GSMA Roaming Database IR. 21 Data

RAEX IR. 21 Information

Creation date:	2015-06-18
Creation time:	10:50:01+02:00
TADIG-GEN schema version:	2.4
RAEX-IR.21 schema version:	9.2

ORGANISATION INFORMATION

TADIG code: SWEIQ Section ID: 1 (Mandatory)

Organisation name:	Tele2 AB
Country initials:	SWE

History of changes

SWEIQ 4 Routing Information 2015-06-18 Added MSISDN range 46719100300000 - 467191 SWEIQ 17 IP Roaming/Networking Information 2015-05-08 IP backbone update 89.146.219.248/29 SWEIQ 5 International SCCP Gateway 2015-05-06 Minor change SWEIQ 10 MAP 2015-05-06 Map info updated SWEIQ 10 MAP 2015-05-06 Map information updated SWEIQ 21 Contact Information 2015-05-06 Minor change SWESM 21 Contact Information 2015-05-06 Minor change SWEIQ 8 Subscriber Identity Authentication 2015-05-06 Minor change SWEIQ 8 Subscriber Identity Authentication 2015-05-05 Subscriber Identification Authentication updated SWEIQ 8 Subscriber Identity Authentication 2015-05-05 Subscriber Identification Authentication updated SWEIQ 10 LTE Roaming Information 2015-05-05 LTE QoS Profile List SWEIQ 17 IP Roaming/Networking Information 2015-04-08	00399999
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SWEIQ 13 Network Elements Information 2015-04-09 Removed SHLR Network Node	
SWEIQ 16 Packet Data Service Information 2015-04-09 Modified SWESM Info	
SWEIQ 17 IP Roaming/Networking Information 2015-04-09 Moved IP-Backbone to SWESM section (212.247.1	63.160/27)
SWESM 4 Routing Information 2015-04-09 Added Number Series for SWESM	
SWESM 5 International SCCP Gateway 2015-04-09 Added Comfone for SWESM	
SWESM 5 International SCCP Gateway 2015-04-09 Update Effective Date of Change	
SWESM 13 Network Elements Information 2015-04-09 Added SHLR Network Node	
SWESM 16 Packet Data Service Information 2015-04-09 Add ARP SWESM	
SWESM 16 Packet Data Service Information 2015-04-09 Added SWESM info	
SWESM 17 IP Roaming/Networking Information 2015-04-09 Added IP backbone (212.247.163.160/27) SWESM	
SWESM 21 Contact Information 2015-04-09 SCCP Contacts Added	
SWESM 21 Contact Information 2015-04-09 Modify Contact info, SWESM	
SWESM 21 Contact Information 2015-04-09 Added IR.21 Distribution Email address list SWESM	1
SWESM 21 Contact Information 2015-04-09 Added Additional Contacts SWESM	
SWESM 21 Contact Information 2015-04-09 Add Roaming Troubleshooting Contact SWESM	
SWEIQ 4 Routing Information 2015-03-23 add MVNO Austria: Tele2 info	
SWEIQ 4 Routing Information 2015-03-18 Added CCITT E.164 Number Series	
SWEIQ 4 Routing Information 2015-03-18 Added CCITT E.164 Number Series	
SWEIQ 4 Routing Information 2015-03-18 Removed Network Nodes Global Title Number Ran	ges
SWEIQ 4 Routing Information 2015-03-13 Added CCITT E.164 Number Series	
SWEIQ 4 Routing Information 2015-03-13 Added CCITT E.164 Number Series	
SWEIQ 13 Network Elements Information 2015-03-13 Removed SGSN node (NSN SGSN BCKS 4670796	3184)
SWEIQ 21 Contact Information 2015-03-13 Update Contacts	
SWEIQ 13 Network Elements Information 2015-02-18 Added SHLR info	
SWEIQ 13 Network Elements Information 2015-02-18 Added SHLR info	

TADIG Code	Section ID	Section	Date	Description
SWEIQ	16	Packet Data Service Information	2015-02-18	Added APN WEB List Info
SWEIQ	17	IP Roaming/Networking Information	2015-02-18	Added IP-Backbone range: 212.247.163.160/27
SWEIQ	17	IP Roaming/Networking Information	2015-02-18	Added ASN number
SWEIQ	4	Routing Information	2015-02-17	Added Network Nodes Global Title Number Range. Removed USSD SIM Header
SWEIQ	20	LTE Roaming Information	2015-02-17	Added M2M S6a Hostname
SWEIQ	4	Routing Information	2015-02-11	Added information regarding MVNO Tele2 Austria
SWEIQ	4	Routing Information	2015-02-11	Add new MSISDN Ranges
SWEIQ	16	Packet Data Service Information	2015-02-11	Changed IPv6 Connectivity to reflect support of both IPv6 and IPv4v6
SWEIQ	4	Routing Information	2015-01-09	Edit change log
SWEIQ	4	Routing Information	2015-01-09	Add MSISDN number Range
SWEIQ	21	Contact Information	2015-01-09	Change TADIG Code
SWEIQ	17	IP Roaming/Networking Information	2014-11-11	Added IP backbone ranges 193.216.125.0/25 and 193.216.125.128/25
SWEIQ	4	Routing Information	2014-10-24	Add new MSISDN Range. 46764940 000; 467649410 00; 46764941100; 46764941200; 46764941300; 46764941400
SWEIQ	4	Routing Information	2014-10-24	Update MSISDN Range
SWEIQ	4	Routing Information	2014-10-24	Add MSISDN Number Range
SWEIQ	4	Routing Information	2014-10-24	Add MSISDN Number Range
SWEIQ	20	LTE Roaming Information	2014-10-02	LTE Hostname update
SWEIQ	18	MMS Interworking Information	2014-09-10	Minor Changes
SWEIQ	20	LTE Roaming Information	2014-09-10	Changed Roaming Retry function to No
SWEIQ	4	Routing Information	2014-05-12	Changed MSISDN range 46767259899 is now the last MSISDN istead of 46767259999
SWEIQ	18	MMS Interworking Information	2014-04-30	correct TADIG code was advised
SWEIQ	20	LTE Roaming Information	2014-04-30	LTE information added
SWEIQ	20	LTE Roaming Information	2014-04-30	LTE information added
SWEIQ	20	LTE Roaming Information	2014-04-30	LTE information added
SWEIQ	20	LTE Roaming Information	2014-04-30	LTE information added
SWEIQ	20	LTE Roaming Information	2014-04-30	LTE information added
SWEIQ	21	Contact Information	2014-04-30	Contacts update
SWEIQ	21	Contact Information	2014-04-30	Contacts update
SWEIQ	21	Contact Information	2014-04-30	Contact Updated
SWEIQ	21	Contact Information	2014-04-30	Contact info
SWEIQ	20	LTE Roaming Information	2014-04-24	S6a Hostnames added
SWEIQ	21	Contact Information	2014-04-24	Contact Updated
SWEIQ	20	LTE Roaming Information	2014-04-22	DEA 193.216.123.128/29 and 193.216.123.130/131 MultiHoming 193.216.123.132 & 193.216.123.133 SingleHoming
SWEIQ	13	Network Elements Information	2013-12-16	Modified SMSC Addresses to make easier to implement (No overall Changes made)
SWEIQ	4	Routing Information	2013-12-02	Added 2 MSISDN ranges 4671900008 and 467190006 please note that they are longer than the usual MSISDN length
SWEIQ	5	International SCCP Gateway	2013-12-02	Added Comfone as SCCP Carrier
SWEIQ	16	Packet Data Service Information	2013-12-02	Qos 2G/3G
SWEIQ	13	Network Elements Information	2013-11-07	Added New HLRs 46707990027, 46707990082, 46707990083 & 46707990084
SWEIQ	17	IP Roaming/Networking Information	2013-11-07	Subnetting added to 62.135 ranges
SWEIQ	18	MMS Interworking Information	2013-11-07	Incorrect TADIG code was advised

TADIG Code	Section ID	Section	Date	Description
SWEIQ	4	Routing Information	2013-08-23	Added Network Nodes Global Title Number Ranges 46738680000-46738689999, 46738660000-46738669999 and 46738670000-46738679999
SWEIQ	4	Routing Information	2013-08-20	Added Network Nodes Global Title Number Ranges 46738680000-46738689999, 46738660000-46738669999 and 46738670000-46738679999
SWEIQ	4	Routing Information	2013-08-15	Added Number Ranges 46738660000-46738669999 and 46738670000-46738679999
SWEIQ	13	Network Elements Information	2013-08-15	corrected UTC Offset time for M2M nodes
SWEIQ	13	Network Elements Information	2013-07-31	Changed MMSC Vendor
SWEIQ	4	Routing Information	2013-07-30	Updated Network Norway (CC: 47) NDC
SWEIQ	21	Contact Information	2013-07-30	Updated IREG Contacts
SWEIQ	21	Contact Information	2013-07-30	added roaming contact
SWEIQ	4	Routing Information	2013-07-25	Added Number Ranges 46721490000-46721494999, 46738680000-46738689999
SWEIQ	13	Network Elements Information	2013-06-19	Added M2M HLR 46707990051 46707990052 46707990050 and M2M SMSC 46707990059 46707990060 46707990061 46707990062 46707990063
SWEIQ	4	Routing Information	2013-05-29	Added E.164 Number Ranges
SWEIQ	17	IP Roaming/Networking Information	2013-03-19	Added IP backbone ranges 213.102.161.0/24 and 213.102.162.0/24
SWEIQ	15	CAMEL Information	2013-03-14	Added additional GT address 46707000078, 46707000079 for IN8 Prepaid node
SWEIQ	4	Routing Information	2013-03-13	Added range 46 254 as a prefix for voicemail abroad
SWEIQ	4	Routing Information	2013-03-13	Added Tele2 Russia NDCs: 90000, 90001, 90002, 90056, 90057, 900901, 900902, 900903, 900904, 900905, 900906, 900907, 900908, 900909, 90091, 900920, 952665, 952666, 952667, 952668, 952669
SWEIQ	15	CAMEL Information	2013-03-13	Added GT address 46707000080 for IN8 Prepaid node
SWEIQ	13	Network Elements Information	2013-01-03	Added new GGSN ranges to IP backbone range and network element info: 62.135.164.225, 62.135.165.105, 62.135.164.169, 62.135.165.161 (Shared with with TDC denmark)
SWEIQ	13	Network Elements Information	2013-01-03	Clarified the following GGSN ranges by adding them under network element Info: 130.244.209.0/24 , 130.244.214.0/24 (Shared with other T2 Countries)
SWEIQ	13	Network Elements Information	2013-01-03	Added new SMSC address 46707990020. This will be replacing 46707990056 that should be blocked for both MAP and SCCP due to fraud issues.
SWEIQ	17	IP Roaming/Networking Information	2012-12-14	Removed backbone IP range 130.244.236/24 , since it was colliding with HRVT2 SGSN ranges.
SWEIQ	16	Packet Data Service Information	2012-10-26	Removed Wap Gateway
SWEIQ	17	IP Roaming/Networking Information	2012-10-26	Added new SGSN ranges 213.100.36.0/27 & 213.101.221.0 /27 to PMN IP Backbone.
SWEIQ	21	Contact Information	2012-09-26	Changed IREG Contact Info
SWEIQ	4	Routing Information	2012-08-07	Added Tele2 Russia NDCs: 7900405, 7900406, 7900407, 7900408, 7900409, 790041, 790042, 790043, 7900440, 7900441, 7900442, 7900443, 7900444, 7900445, 790049, 790052, 790053, 790090, 7900910, 790099, 7952665, 7952666, 7952667, 7952668, 7952669,
SWEIQ	17	IP Roaming/Networking Information	2012-08-06	Changed IP backbone range 130.244.210.0/24 back to 130.244.210.0/25 (130.244.210.128/25 is used by other Tele2 countries)
SWEIQ	21	Contact Information	2012-07-31	Added IREG tester
SWEIQ	17	IP Roaming/Networking Information	2012-07-30	Changed IP range 130.244.210.0/25 to /24
SWEIQ	21	Contact Information	2012-07-30	Added Troubleshooting Escalation Contact
SWEIQ	21	Contact Information	2012-07-30	Added new contact info for IREG
SWEIQ	4	Routing Information	2012-05-16	USIM/SIM Header info 894620 added

TADIG Code	Section ID	Section	Date	Description
SWEIQ	4	Routing Information	2012-03-30	Added Tele2 Norway NDCs CC 47 NDCs: 9790, 9791, 9792, 9793, 9794, 9810, 9811, 9812, 9813, 9814
SWEIQ	4	Routing Information	2012-03-30	Changed SCCP Carrier for Tele2 Norway to Comfone - same as for Tele2 Sweden
SWEIQ	4	Routing Information	2012-03-26	Added Tele2 Russia NDCs CC:7 NDCs: 90045X (X=5-9), 90046X (X=0-4), 900471X (X=5-9) 90047X (X=2-9), 90048X (X=0-2), 900483X (X=0-4)
SWEIQ	4	Routing Information	2012-01-19	Updated numberportability info
SWEIQ	4	Routing Information	2012-01-09	Added missing info for number to call for tariff information. Added info about imsi series used by Tele2 NL when roaming.
SWEIQ	17	IP Roaming/Networking Information	2011-12-16	Updated RAI section with mccmnc 24024 and 24005
SWEIQ	17	IP Roaming/Networking Information	2011-12-01	Removed IP range 62.58.34.128/26 and removed AS 13127, 13104, 25240 and 64625.
SWEIQ	21	Contact Information	2011-12-01	Updated Escalation Contact
SWEIQ	4	Routing Information	2011-11-30	Added 2G and 4G network code 24024 for shared 2G/4G network with Telenor Sweden
SWEIQ	17	IP Roaming/Networking Information	2011-10-31	New SGSN backbone IP range 90.131.10.64/26
SWEIQ	4	Routing Information	2011-09-08	Added NDCs 467283, 467284, 467285, 467286, 467287
SWEIQ	17	IP Roaming/Networking Information	2011-09-08	Removed IP backbone range 88.129.1.0/28

NETWORK

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

TADIG code:	SWEIQ
Network type:	Terrestrial
Presentation of country initials and MNN:	Tele2 Comviq SE
Abbreviated MNN:	-
Network colour code:	-

NETWORK INFORMATION

TADIG code: SWEIQ Section ID: 3 (Mandatory)

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

ROUTING INFORMATION

TADIG code: SWEIQ Section ID: 4 (Mandatory) Effective date of change: 2015-06-18

CCITT E.164 Number series	Country Code (CC)	National Destination Code (NDC)	SN Range Start	SN Range Stop	Primary International DPC	Secondary International DPC
MSISDN number ranges (s)		1				
	46	252	000000000	999999999		
	46	254	000000000	999999999		
	46	676	000000000	999999999		
	46	700	000000	999999		
	46	701	500000	599999		
	46	701	600000	699999		
	46	704	000000	999999		
	46	707	000000	999999		
	46	719	0000800000	0000899999		
	46	719	0006000000	0006499999		
	46	720	000000	499999		
	46	722	500000	999999		
	46	728	300000	799999		
	46	729	000000	499999		
	46	732	100000	199999		
	46	732	200000	299999		
	46	735	500000	999999		
	46	736	000000	999999		
	46	737	000000	999999		
	46	738	700000	799999		
	46	738	900000	999999		
	46	739	000000	999999		
	46	760	500000	999999		
	46	762	000000	999999		
	46	764	000000	299999		
	46	764	700000	779999		
	46	764	940000	940999		
	46	764	941000	941099		
	46	764	941100	941199		
	46	764	941200	941299		
	46	764	941300	941399		
	46	764	941400	941499		
	46	766	500000	599999		
	46	766	800000	899999		
	46	766	950000	999999		
	46	767	000000	099999		
	46	767	100000	199999		
	46	767	200000	259999		
	46	767	267300	267399		
	46	769	000000	499999		
	46	721	490000	490999		

