	0000	9999				

Network Nodes Global Title Number Range(s)								
	298	2490	00	99				

MSRN Number Range(s)								
	298	249	100	199				
	298	249	200	299				
	298	249	300	399				
	298	249	400	499				

E. 212 Number series	Mobile Country Code (MCC)	Mobile Network Code (MNC)
	288	01

E. 214 Mobile Global Title (MGT)	Country Code of MGT (CC)	Network Code of MGT (NC)
	298	24

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
	298	21	0000	9999
	298	22	0000	9999
	298	23	0000	9999
	298	24	0000	9999
	298	25	0000	9999
	298	26	0000	9999
	298	27	0000	9999
	298	28	0000	9999
	298	29	0000	9999
	298	5	00000	99999
	298	91	0000	9999
	298	71	0000	9999
	298	72	0000	9999
	298	73	0000	9999

E. 164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	298	74	0000	9999
	298	75	0000	9999
	298	76	0000	9999
	298	77	0000	9999
	298	78	0000	9999
	298	79	0000	9999
	298	94	0000	9999
	298	96	0000	9999

Additional Information
Faroese Telecom fixed line number ranges (CC+SN) i.e. 298 + 6 digits: +298 20.....; +298 3.....; +298 4.....; +298 6.....; +298 8.....; +298 90....
Translation: E.212 -> E.214 28801 -> 29824

History of changes

Date	Description
2022-08-24	MSISDN 29891x number range added.
2022-04-28	Number range 29896 added
2022-03-02	MSISDN and number portability ranges updated.
2020-10-02	Routing Information MNP updated

INTERNATIONAL SCCP GATEWAY

TADIG code: FROFT

Section ID: 5 (Optional)

Effective date of change: 2022-11-21

International SCCP carrier list	
SCCP carrier name:	Arelion
Connectivity information:	Primary
Comments:	Default Primary
MNO TADIG code list:	
DPC info:	
Signature:	S STP 1
Type:	Standalone STP
International DPC:	2.81.1
Comments:	(0-4745) Loadsharing with S STP 2
DPC info:	
Signature:	S STP 2
Type:	Standalone STP
International DPC:	2.81.2
Comments:	(0-4746) Loadsharing with S STP 1
SCCP carrier name:	Syniverse Technologies, Inc. (ANSI)
Connectivity information:	Primary
MNO TADIG code list:	
DPC info:	
Signature:	Syniverse ANSI
Type:	ANSI_STP
International DPC:	235.250.0
Comments:	For ANSI/ITU translation only

History of changes

Date	Description
2022-11-21	iBasis removed
2022-03-07	SCCP carrier name modified
2022-03-02	Added new primary SCCP Carrier

SCCP Protocol available at PMN for connection for International SS7 Roaming

TADIG code: FROFT

Section ID: 7 (Optional)

Effective date of change: 2019-10-23

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

History of changes

SUBSCRIBER IDENTITY AUTHENTICATION

TADIG code: FROFT

Section ID: 8 (Optional)

Effective date of change: 2019-10-24

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

Test Numbers Information

TADIG code: FROFT

Section ID: 9 (Optional)

Effective date of change: 2022-08-24

Number Type	Test Number	Location	Comments
AAC	+298 243999	GSM network	Voicemail
AAC	+298 210632	GSM network	Voicemail
AAC	+298 220071	GSM network	Voicemail
AAC	+298 239779	GSM network	Voicemail
AAC	+298 243809	GSM network	Voicemail
AAC	+298 283809	GSM network	Voicemail
AAC	+298 250574	GSM network	Voicemail
AAC	+298 260952	GSM network	Voicemail
AAC	+298 272260	GSM network	Voicemail
AAC	+298 299999	GSM network	Voicemail
AAC	+298 789999	GSM network	Voicemail
AAC	+298 790999	GSM network	Voicemail
AAC	+298 308110	Fixed network	Test tone
AAC	+298 315333	Fixed network	Test tone
AAC	+298 340100	Fixed network	Test tone
AAC	+298 350210	Fixed network	Test tone
AAC	+298 453333	Fixed network	Test tone
AAC	+298 401300	Fixed network	Test tone
AAC	+298 410100	Fixed network	Test tone
AAC	+298 470030	Fixed network	Test tone
AAC	+298 609999	VoIP network	Voicemail
AAC	+298 619999	VoIP network	Voicemail
AAC	+298 629999	VoIP network	Voicemail
AAC	+298 660999	VoIP network	Voicemail
AAC	+298 910003	GSM network	Voicemail
AAC	+298 940960	GSM network	Voicemail
AAC	+298 960000	GSM network	Voicemail

History of changes

Date	Description
2022-08-24	AAC test numbers added.

