

| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
|--|--|---|------------------------------|--|---|--|
| 900 MHz GSM (mobile) | No spare capacity | 880 MHz - 960 MHz | Cell - C | GSM 900 Mobile | 1x11 MHz duplex | Fully utilised |
| | | | MTN | GSM 900 Mobile | 1x11 MHz duplex | Fully utilised |
| | | | Vodacom | GSM 900 Mobile | 1x11 MHz duplex | Fully utilised |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned(duplex) | Comment |
| 1.3 -1.5 GHz Fixed duplex shared band with reserved channels in some instances | Spectrum is available on a radio co-ordinated basis for PtP low capacity links | 1350 - 1517 MHz | Ekurhuleni Metro | Links | 3x 500 kHz duplex | PtP ad hoc |
| | | | Eskom | Links | 4x 25 kHz duplex | PtP national |
| | | | Eskom | Links | 1x 500 kHz duplex | PtP ad hoc |
| | | | National Research Foundation | Links | 4x 250 kHz duplex | PtP ad hoc |
| | | | Nelson Mandela Metro | Links | 4x 500 kHz duplex | PtP ad hoc |
| | | | SANDF | Links | 4x 25 kHz duplex | PtP national |
| | | | SAND | Links | 3x 500 kHz duplex | PtP national |
| | | | SAPS | Links | 4x 25 kHz duplex | PtP national |
| | | | SAPS | Links | 13x 500 kHz duplex | PtP national |
| | | | Telkom | Links | 4x 25 kHz duplex | PtP national |
| | | | Telkom | Links | 3x 500 kHz duplex | PtP national |
| | | | Transnet | Links | 3x 25 kHz duplex | PtP national |
| | | | Transnet | Links | 3x 500 kHz duplex | PtP national |
| | | | X-Strata | Links | 2x 500 kHz duplex | PtP ad hoc |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth available (SIMPLEX) | Comment |
| 1.5 GHz shared fixed simplex band | Spectrum is available on a radio co-ordinated basis for PtP low capacity simplex links | 1517 - 1525 MHz | none | destination band for migrating VHF/UHF links. E.g.Alarms etc | 140 x 25 kHz & 7 x 500 kHz channels available | not utilised yet |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 1.5 GHz TDAB & SDAB only | Yes. One assignment so far | 1452 - 1479.5 MHz T/DAB & 1479.5 - 1492 MHz S/DAB | Worldspace | Digital Audio Broadcasting: (Terrestrial & Space) | 2 x 2.5 MHz simplex | National deployment for audio broadcasting (unknown if operational or not) |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned(duplex) | Comment |
| 1.7/1.8 GHz (mobile and fixed) | No Spare capacity | 1710 - 1880 MHz (2 x75 MHz) | Vodacom | GSM 1800 mobile | 1x 12 MHz duplex | Fully utilised |
| | | | MTN | GSM 1800 mobile | 1x 12 MHz duplex | Fully utilised |

| | | | Cell C | GSM 1800 mobile | 1x 12 MHz duplex | Fully utilised |
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| | | | Neotel | Fixed Data | 1x 12 MHz duplex | Fully utilised |
| | | | Telkom | GSM 1800 mobile | 1x 12 MHz duplex | Fully utilised |
| | | | WBS | Fixed Data | 1x 12 MHz duplex | Fully utilised |
| | | | WBS | Fixed Data | 1x 10 MHz TDD block | Fully utilised |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 1.9 GHz DECT (fixed) | No Spare capacity | 1880 - 1900 MHz | Telkom | DECT | 1x 20 MHz block | National block assignment to Telkom for DECT |
| | | | Bokone USAL Limpopo | Cor Dect Broadband | 1x 20 MHz block | Details on deployment unavailable (unknown if operational or not) (regional) |
| | | | Cordless DECT phones (portable) | DECT | 1x 20 MHz block | Cordless DECT phones (unlicensed) |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 1.9 GHz Extended DECT | No Spare capacity | 1900 - 1920 MHz | Telkom | Extended DECT | 1x 20 MHz block | Full national block assigned to Telkom for Extended DECT. |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 2.0 GHz FS Band | Spectrum is available on a radio co-ordinated basis for PtP low/medium capacity links | 2025 - 2110 MHz // 2200 - 2285 MHz | CSIR | Links | 2 x 4.6 MHz simplex | Satellite Tracking Links (ad hoc) |
| | | | Richardsbay Minerals | Links | 2x 3.5 MHz duplex | PtP ad hoc "new plan" |
| | | | | | 3x 7 MHz duplex | PtP ad hoc "new plan" |
| | | | Transnet | Links | 2x 28 MHz duplex | Ad hoc "legacy" 2 GHz links moved from 3G band (deployments unknown) |
| | | | SANDF | Links | 2x 28 MHz duplex | Ad hoc "legacy" 2 GHz links moved from 3G band (deployments unknown) |

