

Cellular Operators in Africa

Country	Standard	Startup	Operator	Coverage
<i>Algeria</i>	NMT-900	12/89	Algerian PTT	
<i>Algeria</i>	GSM900	2/99	Algerian PTT	
<i>Angola</i>	AMPS-800	2/94	Angola Telecom	Luanda, then nationwide
<i>Botswana</i>	GSM900	6/1998	Vista cellular (consortium of France Telecom & local partners)	
<i>Botswana</i>	GSM900	6/1998	Mascom Wireless	
<i>Burkina Faso</i>	GSM900	12/96	Onatel	
<i>Burundi</i>	AMPS800	9/93	Telecel-Burundi	
<i>Cameroon</i>	GSM900	1994	Dirtel	
<i>Cameroon</i>	GSM 900	1999	Societe Camerounaise de Mobiles (SCM).	
<i>Cape Verde</i>	GSM 900	1998	Cabo Verde Telecom	
<i>Central African Republic</i>	AMPS800	1995	TELECEL-CAR	Bangui
<i>Congo</i>	GSM900	1/99	Congolese Wireless	
<i>Congo (DR)</i>	GSM900		Congolaise Wireless	
<i>Cote d'Ivoire</i>	GSM900	03/96	Comstar	
<i>Cote d'Ivoire</i>	GSM900	10/96	Loteny Telecom	
<i>Cote d'Ivoire</i>	GSM900	8/96	Societe Ivoirienne de Mobiles	
<i>Djibouti</i>	GSM	1997	undecided	
<i>Egypt</i>	GSM900		ClickGsm	Cairo, Luxor, Alexandria, Aswan
<i>Egypt</i>	MATS	5/87	Arab Republic of Egypt Nat'l Telecom. Org.	
<i>Egypt</i>	GSM900	12/98	Mirafone	
<i>Egypt</i>	GSM900	10/96	MobiNil	
<i>Ethiopia</i>	GSM900	07/98	Ethiopian Telecoms Auth	
<i>Gabon</i>	AMPS	1986	unknown	
<i>Gambia, The</i>	TACS	1994	unknown	
<i>Ghana</i>	AMPS	1/94	CelTel Ghana	nationwide
<i>Ghana</i>	GSM900	6/96	ScanCom Ltd.	
<i>Ghana</i>	GSM900	1996	Francis Walker Ghana Ltd.	
<i>Ghana</i>	TACS	5/92	Millicom Ghana	
<i>Kenya</i>	ETACS	1993	Kenya Posts & Telecoms Co.	
<i>Kenya</i>	GSM900	4/96	Kenya Posts & Telecoms Co.	

<i>Lesotho</i>	GSM900	12/95	Vodacom Lesotho Pty.	Maserv
<i>Liberia</i>	GSM900	3/99		
<i>Libya</i>	GSM		ORBIT	
<i>Madagascar</i>	AMPS	7/25/94	TELECEL-Madagascar	Antananarivo & other cities
<i>Madagascar</i>	GSM900	05/97	Sacel Madagascar S.A.	all
<i>Madagascar</i>	GSM900	11/97	Madacom	all
<i>Madagascar</i>	GSM900	03/98	SMM	
<i>Malawi</i>	GSM900	7/96	Telecom Networks Malawi	Blantyre/Limbe & Lilongwe
<i>Mali</i>	GSM900	1/98	---	----
<i>Mauritius</i>	ETACS	6/89	Emtel/Currimjee Jeewanjee Millicom	
<i>Mauritius</i>	GSM900	1/96	Cellplus Mobile Comms	
<i>Morocco</i>	GSM900	4/94	Itissalat Al-Maghrib S.A	Rabat, Casablanca
<i>Morocco</i>	NMT-450	1989	Office National des Postes et Telecom.	main cities and roads
<i>Morocco</i>	GSM 900	1999	Medi Telecom	
<i>Mozambique</i>	GSM900	6/97	Empresa Nacional de Telecomunicacoes de Mocambique (TDM)	Maputo, Matola and "Maputo Corridor"
<i>Mozambique</i>	GSM1800	8/98	Empresa Nacional de Telecomunicacoes de Mocambique (TDM)	
<i>Namibia</i>	GSM	4/27/95	Mobile Telecommunications Co. Ltd.	Windhoek/Rehobeth area
<i>Nigeria</i>	GSM	1995	EMIS Nigeria	Lagos
<i>Nigeria</i>	GSM900	7/99	---	Abuja, Port Harcourt, Aba, Onitsha
<i>Nigeria</i>	ETACS (800)	11/92	Mobile Telecom Services	
<i>Nigeria</i>	GSM	1995	International Wireless Inc./Comstar	Lagos, Abuja
<i>Reunion</i>	GSM	9/95	Societe Francaise du Radiotelephon	
<i>Rwanda</i>	GSM900	7/98	RwandaCell	
<i>Senegal</i>	GSM900	07/96	SONATEL	nationwide
<i>Senegal</i>	RC2000	4/92	SONATEL	83km radius of Dakar
<i>Seychelles</i>	GSM	11/95	Cable & Wireless (Seychelles) Ltd.	
<i>South Africa</i>	C-Netz	5/86	Vodacom	
<i>South Africa</i>	GSM900	6/1/94	Vodacom	nationwide
<i>South Africa</i>	GSM900	6/1/94	Mobile Telephone Networks	nationwide
<i>South Africa</i>	GSM1800?		third license may be issued	nationwide
<i>Sudan</i>	GSM900	01/97	Daewoo & Sudatel	Khartoum & Port Sudan
<i>Sudan</i>	GSM900	1998	Mobitel	