CCITT E.164 Number series	Country Code (CC)	National Destination Code (NDC)	SN Range Start	SN Range Stop	Primary International DPC	Secondary International DPC
MSISDN number ranges (s)			l .			
	46	721	491000	491999		
	46	721	492000	492999		
	46	721	493000	493999		
	46	721	494000	494999		
	46	738	660000	669999		
	46	738	670000	679999		
	46	738	680000	686999		
	46	764	950000	959999		
	46	764	960000	969999		
	46	721	450000	459999		
	46	721	460000	469999		
	46	721	470000	479999		
	46	721	480000	489999		
	46	767	200000	209999		
	46	767	210000	219999		
	46	767	220000	229999		
	46	767	230000	239999		
	46	767	240000	249999		
	46	767	250000	259899		
	46	738	689000	689999		
	46	719	0005500000	0005599999		
	46	710	0000600000	0000699999		
	46	719	1003000000	1003999999		
Network Nodes Global Title Num	nber Range(s)					
	46	707	000000	999999		
	46	737	000000	999999		
	46	765	000000	999999		
MSRN Number Range(s)						
	46	707	000000	999999		
	46	737	000000	999999		
	46	739	000000	999999		

E. 212 Number series	Mobile Country Code (MCC)	Mobile Network Code (MNC)
	240	07

E. 214 Mobile Global Title (MGT)	Country Code of MGT (CC)	Network Code of MGT (NC)
	46	707

Does Number Portability apply ?	Yes
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E. 164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	46	70	1000000	1009999
	46	70	1010000	1019999
	46	70	1020000	1029999
	46	70	1030000	1039999
	46	70	1040000	1049999
	46	70	1050000	1059999
	46	70	1060000	1069999

164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	46	70	1070000	1079999
	46	70	1080000	1089999
	46	70	1090000	1099999
	46	70	1100000	1109999
	46	70	1110000	1119999
	46	70	1120000	1129999
	46	70	1130000	1139999
	46	70	1140000	1149999
	46	70	1150000	1159999
	46	70	1160000	1169999
	46	70	1170000	1179999
	46	70	1180000	1189999
	46	70	1190000	1199999
	46	70	1200000	1209999
	46	70	1210000	1219999
	46	70	1220000	1229999
	46	70	1230000	1239999
	46	70	1240000	1249999
	46	70	1250000	1259999
	46	70	1260000	1269999
	46	70	1270000	1279999
	46	70 70	1280000	1289999
	46		1290000	1299999 1300099
	46	70	1300000	
	46	70 70	1300100	1300199
	46 46	70	1300200 1300300	1300299 1300399
	46	70	1300300	1300399
	46	70	1300500	1300499
	46	70	1300600	1300599
	46	70	1300700	1300799
	46	70	1300800	1300733
	46	70	1300900	1300999
	46	70	1301000	1301999
	46	70	1302000	1302999
	46	70	1303000	1303999
	46	70	1304000	1304999
	46	70	1305000	1305999
	46	70	1306000	1306999
	46	70	1307000	1307999
	46	70	1308000	1308999
	46	70	1309000	1309999
	46	70	1310000	1319999
	46	70	1320000	1320999
	46	70	1321000	1321999
	46	70	1322000	1322999
	46	70	1323000	1323999
	46	70	1324000	1324999
	46	70	1325000	1325999
	46	70	1326000	1326099
	46	70	1326100	1326199
	46	70	1326200	1326299
	46	70	1326300	1326399
	46	70	1326400	1326499
	46	70	1326500	1326599
	46	70	1326600	1326699
	46	70	1326700	1326799
	46	70	1326800	1326899
	46	70	1326900	1326999
	46	70	1327000	1327099
	46	70	1327100	1327199
	46	70	1327200	1327299
	46	70	1327300	1327399
	46	70	1327400	1327499
	46	70	1327500	1327599
	46	70	1327600	1327699
	-	•	-	-

164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Sto
	46	70	1327700	1327799
	46	70	1327800	1327899
	46	70	1327900	1327999
	46	70	1328000	1328999
	46	70	1329000	1329099
	46	70	1329100	1329199
	46	70	1329200	1329299
	46	70	1329300	1329399
	46	70	1329400	1329499
	46	70	1329500	1329599
	46	70	1329600	1329699
	46	70	1329700	1329799
	46	70	1329800	1329899
	46	70	1329900	1329999
	46	70	1330000	1330099
	46	70	1330100	1330199
	46	70	1330200	1330299
	46	70	1330300	1330399
	46	70	1330400	1330499
	46	70	1330500	1330599
	46	70	1330600	1330699
	46	70	1330700	1330799
	46	70	1330800	1330899
	46	70	1330900	1330999
	46	70	1331000	1331099
	46	70	1331100	1331199
	46	70	1331200	1331299
	46	70	1331300	1331399
	46	70	1331400	1331499
	46	70	1331500	1331599
	46	70	1331600	1331699
	46	70	1331700	1331799
	46	70	1331800	1331899
	46	70	1331900	1331999
	46	70	1332000	1332099
	46	70	1332100	1332199
	46	70	1332200	1332299
	46	70	1332300	1332399
	46	70	1332400	1332499
	46	70	1332500	1332599
	46	70	1332600	1332699
	46	70	1332700	1332799
	46	70	1332800	1332899
	46	70	1332900	1332999
	46	70	1333000	1333099
	46	70	1333100	1333199
	46	70	1333200	1333299
	46	70	1333300	1333399
	46	70	1333400	1333499
	46	70	1333500	1333599
	46	70	1333600	1333699
	46	70	1333700	1333799
	46	70	1333800	1333899
	46	70	1333900	1333999
	46	70	1334000	1334099
	46	70	1334100	1334199
	46	70	1334200	1334299
	46	70	1334300	1334399
	46	70	1334400	1334499
	46	70	1334500	1334599
	46	70	1334600	1334699
	46	70	1334700	1334799
	46	70	1334800	1334899
	46	70	1334900	1334999
	46	70	1335000	1335999
	46	70	1336000	1336099

164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	46	70	1336100	1336199
	46	70	1336200	1336299
	46	70	1336300	1336399
	46	70	1336400	1336499
	46	70	1336500	1336599
	46	70	1336600	1336699
	46	70	1336700	1336799
	46	70	1336800	1336899
	46	70	1336900	1336999
	46	70	1337000	1337099
	46	70	1337100	1337199
	46	70	1337200	1337299
	46	70	1337300	1337399
	46	70	1337400	1337499
	46	70	1337500	1337599
	46	70	1337600	1337699
	46	70	1337700	1337799
	46	70	1337800	1337899
	46	70	1337900	1337999
	46	70	1338000	1338999
	46	70	1339000	1339099
	46	70	1339100	1339199
	46	70	1339200	1339299
	46	70	1339300	1339399
	46	70	1339400	1339499
	46 46	70 70	1339500 1339600	1339599 1339699
	46	70	1339700	1339799
	46	70	1339800	1339899
	46	70	1339900	1339999
	46	70	1340000	1340099
	46	70	1340100	1340199
	46	70	1340200	1340299
	46	70	1340300	1340399
	46	70	1340400	1340499
	46	70	1340500	1340599
	46	70	1340600	1340699
	46	70	1340700	1340799
	46	70	1340800	1340899
	46	70	1340900	1340999
	46	70	1341000	1341999
	46	70	1342000	1342999
	46	70	1343000	1343099
	46	70	1343100	1343199
	46	70	1343200	1343299
	46	70	1343300	1343399
	46	70	1343400	1343499
	46	70	1343500	1343599
	46	70	1343600	1343699
	46	70	1343700	1343799
	46	70	1343800	1343899
	46	70	1343900	1343999
	46	70	1344000	1344099
	46	70	1344100	1344199
	46	70	1344200	1344299
	46	70	1344300	1344399
	46	70	1344400	1344499
	46	70	1344500	1344599
	46	70	1344600	1344699
	46	70	1344700	1344799
	46	70	1344800	1344899
	46	70	1344900	1344999
	46	70	1345000	1345099
	46	70	1345100	1345199
	46	70	1345200	1345299
	46	70	1345300	1345399

464 Number Denges due to Number Denge 1994	00	NDC	CN Dames Of and	CN Damara Of
164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	46 46	70 70	1345400 1345500	1345499 1345599
	46	70 70	1345600 1345700	1345699 1345799
	46 46	70		
	46	70	1345800	1345899
	46	70	1345900 1346000	1345999 1346999
	46	70	1347000	1347999
	46	70	1348000	1348999
	46	70	1349000	1349999
	46	70	1350000	1350099
	46	70	1350100	1350199
	46	70	1350200	1350299
	46	70	1350300	1350399
	46	70	1350400	1350499
	46	70	1350500	1350599
	46	70	1350600	1350699
	46	70	1350700	1350799
	46	70	1350800	1350899
	46	70	1350900	1350999
	46	70	1351000	1351099
	46	70	1351100	1351199
	46	70	1351200	1351299
	46	70	1351300	1351399
	46	70	1351400	1351499
	46	70	1351500	1351599
	46	70	1351600	1351699
	46	70	1351700	1351799
	46	70	1351800	1351899
	46	70	1351900	1351999
	46	70	1352000	1352099
	46	70	1352100	1352199
	46	70	1352200	1352299
	46	70	1352300	1352399
	46	70	1352400	1352499
	46	70	1352500	1352599
	46	70	1352600	1352699
	46	70	1352700	1352799
	46	70	1352800	1352899
	46	70	1352900	1352999
	46	70	1353000	1353099
	46	70	1353100	1353199
	46	70	1353200	1353299
	46	70	1353300	1353399
	46	70	1353400	1353499
	46	70	1353500	1353599
	46	70	1353600	1353699
	46	70	1353700	1353799
	46	70	1353800	1353899
	46	70	1353900	1353999
	46	70	1354000	1354099
	46	70	1354100	1354199
	46	70	1354200	1354299
	46	70	1354300	1354399
	46	70	1354400	1354499
	46	70	1354500	1354599
	46	70	1354600	1354699
	46	70	1354700	1354799
	46	70	1354800	1354899
	46	70	1354900	1354999
	46	70	1355000	1355099
	46	70	1355100	1355199
	70			
	46	70	1355200	1355299
		70 70	1355200 1355300	1355299 1355399
	46			

64 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	46	70	1355600	1355699
	46	70	1355700	1355799
	46	70	1355800	1355899
	46	70	1355900	1355999
	46	70	1356000	1356999
	46	70	1357000	1357099
	46	70	1357100	1357199
	46	70	1357200	1357299
	46	70	1357300	1357399
	46	70	1357400	1357499
	46	70	1357500	1357599
	46	70	1357600	1357699
	46	70	1357700	1357799
	46	70	1357800	1357899
	46	70	1357900	1357999
	46	70	1358000	1358999
	46	70	1359000	1359999
	46	70	1360000	1360099
	46	70	1360100	1360199
	46	70	1360200	1360299
	46	70	1360300	1360399
	46	70	1360400	1360499
	46	70	1360500	1360599
	46	70	1360600	1360699
	46	70	1360700	1360799
	46	70	1360800	1360899
	46	70	1360900	1360999
	46	70	1361000	1361099
	46	70	1361100	1361199
	46	70	1361200	1361299
	46	70	1361300	1361399
	46	70	1361400	1361499
	46	70	1361500	1361599
	46	70 70	1361600	1361699
	46 46	70	1361700	1361799
	46	70	1361800 1361900	1361899 1361999
	46	70	1362000	1362999
	46	70	1363000	1363099
	46	70	1363100	1363199
	46	70	1363200	1363299
	46	70	1363300	1363399
	46	70	1363400	1363499
	46	70	1363500	1363599
	46	70	1363600	1363699
	46	70	1363700	1363799
	46	70	1363800	1363899
	46	70	1363900	1363999
	46	70	1364000	1364999
	46	70	1365000	1365999
	46	70	1366000	1366099
	46	70	1366100	1366199
	46	70	1366200	1366299
	46	70	1366300	1366399
	46	70	1366400	1366499
	46	70	1366500	1366599
	46	70	1366600	1366699
	46	70	1366700	1366799
	46	70	1366800	1366899
	46	70	1366900	1366999
	46	70	1367000	1367099
	46	70	1.30/100	1.36/199
	46 46	70 70	1367100 1367200	1367199 1367299
	46	70	1367200	1367299

64 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	46	70	1367600	1367699
	46	70	1367700	1367799
	46	70	1367800	1367899
	46	70	1367900	1367999
	46	70	1368000	1368999
	46	70	1369000	1369999
	46	70	1370000	1370099
	46	70	1370100	1370199
	46	70	1370200	1370299
	46	70	1370300	1370399
	46	70	1370400	1370499
	46	70	1370500	1370599
	46	70	1370600	1370699
	46	70	1370700	1370799
	46	70	1370800	1370899
	46	70	1370900	1370999
	46	70	1371000	1371999
	46	70	1372000	1372999
	46	70	1373000	1373999
	46	70	1374000	1374099
	46	70	1374100	1374199
	46	70	1374200	1374299
	46	70	1374300	1374399
	46	70	1374400	1374499
	46	70	1374500	1374599
	46	70	1374600	1374699
	46	70	1374700	1374799
	46	70	1374800	1374899
	46	70	1374900	1374999
	46	70	1375000	1375999
	46	70	1376000	1376099
	46	70	1376100	1376199
	46	70	1376200	1376299
	46	70	1376300	1376399
	46 46	70 70	1376400 1376500	1376499
	46	70	1376600	1376599 1376699
	46	70	1376700	1376799
	46	70	1376800	1376899
	46	70	1376900	1376999
	46	70	1377000	1377099
	46	70	1377100	1377199
	46	70	1377100	1377299
	46	70	1377200	1377299
	46	70	1377400	1377499
	46	70	1377400	1377599
	46	70	1377600	1377699
	46	70	1377700	1377799
	46	70	1377800	13777899
	46	70	1377900	1377999
	46	70	1378000	1378999
	46	70	1379000	1379999
	46	70	1380000	1380099
	46	70	1380100	1380199
	46	70	1380200	1380299
	46	70	1380300	1380399
	46	70	1380400	1380499
	46	70	1380500	1380599
	46	70	1380600	1380699
	46	70	1380700	1380799
	46	70	1380800	1380899
	46	70	1380900	1380999
	46	70	1381000	1381999
	46	70	1382000	1382099
		70 70	1382000 1382100	1382099 1382199

164 Number Ranges due to Number Portability	СС	NDC	SN Range Start	SN Range Stop
104 Number Names and to Number Foliability	46	70	1382300	1382399
	46	70	1382400	1382499
	46	70	1382500	1382599
	46	70	1382600	1382699
	46	70	1382700	1382799
	46	70	1382800	1382899
	46	70	1382900	1382999
	46	70	1383000	1383099
	46	70	1383100	1383199
	46	70	1383200	1383299
	46	70	1383300	1383399
	46	70	1383400	1383499
	46	70	1383500	1383599
	46	70	1383600	1383699
	46	70	1383700	1383799
	46	70	1383800	1383899
	46	70	1383900	1383999
	46	70	1384000	1384999
	46	70	1385000	1385099
	46	70	1385100	1385199
	46	70	1385200	1385299
	46	70	1385300	1385399
	46	70	1385400	1385499
	46	70	1385500	1385599
	46	70	1385600	1385699
	46	70	1385700	1385799
	46	70	1385800	1385899
	46	70	1385900	1385999
	46	70	1386000	1386099
	46	70	1386100	1386199
	46	70	1386200	1386299
	46	70	1386300	1386399
	46	70	1386400	1386499
	46	70	1386500	1386599
	46	70	1386600	1386699
	46	70	1386700	1386799
	46	70	1386800	1386899
	46	70	1386900	1386999
	46	70	1387000	1387099
	46	70	1387100	1387199
	46	70	1387200	1387299
	46	70	1387300	1387399
	46	70	1387400	1387499
	46	70	1387500	1387599
	46	70	1387600	1387699
	46	70	1387700	1387799
	46	70	1387800	1387899
	46	70	1387900	1387999
	46	70	1388000	1387999
	46	70	1389000	1388999
	46	70	139000	1390999
	46	70	1390000	1390999
	46	70	1391100	1391099
	46	70	1391200	1391199
	46	70	1391300	1391299
	46	70	1391400	1391399
	46	70	1391500	1391499
	46	70	1391500	1391599
	46	70	1391700	1391799
	46	70	1391800	1391899
	46	70	1391900	1391999
	46	70	1392000	1392099
	46	70	1392100	1392199
	46	70	1392200	1392299
		70	1 1202200	400000
	46 46	70 70	1392300 1392400	1392399 1392499