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| | | | Telkom | Links | 1x 28 MHz duplex | Ad hoc "legacy" 2 GHz links moved from 3G band (deployments unknown) |
| | | | | Links | 4x 3.5 MHz duplex | Ad hoc "legacy" 2 GHz links moved from 3G band (deployments unknown) |
| | | | Telsis (military) | Links | 1x 28 MHz duplex | Ad hoc "legacy" 2 GHz links moved from 3G band (deployments unknown) |
| | | | Mbombela Municipality (ad hoc) | Links | 4x 3.5 MHz duplex | PtP ad hoc "new plan" |
| | | | Sumbandilasat | Downlink | 1x 60 MHz | Satellite Links (ad hoc) |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 1.9/2.1 GHz (3G - mobile) | No spare capacity | 1920 - 1980 MHz // 2110 - 2170 MHz (FDD) | Vodacom | 3G Mobile/Data | 2x 15MHz duplex | National |
| | | | MTN | 3G Mobile/Data | 2x 15MHz duplex | National |
| | | | Cell C | 3G Mobile/Data | 2x 15MHz duplex | National |
| | | | Telkom | 3G Mobile/Data | 2x 15MHz duplex | National |
| | | 2010 - 2025 MHz (TDD) | Vodacom | | 1x 5MHz TDD | National |
| | | | MTN | | 1x 5MHz TDD | National |
| | | | vacant | | 1x 5MHz TDD | unassigned |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 2.3/2.4 GHz *** | No Spare capacity left. Identified as probable future high demand IMT band | 2300 - 2483.5 MHz | Telkom | Links | 34x 2 MHz duplex | TDMA National |
| *** Parts of this band is also used for ISM & Short Range Devices which are spectrum licence exempt. 2.3 - 2.4 GHz identified as IMT band | | | Arm Scor | Links | 1x2 MHz TDD | Ad hoc Military (unknown application or if still operational) |
| | | | DENEL | Links | 1x 0.01 MHz TDD | Ad hoc Military (unknown application or if still operational) |
| | | | Eskom | Links | 4x 3.5 MHz duplex | Regional TDMA |

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| | | | SABC | Outside Broadcasting Video Links | 1x 28 MHz simplex | OB video links at sporting, and other venues (ad hoc national basis) (unknown if still used) |
| | | | Dimension RF | Outside Broadcasting Video Links | 1x 28 MHz simplex | OB video links at sporting, and other venues (ad hoc national basis) (unknown if still used) |
| | | | SAPS | Mobile Video | 2x 28 MHz simplex | Ad hoc mobile helicopter video links when needed (unknown if still used) |
| | | | Ilali Holdings | Mine Safety | 1x 20 MHz TDD | Unknown if still used |
| | | | East Coast Assist | Marine Safety Buoy | 1x 30 MHz TDD | Unknown if still used |
| | | | Transnet | Links | 1x 3.5 MHz duplex | Regional TDMA |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 2.6 GHz | Yes, 130 MHz spectrum available (pending high demand spectrum licensing process being in place) | 2500 - 2690 MHz | Sentech | Broadband | 2500 - 2550 MHz | Band not finalised. Council committee deliberating on this band |
| | | | WBS (iBurst) | Broadband | 2550 - 2565 MHz | Band not finalised. Council committee deliberating on this band |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 3.5 GHz | Yes, 2x 14 MHz available (pending high demand spectrum licensing process being in place) | 3400 - 3600 MHz | Sentech | Unknown | 1x 14 MHz duplex | National license |
| | | | Neotel | Unknown | 1x 28 MHz duplex | National license |
| | | | Telkom | Unknown | 1x 28 MHz duplex | National license |
| | | | USAL | Unknown | 1x 14 MHz duplex | National license |
| | | | Spare | Unknown | 1x 14 MHz duplex | Available. Band not finalised |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |

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| C-Band satellite, (space-Earth) & terrestrial FS | Yes. Spectrum available for satellite services pending radio co-ordination with existing terrestrial services. | 3.6 - 4.2 GHz | Telkom | Links | 1x 600 MHz duplex | PtP "legacy" national fixed services Backhaul as well as C-Band Satellite |
| | | | La Fontaine Restaurant | VSAT | unknown | Ad hoc Legacy assignment from 1991 (unknown if utilised) |
| | | | Mc Gregor WC | VSAT | unknown | Ad hoc Legacy assignment from 1991 (unknown if utilised) |
| | | | Moag JS | VSAT | unknown | Ad hoc Legacy assignment from 1991 (unknown if utilised) |
| | | | Molefe TG | VSAT | unknown | Ad hoc Legacy assignment from 1991 (unknown if utilised) |
| | | | Scandurra S | VSAT | unknown | Ad hoc Legacy assignment from 1991 (unknown if utilised) |
| | | | University of Cape Town | VSAT | unknown | Ad hoc Legacy assignment from 1991 (unknown if utilised) |
| | | | Anglo Platinum Management Services | VSAT | 0.5 MHz | Ad hoc Satellite service |
| | | | Barrick Africa | VSAT | 0.582 MHz | Ad hoc Satellite service |
| | | | Peoples Republic of China Embassies | VSAT | 2.0017 MHz | Ad hoc Satellite service |
| | | | Council for Geoscience | VSAT | 8 MHz | Ad hoc Satellite service |
| | | | CSIR | Sat Tracking | 600 MHz | Ad hoc Assistance to NASA |
| | | | CTBTO | VSAT | 0.624 MHz | Ad hoc Satellite service |
| | | | Globecast SA | Sat downlink | 9 MHz | Ad hoc Satellite service |

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| | | | Impala Platinum Holdings | VSAT | 0.52 MHz | Ad hoc Satellite service |
| | | | JICA | VSAT | 0.38 MHz | Ad hoc Satellite service |
| | | | Multichoice | Sat downlink | 3 MHz | Ad hoc Satellite service |
| | | | NECSA | VSAT | 3.2 MHz | Ad hoc Satellite service |
| | | | Neotel | VSATs | 10.29958 MHz | Ad hoc Satellite service |
| | | | Orbicom | Sat downlinks | 471.6985 MHz | Ad hoc Satellite service |
| | | | SA Trade Mission | VSAT | 2.6 MHz | Ad hoc Satellite service |
| | | | SANDF | Sat downlinks | 380 MHz | Ad hoc Satellite service |
| | | | Transtel (Transnet) | VSAT | 3.9422 MHz | Ad hoc Satellite service |
| | | | UN World Food Program | VSAT | 0.275 MHz | Ad hoc Satellite service |
| | | | Verizon Business | VSAT | 1.8 MHz | Ad hoc Satellite service |
| | | | Vodacom | VSAT | 7.77 MHz | Ad hoc Satellite service |
| | | | WBS | VSAT and PMP LINKS | 148.02 MHz | Ad hoc Satellite service |
| | | | Weather Bureau | VSAT | 0.023 MHz | Ad hoc Satellite service |
| | | | Worldbank | VSAT | 18 MHz | Ad hoc Satellite service |
| | | | Worldcom Solutions | VSAT | 2.222 MHz | Ad hoc Satellite service |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 4.4 - 5.0 GHz | Yes. Spectrum is available to SANDF, SAPS on a radio co-ordinated basis. (a) reserved for Government National Security backhaul links. Destination band for Military and Safety & Security due to clearing of 3G band. | 4488 - 4684 MHz & 4800 - 5000 MHz | SANDF | Links | 4x 28 MHz duplex | PtP ad hoc defence |