<i>Swaziland</i>	GSM900	7/1998	MTN	nationwide
<i>Tanzania</i>	GSM900	12/95	Tritel	Dar es Salaam & other cities
<i>Tanzania</i>	GSM900	7/99	Vodacom Tanzania	
<i>Tanzania</i>	GSM900	1998	Zanzibar Telecom	Zanzibar
<i>Tanzania</i>	TACS	10/94	MIC Tanzania Ltd.	Dar es Salaam & other cities
<i>Tunisia</i>	GSM900	end-96	Ministry of Communications	Tunis
<i>Tunisia</i>	GSM900	03/98	Tunisie Telecom	
<i>Tunisia</i>	NMT-450	4/85	Ministry of Communications	60% territory @ mid-95
<i>Uganda</i>	GSM	5/95	Clovergem Celtel Ltd.	Kampala, Entebbe, Jinja
<i>Uganda</i>	GSM	7/98	MTN & partner	
<i>Zaire</i>	AMPS	1994	Express Communications	
<i>Zaire</i>	TACS	end-94	Trans Global Telecom	Kinshasa
<i>Zaire</i>	NAMPS	1986	TELECEL-Zaire	
<i>Zambia</i>	AMPS	1995	Zamtel	Lusaka only
<i>Zambia</i>	CDMA	late 96	Telecel-Zambia	Lusaka
<i>Zambia</i>	GSM900	unknown	Zamtel and partner	
<i>Zimbabwe</i>	GSM900	3/97	Telecel Zimbabwe (PVT) Ltd	Harare & Bulawayo
<i>Zimbabwe</i>	GSM900	1/97	NetOne	Harare & Bulawayo
<i>Zimbabwe</i>	GSM900	3/97	Econet	Local

Analogue Cellular Networks

Type	Number
AMPS	11
C-Netz	1
E-TACS	1
E-TACS-800	2
MATS	1
N-AMPS	1
NMT-450	2
NMT-900	1
RC2000	1
TACS	4

Digital Cellular Networks

Type	Number
CDMA	3
D-AMPS	1
GSM900	68
GSM1800	5
DECT/WiLL	7
TDMA IS-136	1

Analogue Networks in Africa

Country	Standard	Startup	Subscs	Subs Date	Operator	Coverage
<i>Algeria</i>	NMT-900	12/89	6900	6/96	Algerian PTT	
<i>Angola</i>	AMPS	2/94	2700	12/96	Angola Telecom	Luanda
<i>Benin</i>	AMPS	1995	1050	12/95	OPT	
<i>Burundi</i>	AMPS	9/93	500	6/96	Telecel-Burundi	
<i>Central African Republic</i>	AMPS	1995	800	6/96	TELECEL-CAR	Bangui
<i>Congo</i>	Unknown		600	6/96		
<i>Egypt</i>	MATS	5/87	12000	12/95	Arab Republic of Egypt Nat'l. Telecom. Org.	
<i>Gabon</i>	AMPS	1986	5500	12/96	unknown	
<i>Gambia, The</i>	TACS	1994	1700	12/96	unknown	
<i>Ghana</i>	AMPS	1/94	2563	12/95	CelTel Ghana	nationwide
<i>Ghana</i>	TACS	5/92	3637	12/95	Millicom Ghana	
<i>Kenya</i>	ETACS	1993	2300	12/96	Kenya Posts & Telecoms Co.	
<i>Madagascar</i>	AMPS	7/25/94	800	6/96	TELECEL Madagascar	Antananarivo & other cities
<i>Mauritius</i>	ETACS	6/89	12000	6/96	Emtel/Currimjee Jeewanjee Millicom	
<i>Morocco</i>	NMT-450	1989	35000	12/96	Office Nationaldes Postes et Telecom.	main cities and roads
<i>Nigeria</i>	ETACS (800)	11/92	10000	12/96	Mobile Telecom Services	
<i>Senegal</i>	RC2000	4/92	500	mid-95	SONATEL	83km radius of Dakar
<i>South Africa</i>	C-Netz	5/86	10000	6/95	Vodacom	
<i>South</i>	GSM	6/1/94	500000	10/97	Vodacom	nationwide;