MOBILE APPLICATION PART (MAP)

TADIG code: FROFT

Section ID: 10 (Optional)

Effective date of change: 2019-10-24

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	-	N/A	-	
locationSvcGateway	N/A	N/A	-	
mm-EventReporting	MAPv3	N/A	-	
authenticationFailureReport	-	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

NETWORK ELEMENTS INFORMATION

TADIG code: FROFT

Section ID: 13 (Optional)

Effective date of change: 2022-03-02

Node type	Node ID	GT address / Address range	IP address / Address range	IPv6 address / Address range	Vendor info	SW / HW version	UTC offset
MSC/VLR-2G+3G	FTMSC	298 24 9032 / 9032			Huawei	MSOFT/ V200R010C20S	+00:00 PC100
HSS	FTHSS	298 24 9030 / 9030			Huawei	HSS/ V900R009C00S	+00:00 PC200
SMSC	vSMSC1	298 24 9020 / 9020			Symsoft	Symsoft Nobill	+00:00
SMSC	vSMSC2	298 24 9023 / 9023			Symsoft	Symsoft Nobill	+00:00
SMSC	vSMSC1	298 24 9026 / 9027			Symsoft	Symsoft Nobill	+00:00
SMSC	vSMSC2	298 24 9028 / 9029			Symsoft	Symsoft Nobill	+00:00
SGSN-2G+3G	frdc1_vUSN	298 24 9060 / 9060	185.74.208.21/30		Huawei	V100R019C10S	PC1200
MME	frdc1_vUSN	298 24 9060 / 9060	185.74.208.21/30		Huawei	V100R019C10S	PC1200
PGW	frdc1_vCGW		185.74.208.17		Huawei	V100R019C10S	PC1200
SGSN-2G+3G	frdc2_vUSN	298 24 9061 / 9061	185.74.208.29/30		Huawei	V100R019C10S	PC1200
MME	frdc2_vUSN	298 24 9061 / 9061	185.74.208.29/30		Huawei	V100R019C10S	PC1200
PGW	frdc2_vCGW		185.74.208.25		Huawei	V100R019C10S	PC1200

History of changes

Date	Description
2022-03-02	SMSC node id changes
2020-10-08	Network elements updated
2020-10-02	Network Nodes 2G, 3G, 4G and 5G updated

USSD Information

TADIG code: FROFT

Section ID: 14 (Optional)

Effective date of change: 2019-10-23

USSD capability available	No
Supported phase	Phase 2

History of changes

CAMEL INFO

TADIG code: FROFT

Section ID: 15 (Conditional)

Effective date of change: 2022-03-02

gsmSSF/MSC

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

CAMEL Functionality Information

Service(s) Name	SK	CAP Version	SCP GT addresses
Prepaid	32	CAPv2	298249050 298249051 298249052 298249053 298249014 298249016

CAPv4 Partial Implementations

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

History of changes

Date	Description
2022-03-02	CAMEL SCP GT addr. 298249011 and 298249013 removed

Packet Data Services Information

TADIG code: FROFT

Section ID: 16 (Conditional)

Effective date of change: 2019-10-24

List of APN Operator Identifiers

APN Operator Identifier	Description	Example
mnc001.mcc288.gprs		

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			
internet			H-APN	10.159.10.20	10.159.10.21

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

List of 2G/3G QOS profiles

Profile name:	QoS 3G
Traffic class:	Interactive
ARP:	1
Evolved ARP support:	No
Evolved ARP priority level:	1
Evolved APR preemption vulnerability list:	
Evolved APR preemption capability list:	
Maximum bit rate uplink:	244
Maximum bit rate downlink:	254
Delivery order:	No
Maximum SDU size:	150
SDU error ratio:	1*10 ⁻⁴
Residual BER:	1*10 ⁻⁵
Delivery of erroneous SDU:	No
Guaranteed bit rate uplink:	64
Guaranteed bit rate downlink:	104
Traffic handling priority:	3

GTP Version

SGSN	GTPv1
GGSN	GTPv1

List of Data Service supported

2G Data Services	Multislot Class Capability
GPRS	

3G Data Services	UE 3G Category
3GPP	

Multiple PDP Context Support	
Number of Primary PDP Context	Not supported

History of changes

IP - Roaming and IP - Interworking Information

TADIG code: FROFT

Section ID: 17 (Conditional)

Effective date of change: 2022-11-21

List of All IP address ranges used by PMN for connection to inter - PMN IP backbone	IP Address Range
	185.74.208.0/27

List of Autonomous System Number (ASN):	ASN
	64796

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
185.74.208.2		eDNS0 (pingable)
185.74.208.10		eDNS1 (pingable)
185.74.208.3		eDNS2 (pingable)
185.74.208.11		eDNS3 (pingable)

List of GRX Providers	GRX Provider
	Arelion

History of changes

Date	Description
2022-11-21	iBasis removed
2022-03-02	New GRX provider added
2019-11-06	All DNS servers updated to Authoritative serves.
2019-10-24	Authoritative DNS servers 'FTEDNS01' and 'FTEDNS02' removed and out off service.