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| | | | SAPS | Links | 3x 28 MHz duplex | PtP ad hoc (National TETRA Network) |
| | | | SAPS | Aeronautical Mobile Video | 4x 10 MHz TDD blocks | National Crime Scene Monitoring |
| 4.4 - 5.0 GHz | (b) reserved for Outside Broadcasting events. Destination band for OB from migration from 3G band. | 4400 - 4490 MHz & 4690 - 4800 MHz | Telemedia | Outside Broadcasting Links | 4x 10 MHz TDD blocks | National video coverage of Sporting And News Venues |
| | | | Airtime SABC | Outside Broadcasting Links | 5x 10 MHz TDD blocks | National video coverage of Sporting And News Venues |
| | | | Mnet | Outside Broadcasting Links | 2x 10 MHz TDD blocks | National video coverage of Sporting And News Venues |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| C-Band satellite, (Earth-space) & terrestrial FS | Yes. Spectrum available for satellite services pending radio co-ordination with existing terrestrial services. | 5.85-6.725 GHz | WBS | Links | 5-20 MHz TDD channels | PtP ad hoc (5875 - 5925 MHz) |
| | | | Anglo Platinum Management Services | VSAT | 0.5 MHz | Ad hoc Satellite service |
| | | | Barrick Africa | VSAT | 0.592 MHz | Ad hoc Satellite service |
| | | | Peoples Republic of China Embassies | VSAT | 0.27 MHz | Ad hoc Satellite service |
| | | | Council for Geoscience | VSAT | 1.0 MHz | Ad hoc Satellite service |
| | | | CSIR | Sat Tracking | 2.4 GHz | Ad hoc Assistance to NASA |
| | | | CTBTO | VSAT | 0.684 MHz | Ad hoc Satellite service |
| | | | Embassy Slovak Republic | VSAT | 0.1 MHz | Ad hoc Satellite service |
| | | | Globecast SA | Sat uplink | 18 MHz | Ad hoc Satellite service |
| | | | Impala Platinum Holdings | VSAT | 0.52 MHz | Ad hoc Satellite service |
| | | | Infovan | Links | 30 MHz | PtP ad hoc (5875 - 5925 MHz) |
| | | | JICA | VSAT | 0.3 MHz | Satellite service |
| | | | Mitsol | Links | 15 MHz TDD | PtP ad hoc (5875 - 5925 MHz) |
| | | | Multichoice | VSAT | 3 MHz | Ad hoc Satellite service |
| | | | NECSA | VSAT | 0.4 MHz | Ad hoc Satellite service |
| | | | Neotel | VSAT | 10.46868 MHz | Ad hoc Satellite service |

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| | | | Orbicom | Sat uplink | 501.6985 MHz | Ad hoc Satellite service |
| | | | SA Trade Mission | VSAT | 2.6 MHz | Ad hoc Satellite service |
| | | | SANDF | VSAT | 380 MHz | Ad hoc Satellite service |
| | | | Sentech | VSAT | 8.02 MHz | Ad hoc Satellite service |
| | | | Telkom | VSAT | 575 MHz | Ad hoc Satellite service |
| | | | Transtel (Transnet) | VSAT | 3965.4 MHz | Ad hoc Satellite service |
| | | | UN World Food Program | VSAT | 0.275 MHz | Ad hoc Satellite service |
| | | | Urban Brew Studios | VSAT | 9 MHz | Ad hoc Satellite service |
| | | | Vodacom | VSAT | 5.2 MHz | Ad hoc Satellite service |
| | | | WBS | VSAT | 4.018 MHz | Ad hoc Satellite service |
| | | | Verizon Business | VSAT | 5.6 MHz | Ad hoc Satellite service |
| | | | Weather Bureau | VSAT | 0.023 MHz | Ad hoc Satellite service |
| | | | Worldbank | VSAT | 18 MHz | Ad hoc Satellite service |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 6.0 GHz lower | No. | 5.9452 - 6.40479 GHz | Telkom | Links | 8x 29.65 MHz duplex | PtP Legacy band assigned to Telkom |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 6.0 GHz upper normal | No. | 6.460 - 7.080 GHz | Telkom | Links | 8x 40 MHz duplex | PtP Legacy band assigned to Telkom |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 6.0 GHz upper interleaved | No. | 6.440 - 7.080 GHz | Telkom | Links | 16x 20 MHz duplex | PtP Legacy band assigned to Telkom |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 7.0 GHz lower | Yes. Spectrum is available on a radio co-ordinated basis | 7.121 - 7.429 GHz | Eskom | Links | 4x 28 MHz duplex | PtP ad hoc |
| | | | Karsten Farms | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | Platitel (USAL) | Links | 2x 28 MHz duplex | PtP ad hoc |
| | | | Neotel | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | SANDF | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | Telkom | Links | 5x 28 MHz duplex | PtP ad hoc |
| | | | Telfree | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | Richardsbay Minerals | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | Vodacom | Links | 5x 28 MHz duplex | PtP ad hoc |
| | | | Emid | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | Screamer Telecommunications | Links | 3x 28 MHz duplex | PtP ad hoc |
| | | | Sentech | Links | 2x 28 MHz duplex | PtP ad hoc |
| | | | MTN | Links | 1x 28 MHz duplex | PtP ad hoc |