Africa						80% pop @ 1995
Swaziland	unknown	1996?			SPTC	
Tanzania	TACS	10/94	2303	12/95	MIC Tanzania Ltd.	Dar es Salaam & other cities
Tonga	unknown	1993?			unknown	
Trinidad & Tobago	AMPS	12/91	3100	12/94	Telecom. Services of Trinidad & Tobago	nationwide
Tunisia	NMT-450	4/85	8000	12/96	Ministry of Communications	60% territory @ mid-95
Zaire	AMPS	1994			Express Communications	
Zaire	TACS	end-94			Trans Global Telecom	Kinshasa
Zaire	NAMPS	1986	11500	12/96	TELECEL-Zaire	
Zambia	AMPS	1995			Zamtel	Lusaka only

Comparison of Indicators - December 2000

	World	Africa
GSM as % of total	49.75%	95.61
12 month % growth	52.49	101.85
3 month % growth	10.74	21.22
% Pre-paid	18.57	26.67
12 month % growth (f'cast)	33.65%	60.13%

Africa Indicators November 2000

Total subscribers	13,232,000
Total analogue	450,000
Total GSM	11,230,000
12 month % growth	135%
Pre-paid	4,238,000
% Pre-paid	26.67%
Forecast end 2003	33,927,000

Biggest GSM Markets in Africa

COUNTRY	Jun-97	Dec-97	Jun-98	Dec-98	Mar-99	Jun-99	Jun-00	Sep-00	%
Other	212,920	300,340	392,040	612,250	722,510	916,430	1,900,000		14.2
Ghana					22240	26694	110,900	132,000	1.5
Botswana						15,000	98,000	140,000	1.5
Reunion						75,000	180,000	197,000	1.8
Zimbabwe						63,494	248,485	256,000	2
Côte d'Ivoire	21,100	37,900	63,210	91,210	134,560	163,310	240,649	342,000	3
Egypt	58,140	83,500	108,900	197,000	326,000	444,000	940,000	1,401,000	14
Morocco	56,200	73,720	95,130	116,080	121,500	150,000	884,000	1,530,000	16
SouthAfrica	1,110,980	1,466,020	2,050,600	2,552,900	3,210,800	3,800,000	6,100,000	6,700,000	46

GSM Networks In Africa

[African GSM 900/1800 network operator list]

See [HERE](#) for a list of Operator Web Sites

See [HERE](#) for a list of SMS Message server Web Sites

Country	Type	Startup	Operator	Coverage
Botswana	GSM900	6/1998	Vista cellular (consortium of France Telecom & local partners)	
Botswana	GSM900	6/1998	Mascom (GSM 900)	
Burkina Faso	GSM900	12/96	Onatel	
Cameroon	GSM900	1994	Dirtel	
Cape Verde	GSM 900	1998	Cabo Verde Telecom	
Congo (DR)	GSM900		Congolaise Wireless	
Cote d'Ivoire	GSM900	03/96	Comstar	
Cote d'Ivoire	GSM900	10/96	Loteny Telecom	
Cote d'Ivoire	GSM900	8/96	Societe Ivoirienne de Mobiles	
Djibouti	GSM	1997	undecided	
Egypt	GSM900	8/98	ClickGsm	Cairo, Luxor, Alexandria, Aswan
Egypt	GSM900	12/98	Mirafone	
Egypt	GSM900		MobiNil	
Ethiopia	GSM900	07/98	Ethiopian Telecoms Auth	
Ghana	GSM900	6/96	ScanCom Ltd.	
Ghana	GSM900	1996	Francis Walker Ghana Ltd.	
Lesotho	GSM	12/95	Vodacom Lesotho Pty.	Maserv

