

PMN Code	Operator	MNC	MCC	OPCO Code	Country	Network Rank	Roaming Service Area	Launched 20404		
								2G	3G	4G
AFGTD	Roshan	412	20	ROSAF	Afghanistan	Primary	World Countries 1	YES	YES	NO
AFGAW	AWCC	412	1	AWCAF	Afghanistan	Secondary	World Countries 1	YES	YES	NO
AFGEA	Etisalat	412	50	ETIAF	Afghanistan	Backup	World Countries 1	YES	YES	NO
ALBVF	Vodafone	276	2	VFAL	Albania	Primary	Vodafone Countries Rest of World	YES	YES	YES
ALBEM	Eagle	276	3	EAGAL	Albania	Backup	Vodafone Countries Rest of World	YES	YES	NO
AIACW	Lime	365	840	CAWAI	Anguilla, St. Kitts & Nevis, Anguilla, Montserrat, St. Lucia, St. Vincent & Grenadines, Turks & Caicos, Antigua & Barbuda, Jamaica, Virgin Islands (British), Cayman Islands, Barbados, Grenada and Dominica.	Primary	World Countries 1	YES	YES	NO
ARGCM	Claro	722	310	CLRAR	Argentina	Primary	World Countries 1	YES	YES	YES
ARGTP	Telecom Personal	722	34	PSNAR	Argentina	Secondary	World Countries 1	YES	YES	YES
ARGTM	Movistar	722	7	MVSAR	Argentina	Backup	World Countries 1	YES	YES	NO
ARM05	VivaCell	283	5	MTSAM	Armenia	Primary	World Countries 1	YES	YES	YES
ARMOR	Orange	283	10	ORGAM	Armenia	Secondary	World Countries 1	YES	YES	NO
ABWSE	Setar GSM	363	1	SETAW	Aruba	Primary	World Countries 1	YES	YES	NO
JAMDC	Digicel	338	50	DGCJM	Aruba, Anguilla, Antigua & Barbuda, Barbados, Bermuda, Cayman Islands, Dominica, Grenada, Haiti, Jamaica, Jamaica, Samoa, St. Kitts and Nevis, St. Lucia, St. Vincent & Grenadines, Turks & Caicos, Virgin Islands (British)	Secondary	World Countries 1	YES	YES	YES
AUSVF	Vodafone	505	3	VFAU	Australia	Primary	Vodafone Countries Rest of World	NO	YES	YES
AUSOP	Optus	505	2	OPSAU	Australia	Secondary	Vodafone Countries Rest of World	NO	YES	YES
AUTPT	Mobilkom	232	1	MOBAT	Austria	Primary	European Countries	YES	YES	YES
AUTMM	T-Mobile	232	7	TMBAT	Austria	Secondary	European Countries	YES	YES	YES
AUTCA	Orange	232	5	ONEAT	Austria	Backup	European Countries	YES	YES	YES
AZEBC	Bakcell	400	2	BAKAZ	Azerbaijan	Primary	World Countries 1	YES	YES	YES
AZEAC	Azercell	400	1	AZCAZ	Azerbaijan	Secondary	World Countries 1	YES	YES	NO
BHRBT	Batelco	426	1	BATBH	Bahrain	Primary	World Countries 1	YES	YES	YES
BHRMV	Zain BH	426	2	VFBH	Bahrain	Secondary	World Countries 1	YES	YES	YES
BHRST	VIVA	426	4	VIVBH	Bahrain	Backup	World Countries 1	YES	YES	NO
BGDAK	Robi	470	2	ROBBD	Bangladesh	Primary	World Countries 1	YES	YES	NO
BGDGP	GrameenPhone	470	1	GRABD	Bangladesh	Secondary	World Countries 1	YES	YES	NO

BGDWT	Warid	470	7	ATLBD	Bangladesh	Backup	World Countries 1	NO	NO	NO
BELTB	Proximus	206	1	PRXBE	Belgium	Primary	European Countries	YES	YES	YES
BELMO	Mobistar	206	10	MSTBE	Belgium	Secondary	European Countries	YES	YES	YES
BELKO	Base	206	20	BASBE	Belgium	Backup	European Countries	YES	YES	YES
BENSP	Spacetel	616	3	SPTBJ	Benin	Primary	World Countries 1	YES	YES	NO
BEN02	Moov	616	2	TCLBJ	Benin	Secondary	World Countries 1	YES	YES	NO
BMUBD	CellOne	350	0	C1BM	Bermuda	Primary	World Countries 1	YES	YES	NO
BRACL	Claro	724	5	CLRBR	Brazil	Primary	World Countries 1	YES	YES	YES
BRABT	Oi	724	16	OIBR	Brazil	Secondary	World Countries 1	YES	YES	NO
BRATM	Oi	724	31	OIBR	Brazil	Secondary	World Countries 1	YES	YES	YES
BRACS	TIM	724	4	TIMBR	Brazil	Backup	World Countries 1	YES	YES	NO
BRARN	TIM	724	2	TIMBR	Brazil	Backup	World Countries 1	YES	YES	NO
BRASP	TIM	724	3	TIMBR	Brazil	Backup	World Countries 1	YES	YES	NO
BRATC	Vivo	724	23	VV0BR	Brazil	Backup	World Countries 1	YES	YES	YES
BRAV1	Vivo	724	10	VV1BR	Brazil	Backup	World Countries 1	YES	YES	YES
BRAV2	Vivo	724	6	VV3BR	Brazil	Backup	World Countries 1	YES	YES	YES