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| | | | Weather Bureau | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | SABC | Links | 3x 28 MHz duplex | PtP ad hoc |
| | | | Dimension RF | Links | 1x 28 MHz duplex | PtP ad hoc |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 7.0 GHz upper | Yes. Spectrum is available on a radio co-ordinated basis | 7.457 - 7.737 GHz | SANDF | Links | 2x 28 MHz duplex | PtP ad hoc |
| | | | Telkom | Links | 5x 28 MHz duplex | PtP ad hoc |
| | | | Vodacom | Links | 5x 28 MHz duplex | PtP ad hoc |
| | | | Amatole | Links | 2x 28 MHz duplex | PtP ad hoc |
| | | | Stellenbosch University | Links | 1x 28 MHz duplex | PtP ad hoc |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 7.0 GHz "old" analogue | No. Discontinued channel plan | 7.435048 - 7.703282 MHz | Telkom | Links | 6x 23.324 MHz duplex | PtP Legacy band assigned to Telkom |
| | | | Weather Bureau | Links | 2x 25 MHz duplex | PtPad hoc "legacy" |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 8.0 GHz lower analogue (digital) | Yes. Spectrum is available on a radio co-ordinated basis | 7.7477 - 8.26657 GHz | Eskom | Links | 2x 29.65 MHz duplex | PtP ad hoc |
| | | | SANDF | Links | 4x 29.65 MHz duplex | PtP ad hoc |
| | | | Broadband Infraco | Links | 2x 29.65 MHz duplex | PtP ad hoc |
| | | | Transnet | Links | 4x 29.65 MHz duplex | PtP ad hoc |
| | | | Vodacom | Links | 2x 29.65 MHz duplex | PtP ad hoc |
| | | | SAPS | Links | 1x 29.65 MHz duplex | PtP ad hoc |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 8.0 GHz upper | Yes. Spectrum is available on a radio co-ordinated basis. | 8.286 - 8.489 MHz | City of Cape Town | Links | 2x 7 MHz duplex | PtP ad hoc |
| | | | CSIR | Links | 1x 20 MHz | PtP ad hoc |
| | | | Eskom | Links | 6x 7 MHz duplex | PtP ad hoc |
| | | | MTN | Links | 1x 7 MHz duplex | PtP ad hoc |
| | | | N.I.T.R. | Links | 1x 20 MHz | PtP ad hoc |
| | | | Phalabora Mining Company | Links | 1x 12 MHz | PtP ad hoc |
| | | | Richardsbay Minerals | Links | 1x 7 MHz duplex | PtP ad hoc |
| | | | SANDF | Links | 3x 7 MHz duplex | PtP ad hoc |
| | | | SAPS | Links | 3x 7 MHz duplex | PtP ad hoc |
| | | | Transnet | Links | 4x 7 MHz duplex | PtP ad hoc |
| | | | Afrocall Satellite | Links | ?x 14 MHz duplex | PtP ad hoc |
| | | | Mitsol PTY Ltd | Links | ?x 14 MHz duplex | PtP ad hoc |

| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
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| 10 GHz (PtMP) | No. | 10.150 - 10.300 // 10.50 - 10.650 GHz | Internet Solutions | Links | ?x 14 MHz duplex | PtP ad hoc |
| | | | MTN | Links | 1x 28 MHz duplex | PtMP ad hoc |
| | | | Cell C | Links | 1x 28 MHz duplex | PtMP ad hoc |
| | | | Neotel | Links | 1x 28 MHz duplex | PtMP ad hoc |
| | | | Sentech | Links | 1x 28 MHz duplex | PtMP ad hoc |
| | | | WBS | Links | 1x 28 MHz duplex | PtMP ad hoc |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 11 GHz FS band & satellite FSS | No. Sharing with BSS & Ku band services | 10.7 - 11.7 GHz | Telkom | Links | 12X 40 MHz duplex | PtP national "legacy" assignment |
| | | | MTN | Links | 2x 40 MHz duplex | PtP ad hoc assignments |
| | | | Africa Business News CNBC | | 4.5 MHz | Ad hoc Satellite service |
| | | | Citrine Communications | | 120 MHz | Ad hoc Satellite service |
| | | | Globecast South Africa | | 28.5 MHz | Ad hoc Satellite service |
| | | | Intelsat SA | | 0.7168 MHz | Ad hoc Satellite service |
| | | | Internet Solutions | | 19.562 MHz | Ad hoc Satellite service |
| | | | Liquid Telecommunications Operations | | 36 MHz | Ad hoc Satellite service |
| | | | Orbicom | | 396 MHz | Ad hoc Satellite service |
| | | | Scandurra S | | 180 MHz | Ad hoc Satellite service |
| | | | Sentech | | 72 MHz | Ad hoc Satellite service |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 13 GHz | Yes. Spectrum is available on a radio co-ordinated basis. | 12.75 - 13.25 GHz | Telkom | Links | 8x 28 MHz duplex | PtP ad hoc |
| | | | Broadband Infracore | Links | 2x 28 MHz duplex | PtP ad hoc |
| | | | Eskom | Links | 2x 28 MHz duplex | PtP ad hoc |
| | | | Stellenbosch University | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | Amatole Telecomms | Links | 2x 28 MHz duplex | PtP ad hoc |
| | | | MTN | Links | 2x 28 MHz duplex | PtP ad hoc |
| | | | Pretoria City Council | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | SABC | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | SANDEF | Links | 2x 28 MHz duplex | PtP ad hoc |
| | | | Sentech | Links | 5x 28 MHz duplex | PtP ad hoc |
| | | | Transnet | Links | 5x 28 MHz duplex | PtP ad hoc |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |

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| 11.7 - 14.5 GHz Ku Band | Yes. Spectrum is available for satellite services. | 11.7 - 14.5 GHz | Africa Business News CNBC | SNG/ENG/VSAT | 9 MHz | Ad hoc Satellite service |
| | | | African Bank | VSAT | 1.37 MHz | Ad hoc Satellite service |
| | | | Al Jazeera Network | SNG/ENG/VSAT | 6 MHz | Ad hoc Satellite service |
| | | | APTN | SNG/ENG/VSAT | 18 MHz | Ad hoc Satellite service |
| | | | British Telecomms | SNG/ENG/VSAT | 9 MHz | Ad hoc Satellite service |
| | | | Citrine Communications | Feeder link | 8x 30 MHz | Ad hoc Satellite service |
| | | | CNN | SNG/ENG/VSAT | 18 MHz | Ad hoc Satellite service |
| | | | CSIR | Telemetry Tracking & Command | 6.2 MHz | Ad hoc Satellite service |
| | | | Dimension Television | SNG/ENG/VSAT | 9 MHz | Ad hoc Satellite service |
| | | | Embassy of Angola | VSAT | unknown | Ad hoc Satellite service |
| | | | Eskom | VSAT | 0.392 MHz | Ad hoc Satellite service |
| | | | Exficor SA | VSAT | 0.128 MHz | Ad hoc Satellite service |
| | | | Globecast South Africa | SNG/ENG/VSAT | 562.695 MHz | Ad hoc Satellite service |
| | | | Intelsat | SNG | 2.1504 MHz | Ad hoc Satellite service |
| | | | Mentor Facility | SNG/ENG/VSAT | 112 MHz | Ad hoc Satellite service |
| | | | Multichoice | Feeder links | 1465.12 MHz | Ad hoc Satellite service |
| | | | Neotel | VSAT | 31.04496 MHz | Ad hoc Satellite service |
| | | | NH van der Westhuizen | SNG | 9 MHz | Ad hoc Satellite service |
| | | | On Digital Media | Feeder links | 108 MHz | Ad hoc Satellite service |
| | | | Orbicom | Feeder links | 476 MHz | Ad hoc Satellite service |
| | | | Purple Turtle | SNG/ENG/VSAT | 4.4 MHz | Ad hoc Satellite service |
| | | | SAAB Grintek | VSAT | 0.8 MHz | Ad hoc Satellite service |
| | | | SABC | SNG/ENG/VSAT | 60 MHz | Ad hoc Satellite service |
| | | | Scandurra S | ? | 360 MHz | Ad hoc Satellite service |
| | | | Sentech | Feeder Links | 532.7 MHz | Ad hoc Satellite service |
| | | | Siemens | VSAT | 6.62 MHz | Ad hoc Satellite service |
| | | | Vodacom | VSAT | varying BW | Ad hoc Satellite service |
| | | | Telemedia | Feeder links | 684 MHz | Ad hoc Satellite service |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned (duplex) | Comment |
| 15 GHz FS Fixed duplex shared band with reserved channels in some instances | Yes. Spectrum is available on a radio co-ordinated basis. Some channels were assigned on reserved basis | 14.50 - 15.35GHz | Eskom | Links | 3x 28 MHz duplex | PtP national |
| | | | WBS | Links | 1x 28 MHz duplex | PtP national |