LTE Roaming Information

TADIG code: FROFT

Section ID: 20 (Optional)

Effective date of change: 2022-11-21

IPX Provider Name	IPX DA Realm Used	Diameter Architecture
Arelion	signal.teliasonera.ipxnetwork.org	
Primary IP address of DA	Secondary IP address of DA	

Roaming Interconnection

EPC Realms For Roaming	
	epc.mnc001.mcc288.3gppnetwork.org

FQDN Diameter Edge Agent

FQDN	Primary IP Address DEA FQDN	Secondary IP Address DEA FQDN
dea1.signal.teliasonera.ipxnetwork.org	80.239.164.1	80.239.164.65
dea1b.signal.teliasonera.ipxnetwork.org	80.239.164.66	80.239.164.2
dea2.signal.teliasonera.ipxnetwork.org	80.239.164.129	80.239.164.193
dea2b.signal.teliasonera.ipxnetwork.org	80.239.164.194	80.239.164.130

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

SMS ITW

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

Voice ITW

CSFB

Roaming CS Fallback

Roaming Retry (MTRR)

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

List of LTE QoS profiles

Profile name:	QoS 4G
QCI Value List:	5 6 7 8 9 65 69 70
QOS ARP List:	1
ARP Preemption Vulnerability List:	1
ARP Preemption Capability List:	1

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
2022-11-21	iBasis removed.
2022-11-21	iBasis removed
2022-03-03	Roming CS fallback updated
2022-03-02	Added new IPX provider
2022-03-02	List of LTE QOS profiles updated

CONTACT INFORMATION

TADIG code: FROFT

Section ID: 21 (Optional, Repeating)

Effective date of change: 2019-10-24

List of Roaming Troubleshooting Contact Information

Roaming Troubleshooting Contact Information

Location		Tórshavn	
Office Time Zone in UTC		+00:00	
Office Hours	Week Day (s)	Start Time	End Time
	Mon Tue Wed Thu	08:00:00	16:00:00
	Fri	08:00:00	15:30:00

Main Contact for Troubleshooting (Office Hours)

Team Name	Tel.	Mobile	Fax	Email
FT Roaming Team	+298303030			ftroaming@ft.fo

Escalation Contact for Troubleshooting

Person Name	Tel.	Mobile	Fax	Email
Mr. Ólavur Dam Jacobsen	+298303533	+298243533		odj@ft.fo

24 x 7 Troubleshooting (contact out of Office Hours)

Team Name	Tel.	Mobile	Fax	Email
Not Applicable				

Roaming Troubleshooting Contact Information

Location		Tórshavn	
Office Time Zone in UTC		+00:00	
Office Hours	Week Day (s)	Start Time	End Time
	Mon Tue Wed Thu	08:00:00	16:00:00
	Fri	08:00:00	15:30:00

Main Contact for Troubleshooting (Office Hours)

Team Name	Tel.	Mobile	Fax	Email
FT Roaming Team	+298303030			ftroaming@ft.fo

Escalation Contact for Troubleshooting

Person Name	Tel.	Mobile	Fax	Email
Mr. Ólavur Dam Jacobsen	+298303533	+298243533		odj@ft.fo

24 x 7 Troubleshooting (contact out of Office Hours)

Team Name	Tel.	Mobile	Fax	Email
Not Applicable				

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. Ólavur Dam Jacobsen	+298303533	+298243533	
JobTitle		Email	
Switching Engineer		odj@ft.fo	

Roaming Coordinator

Person Name	Tel.	Mobile	Fax
Mrs. Eydna E. Petersen	+298303604	+298243604	
JobTitle		Email	
IR Coordinator and TADIG		eep@ft.fo	

IREG Tests

Person Name	Tel.	Mobile	Fax
Mr. Kári Planck	+298303082	+298243082	
JobTitle		Email	
IREG, TADIG and Billing		kp@ft.fo	

TADIG Tests

Person Name	Tel.	Mobile	Fax
Mrs. Eydna E. Petersen	+298303604	+298243604	
JobTitle		Email	
IR Coordinator and TADIG		eep@ft.fo	

CAMEL Tests

Person Name	Tel.	Mobile	Fax
Mr. Kári Planck	+298303082	+298243082	

JobTitle	Email
IREG, TADIG and Billing	kp@ft.fo

IR21 Distribution Email Address	Email
	ftroaming@ft.fo

History of changes

SECTIONS NOT IN USE

TADIG Code	Section ID	Section Name
FROFT	6	Domestic SCCP Gateway
FROFT	11	MAP Optimal Routing Section
FROFT	12	MAP Inter Operator SMS Enhancement
FROFT	18	MMS Interworking Information
FROFT	19	WLAN Information
FROFT	22	Hosted Networks
FROFT	23	M2M Roaming Information
FROFT	24	MVNO Information
FROFT	26	VoLTE Roaming Information Section
FROFT	27	LPWA Roaming Information Section