BRAV3	Vivo	724	11	VV2BR	Brazil	Backup	World Countries 1	YES	YES	YES
BRNDS	DST	528	11	DSTBN	Brunei Darussalam	Primary	World Countries 1	YES	YES	YES
BRNBR	B-Mobile	528	2	BMCBN	Brunei Darussalam	Secondary	World Countries 1	YES	YES	NO
BGR01	M-Tel	284	1	MTLBG	Bulgaria	Primary	European Countries	YES	YES	YES
BGRCM	Globul	284	5	GLOBG	Bulgaria	Secondary	European Countries	YES	YES	NO
BGRVA	Vivacom	284	3	VCMBG	Bulgaria	Backup	European Countries	YES	YES	YES
KHMGM	Cellcard	456	1	CAMKH	Cambodia	Primary	World Countries 1	YES	YES	NO
KHMMSM	SmartMobile	456	2	SMRKH	Cambodia	Secondary	World Countries 1	YES	YES	YES
KHMST	Beeline	456	9	BLNKH	Cambodia	Backup	World Countries 1	NO	NO	NO
CANTS	Telus	302	220	TLSCA	Canada	Primary	World Countries 1	NO	YES	YES
CANBM	Bell Mobility	302	610	BELCA	Canada	Secondary	World Countries 1	NO	YES	YES
CANRW	Rogers Wireless	302	720	RGSCA	Canada	Backup	World Countries 1	YES	YES	YES
CANST	Sasktel	302	780	SKTCA	Canada	Backup	World Countries 1	YES	YES	NO
CAFAT	Moov	623	1	ATQCF	Central African Republic	Primary	World Countries 1	YES	YES	NO
TCDCT	Airtel	622	1	ZAITD	Chad	Primary	World Countries 1	YES	YES	NO
TCDML	Tigo	622	3	TIGTD	Chad	Secondary	World Countries 1	YES	YES	NO
CHLMV	Entel	730	1	ENTCL	Chile	Primary	World Countries 1	YES	YES	NO
CHLSM	Claro	730	3	CLRCL	Chile	Secondary	World Countries 1	YES	YES	NO
CHLTM	Movistar	730	2	MOVCL	Chile	Backup	World Countries 1	YES	YES	NO
CHNCU	China Unicom	460	1	UNCCN	China	Primary	World Countries 1	YES	YES	YES
CHNCT	China Mobile	460	0	CMOCN	China	Secondary	World Countries 1	YES	NO	YES
COLCM	Claro	732	101	CLRCO	Colombia	Primary	World Countries 1	YES	YES	YES
COLCO	Tigo	732	111	TIGCO	Colombia	Secondary	World Countries 1	YES	YES	NO
COLTM	Movistar	732	123	MVSCO	Colombia	Backup	World Countries 1	YES	YES	NO
COGCT	CelTel	629	1	ZaicG	Congo, (Brazzaville)	Primary	World Countries 1	YES	YES	NO

CRICL	Claro	712	3	CLRCR	Costa Rica	Primary	World Countries 1	YES	YES	YES
CRITC	Movistar	712	4	MVSCR	Costa Rica	Secondary	World Countries 1	YES	YES	NO
CRICR	I.C.E.	712	1	ICECR	Costa Rica	Backup	World Countries 1	YES	YES	NO
HRVVI	VIPnet	219	10	VIPHR	Croatia	Primary	European Countries	YES	YES	YES
HRVT2	Tele2	219	2	T2HR	Croatia	Secondary	European Countries	YES	YES	NO
HRVCN	Croatian Telecom	219	1	TMBHR	Croatia	Backup	European Countries	YES	YES	NO
ANTCT	Digicel	362	69	DGCNL	Curacao	Primary	World Countries 1	YES	YES	NO
CYPCT	Cytamobile-Vodafone	280	1	CYTCY	Cyprus	Primary	European Countries	YES	YES	YES
CYPSC	MTN	280	10	MTNCY	Cyprus	Secondary	European Countries	YES	YES	NO
CZECM	Vodafone	230	3	VFCZ	Czech Republic	Primary	Vodafone Countries Europe	YES	YES	YES
CZERM	T-Mobile	230	1	TMBCZ	Czech Republic	Secondary	Vodafone Countries Europe	YES	YES	NO
CZEET	O2	230	2	TO2CZ	Czech Republic	Backup	Vodafone Countries Europe	YES	YES	NO
CODVC	Vodacom, Congo	630	1	VFCD	Democratic Republic of Congo	Primary	Vodafone Countries Rest of World	YES	YES	NO
CODCT	Zain Congo DR	630	2	ZAICD	Democratic Republic of Congo	Secondary	Vodafone Countries Rest of World	YES	YES	NO
DNKTD	TDC	238	1	TDCDK	Denmark	Primary	European Countries	YES	YES	YES
DNKDM	Telenor	238	2	TNRDK	Denmark	Secondary	European Countries	YES	YES	YES
DNKIA	Telia	238	20	TELDK	Denmark	Backup	European Countries	YES	YES	NO
DOMCL	Claro	370	2	CLRDO	Dominican Republic	Primary	World Countries 1	YES	YES	YES
DOM01	Orange	370	1	ORGDM	Dominican Republic	Secondary	World Countries 1	YES	YES	YES
DOMAC	Trilogy	370	4	TRLDO	Dominican Republic	Backup	World Countries 1	YES	YES	NO