CC	NDC	SN Range Start	SN Range Stop
46	70	1392500	1392599
46	70	1392600	1392699
46	70	1392700	1392799
46	70	1392800	1392899
46	70	1392900	1392999
46	70	1393000	1393999
46	70	1394000	1394999
46	70	1395000	1395099
46	70	1395100	1395199
46	70	1395200	1395299
46	70	1395300	1395399
46	70	1395400	1395499
46	70	1395500	1395599
46	70	1395600	1395699
46	70	1395700	1395799
46	70	1395800	1395899
46	70	1395900	1395999
46	70	1396000	1396999
46	70	1397000	1397999
46	70	1398000	1398999
46	70	1399000	1399999
46	70	1400000	1409999
46	70	1410000	1419999
46	70	1420000	1429999
46	70	1430000	1439999
46	70	1440000	1449999
46	70	1450000	1459999
46	70	1460000	1469999
46	70	1470000	1479999
46	70	1480000	1489999
46	70	1490000	1499999
46	70	1510000	1519999
46	70	1520000	1529999
46	70	1530000	1539999
46	70	1540000	1549999
46	70	1550000	1559999
46	70	1560000	1569999
46	70 70	1570000	1579999
46		1580000	1589999
46	70	1590000	1599999
46	70 70	1700000 1701000	1700999 1701999
46			
46 46	70 70	1702000 1703000	1702999 1703999
46	70	1703000	1703999
46	70	1704000	1704999
	70	1705000	1705999
46 46	70	1706000	1706999
46	70	1707000	1707999
46	70	1708000	1708999
46	70	1709000	1709999
46	70	1710000	1710999
46	70	1711000	1711999
	70	1712000	1712999
	/ U	17 13000	1 1713999
46		171/1000	171/1000
46	70	1714000 1715000	1714999
46 46	70 70	1715000	1715999
46 46 46	70 70 70	1715000 1716000	1715999 1716999
46 46 46 46	70 70 70 70	1715000 1716000 1717000	1715999 1716999 1717999
46 46 46 46 46	70 70 70 70 70	1715000 1716000 1717000 1718000	1715999 1716999 1717999 1718999
46 46 46 46 46 46	70 70 70 70 70 70	1715000 1716000 1717000 1718000 1719000	1715999 1716999 1717999 1718999 1719999
46 46 46 46 46 46 46	70 70 70 70 70 70 70 70	1715000 1716000 1717000 1718000 1719000 1720000	1715999 1716999 1717999 1718999 1719999 1729999
46 46 46 46 46 46 46 46	70 70 70 70 70 70 70 70	1715000 1716000 1717000 1718000 1719000 1720000 1730000	1715999 1716999 1717999 1718999 1719999 1729999 1739999
46 46 46 46 46 46 46 46	70 70 70 70 70 70 70 70 70	1715000 1716000 1717000 1718000 1719000 1720000 1730000 1740000	1715999 1716999 1717999 1718999 1719999 1729999 1739999 1740999
46 46 46 46 46 46 46 46	70 70 70 70 70 70 70 70	1715000 1716000 1717000 1718000 1719000 1720000 1730000	1715999 1716999 1717999 1718999 1719999 1729999 1739999

164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	46	70	1741300	1741399
	46	70	1741400	1741499
	46	70	1741500	1741599
	46	70	1741600	1741699
	46	70	1741700	1741799
	46	70	1741800	1741899
	46	70	1741900	1741999
	46	70	1742000	1742999
	46	70	1743000	1743099
	46	70	1743100	1743199
	46	70	1743200	1743299
	46	70	1743300	1743399
	46	70	1743400	1743499
	46	70	1743500	1743599
	46	70	1743600	1743699
	46	70	1743700	1743799
	46	70	1743800	1743899
	46	70	1743900	1743999
	46	70	1744000	1744999
	46	70	1745000	1745999
	46	70	1746000	1746999
	46	70	1747000	1747099
	46	70	1747100	1747199
	46	70	1747200	1747299
	46	70	1747300	1747399
	46	70	1747400	1747499
	46	70	1747500	1747599
	46	70	1747600	1747699
	46	70	1747700	1747799
	46	70	1747800	1747899
	46	70	1747900	1747999
	46	70	1748000	1748999
	46	70	1749000	1749999
	46	70 70	1750000	1759999
	46		1760000	1769999
	46	70	1770000	1770999
	46	70	1771000	1771999 1772999
	46	70 70	1772000 1773000	
	46			1773099
	46	70	1773100	1773199
	46	70 70	1773200 1773300	1773299 1773399
	46			
	46 46	70 70	1773400 1773500	1773499 1773599
	46	70	1773500	1773599
	46	70	1773600	1773699
		70	1773700	1773799
	46 46	70	1773800	1773899
	46	70	1773900	1773999
	46	70	1774000	1774999
	46	70	1775000	1775999
	46	70	1776000	1776999
	46	70	1777000	1777999
	46	70	1778100	1778199
	46	70	1778100	1778199
	46	70	1778300	1778399
	46	70	1778400	1778399
	46	70	1778500	1778599
	46	70	1778500	1778599
	46	70	1778600	1778699
	46	70	1778800	1778799
	46	70	1778900	1778999
	46	70	1778900	1778999
		70	1779000	1779999
	46			
	46	70	1781000	1781999
	46	70	1782000	1782999

164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	46	70	1783000	1783999
	46	70	1784000	1784999
	46	70	1785000	1785999
	46	70	1786000	1786999
	46	70	1787000	1787099
	46	70	1787100	1787199
	46	70	1787200	1787299
	46	70	1787300	1787399
	46	70	1787400	1787499
	46	70	1787500	1787599
	46	70	1787600	1787699
	46	70	1787700	1787799
	46	70	1787800	1787899
	46	70	1787900	1787999
	46	70	1788000	1788099
	46	70	1788100	1788199
	46	70	1788200	1788299
	46	70	1788300	1788399
	46	70	1788400	1788499
	46	70	1788500	1788599
	46	70	1788600	1788699
	46	70	1788700	1788799
	46	70	1788800	1788899
	46	70	1788900	1788999
	46	70	1789000	1789099
	46	70	1789100	1789199
	46	70	1789200	1789299
	46	70	1789300	1789399
	46	70	1789400	1789499
	46	70	1789500	1789599
	46	70	1789600	1789699
	46	70	1789700	1789799
	46	70	1789800	1789899
	46	70	1789900	1789999
	46	70	1790000	1790999
	46	70	1791000	1791999
	46	70	1792000	1792999
	46	70	1793000	1793999
	46	70	1794000	1794999
	46	70	1795000	1795999
	46	70	1796000	1796999
	46	70	1797000	1797099
	46	70	1797100	1797199
	46	70	1797200	1797299
	46	70	1797300	1797399
	46	70	1797400	1797499
	46	70	1797500	1797599
	46	70	1797600	1797699
	46	70	1797700	1797799
	46	70	1797800	1797899
	46	70	1797900	1797999
	46	70	1798000	1798999
	46	70	1799000	1799099
	46	70	1799100	1799199
	46	70	1799200	1799299
	46	70	1799300	1799399
	46	70	1799400	1799499
	46	70	1799500	1799599
	46	70	1799600	1799699
	46	70	1799700	1799799
	46	70	1799800	1799899
	46	70	1799900	1799999
	46	70	1800000	1809999
	46	70	1810000	1819999
	46	70	1820000	1829999
	46	70	1830000	1839999

46 70 1860000 189899 46 70 1850000 189899 46 70 1850000 189899 46 70 1850000 189899 46 70 1850000 189899 46 70 1850000 189899 46 70 1850000 199899 46 70 1900000 190999 46 70 1900000 190999 46 70 1900000 190999 46 70 1920000 190999 46 70 1920000 190999 46 70 1920000 190999 46 70 192000 190999 46 70 192000 190999 46 70 192000 190999 46 70 192000 190999 46 70 192000 190999 46 70 192000 190999 46 70 192000 190999 46 70 192000 190999 46 70 192000 190999 46 70 190000 190999 46 70 190000 190999 46 70 190000 1909999 46 70 190000 190999 46 70 190000 190999 46 70 190000 190999 46 70 190000 190999 46 70 190000 190999 46 70 190000 190999 46 70 190000 190999 46 70 190000 190000 190999 46 70 190000 190000 190000 190999 46 70 190000 190000 190000 190000 190000 190000 190000 190000 190000 190000 190000 190000 190000 190000 190000 1900000 190000 190000 190000 190000 190000 190000 190000 190000 1900000 190000 190000 190000 190000 190000 190000 190000 190000 1900000 190000 190000 190000 190000 190000 190000 190000 190000 1900000 190000 190000 190000 190000 190000 190000 190000 190000 1900000 190000 190000 190000 190000 190000 190000 190000 190000 1900000 190000 190000 190000 190000 190000 190000 190000 190000 1900000 190000 190000 190000 190000 190000 190000 190000 190000 1900000 190000 190000 190000 190000 190000 190000 190000 190000 1900	64 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Sto
46 70 1860000 188899 46 70 1800000 188899 46 70 1800000 188899 46 70 1800000 188899 46 70 1900000 190000 46 70 1910000 190000 46 70 1920000 190000 46 70 1920000 190000 46 70 1920000 190000 46 70 1920000 190000 46 70 192000 190000 46 70 192000 190000 46 70 192000 190000 46 70 192000 190000 46 70 192000 190000 46 70 1925000 190000 46 70 1925000 190000 46 70 1925000 190000 46 70 1925000 190000 46 70 1900000 190000 46 70 1900000 1900000 46 70 1900000 1900000 46 70 1900000 1900000 46 70 1900000 1900000 46 70 19000000 1900000 46 70 19000000 190000000000000000000000000		46	70		1849999
46		46	70	1850000	1859999
46		46	70	1860000	1869999
46		46	70	1870000	1879999
46		46	70	1880000	1889999
46		46	70		1899999
46					1909999
46					
46					
46					
46 70 1923000 192300 46 70 1923100 192319 46 70 1924000 192319 46 70 1925000 192599 46 70 1926000 192599 46 70 1930000 193999 46 70 1930000 1939999 46 70 1960000 1960000 46 70 1960000 1960000 46 70 1960000 1960000 46 70 1960000 196000000 19600000000000000000					
46					
46					
46					
46					
46					
46 70 196000 194999 46 70 195000 195099 46 70 196000 196009 46 70 196000 196009 46 70 196000 196009 46 70 196020 196029 46 70 1960300 196039 46 70 1960400 196060 46 70 1960600 196069 46 70 1960600 196069 46 70 1960600 196069 46 70 1960800 196069 46 70 1960800 196099 46 70 1960000 196099 46 70 1960000 196099 46 70 1960000 196099 46 70 1960000 196099 46 70 1960000 196099 46 70 1960000 196099 46 70 1960000 196099 46 70 1960000 196099 46 70 1960000 196099 46 70 1960000 196099 46 70 1960000 196699 46 70 1960000 196699 46 70 1960000 196699 46 70 1960000 196699 46 70 1960000 196699 46 70 1960000 196699 46 70 1960000 196699 46 70 1960000 196699 46 70 1960000 196699 46 70 1960000 196699 46 70 1960000 196699 46 70 1960000 196699 46 70 1960000 196699 46 70 1960000 196090 46 70 1960000 196099 46 70 2000000 209999					
46 70 195000 195099 46 70 196000 196009 46 70 1960200 196029 46 70 1960300 196039 46 70 1960300 196039 46 70 1960300 196039 46 70 1960400 196049 46 70 1960600 196069 46 70 1960600 196069 46 70 1960600 196069 46 70 1960600 196069 46 70 1960900 196099 46 70 1960900 196099 46 70 196000 196099 46 70 196000 196099 46 70 196000 196699 46 70 196000 196099 46 70 200000 209999 46 70 200000 209999 46 70 200000 209999					
46 70 196000 196000 46 70 196020 196020 46 70 1960300 196030 46 70 1960400 196040 46 70 1960400 196040 46 70 1960500 196050 46 70 1960600 1960600 46 70 1960600 1960600 46 70 1960600 1960600 46 70 1960600 1960600 46 70 1960600 1960600 46 70 1960600 1960600 46 70 1960600 1960600 46 70 1960900 196090 46 70 1962000 196299 46 70 1963000 196399 46 70 1966000 196699 46 70 1966000 196699 46 70 1966000 196699 46 70 1968000 196699 46 70 1968000 196699 46 70 1968000 196699 46 70 1968000 196699 46 70 1968000 196699 46 70 1968000 196699 46 70 1968000 196699 46 70 1968000 196699 46 70 1968000 196699 46 70 1968000 196699 46 70 1968000 196699 46 70 1968000 196699 46 70 1968000 196899 46 70 1968000 196899 46 70 1968000 196899 46 70 1968000 196899 46 70 1968000 196899 46 70 1969000 196939 46 70 1969000 196939 46 70 1969000 196939 46 70 1969000 196939 46 70 1969000 196939 46 70 1969000 196939 46 70 1969000 196939 46 70 1969000 196939 46 70 1969000 196939 46 70 1969000 196939 46 70 1969000 196939 46 70 1969000 196939 46 70 1969000 196939 46 70 1969000 199939 46 70 1999000 199399					
466					1959999
46					1960099
46					1960199
46				1960200	1960299
46		46	70	1960300	1960399
46		46	70	1960400	1960499
46		46	70	1960500	1960599
46		46	70		1960699
46					1960799
46					
46					
46					
46					
46					
46					
46				_	
46					
46 70 1968000 196899 46 70 1969000 196900 46 70 1969100 196919 46 70 1969200 196929 46 70 1969300 196939 46 70 1969500 196960 46 70 1969600 196969 46 70 1969700 196979 46 70 1969800 196989 46 70 1969800 196989 46 70 1970000 197999 46 70 1970000 197999 46 70 1980000 198999 46 70 1990000 199199 46 70 199000 19929 46 70 1993000 19939 46 70 1993000 199399 46 70 1994000 199499 46 70 1994000 199499 46 70 1995000 199599 46					
46 70 1969000 196900 46 70 1969100 196919 46 70 1969200 196920 46 70 1969300 196930 46 70 1969300 196940 46 70 1969500 196950 46 70 1969700 196970 46 70 1969700 196980 46 70 1969800 196989 46 70 1969900 196990 46 70 1980000 198999 46 70 1980000 198999 46 70 1990000 199190 46 70 1991000 199199 46 70 1993000 199399 46 70 1993000 199399 46 70 1994000 199399 46 70 1994000 199499 46 70 1995000 199599 46 70 1998000 199699 46 <					
46 70 1969100 196920 46 70 1969200 196920 46 70 1969300 196939 46 70 1969400 196940 46 70 1969500 196959 46 70 1969600 196969 46 70 1969700 196979 46 70 1969800 196999 46 70 1969900 196999 46 70 1970000 197999 46 70 1980000 198999 46 70 1990000 199199 46 70 1991000 199199 46 70 1992000 199299 46 70 1993000 199399 46 70 1995000 199499 46 70 1995000 199699 46 70 1996000 199699 46 70 1997000 199799 46 70 1998000 199899 46 <					
46 70 1969200 196930 46 70 1969300 196930 46 70 1969400 196940 46 70 1969500 196950 46 70 1969600 196960 46 70 1969700 196970 46 70 1969800 196989 46 70 1970000 197999 46 70 1980000 198999 46 70 1990000 199099 46 70 1990000 199099 46 70 1990000 199199 46 70 1991000 199199 46 70 1993000 199399 46 70 1993000 199399 46 70 1995000 199599 46 70 1995000 199699 46 70 1996000 199699 46 70 1997000 199799 46 70 1998000 199899 46 <					
46 70 1969300 196930 46 70 1969400 196949 46 70 1969500 196959 46 70 1969600 196969 46 70 1969800 196979 46 70 1969800 196989 46 70 1969900 196999 46 70 1970000 197999 46 70 1990000 198999 46 70 1990000 199199 46 70 1991000 199199 46 70 1992000 199399 46 70 1993000 199399 46 70 1993000 199399 46 70 1994000 199499 46 70 1995000 199599 46 70 1996000 199699 46 70 1997000 199799 46 70 1998000 199899 46 70 1999000 199999 46 <					1969199
46 70 1969400 196949 46 70 1969500 196959 46 70 1969600 196969 46 70 1969700 196979 46 70 1969800 196989 46 70 1969900 196999 46 70 1970000 197999 46 70 1980000 198999 46 70 1991000 199199 46 70 1992000 199299 46 70 1993000 199399 46 70 1993000 199399 46 70 1994000 199499 46 70 1995000 199599 46 70 1995000 199599 46 70 1996000 199699 46 70 1998000 199899 46 70 1998000 199899 46 70 1998000 199899 46 70 1999000 199899 46 <		46	70	1969200	1969299
46 70 1969500 196959 46 70 1969600 196969 46 70 1969700 196979 46 70 1969800 19689 46 70 1969900 196990 46 70 1970000 197999 46 70 1980000 198999 46 70 1990000 199099 46 70 1991000 199199 46 70 1992000 199299 46 70 1993000 199390 46 70 1994000 199499 46 70 1995000 199599 46 70 1995000 199599 46 70 1996000 199699 46 70 1998000 199899 46 70 1998000 199899 46 70 1998000 199899 46 70 1998000 199899 46 70 2000000 209999 46 <t< td=""><td></td><td>46</td><td>70</td><td>1969300</td><td>1969399</td></t<>		46	70	1969300	1969399
46 70 1969600 196969 46 70 1969700 196979 46 70 1969800 196989 46 70 1969900 196999 46 70 1970000 197999 46 70 1990000 198999 46 70 1991000 199199 46 70 1992000 199299 46 70 1993000 199399 46 70 1993000 199399 46 70 1994000 199499 46 70 1994000 199499 46 70 1995000 199599 46 70 1996000 199699 46 70 1998000 199799 46 70 1999000 199999 46 70 1999000 199999 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 <		46	70	1969400	1969499
46 70 1969600 196969 46 70 1969700 196979 46 70 1969800 196989 46 70 1969900 196999 46 70 1970000 197999 46 70 1980000 198999 46 70 1990000 199199 46 70 1991000 199199 46 70 1992000 199299 46 70 1993000 199399 46 70 1994000 199499 46 70 1995000 199599 46 70 1995000 199599 46 70 1998000 199799 46 70 1998000 199899 46 70 1999000 199899 46 70 1999000 199899 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 <		46	70	1969500	1969599
46 70 1969700 196989 46 70 1969800 196989 46 70 1969900 196999 46 70 1970000 197999 46 70 1980000 198999 46 70 1991000 199099 46 70 1991000 199199 46 70 1992000 199299 46 70 1993000 199399 46 70 1995000 199499 46 70 1995000 199599 46 70 1997000 199799 46 70 1998000 199899 46 70 1998000 199899 46 70 1998000 199899 46 70 1999000 199999 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 70 2200000 239999		46	70		1969699
46 70 1969800 196989 46 70 1969900 196999 46 70 1970000 197999 46 70 1980000 198999 46 70 1990000 199099 46 70 1991000 199199 46 70 1992000 199299 46 70 1993000 199399 46 70 1994000 199499 46 70 1995000 199599 46 70 1997000 199799 46 70 1998000 199899 46 70 1998000 199899 46 70 1998000 199899 46 70 1998000 199899 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999		46		1969700	1969799
46 70 1969900 196990 46 70 1970000 197999 46 70 1980000 198999 46 70 1991000 199199 46 70 1992000 199299 46 70 1993000 199399 46 70 1994000 199499 46 70 1995000 199599 46 70 1996000 199699 46 70 1997000 199799 46 70 1998000 199899 46 70 1999000 199999 46 70 2000000 209999 46 70 2100000 219999 46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999					1969899
46 70 1970000 197999 46 70 1980000 198999 46 70 1990000 199099 46 70 1991000 199199 46 70 1992000 199299 46 70 1993000 199399 46 70 1994000 199499 46 70 1995000 199599 46 70 1996000 199699 46 70 1997000 199799 46 70 1998000 199899 46 70 1999000 199999 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 70 2200000 229999					1969999
46 70 1980000 198999 46 70 1990000 199099 46 70 1991000 199199 46 70 1992000 199299 46 70 1993000 199399 46 70 1994000 199499 46 70 1995000 199599 46 70 1997000 199799 46 70 1998000 199899 46 70 1999000 199999 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999					1979999
46 70 1990000 199099 46 70 1991000 199199 46 70 1992000 199299 46 70 1993000 199399 46 70 1994000 199499 46 70 1995000 199599 46 70 1997000 199799 46 70 1998000 199899 46 70 1999000 199999 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999					1989999
46 70 1991000 199199 46 70 1992000 199299 46 70 1993000 199399 46 70 1994000 199499 46 70 1995000 199599 46 70 1997000 199799 46 70 1998000 199899 46 70 1999000 199999 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999					
46 70 1992000 199299 46 70 1993000 199399 46 70 1994000 199499 46 70 1995000 199599 46 70 1996000 199699 46 70 1997000 199799 46 70 1998000 199899 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999					
46 70 1993000 199399 46 70 1994000 199499 46 70 1995000 199599 46 70 1996000 199699 46 70 1997000 199799 46 70 1998000 199899 46 70 1999000 199999 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999					
46 70 1994000 199499 46 70 1995000 199599 46 70 1996000 199699 46 70 1997000 199799 46 70 1998000 199899 46 70 1999000 199999 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999					
46 70 1995000 199599 46 70 1996000 199699 46 70 1997000 199799 46 70 1998000 199899 46 70 1999000 199999 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999			-		
46 70 1996000 199699 46 70 1997000 199799 46 70 1998000 199899 46 70 1999000 199999 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999					
46 70 1997000 199799 46 70 1998000 199899 46 70 1999000 199999 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999					1995999
46 70 1998000 199899 46 70 1999000 199999 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999					1996999
46 70 1999000 199999 46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999					1997999
46 70 2000000 209999 46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999		46	70	1998000	1998999
46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999		46	70	1999000	1999999
46 70 2100000 219999 46 70 2200000 229999 46 70 2300000 239999		46		2000000	2099999
46 70 2200000 229999 46 70 2300000 239999					2199999
46 70 2300000 239999					2299999
I 46 70 240000 240000		46	70	2400000	2499999
					2599999
					2599999