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| | | | | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | MTN | Links | 1x 28 MHz duplex | PtP national |
| | | | Vodacom | Links | 1x 28 MHz duplex | PtP national |
| | | | | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | Transnet | Links | 1x 28 MHz duplex | PtP national |
| | | | Tshwane University of Technology | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | Cell-C | Links | 1x 28 MHz duplex | PtP national |
| | | | Mweb | Links | 2x 14 MHz duplex | PtP ad hoc |
| | | | SASOL | Links | 4x 7 MHz duplex | PtP ad hoc |
| | | | SANDF | Links | 2x 7 MHz duplex | PtP ad hoc |
| | | | City of Johannesburg | Links | 4x 14 MHz duplex | PtP ad hoc |
| | | | Rustenburg Platinum Mines | Links | 2x 7 MHz FDD | PtP ad hoc |
| | | | Neotel | Links | 2x 28 MHz duplex | PtP national |
| | | | SAPS | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | Telemedia | OB | 1x 28 MHz | PtP ad hoc |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 18 GHz | Yes. FS services on co-ordinated basis. Also Sharing with FSS services | 17.7 GHz - 19.7 GHz | Telkom | Links | 17x 55 MHz or 34x 27.5 MHz or 131x 7.5 MHz duplex | PtP national "legacy" assignment |
| | | | Vodacom | Links | 4x 27.5 MHz duplex | PtP ad hoc |
| | | | Nelson Mandela Metro | Links | 1x 27.5 MHz duplex | PtP ad hoc |
| | | | Joburg Metro | Links | 1x 27.5 MHz duplex | PtP ad hoc |
| | | | Ekurhuleni Metro | Links | 1x 27.5 MHz duplex | PtP ad hoc |
| | | | Boksburg City Council | Links | 1x 27.5 MHz duplex | PtP ad hoc |
| | | | Orbicom | Sat feeder link | 2x 33 MHz | Uplink |
| | | | MTN | Links | 1x 27.5 MHz duplex | PtP ad hoc |
| | | | Anglo Operations Limited | Links | 2x 27.5 MHz duplex | PtP ad hoc |
| | | | De Beers | Links | 2x 55 MHz duplex | PtP ad hoc |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 23 GHz | Yes. Spectrum is available on a radio co-ordinated basis. Some channels were assigned on reserved basis | 21.2 - 23.6 GHz (subdivided in 10x subbands) | Transnet | Links | Subband 1a & 1b duplex | PtP national |
| | | | Telkom | Links | Subband 2, 3, 7, & 9 duplex | PtP national |
| | | | ATNS | Links | 1x 3.5 MHz duplex | PtP ad hoc |
| | | | Eskom | Links | Subband 4 & 8 duplex | PtP national & ad hoc |