ECUPG	Conecel	740	1	CONEC	Ecuador	Primary	World Countries 1	YES	YES	NO
ECUOT	Movistar	740	0	MOVEC	Ecuador	Secondary	World Countries 1	YES	YES	NO
EGYMS	Vodafone	602	2	VFEG	Egypt	Primary	Vodafone Countries Rest of World	YES	YES	NO
EGYEM	Etisalat	602	3	ETIEG	Egypt	Secondary	Vodafone Countries Rest of World	YES	YES	NO
EGYAR	MobiNil	602	1	MNLEG	Egypt	Backup	Vodafone Countries Rest of World	YES	NO	NO
SLVTP	Claro	706	1	CLRSV	El Salvador	Primary	World Countries 1	YES	YES	NO
SLVDC	Digicel	706	2	DGCSV	El Salvador	Secondary	World Countries 1	YES	YES	NO
ESTRE	Elisa	248	2	ELIEE	Estonia	Primary	European Countries	YES	YES	YES
ESTRB	Tele2	248	3	T2EE	Estonia	Secondary	European Countries	YES	YES	YES
ESTEM	EMT	248	1	EMTEE	Estonia	Backup	European Countries	YES	YES	NO
FROKA	Vodafone	288	2	VFFO	Faroe Islands	Primary	World Countries 1	YES	YES	YES
FJIVF	Vodafone	542	1	VFFJ	Fiji	Secondary	World Countries 1	YES	YES	YES
FJIDP	Digicel	542	2	DGCFJ	Fiji and Nauru	Primary	World Countries 1	YES	YES	NO
FINRL	Elisa	244	5	ELIFI	Finland	Primary	European Countries	YES	YES	YES
FINTF	Telia Sonera	244	91	SONFI	Finland	Secondary	European Countries	YES	YES	NO
FIN2G	DNA	244	12	DNAFI	Finland	Backup	European Countries	YES	YES	NO
FINAM	Alands Mobiltelefon	244	14	ALNFI	Finland	Backup	European Countries	YES	YES	NO
FRAF2	SFR	208	10	SFRFR	France	Primary	European Countries	YES	YES	YES
FRAF1	Orange	208	1	ORGFR	France	Secondary	European Countries	YES	YES	YES
FRAF3	Bouygues	208	20	BOUFR	France	Backup	European Countries	YES	YES	YES

FRAF4	Digicel	340	20	DGCMQ	French Guiana, Guadeloupe, Martinique, St. Barth and St.Martin	Primary	World Countries 1	YES	YES	NO	
GABCT	Airtel	628	3	ZAIGA	Gabon	Primary	World Countries 1	YES	YES	NO	
GABTL	Moov	628	2	ATQGA	Gabon	Secondary	World Countries 1	NO	NO	NO	
GEOA	Magticom	282	2	MAGGE	Georgia	Primary	World Countries 1	YES	YES	YES	
GEOGC	Geocell	282	1	GEOGE	Georgia	Backup	World Countries 1	YES	YES	NO	
DEUD2	Vodafone	262	2	VFDE	Germany	Primary	Vodafone Countries Europe	YES	YES	YES	
DEUD1	T-Mobile	262	1	TMBDE	Germany	Secondary	Vodafone Countries Europe	YES	YES	NO	
DEUE1	E-Plus	262	3	EPLDE	Germany	Backup	Vodafone Countries Europe	NO	NO	NO	
DEUE2	O2	262	7	O2DE	Germany	Backup	Vodafone Countries Europe	YES	YES	NO	
GHAGT	Vodafone	620	2	VFGH	Ghana	Primary	Vodafone Countries Rest of World	YES	YES	NO	
GHASC	MTN	620	1	MTNGH	Ghana	Secondary	Vodafone Countries Rest of World	YES	YES	NO	
GHAMT	Tigo	620	3	TIGGH	Ghana	Backup	Vodafone Countries Rest of World	YES	YES	NO	
GHAZN	Airtel	620	6	ZAIGH	Ghana	Backup	Vodafone Countries Rest of World	YES	YES	NO	
GIBGT	Gibtel	266	1	GIBGI	Gibraltar	Primary	World Countries 1	YES	YES	NO	
GRCPF	Vodafone	202	5	VFGR	Greece	Primary	Vodafone Countries Europe	YES	YES	YES	
GRCCO	Cosmote	202	1	COSGR	Greece	Secondary	Vodafone Countries Europe	YES	YES	NO	
GRCSH	Wind	202	10	WINGR	Greece	Backup	Vodafone Countries Europe	YES	YES	NO	
GLP01	Orange	340	1	ORGGP	Guadeloupe	Secondary	World Countries 1	YES	NO	NO	
USAPU	mPulse	310	140	MPLUS	Guam	Primary	World Countries 1	YES	YES	NO	
GUMHT	Docomo Pacific	310	470	NDOGU	Guam	Secondary	World Countries 1	YES	YES	YES	
GTMSC	Claro	704	1	CLRGT	Guatemala	Primary	World Countries 1	YES	YES	NO	
GTMCM	Tigo	704	2	TIGGT	Guatemala	Secondary	World Countries 1	YES	YES	NO	
GUYGT	Cellink Plus	738	2	CLLY	Guyana	Primary	World Countries 1	YES	YES	NO	
GUYUM	Digicel	738	1	DGCGY	Guyana	Secondary	World Countries 1	YES	NO	NO	
HTIHT	Natcom	372	3	NATHT	Haiti	Primary	World Countries 1	YES	YES	NO	
HNDME	Claro	708	1	CLRHN	Honduras	Primary	World Countries 1	YES	YES	NO	