164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	46	70	2700000	2799999
	46	70	2800000	2899999
	46	70	2900000	2999999
	46	70	3000000	3999999
	46	70	5000000	5999999
	46	70	6000000	6999999
	46	70	8000000	8999999
	46	70	9000000	9999999
	46	72	0500000	0500099
	46	72	0500100	0500199
	46	72	0500200	0500299
	46	72	0500300	0500399
	46	72	0500400	0500499
	46	72	0500500	0500599
	46	72	0500600	0500699
	46	72	0500700	0500799
	46	72	0500800	0500899
	46	72	0500900	0500999
	46	72	0501000	0501999
	46	72	0505000	0505999
	46	72	0506000	0505999
	46	72		0508999
	46	72	0508000 0550000	0508099
	46	72	0550000	0559999
	46	72	0580000	0580999
	46	72	0590000	0599999
	46	72	0600000	0699999
	46	72	0700000	0799999
	46	72	0800000	0800099
	46	72	0899900	0899999
	46	72	0900000	0900099
	46	72	0999900	0999999
	46	72	1000000	1099999
	46	72	1100000	1199999
	46	72	1495000	1495999
	46	72	1496000	1496099
	46	72	1496400	1496499
	46	72	1496500	1496599
	46	72	1496600	1496699
	46	72	1496700	1496799
	46	72	1496800	1496899
	46	72	1496900	1496999
	46	72	1499000	1499099
	46	72	1499100	1499199
	46	72	1499800	1499899
	46	72	1499900	1499999
	46	72	1500000	1599999
	46	72	1600000	1699999
	46	72	1700000	1799999
	46	72	1800000	1899999
	46	72	1900000	1999999
	46	72	2000000	2099999
	46	72	2100000	2199999
	46	72	2200000	2299999
	46	72	2300000	2399999
	46	72	2400000	2499999
	46	72	3000000	3099999
	46	72	3100000	3199999
	46	72	3200000	3299999
	46	72	3300000	3399999
	46	72	3400000	3400099
	46	72	3400000	3400999
	46	72	3400900	3400999
		72		3402099
	46		3402700	
	46	72	3402800	3402899
	46	72	3402900	3402999

164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	46	72	3403000	3403099
	46	72	3440000	3440099
	46	72	3450000	3459999
	46	72	3469900	3469999
	46	72	3490000	3490099
	46	72	3500000	3599999
	46	72	3600000	3699999
	46	72	3700000	3799999
	46	72	3800000	3899999
	46	72	3900000	3999999
	46	72	4000000	4000999
	46	72	4001000	4001999
	46	72	4004000	4004999
	46	72	4005000	4005099
	46	72	4530000	4539999
	46	72	5000000	5099999
	46	72	5100000	5199999
	46	72	5200000	5299999
	46	72	5300000	5399999
	46	72	5400000	5499999
	46	72	5500000	5599999
	46	72	5600000	5699999
	46	72 72	5700000	5799999
	46		5800000	5899999
	46	72	5900000	5999999
	46	72	6009000	6009099
	46	72	6200000	6299999
	46	72	6420900	6420999
	46	72 72	6500000	6599999
	46 46	72	6660000	6669999
		72	6670000 6700000	6679999
	46			6799999
	46 46	72 72	6800000	6899999
	46	72	6990000 6999000	6990999 6999099
	46	72	6999900	6999999
	46	72	7000000	7099999
	46	72	7100000	7199999
	46	72	7200000	7299999
	46	72	7300000	7399999
	40	72	7400000	7499999
	46 46	72	7400000	7500099
	46	72	7500200	7500299
	46	72	7500700	7500799
	46	72	7500800	7500799
	46	72	7500900	7500899
	46	72	7505000	7505099
	46	72	7512000	7503099
	46	72	7512100	7512099
	46	72	7512100	7512199
	46	72	7600000	7699999
	46	72	7700000	7799999
	46	72	7800000	7899999
	46	72	800000	8099999
	46	72	8199900	8199999
	46	72	8200000	8299999
	46	72	8800000	8899999
	46	72	9500000	9599999
	46	72	9600000	9699999
	46	72	9700000	9799999
	46	72	9800000	9899999
	46	72	9900000	9999999
	46	73	000000	0099999
	46	73	0100000	0199999
	46	73	0200000	0199999
	46 46	73	0200000	0299999

. 164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
•	46	73	0400000	0499999
	46	73	0500000	0599999
	46	73	0600000	0699999
	46	73	0700000	0799999
	46	73	0800000	0899999
	46	73	0900000	0999999
	46	73	1000000	1099999
	46	73	1100000	1199999
	46	73	1200000	1209999
	46	73	1210000	1210099
	46	73	1210100	1210199
	46	73	1210200	1210299
	46	73	1210300	1210399
	46	73	1210400	1210499
	46	73	1210500	1210599
	46	73	1210600	1210699
	46	73	1210700	1210799
	46	73	1210800	1210899
	46	73	1210900	1210999
	46	73	1211000	1211999
	46	73	1212000	1212999
	46	73	1213000	1213099
	46	73	1213100	1213199
	46	73	1213200	1213299
	46	73	1213300	1213399
	46	73	1213400	1213499
	46	73	1213500	1213599
	46	73	1213600	1213699
	46	73	1213700	1213799
	46	73	1213800	1213899
	46	73	1213900	1213999
	46	73	1214000	1214999
	46	73	1215000	1215999
	46	73	1217000	1217999
	46	73	1220000	1229999
	46	73	1230000	1239999
	46	73	1240000	1240099
	46	73	1240100	1240199
	46	73	1240200	1240299
	46	73	1240300	1240399
	46	73	1247000	1247999
	46	73	1250000	1259999
	46	73	1280000	1289999
	46	73	1300000	1399999
	46	73	1400000	1499999
	46	73	1500000	1599999
	46	73	1600000	1699999
	46	73	1700000	1709999
	46	73 73	1710000 1720000	1719999 1720099
	46			
	46	73 73	1720100 1720200	1720199 1720299
	46	_		
	46	73	1720300	1720399
	46	73 73	1720400 1720500	1720499 1720599
	46	73		1720599
	46 46	73	1720600 1720700	1720699 1720799
	46	73	1722000	1722099
	46	73	1722600	1722699
	46	73	1722700	1722799
	46	73	1729000	1729999
	46	73	1730000	1739999
	46	73	1740000	1749999
	46	73	1750000	1759999
	46	73	1800000	1899999
	46	73	1900000	1999999

164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
-	46	73	2000000	2099999
	46	73	2300000	2399999
	46	73	2400000	2499999
	46	73	2500000	2599999
	46	73	2600000	2699999
	46	73	2700000	2799999
	46	73	2800000	2899999
	46	73	2900000	2999999
	46	73	3000000	3999999
	46	73	4000000	4099999
	46	73	4100000	4199999
	46	73	4200000	4299999
	46	73	4300000	4399999
	46	73	4400000	4499999
	46	73	4500000	4509999
	46	73	4510000	4519999
	46	73	4520000	4529999
	46	73	4530000	4539999
	46	73	4540000	4549999
	46	73	4550000	4559999
	46	73	4560000	4569999
	46	73	4570000	4569999
	46	73	4570000	4579999
	46	73	4590000	4589999 4599999
	46	73	4600000	4600999
		73		
	46 46	73	4601000	4601999
	46	73	4602000 4603000	4602999
				4603999
	46	73	4604000	4604999
	46	73	4605000	4605999
	46	73	4606000	4606999
	46	73	4607000	4607999
	46	73	4608000	4608999
	46	73	4609000	4609999
	46	73	4610000	4619999
	46	73	4620000	4629999
	46	73	4630000	4639999
	46	73	4640000	4649999
	46	73	4650000	4659999
	46	73	4660000	4669999
	46	73	4670000	4679999
	46	73	4680000	4689999
	46	73	4690000	4699999
	46	73	4700000	4700999
	46	73	4701000	4701099
	46	73	4701100	4701199
	46	73	4701900	4701999
	46	73	4730000	4730099
	46	73	4730100	4730199
	46	73	4730200	4730299
	46	73	4730300	4730399
	46	73	4730400	4730499
	46	73	4730500	4730599
	46	73	4730600	4730699
	46	73	4730700	4730799
	46	73	4730800	4730899
	46	73	4730900	4730999
	46	73	4731000	4731999
	46	73	4732000	4731333
	46	73	4732000	4733999
	46	73	4733000	4733999
	46	73	4735000	4734999
	46	73	4736000	4735999
		73	4736000	4736999
	46			
	46	73	4738000	4738999
	46	73	4739000	4739999