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| | | | Telewave | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | Vaalreefs | Links | 1x 3.5 MHz & 1x 7 MHz duplex | PtP ad hoc |
| | | | Iscor | Links | 1x 7 MHz duplex | PtP ad hoc |
| | | | Richardsbay Minerals | Links | 6x 7 MHz duplex | PtP ad hoc |
| | | | Boksburg City Council | Links | 1x 7 MHz duplex | PtP ad hoc |
| | | | Mweb | Links | 2x 14 MHz duplex | PtP ad hoc |
| | | | Rand Water | Links | 1x 7 MHz duplex | PtP ad hoc |
| | | | BMW of SA | Links | 1x 14 MHz duplex | PtP ad hoc |
| | | | Pretoria City Council | Links | 2x 14 MHz duplex | PtP ad hoc |
| | | | SAPS | Links | 2x 14 MHz & 1x 28 MHz duplex | PtP ad hoc |
| | | | SASOL | Links | 2x 7 MHz duplex | PtP ad hoc |
| | | | City of Cape Town | Links | 1x 7 MHz & 1x 14 MHz duplex | PtP ad hoc |
| | | | Amatole Telecomms | Links | 3x 28 MHz duplex | PtP ad hoc |
| | | | Highveld Racing | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | SANDF | Links | 2x 14 MHz or 9x 7 MHz duplex | PtP ad hoc |
| | | | MTN | Links | 1x 28 MHz duplex | PtP ad hoc |
| | | | Teleservice | Links | 1x 28 MHz duplex | PtP ad hoc |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 26 GHz | Yes. Spectrum is available on a radio co-ordinated basis. Some channels were assigned on reserved basis | 24.549 - 26.453 GHz | Telkom | Links | 6x 28 MHz duplex | PTP & PtMP National |
| | | | Transnet | Links PtP | 1x 28 MHz duplex | PtP ad hoc |
| | | | Internet Solutions | Links PtP | 1x 28 MHz duplex | PtP ad hoc |
| | | | WBS | Links PtP & PtMP | 1x 28 MHz duplex | PTP & PtMP National |
| | | | MWeb | Links PtP & PtMP | 1x 28 MHz duplex | PtP ad hoc |
| | | | MTN | Links PtP & PtMP | 2x 28 MHz duplex | PTP & PtMP National |
| | | | Vodacom | Links PtP & PtMP | 3x 28 MHz duplex | PTP & PtMP National |
| | | | Tshwane University of Technology | Links PtP | 2x 28 MHz duplex | PtP ad hoc |
| | | | Neotel | Links PtP & PtMP | 5x 28 MHz duplex | PTP & PtMP National |

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| | | | Screamer | Links PtP & PtMP | 1x 28 MHz duplex | PtP ad hoc (<u>unknown if operational</u>) |
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| | | | Sentech | Links PtP & PtMP | 2x 28 MHz duplex | PTP & PtMP National |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 28 GHz | Yes. Spectrum is available on a radio co-ordinated basis. Some channels were assigned on reserved basis | 27.0 - 29.5 GHz | Afro Call Satellite | PtMP | 2x 56 MHz duplex | PtMP national |
| | | | WBS | PtMP | 4x 28 MHz duplex | PtMP national |
| | | | MTN | PtMP | 4x 28 MHz duplex | PtMP national |
| | | | Dimension Data | PtMP | 4x 28 MHz duplex | PtMP national |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 31 GHz | Yes. Spectrum is available. No assignments yet | 31.0 - 31.8 GHz | none | Video surveillance & HAPS | none | not utilised yet |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 32 GHz | Yes | 31.8 - 33.4 GHz | none | HDFS | | not utilised yet |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 38 GHz | Yes. Spectrum is available on a radio co-ordinated basis | 37.0 - 39.5 GHz | Telkom | links | 2x 56 MHz duplex | PtP national |
| | | | Internet Solutions | links | 1x 56 MHz duplex | PtP ad hoc |
| | | | Mweb | links | 1x 56 MHz duplex | PtP ad hoc |
| | | | Sentech | links | 1x 28 MHz duplex | PtP ad hoc |
| | | | Eskom | links | 1x 56 MHz duplex | PtP national |
| | | | Mweb | links | 2x 14 MHz duplex | PtP ad hoc |
| | | | Transnet | links | 1x 28 MHz duplex | PtP national |
| | | | Vodacom | links | 1x 56 MHz duplex | PtP national |
| | | | MTN | links | 1x 56 MHz duplex | PtP national |
| | | | Cell - C | links | 1x 56 MHz duplex | PtP national |
| | | | Rosewell Trading | links | 1x 14 MHz duplex | PtP ad hoc |
| | | | SAPS | links | 1x 28 MHz duplex | PtP ad hoc |
| | | | Screamer | links | 1x 56 MHz duplex | PtP ad hoc |
| | | | Tshwane University of Technology | links | 1x 28 MHz duplex | PtP ad hoc |
| | | | Neotel | links | 1x 56 MHz duplex | PtP national |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 42 GHz | No (planning phase) | 40.5 - 43.5 GHz | none | HDFS (high density fixed service) | not available yet | interest shown from industry |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |

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| 60 GHz | Yes, whole band available for assignment | 1x 7 GHz block (57 - 64 GHz) | | PtP links | Channelisation not planned yet. | Various vendors have shown interest to use the band. Regulations to be put in place. |
| Frequency Band | Availability | Frequency Band Size | User | Application | Ch Bandwidth assigned | Comment |
| 71-76 GHz // 81-86 GHz | Yes, whole band available for assignment | 2x 5 GHz blocks | | PtP links | not planned yet | Various vendors have shown interest to use the band. Regulations to be put in place. |