HND02	Tigo	708	2	TIGHN	Honduras	Backup	World Countries 1	YES	YES	NO	
HKGH3		3	454	3	H3HK	Hong Kong	Primary	World Countries 1	YES	YES	YES
HKGSM	SmarTone		454	6	SMAHK	Hong Kong	Secondary	World Countries 1	YES	YES	YES
HKGM3	PCCW Mobile		454	16	HKTHK	Hong Kong	Backup	World Countries 1	YES	YES	YES
HKGPP	Peoples		454	12	CMOHK	Hong Kong	Backup	World Countries 1	YES	NO	NO
HKGTC	CSL		454	0	CSLHK	Hong Kong	Backup	World Countries 1	YES	YES	YES
HUNVR	Vodafone	216	70	VFHU	Hungary	Primary	Vodafone Countries Europe	YES	YES	YES	
HUNH1	Telenor	216	1	TNRHU	Hungary	Secondary	Vodafone Countries Europe	YES	YES	NO	
HUNH2	T-Mobile	216	30	TMBHU	Hungary	Backup	Vodafone Countries Europe	YES	NO	NO	
ISLTL	Vodafone	274	2	VFIS	Iceland	Primary	World Countries 1	YES	YES	YES	
ISLNO	Nova	274	11	NOVIS	Iceland	Secondary	World Countries 1	YES	YES	NO	
ISLPS	Siminn	274	1	SMNIS	Iceland	Backup	World Countries 1	YES	YES	NO	
IND07	Idea	404	7	IDLIN	India (Andhra Pradesh)	Backup	Vodafone Countries Rest of World	YES	YES	NO	

INDIB	Idea	405	70	IDAIN	India (Bihar & Jharkhand)	Backup	Vodafone Countries Rest of World	YES	NO	NO
INDID	Idea	404	4	IDCIN	India (Delhi & NCR)	Backup	Vodafone Countries Rest of World	YES	YES	NO
INDE1	Vodafone	404	11	VFIN	India (Delhi)	Primary	Vodafone Countries Rest of World	YES	YES	YES
INDDL	MTNL Dolphin	404	68	DL1IN	India (Delhi)	Backup	Vodafone Countries Rest of World	YES	NO	NO
INDBI	Idea	404	24	IDMIN	India (Gujarat)	Backup	Vodafone Countries Rest of World	YES	YES	NO
INDEH	Idea	404	12	IDBIN	India (Haryana)	Backup	Vodafone Countries Rest of World	YES	YES	NO
INDIH	Idea	404	82	IDHIN	India (Himachal Pradesh)	Backup	Vodafone Countries Rest of World	YES	YES	NO
INDSK	Idea	404	44	IDPIN	India (Karnataka)	Backup	Vodafone Countries Rest of World	YES	NO	NO
INDEK	Idea	404	19	IDKIN	India (Kerala)	Backup	Vodafone Countries Rest of World	YES	YES	NO
INDIK	Idea	405	848	IDNIN	India (Kolkata)	Backup	Vodafone Countries Rest of World	YES	YES	NO
INDMP	Idea	404	78	IDEIN	India (Madhya Pradesh & Chattishgarh)	Backup	Vodafone Countries Rest of World	YES	YES	NO
INDBO	Idea	404	22	IDQIN	India (Maharashtra & Goa)	Backup	Vodafone Countries Rest of World	YES	YES	NO
INDIM	Idea	405	799	IDFIN	India (Mumbai)	Backup	Vodafone Countries Rest of World	YES	NO	NO
INDA9	AirTel	404	2	BARIN	India (punjab)	Backup	Vodafone Countries Rest of World	YES	YES	YES
INDSP	Idea	404	14	IDGIN	India (Punjab)	Backup	Vodafone Countries Rest of World	YES	YES	NO
INDIR	Idea	404	87	IDRIN	India (Rajasthan)	Backup	Vodafone Countries Rest of World	YES	NO	NO
INDIT	Idea	405	852	IDOIN	India (Tamil Nadu)	Backup	Vodafone Countries Rest of World	YES	NO	NO
INDIU	Idea	404	89	IDJIN	India (Uttar Pradesh East)	Backup	Vodafone Countries Rest of World	YES	YES	NO
INDEU	Idea	404	56	IDDIN	India (Uttar Pradesh West)	Backup	Vodafone Countries Rest of World	YES	YES	NO
IDNTS	Telkomsel	510	10	TELID	Indonesia	Primary	World Countries 1	YES	YES	YES
IDNSL	Indosat	510	1	IDSID	Indonesia	Secondary	World Countries 1	YES	YES	NO
IDNEX	Excelcom	510	11	EXCID	Indonesia	Backup	World Countries 1	YES	YES	YES
IRNNT	Rightel	432	20	RGTIR	Iran	Primary	World Countries 1	NO	NO	NO
IRLEC	Vodafone	272	1	VFIE	Ireland	Primary	Vodafone Countries Europe	YES	YES	YES
IRLDF	O2	272	2	O2IE	Ireland	Secondary	Vodafone Countries Europe	YES	YES	NO
GBRMT	Manx Telecom	234	58	MNXUK	Isle of Man	Primary	World Countries 1	YES	YES	YES
GBRGT	Cable & Wireless	234	55	CAWGG	Isle of Man and Jersey	Backup	World Countries 1	YES	YES	YES
ISRO1	Orange	425	1	ORGIL	Israel	Primary	World Countries 1	YES	YES	YES