164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
-	46	73	4740000	4740999
	46	73	4745000	4745999
	46	73	4749800	4749899
	46	73	4749900	4749999
	46	73	4750000	4759999
	46	73	4760000	4769999
	46	73	4770000	4779999
	46	73	4780000	4789999
	46	73	4790000	4799999
	46	73	4800000	4899999
	46	73	4900000	4999999
	46	73	5000000	5099999
	46	73	5100000	5199999
	46	73	5200000	5299999
	46	73	5300000	5399999
	46	73	5400000	5499999
	46	73	8000000	8099999
	46	73	8100000	8199999
	46	73	8200000	8299999
	46	73	8300000	8399999
	46	73	8400000	8499999
	46	73	8500000	8599999
	46	73	8600000	8609999
	46	73	8610000	8619999
	46	73	8620000	8629999
	46	73	8630000	8630999
	46	73	8631000	8631999
	46	73	8632000	8632999
	46	73	8633000	8633099
	46	73	8633100	8633199
	46	73	8633200	8633299
	46	73	8633300	8633399
	46	73	8633400	8633499
	46	73	8633500	8633599
	46	73	8633600	8633699
	46	73	8633700	8633799
	46	73	8633800	8633899
	46	73	8633900	8633999
	46	73	8634000	8634999
	46	73	8635000	8635999
	46	73	8636000	8636999
	46	73	8637000	8637999
	46	73	8638000	8638999
	46	73	8639000	8639999
	46	73	8640000	8649999
	46	73	8650000	8650099
	46	73	8650100	8650199
	46	73	8650200	8650299
	46	73	8650300	8650399
	46	73	8650400	8650499
	46	73	8650500	8650599
	46	73	8650600	8650699
	46	73	8650700	8650799
	46	73	8650800	8650899
	46	73	8650900	8650999
	46	73	8651000	8651999
	46	73	8652000	8652999
	46	73	8653000	8653999
	46	73	8654000	8654999
	46	73	8655000	8655999
	46	73	8656000	8656999
	46	73	8657000	8657999
	46	73	8658000	8658999
	46	73	8659000	8659099
	46	73	8659100	8659199
	46	73	8659200	8659299
	ı ^{TO}	1 13	1 3033200	1 3033233

64 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	46	73	8659300	8659399
	46	73	8659400	8659499
	46	73	8659500	8659599
	46	73	8659600	8659699
	46	73	8659700	8659799
	46	73	8659800	8659899
	46	73	8659900	8659999
	46	73	8690000	8690099
	46	73	8690100	8690199
	46	73	8690200	8690299
	46	73	8690300	8690399
	46	73	8690400	8690499
	46	73	8690500	8690599
	46	73	8690600	8690699
	46	73	8690700	8690799
	46	73	8690800	8690899
	46	73	8690900	8690999
	46	73	8691000	8691999
	46	73	8692000	8692999
	46	73	8693000	8693999
	46	73	8694000	8694999
	46	73	8695000	8695999
	46	73	8696000	8696999
	46	73	8697000	8697999
	46	73	8698000	8698999
	46	73	8699000	8699099
	46	73	8699100	8699199
	46	73	8699200	8699299
	46	73	8699300	8699399
	46	73	8699400	8699499
	46	73	8699500	8699599
	46	73	8699600	8699699
	46	73	8699700	8699799
	46	73	8699800	8699899
	46 46	73 73	8699900 8800000	8699999 8899999
	46	76	000000	0099999
	46	76	0100000	0199999
	46	76	0200000	0299999
	46	76	0300000	0399999
	46	76	0400000	0499999
	46	76	1000000	1099999
	46	76	1100000	1199999
	46	76	1200000	1299999
	46	76	1300000	1399999
	46	76	1400000	1499999
	46	76	1500000	1599999
	46	76	1600000	1699999
	46	76	1700000	1799999
	46	76	1800000	1899999
	46	76	1900000	1999999
	46	76	3000000	3099999
	46	76	3100000	3199999
	46	76	3200000	3299999
	46	76	3300000	3399999
	46	76	3400000	3499999
	46	76	3500000	3599999
	46	76	3600000	3699999
	46	76	3700000	3799999
	46	76	3800000	3899999
	46	76	3900000	3999999
	1			4399999
	46	76	4.300000	4.399999
	46 46	76 76	4300000 4400000	
	46	76	4400000	4499999

164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Sto
	46	76	4620000	4629999
	46	76	4630000	4639999
	46	76	4640000	4649999
	46	76	4650000	4650099
	46	76	4650100	4650199
	46	76	4650200	4650299
	46	76	4650300	4650399
	46	76	4650400	4650499
	46	76	4650500	4650599
	46	76	4650600	4650699
	46 46	76 76	4650700	4650799
	46	76 76	4650800 4650900	4650899 4650999
	46	76 76	4652000	4652999
	46	76	4653000	4653999
	46	76	4654000	4654999
	46	76	4655000	4655999
	46	76	4656000	4656999
	46	76	4657000	4657999
	46	76	4658000	4658999
	46	76	4659000	4659999
	46	76	4660000	4669999
	46	76	4670000	4679999
	46	76	4680000	4689999
	46	76	4690000	4699999
	46	76	4700000	4709999
	46	76	4710000	4719999
	46	76	4720000	4729999
	46	76	4730000	4739999
	46	76	4740000	4749999
	46	76	4750000	4759999
	46	76	4760000	4769999
	46	76	4770000	4779999
	46	76	4800000	4899999
	46	76	4900000	4900099
	46	76	4900100	4900199
	46	76	4900200	4900299
	46	76	4900300	4900399
	46	76	4900400	4900499
	46	76	4900500	4900599
	46	76	4900600	4900699
	46	76	4900700	4900799
	46	76	4900800	4900899
	46	76	4900900	4900999
	46	76	4901000	4901999
	46	76	4902000	4902999
	46	76	4903000	4903999
	46	76	4904000	4904999
	46	76	4905000	4905999
	46	76	4906000	4906999
	46	76	4907000	4907999
	46	76	4908000	4908999
	46	76	4909000	4909999
	46	76	4980000	4980099
	46	76	4980100	4980199
	46	76	4980200	4980299
	46	76	4980300	4980399
	46	76	4980400	4980499
	46	76	4980500	4980599
	46	76	4980600	4980699
	46	76	4980700	4980799
	46	76	4980800	4980899
	46	76	4980900	4980999
	46	76	4981000	4981999
	46 46	76 76	4982000 4983000	4982999 4983999

164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	46	76	4984000	4984999
	46	76	4985000	4985999
	46	76	4986000	4986999
	46	76	4987000	4987999
	46	76	4988000	4988999
	46	76	4989000	4989999
	46	76	4990000	4990999
	46	76	4991000	4991999
	46	76	4992000	4992999
	46	76	4993000	4993999
	46	76	4994000	4994999
	46	76	4995000	4995999
	46	76	4996000	4996999
	46	76	4997000	4997999
	46	76	4998000	4998999
	46	76	4999000	4999099
	46	76	4999100	4999199
	46	76	4999200	4999299
	46	76	4999300	4999399
	46	76	4999400	4999499
	46	76	4999500	4999599
	46	76	4999600	4999699
	46	76	4999700	4999799
	46	76	4999800	4999899
	46	76	4999900	4999999
	46	76	5000000	5099999
	46	76	5100000	5199999
	46	76	5200000	5299999
	46	76	5300000	5399999
	46	76	5400000	5499999
	46	76	6000000	6099999
	46	76	6100000	6199999
	46	76	6200000	6299999
	46	76	6300000	6399999
	46	76	6400000	6499999
	46	76	6600000	6609999
	46	76	6610000	6619999
	46	76	6620000	6629999
	46	76	6630000	6639999
	46	76	6640000	6649999
	46	76	6650000	6659999
	46	76	6660000	6669999
	46	76	6670000	6679999
	46	76 76	6680000	6689999
	46	76	6690000	6690099
	46	76	6690100	6690199
	46 46	76 76	6699000 6700000	6699999 6709999
	46	76 76	6700000	6709999
	46	76 76	6710000	6729999
	46	76	6720000	6729999
	46	76 76	6730000	6739999
	46	76	6740000	6769999
	46	76	6770000	6779999
	46	76 76	6770000	6779999
	46	76	6790000	6790099
	46	76	690000	6900099
	46	76	6900000	6900099
		76 76	6900100	6900199
	46	76 76		6900299
	46 46	76 76	6900300 6900400	6900399
	46	76 76	6900400	6900499
		76 76	6900500	6900599
	46			
	46	76	6900700	6900799
	46	76	6900800	6900899
	46	76	6900900	6900999

164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	46	76	6901000	6901999
	46	76	6902000	6902999
	46	76	6903000	6903999
	46	76	6904000	6904999
	46	76	6905000	6905999
	46	76	6906000	6906999
	46	76	6907000	6907999
	46	76	6908000	6908999
	46	76	6909000	6909999
	46	76	6910000	6910099
	46	76	6910100	6910199
	46	76	6910200	6910299
	46	76	6910300	6910399
	46	76	6910400	6910499
	46	76	6910500	6910599
	46	76	6910600	6910699
	46	76	6910700	6910799
	46	76	6910800	6910899
	46	76	6910900	6910999
	46	76	6911000	6911999
	46	76	6912000	6912999
	46	76	6913000	6913999
	46	76	6914000	6914999
	46	76	6915000	6915999
	46	76	6916000	6916999
	46	76	6917000	6917999
	46	76	6918000	6918999
	46	76	6919000	6919999
	46	76	6920000	6929999
	46	76	6930000	6930999
	46	76	6939000	6939099
	46	76	6939800	6939899
	46	76	6939900	6939999
	46	76	6940000	6949999
	46	76	7200000	7209999
	46	76	7210000	7219999
	46	76	7210000	7219393
	46	76	7230000	7239999
	46	76	7240000	7249999
	46	76	7250000	7259999
	46	76	7260000	7260999
	46	76	7261000	7261999
	46	76	7262000	7262999
	46	76	7267100	7267199
	46	76	7267200	7267199
	46	76	7267400	7267299
	46	76	7267500	7267499
	46	76	7268000	7267599
	46	76	7269000	7268999
	46	76	7269500	7269599
	46	76	7269500	7269599
	46	76	7269600	7269699
	46	76	7269700	7269799
		76	7270000	7279999
	46 46	76 76	7299000	7299099
	46	76 76		
			7299900	7299999
	46	76	7300000	7399999
	46	76	7400000	7499999
	46	76 76	7500000	7599999
	4.0	76	7600000	7609999
	46			
	46	76	7610000	7619999
	46 46	76 76	7610000 7620000	7620999
	46 46 46	76 76 76	7610000 7620000 7621000	7620999 7621999
	46 46 46 46	76 76 76 76	7610000 7620000 7621000 7622000	7620999 7621999 7622999
	46 46 46	76 76 76	7610000 7620000 7621000	7620999 7621999

E. 164 Number Ranges due to Number Portability	CC	NDC	SN Range Start	SN Range Stop
	46	76	7625000	7625999
	46	76	7626000	7626999
	46	76	7627000	7627999
	46	76	7628000	7628999
	46	76	7629000	7629999
	46	76	7630000	7639999
	46	76	7640000	7649999
	46	76	7650000	7659999
	46	76	7660000	7669999
	46	76	7670000	7679999
	46	76	7680000	7689999
	46	76	7690000	7699999
	46	76	7700000	7799999
	46	76	7800000	7899999
	46	76	7900000	7999999
	46	76	8000000	8099999
	46	76	8100000	8199999
	46	76	8200000	8299999
	46	76	8300000	8399999
	46	76	8400000	8499999
	46	76	8500000	8599999
	46	76	8600000	8699999
	46	76	8700000	8799999
	46	76	8800000	8899999
	46	76	8900000	8999999
	46	76	9500000	9599999
	46	76	9600000	9699999
	46	76	9700000	9799999
	46	76	9800000	9899999
	46	76	9900000	9999999
	46	73	8680000	8689999
	46	72	1490000	1490999
	46	72	1491000	1491999
	46	72	1492000	1492999
	46	72	1493000	1493999
	46	72	1494000	1494999

Additional Information

3G Network code: 24005 (shared 3G network with TeliaSonera) and 2G/4G Network code: 24024 (shared 2G/4G network with Telenor)

Please note that 24005 and 24024 are only network codes and should not be implemented in the imsi analysis.

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Number Portability was introduced in Sweden 01 September 2001.

Due to number portability Tele2Comviq may use MSISDNs from other Swedish operators, therefore, for other operators NDCs, please check below web link:

https://nummertjanster.pts.se/net/sv/Nummerkapacitet/Nummerplan Choose English language at the top of the page.

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The Tele2 MVNO customers are using a dual IMSI. This means that they have a Swedish IMSI when roaming.

In order to route the SMS traffic correctly to the Tele2 MVNO customers, the CC and NDC has to be routed to the following international SCCP, used by the MVNO Host operator.

Outgoing SMS from Tele2 MVNO networks will be delivered from an SMSC with a Swedish GT!

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MVNO Netherlands: Tele2, Netherlands. CC 31, NDC 640, 6362, 6365, 6360, 6363, 6361, 6364. Host operator: T-Mobile. SCCP Carrier: KPN, Signature: ASD - STP2, RT – STP2, Type: STANDALONE ISTP:s, International DPCs: 2-009-0, 2-009-1.

Free number within EU for tariff information: +31 640401602 Tele2 NL uses Tele2 Sweden imsi 2400760* and 2400761* when roaming. Dutch operators should block these ranges in their imsi analysis!

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MVNO Norway: Tele2, Norway. CC 47, NDC 412, 413, 4630, 4631, 4632, 4633, 4591, 4723, 4724, 4725, 4726, 4727, 4728, 4729, 473, 580001, 594, 978, 9790, 9791, 9792, 9793, 9794, 9810, 9811, 9812, 9813, 9814

Host Operator: NetCom GSM AS.

Additional Information

SCCP carrier: Comfone, Signature: Lausanne - Savoie Comfone STP CSP1, Bern – Baumgarten Comfone STP CSP2, Type: STP/SCCP, International DPCs: 2-061-6, 2-061-7.

Free number within EU for tariff information: +4721315555

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Tele2 Russia Telecom Extension of coverage (Dual IMSI solution based) THIS IS NOT AN MVNO, Tele2 Russia is using their own network.

In order to correctly route the SMS traffic (and only in this case) to Tele2 Russia customers, the CC and NDC has to be routed to the following international SCCP.

Operator Name: Tele2 Russia Telecom. Country: Russia. CC 7,

NDC 90000, 90001, 90002, 900219, 90022, 90023, 90024, 90025, 90026, 90027, 90028, 900290, 900291, 900292, 900293, 900294, 900295, 900296, 900297, 900298, 90030, 900345, 900346, 900347, 900348, 900349, 90035, 90036,

900370, 900371, 900372, 900373, 900374, 900405, 900406, 900407, 900408, 900409, 90041, 90042, 90043, 900440, 900441, 900442, 900443, 900445, 900455, 900456, 900457, 900458, 900459, 900460, 900461, 900462, 900463, 900464, 9004715, 9004716, 9004717,

9004718, 9004719, 900472, 900473, 900474, 900475, 900476, 900477, 900478, 900479, 900480, 900481, 900482, 9004830, 9004831, 900481, 900481, 900481, 900481, 900481, 900481, 900481, 900481, 900481, 900481

900901, 900902, 900903, 900904, 900905, 900906, 900907, 900908, 900909, 90091, 900920, 90099,

90213, 902147, 902148, 902149, 90219, 902250, 902251, 902252, 902281, 902282, 902283, 902284, 902285, 902286, 902403, 902404, 902405, 902406, 902407,

902408, 902504, 902507, 9040, 90410, 90420, 904210, 904211, 904212, 904213, 904214, 904218, 904219, 90422, 90423, 904245, 904246, 904247, 904248, 904249, 90425, 904260, 904261, 90427,

90428, 90429, 90430, 90431, 90432, 90433, 90434, 90435, 90436, 90437, 90439, 90444, 90450, 90451, 90452, 90453, 90455, 90457, 90458, 90459, 90460, 90461, 90463, 90464, 90465, 90468, 90469,

90482, 90483, 904857, 904858, 904859, 90486, 904955, 904956, 904957, 904958, 904959, 90496, 90497, 90499, 90804, 90805, 90806, 9081, 908225, 908226, 908228, 908229, 90823, 90828, 908290.