<i>Libya</i>	GSM		ORBIT	
<i>Madagascar</i>	GSM900	05/97	Sacel (GSM 900)	all
<i>Madagascar</i>	GSM900	11/97	Madacom	all
<i>Madagascar</i>	GSM900	03/98	SMM	
<i>Malawi</i>	GSM900	7/96	Telecom Networks Malawi	Blantyre/Limbe & Lilongwe
<i>Mali</i>	GSM900	1/98	---	----
<i>Mauritius</i>	GSM900	1/96	Cellplus Mobile Comms	
<i>Morocco</i>	GSM900	4/94	Itissalat Al-Maghrib S.A	Rabat, Casablanca
<i>Mozambique</i>	GSM900	6/97	Empresa Nacional de Telecomunicacoes de Mocambique (TDM)	Maputo, Matola and "Maputo Corridor"
<i>Mozambique</i>	GSM1800	8/98	MCell (GSM 900/1800)	Maputo, Matola and "Maputo Corridor"
<i>Namibia</i>	GSM	4/27/95	Mobile Telecommunications Co. Ltd.	Most of the populated areas of Namibia
<i>Nigeria</i>	GSM	1995	EMIS Nigeria	Lagos
<i>Nigeria</i>	GSM	1995	EMIS (Nigeria)	Lagos, Abuja
<i>Reunion</i>	GSM		Societe Francaise du Radiotelephon	
<i>Rwanda</i>	GSM900	7/98	RwandaCell	
<i>Senegal</i>	GSM900	07/96	Sonatel	nationwide
<i>Seychelles</i>	GSM	11/95	Cable & Wireless (Seychelles) Ltd.	
<i>South Africa</i>	GSM900	6/1/94	Vodacom	nationwide
<i>South Africa</i>	GSM900	6/1/94	Mobile Telephone Networks	nationwide
<i>South Africa</i>	GSM1800		license to issued 12/99	
<i>Sudan</i>	GSM900	01/97	Daewoo & Sudatel	Khartoum & Port Sudan
<i>Sudan</i>	GSM900	1998	Mobitel	
<i>Swaziland</i>	GSM900	7/1998	MTN	nationwide
<i>Tanzania</i>	GSM 900	2/2000	Vodacom	
<i>Tanzania</i>	GSM900	12/95	Tritel	Dar es Salaam & other cities
<i>Tanzania</i>	GSM900	1998	Zanzibar Telecom	Zanzibar
<i>Togo</i>			Togotel	
<i>Tunisia</i>	GSM900	end-96	Ministry of Communications	Tunis
<i>Tunisia</i>	GSM900	03/98	Tunisie Telecom	
<i>Uganda</i>	GSM900	5/98	MTN Uganda (GSM 900)	
<i>Uganda</i>	GSM	5/95	Clovergem Celtel Ltd.	Kampala, Entebbe, Jinja
<i>Zaire</i>	AMPS	1994	Express Communications	

Zambia	GSM900	12/98	Zamtel and partner	
Zimbabwe	GSM900	3/97	Telecel Zimbabwe (PVT) Ltd	Harare & Bulawyo
Zimbabwe	GSM900	1/97	NetOne (GSM 900)	Harare & Bulawyo
Zimbabwe	GSM900	3/97	Econet (GSM 900)	Local

Latest Cellular Stats By Standard

	GSM	GSM-900	PDC	CDMA	TDMA	GSM-1800	GSM-1900
Sep-92							
Dec-92	201500			1500			
Mar-93	394500			3000			
Jun-93	589720			24000			
Sep-93	838220	1500		48500	5000		
Dec-93	1362990	3200		78150	35000		
Mar-94	1889790	6400		154200	55000		
Jun-94	2592530	130900		276600	122000		
Sep-94	3393030	304150		396000	183500		
Dec-94	4628790	532440		565600	378000		
Mar-95	5665900	949000		800000	484000		
Jun-95	7951000	7365000	1500000	0	1100000	586000	0
Sep-95	9884000	9134000	2100000	0	1300000	750000	0
Dec-95	13034000	11928000	3108000	9000	2055000	1066000	40000
Mar-96	16343000	14949000	5227000	11300	2750000	1334000	60000
Jun-96	21148000	19404000	7672000	180000	4500000	1639000	105000
Sep-96	26150000	24000000	10592500	350000	6000000	2000000	150000
Dec-96	32878500	30210000	13920000	987000	2700000	2367000	301500
Mar-97	40200000	37000000	16000000	1100000	3200000	2700000	500000
Jun-97	48900000	45000000	19000000	2500000	4000000	3200000	700,000
Sep-97	58145570	53325000	23619000	4300000	5500000	3865000	955570
Dec-97	71359000	65033000	26772000	5980000	6900000	4995000	1331000
Mar-98	83557000	75507000	30074000	10900000	8000000	6359000	1691000
Jun-98	98858230	88272000	33006000	12900000	10928450	8028000	2123000
Sep-98	114901660	101554000	35728500	16704640	13976430	9661000	2545000
Dec-98	138107240		38114100	22771750	17729410		
Mar-99	161664330		40607400	29171260	21043080		
Jun-99	187316650		42292200	34625760	25519320		