ISRPL	Pelephone	425	3	PELIL	Israel	Secondary	World Countries 1	YES	YES	YES
ITAOM	Vodafone	222	10	VFIT	Italy, San Marino and Vatican	Primary	Vodafone Countries Europe	YES	YES	YES
ITASI	TIM	222	1	TIMIT	Italy, San Marino and Vatican	Secondary	Vodafone Countries Europe	YES	YES	NO
JPNJP	Softbank	440	20	JFNJP	Japan	Primary	World Countries 1	NO	YES	YES
JPNDO	NTT DoCoMo	440	10	NDOJP	Japan	Secondary	World Countries 1	NO	YES	YES
GBRJT	Jersey Telecom	234	50	JRSUK	Jersey	Backup	World Countries 1	YES	YES	YES
GBRAJ	Airtel-Vodafone	234	3	AVFJE	Jersey and Guernsey	Primary	World Countries 1	YES	YES	YES
JORFL	Zain	416	1	ZAIJO	Jordan	Primary	World Countries 1	YES	YES	YES
JORMC	Orange	416	77	MBCJO	Jordan	Secondary	World Countries 1	YES	YES	YES
JORUM	Umniah	416	3	UMNJO	Jordan	Backup	World Countries 1	YES	YES	NO
KENSA	Safaricom	639	2	SAFKE	Kenya	Primary	World Countries 1	YES	YES	YES
KENKC	Airtel	639	3	ATLKE	Kenya	Secondary	World Countries 1	YES	YES	NO

KORSK	SK Telecom	450	5	SKTKR	Korea, Republic Of	Primary	World Countries 1	YES	YES	YES
KORKF	KT Freetel	450	8	OKTKR	Korea, Republic Of	Secondary	World Countries 1	NO	YES	YES
KWTMT	Zain	419	2	VFKW	Kuwait	Primary	World Countries 1	YES	YES	YES
KWTNM	Wataniya	419	3	WATKW	Kuwait	Secondary	World Countries 1	YES	YES	YES
KWTKT	Viva	419	4	VIVKW	Kuwait	Backup	World Countries 1	YES	YES	YES
LVABT	Bite Latvija	247	5	BITLV	Latvia	Primary	European Countries	YES	YES	YES
LVABC	Tele2	247	2	T2LV	Latvia	Secondary	European Countries	YES	YES	YES
LVALM	LMT	247	1	LMTLV	Latvia	Backup	European Countries	YES	YES	NO
LSOVL	VODACOM	651	1	VFLS	Lesotho	Primary	World Countries 1	YES	YES	NO
LIEMK	Mobilkom	295	5	MOBLI	Liechtenstein	Secondary	European Countries	YES	YES	NO
LTUMT	Bite GSM	246	2	BITLT	Lithuania	Primary	European Countries	YES	YES	YES
LTU03	Tele 2	246	3	T2LT	Lithuania	Secondary	European Countries	YES	YES	YES
LTUOM	Omnitel	246	1	OMTLT	Lithuania	Backup	European Countries	YES	YES	NO
LUXTG	Tango	270	77	TANLU	Luxembourg	Primary	European Countries	YES	YES	YES
LUXVM	Orange	270	99	VOXLU	Luxembourg	Secondary	European Countries	YES	YES	NO
LUXPT	LUXGSM	270	1	PTLLU	Luxembourg	Backup	European Countries	YES	YES	YES
MACSM	SmarTone	455	0	SMAMC	Macau	Primary	World Countries 1	YES	YES	NO
MACCT	CTM	455	1	CTMMO	Macau	Secondary	World Countries 1	YES	YES	YES
MACHT		3 455	3	H3MO	Macau	Backup	World Countries 1	YES	YES	NO
MKDNO	Vip operator	294	3	VIPMK	Macedonia, The Former Yugoslav Republic of	Primary	World Countries 1	YES	YES	YES
MDGCO	Airtel	646	1	ATLMG	Madagascar	Primary	World Countries 1	YES	YES	NO
MDGTM	Telma Mobile	646	4	TLMMG	Madagascar	Secondary	World Countries 1	YES	YES	NO
MWICT	Airtel	650	10	ZAIMW	Malawi	Primary	World Countries 1	YES	YES	NO
MWICP	TNM	650	1	TNMMW	Malawi	Secondary	World Countries 1	YES	YES	NO
MYSCC	Celcom	502	13	CELMY	Malaysia	Primary	World Countries 1	YES	YES	YES
MYSBC	Maxis Mobile	502	12	MAXMY	Malaysia	Secondary	World Countries 1	YES	YES	YES
MYSMI	U-Mobile	502	18	UMOMY	Malaysia	Backup	World Countries 1	YES	YES	NO
MYSMT	DiGi	502	16	DIGMY	Malaysia	Backup	World Countries 1	YES	YES	NO
MLTTL	Vodafone	278	1	VFMT	Malta	Primary	Vodafone Countries Europe	YES	YES	YES
MLTMM	Melita Mobile Ltd.	278	77	MLTMT	Malta	Secondary	Vodafone Countries Europe	YES	YES	NO
MLTGO	go mobile	278	21	GOMT	Malta	Backup	Vodafone Countries Europe	YES	YES	NO
MEXTL	Telcel	334	20	TCLMX	Mexico	Primary	World Countries 1	YES	YES	YES
MEXMS	Movistar	334	30	MVSMX	Mexico	Secondary	World Countries 1	YES	YES	NO
MEXIU	IUSACell	334	50	IUCMX	Mexico	Backup	World Countries 1	YES	YES	NO