908291, 908292, 908293, 908294, 908295, 90831, 908328, 908329, 90850, 90851, 90857, 90858, 908605, 908606, 908607, 90867, 90868, 908690, 908691, 908692, 908693, 908715, 908716, 908717,

908718, 908719, 90878, 90879, 90880, 90894, 90895, 95000, 95001, 95002, 95003, 95004, 95015, 95016, 95017, 95021, 95022, 95024, 95025, 95026, 95027, 950308, 95033, 950565, 950566, 950567,

950568, 950569, 95057, 95058, 95059, 95060, 95061, 95062, 950660, 950661, 95067, 95068, 95069, 9507, 95080, 95081, 95082, 95083, 95084, 95085, 95086, 95087, 95089, 95091, 95091, 95092,

95095, 950962, 950963, 95107, 95108, 95110, 95111, 95112, 95113, 95114, 95115, 95116, 95117, 95118, 95119, 95120, 95121, 951295, 951296, 951297, 95130, 95131, 95132, 95133, 951347, 951348,

951349, 951350, 951351, 951352, 951353, 951354, 951355, 951356, 95136, 95137, 95138, 95139, 95140, 95141, 95142, 95144, 95145, 95146, 95147, 95148, 95149, 9515, 95160, 95161, 95164, 95165.

95166, 95167, 95168, 95169, 95170, 95171, 95172, 95173, 95174, 95176, 95177, 95178, 95179, 95180, 95181, 95182, 95183, 95184, 95185, 95187, 952015, 952016, 952017, 952018, 952019,

95205, 95206, 952085, 952086, 952087, 952088, 952089, 95209, 95210, 95211, 95212, 95215, 95216, 95217, 95218, 9522, 95230, 952314, 95235, 95236, 95237, 95238, 95239, 95240, 95241, 95242, 95243, 95244, 95245, 95248, 95249, 9525, 95260,

952665, 952666, 952667, 952668, 952669, 95276, 95277, 95278, 95279, 9528, 95290, 95291, 95292, 95293, 95294, 95296, 95297, 95298, 95299, 953059, 95306, 95307, 95308, 95309, 95310, 953111, 953112, 953113, 953114, 953115.

953116, 953117, 953118, 95312, 95313, 95314, 95315, 95316, 95317, 95318, 95319, 95323, 95324, 953250, 953251, 953252, 953253, 953254, 95326, 95327, 95328, 95329, 95330, 95331, 95332, 95333.

95334, 95335, 95336, 95337, 95339, 953411, 953419, 95342, 95343, 953440, 953441, 953442, 953443, 95346, 95347, 95350, 95351, 95352, 95353, 95354, 95355, 95356, 95357,95361, 95362, 95364,

95365, 95366, 95367, 95368, 95369, 9537, 95380, 95381, 953857, 953858, 953859, 95386, 95387, 95388, 953890, 953891, 953892, 953893, 953894, 953895, 953896, 95390, 95391, 95392, 95393,

95394, 95395, 95396, 953970, 953971, 953972, 953973, 953974

Name of SCCP Carrier: Multiregional Transit Telecom Signature: C GW1/MOS and C GW1/SPB Type: ISC Moscow and ISC St. Petersburg International DPC: 2-101-0 and 2-101-1

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MVNO Austria: Tele2, Austria, CC 43, NDC 69010, 69020, 69030, 69040, 69050, 69060, 69060, 69080, 69090. Host operator: T-Mobile Austria. SCCP Carrier: Comfone, Signature: Lausanne - Savoie Comfone STP CSP1, Bern – Baumgarten Comfone STP CSP2, Type: STP/SCC

-Tele2 Austria uses Tele2 Schweden IMSI 2400764* and 2400765* when roaming. Austrian operators should blocke these ranges in their IMSI analyses!

INTERNATIONAL SCCP GATEWAY

TADIG code: SWEIQ Section ID: 5 (Optional) Effective date of change: 2015-05-06

International SCCP carrier list				
SCCP carrier name:	Comfone			
Connectivity information:	Primary			
Comments:	Comfone			
MNO TADIG code list:	SWEIQ			
DPC info:				
Signature:	Lausanne - Savoie Comfone STP CSP1			
Type:	STP/SCCP			
International DPC:	2.61.6			
Comments:				
DPC info:				
Signature:	Bern – Baumgarten Comfone STP CSP2			
Type:	STP/SCCP			
International DPC:	2.61.7			
Comments:				

SCCP Protocol available at PMN for connection for International SS7 Roaming

TADIG code: SWEIQ Section ID: 7 (Optional) Effective date of change: 2011-02-01

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

SUBSCRIBER IDENTITY AUTHENTICATION

TADIG code: SWEIQ Section ID: 8 (Optional) Effective date of change: 2015-05-05

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	

MOBILE APPLICATION PART (MAP)

TADIG code: SWEIQ Section ID: 10 (Optional) Effective date of change: 2015-05-06

Application context name	Current version in			Comments
	Inbound roaming		Outbound roaming	
	MSC/VLR	SGSN	Outbound roaming	
networkLocUp	MAPv3	N/A	MAPv3	
oamingNumberEnquiry	MAPv3	N/A	MAPv3	
nfoRetrieval	MAPv3	-	MAPv3	
subscribeDataMngt	MAPv3	=	MAPv3	
networkFunctionalSs	MAPv2	N/A	MAPv3	
nwdMngt	MAPv2	-	MAPv3	
shortMsgMT-Relay (called shortMsgRelay in v1)	MAPv3	-	MAPv3	
shortMsgMO-Relay (called shortMsgRelay in v1)	MAPv3	-	MAPv3	
ss-InvocationNotification	MAPv3	N/A	MAPv3	
subscriberInfoEnquiry	MAPv3	-	MAPv3	
prsLocationUpdate	N/A	=	MAPv3	
ocationCancellation	MAPv2	=	MAPv3	
nsPurging	MAPv3	=	MAPv3	
eset	MAPv2	=	MAPv3	
networksUnstructuredSs	MAPv2	N/A	MAPv3	
eporting	MAPv3	N/A	MAPv3	
callCompletion	MAPv3	N/A	MAPv3	
stAlerting	-	N/A	MAPv3	
service Termination	-	N/A	MAPv3	
ocationSvcGateway	N/A	N/A	MAPv3	
nm-EventReporting	MAPv3	N/A	MAPv3	
authenticationFaillureReport	MAPv3	-	MAPv3	
msiRetrieval	MAPv2	N/A	MAPv3	
prsNotifyContext	N/A	-	MAPv3	
prsLocationInfoRetrieval	N/A	-	MAPv3	
aillureReport	N/A	-	MAPv3	
secureTransportHandling	-	-	MAPv3	

NETWORK ELEMENTS INFORMATION

TADIG code: SWEIQ Section ID: 13 (Optional) Effective date of change: 2015-04-14

Node type	Node ID	GT address / Address range	IP address / Address range	Vendor info	SW/HW version	Dual access	Location	UTC offset	DST start	DST end
GGSN			130.244.214.0/24					+03:00		
GGSN			130.244.209.0/24					+03:00		
HLR		46 707000 031 / 036		Nokia Siemens Networks NT-HLR		0		+01:00		
HLR		46 707000 041 / 045		Nokia Siemens Networks NT-HLR		0		+01:00		
HLR		46 707000 081 / 082		Nokia Siemens Networks NT-HLR		0		+01:00		
HLR		46 707000 140 / 149		Virtual HLR, Homerouting SMSC Symsoft		0		+01:00		
HLR		46 707000091		Nokia Siemens Networks NT-HLR		0		+01:00		
HLR		46 707990027		Ericsson				+01:00		
HLR		46 707990027		Ericsson	<u> </u>			+01:00		1
HLR		46 707990050		M2M				+01:00		
HLR		46 707990051		M2M				+01:00		
HLR		46 707990052		M2M				+01:00		
HLR		46 707990082		Huawei				+01:00		
HLR		46 707990082		Huawei				+01:00		
HLR		46 707990082		Stand Alone HLRNL1		0		+01:00		
HLR		46 707990083		Huawei				+01:00		
HLR		46 707990083		Huawei				+01:00		
HLR		46 707990084		Huawei				+01:00		
HLR		46 707990084		Huawei				+01:00		
HLR		46 737499000		Stand Alone HLRRU1		0		+03:00		
HLR		46 737499010		Stand Alone HLRRU2		0		+03:00		
HLR		46 737499020		Stand Alone HLRRU3		0		+03:00		
HLR		46 737499041		Stand Alone HLRRU4		0		+03:00		
HLR		46 737499070		Stand Alone HLRRU5		0		+03:00		
HLR		46 737499870		Stand Alone HLRRU6		0		+03:00		
MMSC		46 707963127		Comverse MMSC Ver. 3.7		0		+01:00		
MSC/VLR		46 737499 000 / 999		Tele2 Russia GT range		0		+03:00		
MSC/ VLR-2G+3G	HGDM	46 707000020		NSN MSS DX200 15.1		0		+01:00		
MSC/ VLR-2G+3G	LIMM	46 707000024		NSN MSS DX200 15.1		0		+01:00		
MSC/ VLR-2G+3G	AVKM	46 707963171		NSN MSS DX200 15.1		0		+01:00		
MSC/ VLR-2G+3G	BCKM	46 707963173		NSN MSS DX200 15.1		0		+01:00		
SGSN		46 737499088	130.244.167.0/24	ROS_SGSN		0		+03:00		ļ
SGSN		46 737499105	130.244.167.0/24	SPB_SGSN2		0		+03:00		<u> </u>
SGSN		46 737499335	130.244.167.0/24	SPB_SGSN1		0		+03:00		

Node type	Node ID	GT address / Address range	IP address / Address range	Vendor info	SW/HW version	Dual access	Location	UTC offset	DST start	DST end
SGSN-2G+3G	AVKC	46 707000067	213.101.221.0/27	NSN SGSN	Flexi NS - SGSN, Rel. SG8.0 / ATCA			+01:00		
SGSN-2G+3G	BCKC	46 707000068	213.100.36.0/27	NSN SGSN	Flexi NS - SGSN, Rel. SG8.0 / ATCA			+01:00		
SGSN-2G+3G	AVKS	46 707963183	130.244.222.0/24	NSN SGSN AVKS		0		+01:00		
SMSC		46 707000 061 / 063		Simcard updates over the air.		0		+01:00		
SMSC		46 707000 100 / 109				0		+01:00		
SMSC		46 707000 110 / 119				0		+01:00		
SMSC		46 707000 120 / 129				0		+01:00		
SMSC		46 707963 103 / 104		EU LAW Positioning Inbound Roamers		0		+01:00		
SMSC		46 707963 143 / 144						+01:002	2012-03-2	2 012-10-28
SMSC		46 707963 145 / 148				0		+01:00		
SMSC		46 707963 157 / 160				0		+01:00		
SMSC		46 707963128				0		+01:00		
SMSC		46 707963150				0		+01:00		
SMSC		46 707990 001 / 009		Comverse, Aldiscon, Symsoft		0		+01:00		
SMSC		46 707990 010 / 017		Comverse, Aldiscon, Symsoft				+01:00		
SMSC		46 707990 066 / 068				0		+01:00		
SMSC		46 707990035		Voicemail notifications		0		+01:00		
SMSC		46 707990036		Voicemail notifications		0		+01:00		
SMSC		46 707990056		Please block due to fraud issues.		0		+01:00		
SMSC		46 707990059		M2M				+01:00		
SMSC		46 707990060		M2M				+01:00		
SMSC		46 707990061		M2M				+01:00		
SMSC		46 707990062		M2M				+01:00		
SMSC SMSC		46 707990063 46 707990076		M2M				+01:00		
SMSC		46 707990076	-			0		+01:00		1
SMSC		46 707990086				0		+01:00		
SMSC		46 707990087				0		+01:00		
SMSC		46 707990092		A2P		0		+01:00		
SMSC		46 707990094		A2P		0		+01:00		
SMSC		46 707990096		A2P		0		+01:00		
SMSC		46 707990097		A2P		0		+01:00		
SMSC		46 737493 901 / 905				0		+01:00		
SMSC		46 737493 910 / 915				0		+01:00		
SMSC		46 737499003				0		+03:00		

Node type	Node ID	GT address /	IP address /	Vendor info	SW/HW	Dual	Location	UTC	DST	DST end
		Address range	Address range		version	access		offset	start	
SMSC		46 737499004				0		+03:00		
SMSC		46 737499319				0		+03:00		
SMSC		46 737499329				0		+03:00		
SMSC		46 737499339				0		+03:00		
SMSC		46 737499349				0		+03:00		
SMSC		46 737499355				0		+03:00		
SMSC		46 737499379				0		+03:00		
SMSC		46 737499399				0		+03:00		
SMSC		46 737499529				0		+03:00		
SMSC		46 737499539				0		+03:00		
SMSC		46 737499879				0		+03:00		
VLR		46 707000		Virtual VLR,		0		+01:00		
		150 / 159		Homerouting						
				SMSC Symsoft						

USSD Information

TADIG code: SWEIQ Section ID: 14 (Optional) Effective date of change: 2011-11-01

USSD capability available	Yes
Supported phase	Phase 2

CAMEL INFO

TADIG code: SWEIQ Section ID: 15 (Conditional)
Effective date of change: 2013-03-14

gsmSSF/MSC			
CAP Version supported	d (Inbound)		oported (Outbound)
CAPv3			APv2
CAMEL Functionality Information	01/	OAR Ware to re	OOD OT a libraria
Service(s) Name	SK	CAP Version	SCP GT addresses
IN8	104	CAPv2	46707000080
IN8_2	107	CAPv2	46707000078
IN8_3 CAPv4 Partial Implementations	108	CAPv2	46707000079
CAPV4 Partial Implementations CAMEL Phase 4 CSIs:		Supported (Vec / No)	Planned Date
O - CSI		Supported (Yes / No)	Planned Date
0 - CSI			
VT - CSI			
MT - SMS - CSI			
Functionalities:		Supported (Yes / No)	Planned Date
Initiate Call Attempt		Cupported (1637 No)	Tiumica Date
Split Leg			
Move Leg			
Disconnect Leg			
Entity Released			
DFC With Argument			
Play Tone			
DTMF Mid Call			
Charging Indicator			
Alerting DP			
Location At Alerting			
Change Of Position DP			
OR Interactions			
Warning Tone Enhancements			
CF Enhancements			
CAPv4 Partial Implementations			
CAMEL Phase 4 CSIs:		Supported (Yes / No)	Planned Date
MT - SMS -CSI			
MG - CSI			
PSI Enhancements			

Packet Data Services Information

TADIG code: SWEIQ Section ID: 16 (Conditional)

Effective date of change: 2015-04-09

List of APN Operator Identifiers					
APN Operator Identifier	Description	Example			
Mnc007.mcc240.gprs					

List of APN's available for testing and troubleshooting

APN WEB List						
	APN Credential		ISP DNS IP address	ISP DNS IP address		
APN	Username	Password	(primary)	(secondary)		
internet.tele2.se			130.244.127.161	130,244,127,169		

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

APN MMS List						
		APN Credential		WAP Gateway IP	Messaging	
	APN	Username	Password	address for MMS	Server URL	
	internet.tele2.se			130.244.202.30	http://mmsc.tele2.se	

IPv6 Connectivity Information						
	IPv6 PDP Supported	IPv4v6 PDP Supported				
SGSN Support	Yes	Yes				
GGSN Support	Yes	Yes				