MCOM2	Monaco Telecom	212	2	TLCMC	Monaco	Backup	European Countries	YES	YES	YES
MCOM1	Monaco Telecom	212	2	TLCMC	Monaco and Kosovo	Backup	European Countries	YES	YES	NO
MNGMN	Unitel	428	88	UTLMN	Mongolia	Primary	World Countries 1	YES	YES	NO
MNGMC	MobiCom	428	99	MCMMN	Mongolia	Secondary	World Countries 1	YES	YES	NO
MNEPM	Telenor	297	1	TNRME	Montenegro	Primary	World Countries 1	YES	YES	YES
MNEMT	Mtel	297	3	MTEME	Montenegro	Secondary	World Countries 1	YES	YES	YES

MNETM	T-Mobile	297	2	TMOME	Montenegro	Backup	World Countries 1	YES	YES	NO
MOZVC	Vodacom	643	4	VFMZ	Mozambique	Primary	Vodafone Countries Rest of World	YES	YES	NO
NLDLT	Vodafone	204	4	VFNL	Netherlands	Primary	Vodafone Countries Europe	YES	YES	YES
NLDPN	T-Mobile	204	16	TMONL	Netherlands	Secondary	Vodafone Countries Europe	NO	NO	NO
NLDPT	KPN	204	8	KPNNL	Netherlands	Backup	Vodafone Countries Europe	NO	NO	NO
NZLBS	Vodafone	530	1	VFNZ	New Zealand	Primary	Vodafone Countries Rest of World	YES	YES	YES
NZLTM	XT Mobile	530	5	XTMNZ	New Zealand	Secondary	Vodafone Countries Rest of World	YES	YES	NO
NICEN	Claro	710	21	CLRNI	Nicaragua	Primary	World Countries 1	YES	YES	NO
NICMS	Movistar	710	30	MVSNI	Nicaragua	Secondary	World Countries 1	YES	YES	NO
NERCT	Airtel	614	2	ZAINN	Niger	Primary	World Countries 1	YES	YES	NO
NERTL	Moov	614	3	TCLNE	Niger	Secondary	World Countries 1	YES	NO	NO
NGAMN	MTN	621	30	MTNNG	Nigeria	Primary	World Countries 1	YES	YES	NO
NGAET	Airtel	621	20	ZAING	Nigeria	Secondary	World Countries 1	YES	YES	NO
NGAEM	Etisalat	621	60	ETING	Nigeria	Backup	World Countries 1	YES	YES	NO
NORNC	Netcom	242	2	NETNO	Norway	Secondary	European Countries	YES	YES	NO
NORTM	Telenor	242	1	TNRNO	Norway, Svalbard and Jan Mayen Islands.	Primary	European Countries	YES	YES	YES
PAKTP	Telenor	410	6	TNRPK	Pakistan	Primary	World Countries 1	YES	YES	NO
PAKUF	Ufone	410	3	UFNPK	Pakistan	Secondary	World Countries 1	YES	YES	NO
PSEJE	Jawwal	425	5	JWLPS	Palestinian Authority	Secondary	World Countries 1	YES	YES	NO
PSEWM	Wataniya	425	6	WATPS	Palestinian Authority	Backup	World Countries 1	YES	NO	NO
PANCL	Claro	714	3	CLRPA	Panama	Primary	World Countries 1	YES	YES	YES
PANCW	Cable & Wireless	714	1	CAWPA	Panama	Secondary	World Countries 1	YES	YES	NO
PANDC	Digicel	714	4	DGCPA	Panama	Backup	World Countries 1	YES	YES	NO
PANMS	Movistar	714	2	MVSPA	Panama	Backup	World Countries 1	YES	YES	NO
PNGDP	Digicel	537	3	DGCPG	Papua New Guinea	Primary	World Countries 1	YES	YES	NO
PNGPM	bmobile	537	1	BMOPG	Papua New Guinea	Secondary	World Countries 1	YES	YES	NO
PRYHT	Claro	744	2	CLRPY	Paraguay	Primary	World Countries 1	YES	YES	YES
PRYTC	Airtel	744	4	TIGPY	Paraguay	Secondary	World Countries 1	YES	YES	NO
PRYVX	Vox	744	1	VOXPY	Paraguay	Backup	World Countries 1	YES	YES	NO
PERN3	Nextel	716	17	NEXPE	Peru	Primary	World Countries 1	YES	YES	YES
PERTM	Claro	716	10	CLAPE	Peru	Secondary	World Countries 1	YES	YES	YES
PERMO	Movistar	716	6	MOVPE	Peru	Backup	World Countries 1	YES	YES	YES
PHLSR	SMART Gold	515	3	SMTPH	Philippines	Primary	World Countries 1	YES	YES	YES
PHLGT	Globe	515	2	GLOPH	Philippines	Secondary	World Countries 1	YES	YES	YES
POLKM	Plus	260	1	POLPL	Poland	Primary	European Countries	YES	YES	YES
POL03	Orange	260	3	ORGPL	Poland	Secondary	European Countries	YES	YES	YES
POL02	Era	260	2	ERAPL	Poland	Backup	European Countries	YES	YES	NO
POLP4	Play	260	6	PLAPL	Poland	Backup	European Countries	YES	YES	YES
PRTTL	Vodafone	268	1	VFPT	Portugal	Primary	Vodafone Countries Europe	YES	YES	YES
PRTTM	TMN	268	6	TMNPT	Portugal	Secondary	Vodafone Countries Europe	YES	YES	NO

PRICL	Claro	330	110	CLRPR	Puerto Rico	Secondary	World Countries 1	YES	YES	YES
QATB1	Vodafone	427	2	VFQA	Qatar	Primary	Vodafone Countries Rest of World	YES	YES	YES
QATQT	Q-Tel	427	1	QTLQA	Qatar	Secondary	Vodafone Countries Rest of World	YES	YES	YES
FRARE	SRR	647	10	SRRRE	Reunion	Primary	World Countries 1	YES	YES	NO
REUOT	Outremer	647	2	OTRRE	Reunion	Secondary	World Countries 1	YES	YES	NO
ROMMF	Vodafone	226	1	VFRO	Romania	Primary	Vodafone Countries Europe	YES	YES	YES
ROMMR	Orange	226	10	ORGRO	Romania	Secondary	Vodafone Countries Europe	YES	YES	NO
ROM05	DigiMobil	226	5	DGIRO	Romania	Backup	Vodafone Countries Europe	YES	YES	NO
ROMCS	Cosmote	226	3	TLKRO	Romania	Backup	Vodafone Countries Europe	YES	YES	NO
RUS01	MTS	250	1	MTSRU	Russian Federation	Primary	World Countries 1	YES	YES	YES
RUSNW	Megafon	250	2	MEGRU	Russian Federation	Secondary	World Countries 1	YES	YES	YES
RUS03	NCC	250	3	NCCRU	Russian Federation	Backup	World Countries 1	NO	NO	NO
RUSUT	Rostelecom	250	17	RTCRU	Russian Federation	Backup	World Countries 1	NO	NO	NO
RWATG	Tigo	635	13	TIGRW	Rwanda	Primary	World Countries 1	YES	YES	NO
RWAAR	Airtel	635	14	ATLRW	Rwanda	Secondary	World Countries 1	YES	YES	NO
WSMDP	Digicel	549	1	DGCWS	Samoa	Primary	World Countries 1	YES	YES	NO
SAUZN	Zain	420	4	ZAISA	Saudi Arabia	Primary	World Countries 1	YES	YES	YES
SAUAJ	STC Al Jawal	420	1	STCSA	Saudi Arabia	Secondary	World Countries 1	YES	YES	YES
SENAZ	Orange	608	1	ORGSN	Senegal	Secondary	World Countries 1	YES	YES	NO
SRBNO	VIP	220	5	VIPRS	Serbia	Primary	World Countries 1	YES	YES	YES
YUGMT	Telenor	220	1	TNRRS	Serbia	Secondary	World Countries 1	YES	YES	YES
YUGTS	mts	220	3	MTSRS	Serbia	Backup	World Countries 1	YES	YES	NO
SYCAT	Airtel	633	10	AIRSC	Seychelles	Primary	World Countries 1	YES	YES	NO
SGPSH	StarHub	525	5	SHBSG	Singapore	Primary	World Countries 1	YES	YES	YES
SGPST	SingTel	525	1	SINSG	Singapore	Secondary	World Countries 1	NO	YES	YES
SGPM1	M1	525	3	MBNSG	Singapore	Backup	World Countries 1	NO	YES	NO
SVKGT	Orange	231	1	ORGSK	Slovakia	Primary	European Countries	YES	YES	YES
SVKET	T-Mobile	231	2	TMBSK	Slovakia	Secondary	European Countries	YES	YES	NO
SVNSM	SI Mobil	293	40	VFSI	Slovenia	Secondary	European Countries	YES	YES	YES
SVNVG	Tusmobil	293	70	TUSSI	Slovenia	Backup	European Countries	YES	YES	NO
SVNMT	Mobitel	293	41	MTLSI	Slovenia and Kosovo	Primary	European Countries	YES	YES	NO
SLBBM	BeMobile	540	2	BMOSB	Solomon Islands	Primary	World Countries 1	YES	YES	NO
ZAFVC	Vodacom	655	1	VFZA	South Africa	Primary	Vodafone Countries Rest of World	YES	YES	YES
ZAFMN	MTN	655	10	MTNZA	South Africa	Secondary	Vodafone Countries Rest of World	YES	YES	NO
ZAFCC	Cell C	655	7	CLCZA	South Africa	Backup	Vodafone Countries Rest of World	YES	YES	NO
SSDZS	Zain	659	6	ZAISS	South Sudan	Primary	World Countries 1	YES	YES	NO
ESPAT	Vodafone	214	1	VFES	Spain	Primary	Vodafone Countries Europe	YES	YES	YES
ESPTTE	Movistar	214	7	MVSES	Spain	Secondary	Vodafone Countries Europe	YES	YES	NO
ESPRT	Orange	214	3	AMNES	Spain	Backup	Vodafone Countries Europe	YES	YES	NO
LKA71	Mobitel	413	1	MOTLK	Sri Lanka	Primary	World Countries 1	YES	YES	YES
LKAAT	Airtel	413	5	ATLLK	Sri Lanka	Backup	World Countries 1	YES	YES	NO

LKACT	Etisalat	413	3	ETILK	Sri Lanka	Backup	World Countries 1	YES	YES	NO
LKAHT	Hutch	413	8	HUTLK	Sri Lanka	Backup	World Countries 1	YES	YES	NO
SURDC	Digicel	746	3	DGCSR	Suriname	Primary	World Countries 1	YES	YES	NO
SWEEP	Telenor (Net4Mobility)	240	8	TNRSE	Sweden	Primary	European Countries	YES	YES	YES