List of 2G/3G QOS profiles					
Profile name:	Standard				
Traffic class:	Interactive				
ARP:	2				
Evolved ARP:	1				

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
3GPS	
HSDPA	
HSUPA	

Multiple PDP Context Support	
Number of Primary PDP Context	2

IP - Roaming and IP - Interworking Information

TADIG code: SWEIQ Section ID: 17 (Conditional) Effective date of change: 2015-05-08

ist of All IP address ranges used by PMN for connection to inter - PMN IP ackbone	IP Address Range
	130.244.167.0/24
	130.244.209.0/24
	130.244.211.192/27
	130.244.211.224/27
	130.244.214.0/24
	130.244.222.0/24
	90.131.10.64/26
	130.244.211.96/29
	130.244.211.104/29
	130.244.211.112/30
	130.244.211.116/30
	130.244.211.120/30
	130.244.211.144/30
	130.244.211.148/30
	130.244.211.152/30
	213.100.36.0/27
	213.101.221.0/27
	213.102.161.0/24
	213.102.162.0/24
	193.216.125.0/25
	193.216.125.128/25
	89.146.219.248/29

RAI Additional MCC/MNC List	MCC	MNC
	240	24
	240	05
ULL Additional MCC/MNC List	MCC	MNC

List of Autonomous System Number (ASN):	ASN
	1257
List of Autonomous System Number (ASN4R):	ASN4B

List of PMN authoritative DNS server IP addresses and names	IP address	DNS Name
	130.244.209.6	DNS1
	130.244.209.14	DNS2

List of GRX Providers	GRX Provider
	Tele2

MMS Interworking Information

TADIG code: SWEIQ Section ID: 18 (Optional) Effective date of change: 2014-09-10

MMS Elementa 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
mms.tele2.se	83.191.132.0/23	2048	Yes	Yes	83.191.132.8	83.191.132.7

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

LTE Roaming Information

TADIG code: SWEIQ Section ID: 20 (Optional) Effective date of change: 2015-05-05

Roaming Interconnection

QDN	Primary IP Address DEA FQDN	Secondary IP Address DEA FQDN
vk6-hss-1.epc.mnc007.mcc240.3	193.216.123.128	193.216.123.129
gppnetwork.org	193.216.123.130	193.216.123.131
	193.216.123.132	
	193.216.123.133	1
ck-hss-1.epc.mnc007.mcc240.3g	193.216.123.128	193.216.123.129
onetwork.org	193.216.123.130	193.216.123.131
	193.216.123.132	
	193.216.123.133	1
m-hss-1.epc.mnc007.mcc240.3g	193.216.123.128	193.216.123.129
onetwork.org	193.216.123.130	193.216.123.131
	193.216.123.132	
	193.216.123.133	1
/k6-mme-11.epc.mnc007.mcc240.	193.216.123.128	193.216.123.129
gppnetwork.org	193.216.123.130	193.216.123.131
	193.216.123.132	
	193.216.123.133	1
ck3-mme-1.epc.mnc007.mcc240.3	193.216.123.128	193.216.123.129
gppnetwork.org	193.216.123.130	193.216.123.131
	193.216.123.132	
	193.216.123.133	1
n-mme-1.epc.mnc007.mcc240.3g	193.216.123.128	193.216.123.129
onetwork.org	193.216.123.130	193.216.123.131
	193.216.123.132	
	193.216.123.133	1
2m-hss-1a.epc.mnc007.mcc240.3	193.216.123.128	193.216.123.129
pnetwork.org	193.216.123.130	193.216.123.131
	193.216.123.132	
	193.216.123.133	1
2m-hss-2a.epc.mnc007.mcc240.3	193.216.123.128	193.216.123.129
opnetwork.org	193.216.123.130	193.216.123.131
	193.216.123.132	
	193.216.123.133	1
2m-hss-1b.epc.mnc007.mcc240.3	193.216.123.128	193.216.123.129
ppnetwork.org	193.216.123.130	193.216.123.131
	193.216.123.132	
	193.216.123.133	1
2m-hss-2b.epc.mnc007.mcc240.3	193.216.123.128	193.216.123.129
opnetwork.org	193.216.123.130	193.216.123.131
	193.216.123.132	

S6a Supported without IWF	S6a MAP IWF supported to HSS	S6a MAP IWF supported to MME	
false	false	false	
S6d used for legacy SGSN	S8 GTP interface available	S8 PMIP interface available	
false	true	false	
S9 used for PCC	false		

SMS ITW

SMS delivery over IP	SMS delivery over SGs
false	true

epc.mnc007.mcc240.3gppnetwork.org

Voice ITW	
CSFB	

Roaming Retry	
Is Roaming Retry supported?	No

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

List of LTE QOS profiles					
Profile name:	WEB BROWSING				
QCI Value List:	9				
QOS ARP List:	2				
ARP Preemption Vulnerability List:	0				
ARP Preemption Capability List:	0				

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

Information for Diameter certificates exchange				
Certificate of 1st IPsec gateway No				
Certificate of 2nd IPsec gateway	No			
Operator roaming sub-CA certificate	No			

LTE Information				
QCI Value 1 Supported	No			
QCI Value 2 Supported	No			
QCI Value 3 Supported	No			
QCI Value 4 Supported	No			
QCI Value 5 Supported	No			
QCI Value 6 Supported	No			
QCI Value 7 Supported	No			
QCI Value 8 Supported	No			
QCI Value 9 Supported	Yes			

CONTACT INFORMATION

TADIG code: SWEIQ Section ID: 21 (Optional, Repeating) Effective date of change: 2015-05-06

List of Roaming Troubleshooting Contact Information Roaming Troubleshooting Contact Information							
Location Sweden, Kista							
Office Time Zone in UTC +01:00							
Office Hours	Week D		v (e)	1	tart Time	<u> </u>	End Time
Office flours	_	Mon Tue Wed			08:00:00		17:00:00
Main Contact for Troublesh	ooting (O		1110111		0.00.00		17.00.00
Team Name	iooting (O	Tel.	Mobile	Fa		r	Email
		rei.	Mobile	Га	IX	into montin	
International						internation	nal.ireg@tele2.com
Roaming Group	.blaabaa4						
Escalation Contact for Trou	ibiesnooti						
Person Name		Tel.	Mobile	Fa	ıx		Email
Mr Tommie Danielsso						tommie.da	nielsson@tele2.com
24 x 7 Troubleshooting (co	ntact out o						
Team Name		Tel.	Mobile	Fa			Email
Network Operations Cen		812043030		46875	29227	inoc.m	obile@tele2.com
Roaming Troubleshooting	Ticketing :	System Informat	ion				
Ticket system web address							
Ticket system email addres	S						
Additional Contacts							
SCCP Inquires and ordering	a of SS7 R	outes					
, , , , , , , , , , , , , , , , , , , ,		son Name	Т	el.		Mobile	Fax
ŀ		ning&Services		411272			. 3//
		tor C7 Planning		411100			
ł	Coordina	JobTitle	1 41010			Email	
ł		Contact				noc@comfone.co	
l		Contact				noceconione.co)III
Roaming Coordinator							
Roaming Goordinator	Por	son Name	т т	el.	<u> </u>	Mobile	Fax
ł				275853	11	6737075853	46856264202
ŀ	Mr Ma	rtin Granqvist	40000	2/5653	40		40050204202
	JobTitle				Email		
Roaming Manager martin.granqvist@tele2.com					ez.com		
IREG Tests							
IKEG Tests	D	a a m. Marria	· -	el.		Makila	Fau
}		son Name		-		Mobile	Fax
	Mr Ma	aris Rasnacs	3/16/	060643		- "	
		JobTitle				Email	
Į	Intern	national roaming	engineer		R	tiga_Roaming@tele	2.com
T1010 T /							
TADIG Tests							_
ļ		son Name		el.		Mobile	Fax
ļ	Ms L	iene Zarina	37167	060184	<u> </u>		
		JobTitle				Email	
	Intern	ational Roaming	Engineer		R	iga_Roaming@tele	2.com
Contact Person(s) in PMN f							
		son Name		el.		Mobile	Fax
	Mr Fre	drik Lindstedt	+46856	240000			
[JobTitle				Email	
ſ		IP specialist			peering@tele2.net		
Ì	Per	son Name		el.		Mobile	Fax
ľ	Mr Björn Nuss		+46856	5240000			
İ	JobTitle					Email	
Ì	IP specialist					peering@tele2.r	et
		·					
Contact person(s) for IW MMS							
	Per	son Name	T	el.		Mobile	Fax
ľ		/ISC team	İ				
Ì	JobTitle				Email		
Contact		mmsc@tele2.com			m		
		23					
IR21 Distribution Email Add	dress			E	mail		
				international.ro		ele2.com	
	international regions 2.50m						

SECTIONS NOT IN USE

TADIG Code	Section ID	Section Name		
SWEIQ	6	Domestic SCCP Gateway		
SWEIQ	9	est Numbers Information		
SWEIQ	11	MAP Optimal Routing Section		
SWEIQ	12	MAP Inter Operator SMS Enhancement		
SWEIQ	19	WLAN Information		
SWEIQ	22	Hosted Networks		
SWEIQ	23	M2M Roaming Information		
SWEIQ	24	MVNO Information		

History of changes

SWEIQ 4 SWEIQ 17 SWEIQ 5 SWEIQ 10 SWEIQ 10 SWEIQ 22 SWESM 22 SWESM 24 SWEIQ 8 SWEIQ 20 SWEIQ 20	17 5 10	Routing Information IP Roaming/Networking Information International SCCP Gateway MAP	2015-06-18 2015-05-08 2015-05-06	Added MSISDN range 467191003000000 - 467191003999999 IP backbone update 89.146.219.248/29
SWEIQ 5 SWEIQ 10 SWEIQ 10 SWEIQ 22 SWESM 22 SWESM 22 SWEIQ 8	5 10 10	International SCCP Gateway		IP backbone update 89.146.219.248/29
SWEIQ 10 SWEIQ 10 SWEIQ 2° SWESM 2° SWESM 2° SWEIQ 8	10		2015-05-06	
SWEIQ 10 SWEIQ 2° SWESM 2° SWESM 2° SWEIQ 8	10	MAP	2013-03-00	Minor change
SWEIQ 2° SWESM 2° SWESM 2° SWEIQ 8			2015-05-06	Map info updated
SWESM 2' SWESM 2' SWEIQ 8	21	MAP	2015-05-06	Map information updatet
SWESM 2° SWEIQ 8		Contact Information	2015-05-06	minor change
SWEIQ 8	21	Contact Information	2015-05-06	Minor change
	21	Contact Information	2015-05-06	Minor change
SWEIQ 20	3	Subscriber Identity Authentication	2015-05-05	Subscriber Identification Authentication updated
	20	LTE Roaming Information	2015-05-05	LTE QoS Profile List
SWEIQ 20	20	LTE Roaming Information	2015-05-05	LTE information FQDN update
SWEIQ 17	17	IP Roaming/Networking Information	2015-04-28	Removed Backbone IP 130.244.211.156/30
SWEIQ 20	20	LTE Roaming Information	2015-04-28	LTE information update: FQDN and IPv6 support
SWEIQ 21	21	Contact Information	2015-04-28	Contacts update, GRX Connectivity
SWEIQ 13	13	Network Elements Information	2015-04-14	Removed SMSC GT (46707100980, 46707200995)
SWEIQ 13	13	Network Elements Information	2015-04-14	Removed GGSN (62.135.164.225/32 62.135.165.105/32 62.135.164.169/32 62.135.165.161/32)
SWEIQ 17	17	IP Roaming/Networking Information	2015-04-14	Removed Backbone IP (62.135.164.225/32 62.135.165.105/32 62.135.164.169/32 62.135.165.161/32)
SWEIQ 4	1	Routing Information	2015-04-09	Removed Additional Information
SWEIQ 4	1	Routing Information	2015-04-09	Removed Network Nodes Global Title Number Ranges
SWEIQ 5	5	International SCCP Gateway	2015-04-09	Added SWESM into SCCP Carrier List
SWEIQ 13	13	Network Elements Information	2015-04-09	Removed SHLR Network Node
SWEIQ 16	16	Packet Data Service Information	2015-04-09	Modified SWESM Info
SWEIQ 17	17	IP Roaming/Networking Information	2015-04-09	Moved IP-Backbone to SWESM section (212.247.163.160/27)
SWESM 4	1	Routing Information	2015-04-09	Added Number Series for SWESM
SWESM 5	5	International SCCP Gateway	2015-04-09	Added Comfone for SWESM
SWESM 5	5	International SCCP Gateway	2015-04-09	Update Effective Date of Change
SWESM 13	13	Network Elements Information	2015-04-09	Added SHLR Network Node
SWESM 16	16	Packet Data Service Information	2015-04-09	Add ARP SWESM
SWESM 16	16	Packet Data Service Information	2015-04-09	Added SWESM info
SWESM 17	17	IP Roaming/Networking Information	2015-04-09	Added IP backbone (212.247.163.160/27) SWESM
SWESM 21	21	Contact Information	2015-04-09	SCCP Contacts Added
SWESM 21	21	Contact Information	2015-04-09	Modify Contact info, SWESM
SWESM 21	21	Contact Information	2015-04-09	Added IR.21 Distribution Email address list SWESM
SWESM 21	21	Contact Information	2015-04-09	Added Additional Contacts SWESM
SWESM 21	21	Contact Information	2015-04-09	Add Roaming Troubleshooting Contact SWESM
SWEIQ 4	1	Routing Information	2015-03-23	add MVNO Austria: Tele2 info
SWEIQ 4	1	Routing Information	2015-03-18	Added CCITT E.164 Number Series
SWEIQ 4	1	Routing Information	2015-03-18	Added CCITT E.164 Number Series
SWEIQ 4	1	Routing Information	2015-03-18	Removed Network Nodes Global Title Number Ranges
SWEIQ 4	1	Routing Information	2015-03-13	Added CCITT E.164 Number Series
SWEIQ 4	1	Routing Information	2015-03-13	Added CCITT E.164 Number Series
SWEIQ 13	13	Network Elements Information	2015-03-13	Removed SGSN node (NSN SGSN BCKS 46707963184)
SWEIQ 21	21	Contact Information	2015-03-13	Update Contacts
SWEIQ 13	13	Network Elements Information	2015-02-18	Added SHLR info
SWEIQ 13	13	Network Elements Information	2015-02-18	Added SHLR info