SWEIQ	Tele 2 (Net4Mobility)	240	7	T2SE	Sweden	Secondary	European Countries	YES	YES	YES
SWETR	TeliaSonera	240	1	TSMSE	Sweden	Backup	European Countries	YES	YES	NO
CHEDX	Sunrise	228	2	SUNCH	Switzerland	Secondary	European Countries	YES	YES	YES
CHEC1	Swisscom	228	1	SWCCH	Switzerland and Linchenstein	Primary	European Countries	YES	YES	YES
TWNFE	Far EasTone	466	1	FETTW	Taiwan, Province of China	Primary	World Countries 1	NO	YES	YES
TWNLD	Chunghwa	466	92	CNGTW	Taiwan, Province of China	Secondary	World Countries 1	NO	YES	YES
TZAVC	Vodacom	640	4	VFTZ	Tanzania, United Republic of	Primary	World Countries 1	YES	YES	YES
TZACT	Airtel	640	5	ZAITZ	Tanzania, United Republic of	Secondary	World Countries 1	YES	YES	NO
TZAMB	Tigo	640	2	TIGTZ	Tanzania, United Republic of	Backup	World Countries 1	YES	YES	NO
THACA	Real Future	520	4	RFUTH	Thailand**	Primary	World Countries 1	YES	YES	YES
THAWN	AIS	520	3	AWNTH	Thailand**	Secondary	World Countries 1	YES	YES	YES
TGOTL	Moov	615	3	MOVTG	Togo	Primary	World Countries 1	YES	YES	NO
TONDP	Digicel	539	88	DGCTO	Tonga	Primary	World Countries 1	YES	YES	NO
TON01	U-call	539	1	UCLTO	Tonga	Secondary	World Countries 1	YES	YES	NO
TTODL	Digicel	374	130	DGCTT	Trinidad and Tobago	Primary	World Countries 1	YES	YES	NO
TURTS	Vodafone	286	2	VFTR	Turkey	Primary	Vodafone Countries Rest of World	YES	YES	YES
TURIS	AVEA	286	3	AVETR	Turkey	Secondary	Vodafone Countries Rest of World	YES	YES	NO
UGAMN	MTN	641	10	MTNUG	Uganda	Primary	World Countries 1	YES	YES	NO
UGACE	Airtel	641	1	AIRUG	Uganda	Secondary	World Countries 1	YES	YES	NO
UGAWT	Warid	641	22	WARUG	Uganda	Backup	World Countries 1	YES	YES	NO
UKRUM	MTS	255	1	MTSUA	Ukraine	Primary	World Countries 1	YES	YES	NO
UKRAS	Life	255	6	LIFUA	Ukraine	Secondary	World Countries 1	YES	YES	NO
UKRUT	UKRTelecom	255	7	UKRUA	Ukraine	Backup	World Countries 1	YES	YES	NO
GBRVF	Vodafone	234	15	VFUK	United Kingdom	Primary	Vodafone Countries Europe	YES	YES	YES
GBRCN	O2	234	10	O2UK	United Kingdom	Backup	Vodafone Countries Europe	YES	YES	NO
USAW6	T-Mobile	310	260	TMBUS	United States	Primary	World Countries 1	YES	YES	YES
USAUN	Union Telephone Company	310	20	UNIUS	United States	Secondary	World Countries 1	YES	YES	NO
USABT	Bug Tussel Wireless	311	330	BTSUS	United States	Backup	World Countries 1	YES	YES	NO
USACI	Viaero	310	450	VIAUS	United States	Backup	World Countries 1	NO	YES	NO
USACW	Immix	310	690	IMMUS	United States	Backup	World Countries 1	YES	YES	NO
USAGC	Alaskan Wireless Network (AWN)	310	50	AWNUS	United States	Backup	World Countries 1	NO	YES	NO
USANW	NewCore	311	530	NCWUS	United States	Backup	World Countries 1	YES	YES	NO
USARB	Manx NA	310	720	MNXUS	United States	Backup	World Countries 1	YES	NO	NO

URYAN	Ancel	748	1	ANCUY	Uruguay	Primary	World Countries 1	YES	YES	YES
URYAM	Claro	748	10	CLRUU	Uruguay	Secondary	World Countries 1	YES	YES	NO
URYTM	Movistar	748	7	MOVUY	Uruguay	Backup	World Countries 1	YES	YES	NO
UZBDU	Beeline	434	4	BLNUZ	Uzbekistan	Primary	World Countries 1	YES	YES	NO
UZB07	UMS	434	7	UMSUZ	Uzbekistan	Secondary	World Countries 1	NO	NO	NO
VUTDP	Digicel	541	5	DGCVU	Vanuatu	Primary	World Countries 1	YES	YES	NO
VENMS	Movistar	734	4	MOVVE	Venezuela	Primary	World Countries 1	YES	YES	NO
VENMV	Movilnet	734	6	MVNVE	Venezuela	Secondary	World Countries 1	YES	YES	NO
VGBCC	CCT	348	570	CCTVG	Virgin Islands (British)	Backup	World Countries 1	YES	YES	NO
ZMBCE	Airtel	645	1	ZAIZM	Zambia	Primary	World Countries 1	YES	YES	NO
ZMB02	MTN	645	2	MTNZM	Zambia	Secondary	World Countries 1	YES	YES	NO

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