TADIG Code	Section ID	Section	Date	Description
SWEIQ	16	Packet Data Service Information	2015-02-18	Added APN WEB List Info
SWEIQ	17	IP Roaming/Networking Information	IP Roaming/Networking Information 2015-02-18 Added IP-Backbone range: 2	
SWEIQ	17	IP Roaming/Networking Information	2015-02-18	Added ASN number
SWEIQ	4	Routing Information	2015-02-17	Added Network Nodes Global Title Number Range. Removed USSD SIM Header
SWEIQ	20	LTE Roaming Information	2015-02-17	Added M2M S6a Hostname
SWEIQ	4	Routing Information	2015-02-11	Added information regarding MVNO Tele2 Austria
SWEIQ	4	Routing Information	2015-02-11	Add new MSISDN Ranges
SWEIQ	16	Packet Data Service Information	2015-02-11	Changed IPv6 Connectivity to reflect support of both IPv6 and IPv4v6
SWEIQ	4	Routing Information	2015-01-09	Edit change log
SWEIQ	4	Routing Information	2015-01-09	Add MSISDN number Range
SWEIQ	21	Contact Information	2015-01-09	Change TADIG Code
SWEIQ	17	IP Roaming/Networking Information	2014-11-11	Added IP backbone ranges 193.216.125.0/25 and 193.216.125.128/25
SWEIQ	4	Routing Information	2014-10-24	Add new MSISDN Range. 46764940 000; 467649410 00; 46764941100; 46764941200; 46764941300; 46764941400
SWEIQ	4	Routing Information	2014-10-24	Update MSISDN Range
SWEIQ	4	Routing Information	2014-10-24	Add MSISDN Number Range
SWEIQ	4	Routing Information	2014-10-24	Add MSISDN Number Range
SWEIQ	20	LTE Roaming Information	2014-10-02	LTE Hostname update
SWEIQ	18	MMS Interworking Information	2014-09-10	Minor Changes
SWEIQ	20	LTE Roaming Information	2014-09-10	Changed Roaming Retry function to No
SWEIQ	4	Routing Information	2014-05-12	Changed MSISDN range 46767259899 is now the last MSISDN istead of 46767259999
SWEIQ	18	MMS Interworking Information	2014-04-30	correct TADIG code was advised
SWEIQ	20	LTE Roaming Information	2014-04-30	LTE information added
SWEIQ	20	LTE Roaming Information	2014-04-30	LTE information added
SWEIQ	20	LTE Roaming Information	2014-04-30	LTE information added
SWEIQ	20	LTE Roaming Information	2014-04-30	LTE information added
SWEIQ	20	LTE Roaming Information	2014-04-30	LTE information added
SWEIQ	21	Contact Information	2014-04-30	Contacts update
SWEIQ	21	Contact Information	2014-04-30	Contacts update
SWEIQ	21	Contact Information	2014-04-30	Contact Updated
SWEIQ	21	Contact Information	2014-04-30	Contact info
SWEIQ	20	LTE Roaming Information	2014-04-24	S6a Hostnames added
SWEIQ	21	Contact Information	2014-04-24	Contact Updated
SWEIQ	20	LTE Roaming Information	2014-04-22	DEA 193.216.123.128/29 and 193.216.123.130/131 MultiHoming 193.216.123.132 & 193.216.123.133 SingleHoming
SWEIQ	13	Network Elements Information	2013-12-16	Modified SMSC Addresses to make easier to implement (No overall Changes made)
SWEIQ	4	Routing Information	2013-12-02	Added 2 MSISDN ranges 4671900008 and 467190006 please note that they are longer than the usual MSISDN length
SWEIQ	5	International SCCP Gateway	2013-12-02	Added Comfone as SCCP Carrier
SWEIQ	16	Packet Data Service Information	2013-12-02	Qos 2G/3G
SWEIQ	13	Network Elements Information	2013-11-07	Added New HLRs 46707990027, 46707990082, 46707990083 & 46707990084
SWEIQ	17	IP Roaming/Networking Information	2013-11-07	Subnetting added to 62.135 ranges
SWEIQ	18	MMS Interworking Information	2013-11-07	Incorrect TADIG code was advised

TADIG Code	Section ID	Section	Date	Description
SWEIQ	4	Routing Information	2013-08-23	Added Network Nodes Global Title Number Ranges 46738680000-46738689999, 46738660000-46738669999 and 46738670000-46738679999
SWEIQ	4	Routing Information	2013-08-20	Added Network Nodes Global Title Number Ranges 46738680000-46738689999, 46738660000-46738669999 and 46738670000-46738679999
SWEIQ	4	Routing Information	2013-08-15	Added Number Ranges 46738660000-46738669999 and 46738670000-46738679999
SWEIQ	13	Network Elements Information	2013-08-15	corrected UTC Offset time for M2M nodes
SWEIQ	13	Network Elements Information	2013-07-31	Changed MMSC Vendor
SWEIQ	4	Routing Information	2013-07-30	Updated Network Norway (CC: 47) NDC
SWEIQ	21	Contact Information	2013-07-30	Updated IREG Contacts
SWEIQ	21	Contact Information	2013-07-30	added roaming contact
SWEIQ	4	Routing Information	2013-07-25	Added Number Ranges 46721490000-46721494999, 46738680000-46738689999
SWEIQ	13	Network Elements Information	2013-06-19	Added M2M HLR 46707990051 46707990052 46707990050 and M2M SMSC 46707990059 46707990060 46707990061 46707990062 46707990063
SWEIQ	4	Routing Information	2013-05-29	Added E.164 Number Ranges
SWEIQ	17	IP Roaming/Networking Information	2013-03-19	Added IP backbone ranges 213.102.161.0/24 and 213.102.162.0/24
SWEIQ	15	CAMEL Information	2013-03-14	Added additional GT address 46707000078, 46707000079 for IN8 Prepaid node
SWEIQ	4	Routing Information	2013-03-13	Added range 46 254 as a prefix for voicemail abroad
SWEIQ	4	Routing Information	2013-03-13	Added Tele2 Russia NDCs: 90000, 90001, 90002, 90056, 90057, 900901, 900902, 900903, 900904, 900905, 900906, 900907, 900908, 900909, 90091, 900920, 952665, 952666, 952667, 952668, 952669
SWEIQ	15	CAMEL Information	2013-03-13	Added GT address 46707000080 for IN8 Prepaid node
SWEIQ	13	Network Elements Information	2013-01-03	Added new GGSN ranges to IP backbone range and network element info: 62.135.164.225, 62.135.165.105, 62.135.164.169, 62.135.165.161 (Shared with with TDC denmark)
SWEIQ	13	Network Elements Information	2013-01-03	Clarified the following GGSN ranges by adding them under network element Info: 130.244.209.0/24 , 130.244.214.0/24 (Shared with other T2 Countries)
SWEIQ	13	Network Elements Information	2013-01-03	Added new SMSC address 46707990020. This will be replacing 46707990056 that should be blocked for both MAP and SCCP due to fraud issues.
SWEIQ	17	IP Roaming/Networking Information	2012-12-14	Removed backbone IP range 130.244.236/24 , since it was colliding with HRVT2 SGSN ranges.
SWEIQ	16	Packet Data Service Information	2012-10-26	Removed Wap Gateway
SWEIQ	17	IP Roaming/Networking Information	2012-10-26	Added new SGSN ranges 213.100.36.0/27 & 213.101.221.0 /27 to PMN IP Backbone.
SWEIQ	21	Contact Information	2012-09-26	Changed IREG Contact Info
SWEIQ	4	Routing Information	2012-08-07	Added Tele2 Russia NDCs: 7900405, 7900406, 7900407, 7900408, 7900409, 790041, 790042, 790043, 7900440, 7900441, 7900442, 7900443, 7900444, 7900445, 790049, 790052, 790053, 790090, 7900910, 790099, 7952665, 7952666, 7952667, 7952668, 7952669,
SWEIQ	17	IP Roaming/Networking Information	2012-08-06	Changed IP backbone range 130.244.210.0/24 back to 130.244.210.0/25 (130.244.210.128/25 is used by other Tele2 countries)
SWEIQ	21	Contact Information	2012-07-31	Added IREG tester
SWEIQ	17	IP Roaming/Networking Information	2012-07-30	Changed IP range 130.244.210.0/25 to /24
SWEIQ	21	Contact Information	2012-07-30	Added Troubleshooting Escalation Contact
SWEIQ	21	Contact Information	2012-07-30	Added new contact info for IREG
SWEIQ	4	Routing Information	2012-05-16	USIM/SIM Header info 894620 added

TADIG Code	Section ID	Section	Date	Description
SWEIQ	4	Routing Information	2012-03-30	Added Tele2 Norway NDCs CC 47 NDCs: 9790, 9791, 9792, 9793, 9794, 9810, 9811, 9812, 9813, 9814
SWEIQ	4	Routing Information	2012-03-30	Changed SCCP Carrier for Tele2 Norway to Comfone - same as for Tele2 Sweden
SWEIQ	4	Routing Information	2012-03-26	Added Tele2 Russia NDCs CC:7 NDCs: 90045X (X=5-9), 90046X (X=0-4), 900471X (X=5-9) 90047X (X=2-9), 90048X (X=0-2), 900483X (X=0-4)
SWEIQ	4	Routing Information	2012-01-19	Updated numberportability info
SWEIQ	4	Routing Information	2012-01-09	Added missing info for number to call for tariff information. Added info about imsi series used by Tele2 NL when roaming.
SWEIQ	17	IP Roaming/Networking Information	2011-12-16	Updated RAI section with mccmnc 24024 and 24005
SWEIQ	17	IP Roaming/Networking Information	2011-12-01	Removed IP range 62.58.34.128/26 and removed AS 13127, 13104, 25240 and 64625.
SWEIQ	21	Contact Information	2011-12-01	Updated Escalation Contact
SWEIQ	4	Routing Information	2011-11-30	Added 2G and 4G network code 24024 for shared 2G/4G network with Telenor Sweden
SWEIQ	17	IP Roaming/Networking Information	2011-10-31	New SGSN backbone IP range 90.131.10.64/26
SWEIQ	4	Routing Information	2011-09-08	Added NDCs 467283, 467284, 467285, 467286, 467287
SWEIQ	17	IP Roaming/Networking Information	2011-09-08	Removed IP backbone range 88.129.1.0/28

NETWORK

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

TADIG code:	SWESM
Network type:	Terrestrial
Presentation of country initials and MNN:	Springmobil SE

NETWORK INFORMATION

TADIG code: SWESM Section ID: 3 (Mandatory)

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

ROUTING INFORMATION

TADIG code: SWESM Section ID: 4 (Mandatory) Effective date of change: 2015-04-09

CCITT E.164 Number series	Country Code (CC)	National Destination Code (NDC)	SN Range Start	SN Range Stop	Primary International DPC	Secondary International DPC	
MSISDN number ranges (s)							
	46	765	000000	999999			
Network Nodes Global Title Number Range(s)							
	46	765	000000	999999			

E. 212 Number series	Mobile Country Code (MCC)	Mobile Network Code (MNC)	
	240	10	
		,	
E. 214 Mobile Global Title (MGT)	Country Code of MGT (CC)	Network Code of MGT (NC)	
	46	765	
	·	·	
Does Number Portability apply ?		Yes	
	-		
USIM SIM Header	894610		

INTERNATIONAL SCCP GATEWAY

TADIG code: SWESM Section ID: 5 (Optional) Effective date of change: 2015-04-09

International SCCP carrier list			
SCCP carrier name:	SCCP Carrier		
Connectivity information:	Primary		
Comments:	Comfone		
MNO TADIG code list:			
DPC info:			
Signature:	Bern – Baumgarten Comfone STP CSP2		
Type:	STP/SCCP		
International DPC:	2.61.7		
Comments:			
DPC info:			
Signature:	Lausanne - Savoie Comfone STP CSP1		
Type:	STP/SCCP		
International DPC:	2.61.6		
Comments:			

NETWORK ELEMENTS INFORMATION

TADIG code: SWESM Section ID: 13 (Optional) Effective date of change: 2015-04-09

Node type	Node ID	GT address / Address range	IP address / Address range	Vendor info	SW/HW version	Dual access	Location	UTC offset	DST start	DST end
HLR	SHLR	46 765289710						+01:00		

Packet Data Services Information

TADIG code: SWESM Section ID: 16 (Conditional) Effective date of change: 2015-04-09

List of APN Operator Identifiers				
APN Operator Identifier	Description	Example		
Mnc010.mcc240.gprs				

List of APN's available for testing and troubleshooting

APN WEB List				
	APN Credential		ISP DNS IP address	ISP DNS IP address
APN	Username	Password	(primary)	(secondary)
data.springmobil.se			130.244.127.161	130.244.127.169

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

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

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:	Default
Traffic class:	Conversational
ARP:	2
Evolved ARP:	1

GTP Version	
SGSN	GTPv1
GGSN	GTPv1

List of Data Service supported

2G Data Services	Multislot Class Capability		
GPRS			

3G Data Services	UE 3G Category
-	-

Multiple PDP Context Support	
Number of Primary PDP Context	Not supported

IP - Roaming and IP - Interworking Information

TADIG code: SWESM Section ID: 17 (Conditional) Effective date of change: 2015-04-09

List of All IP address ranges used by PMN for connection to inter - PMN IP backbone	IP Address Range
	212.247.163.160/27

RAI Additional MCC/MNC List	MCC	MNC
ULI Additional MCC/MNC List	МСС	MNC

List of Autonomous System Number (ASN):	ASN		
	64745		

List of Autonomous System Number (ASN4B):	ASN4B

List of PMN authoritative DNS server IP addresses and names	IP address	DNS Name
	130.244.209.6	DNS1
	130.244.209.14	DNS2

List of GRX Providers	GRX Provider		
	Tele2		

CONTACT INFORMATION

TADIG code: SWESM Section ID: 21 (Optional, Repeating) Effective date of change: 2015-05-06

List of Roaming Troublesho		on			
Roaming Troubleshooting C	Contact Information		lo i in		
Location Sweden, Kista					
Office Time Zone in UTC	I West De	(-)	+01:00		
Office Hours	Week Da			rt Time	End Time
Main Control for Translation	Mon Tue We	a Inu Fri] 08	3:00:00	17:00:00
Main Contact for Troublesh		Makila	For	. 1	Fm all
Team Name	Tel.	Mobile	Fax		Email
IREG	46856266948			In	ternational.ireg@tele2.com
Escalation Contact for Trou		B4 - 1-11 -			E
Person Name	Tel.	Woolle	Mobile Fax Email		
Mr Tommie Danielsso				tor	mmie.danielsson@tele2.com
24 x 7 Troubleshooting (cor					E U
Team Name	Tel.	Mobile	Fax		Email
Network Operations Cent			4687529	3227	inoc.mobile@tele2.com
Roaming Troubleshooting T	icketing System Informa	ition			
Ticket system web address					
Ticket system email address	S				
Additional Contacts					
SCCP Inquires and ordering					
	Person Name		el.	Mobile	Fax
Γ	Roaming&Services		411272		
L	Coordinator C7 Planning	413134	411100		
	JobTitle	JobTitle Email			nail
	Contact			noc@con	mfone.com
				'	,
Roaming Coordinator					
	Person Name		el.	Mobile	Fax
	Mr Martin Granqvist	468562	275853	46737075853	3 46856264202
Ī	JobTitle	JobTitle		En	nail
Ī	Roaming Mana	ger		martin.granqv	rist@tele2.com
	-			,	-
IREG Tests					
	Person Name	To	el.	Mobile	Fax
Ī	Mr Maris Rasnacs	371299	999196		
Ī	JobTitle			En	nail
Ī	IREG Enginee	er		Riga_Roamir	ng@tele2.com
		•		,	
TADIG Tests					
	Person Name	To	el.	Mobile	Fax
Ī	Ms Liene Zarina	371670	060184		
Ī	JobTitle		•	En	nail .
Ī	International Roaming	Engineer		Riga Roamir	ng@tele2.com
				<u> </u>	
Contact Person(s) in PMN for	or GRX connectivity				
	Person Name	Te	el.	Mobile	Fax
ľ	Mr Björn Nuss		6240000		
l l	JobTitle			En	nail
ľ	IP specialist				2 tele2.net
	opcoranot				=
Contact person(s) for IW MI	MS				
. ,	Person Name	To	el.	Mobile	Fax
F	MMSC team	•			1 4
ŀ	JobTitle	1		Fn	nail
F	Contact				tele2.com
	Contact			1111130@	
IR21 Distribution Email Add	ress		Fn	nail	
				ming@tele2.com	
	I	<u>'</u>		9 (10.02.00111	

SECTIONS NOT IN USE

TADIG Code	Section ID	Section Name
SWESM	6	Domestic SCCP Gateway
SWESM	7	SCCP Protocol available at PMN for connection for International SS7 Roaming
SWESM	8	Subscriber Identity Authentication
SWESM	9	Test Numbers Information
SWESM	10	Mobile Application Part (MAP) Section
SWESM	11	MAP Optimal Routing Section
SWESM	12	MAP Inter Operator SMS Enhancement
SWESM	14	USSD Information
SWESM	15	CAMEL Information
SWESM	18	MMS Interworking Information
SWESM	19	WLAN Information
SWESM	20	Roaming in Long Term Evolution
SWESM	22	Hosted Networks
SWESM	23	M2M Roaming Information
SWESM	24	MVNO Information