

# GO DIGITAL

SOUTH AFRICA



UKUFUDUKELA  
EKURHATJHENI  
NGEDIJITHALI  
(BDM)  
A – Z



**the doc**

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UmNyango wezokuThintana (i-DoC) utlame iphetjhanasaziso nge-Go *DIGITAL South Africa* ukufundisa, ukwazisa nokuyelelisa mayelana nokufudukela ekurhatjheni ngedijithali.

## 1. ISENDLALELO

I-Go *Digital South Africa* siqubulo sendlela yokurhatjha ngokufudukela kudijithali ngeSewula Afrika. Selokhu itheknoloji ye-TV yafika ngeSewula Afrika ukusukela nomnyaka we-1976. I-TV yathoma ngeenthombe ezinombala onzima nomhlophe, yatjhugulukela eenthombeni zemibala. Ihlelo lebandlululo lalivumela amakhuwa ukuba nama-TV amanengi kunezinye iihlanga ngelizweni. Ngemva konyaka we-1994, ilizwe lethula imithetho eyenza kobana kujameleke amaSewula Afrika wo ke alingane kezokurhatjha, kungayi ngobuhlanga nanyana ubujamo kezo mnotho.

Namhlanjesi, iingidi zemizi ezili-13-ngeSewula Afrika zinama-TV begodu zibukela namahlelo arhatjha ngamalimi wabo. Urhulumende uyaraga nokuqinisekisa kobana kufumaneke iinsetjenziswa nokufikeleleka kwelwazi ngokunikela izenzelwa zokurhatjha ngehlelo lokurhatjha lokufudukela kudijithali elithembisa ukuqinisa ukwahlukahlukana nokufumana ilwazi khulukhulu kuzakhamuzi zeSewula Afrika ezazidinywe amathuba. Urhulumende uzakusekela imizi edobha phasi eziingidi ezihlanu enama-TV ngamabhoksi we-set top (ama-STB) wasimahla.

## 2. KHUYINI UKUFUDUKELA KUDIJITHALI

Ukufudukela kudijithali kufuduka ehlelweni le-analogu kusetjenziswe i-eriyeli yedijithali. Lokhu kuyindlela yokusuka ekurhatjheni ku-TV nanyana umrhatjho nge-analogu kutjhugulukelwe kudijithali. ISewula Afrika izothoma nge-TV, umrhatjho uzakulandela esikhathini esizako.

### 2.1 I-analogu

Ngaphambi komnyaka we-1990, ukurhatjha kwetjhada nevidiyo ngomoya gade kwenziwa nge-eriyeli ye-analogu. Nofana indlela le gade isebenza kuhle, gade ithatha isikhala esinengi esilinganisweni sokurhatjha. I-TV nomrhatjho zabelwa isilinganiso esiqakathekileko. Lokhu kuhlathulula kobana kuneenlinganiso ezihlukileko ezabelwa ukusebenza kwemirhatjho ne-TV. Indlela le ayisebenzi ngokwaneleko ekuletheni iintetjhi zokurhatjha ezinengi.

#### 2.1.1 Ubuja mo bagadesi:

Iintetjhi ze-TV nezomrhatjho zabelwe iintetjhi ukuya ngeendawo.

- Isibonelo, i- *Metro FM* imrhatjho welizwe loke. E-Gauteng ifumaneka ku-*FM 92.4mhz* kodwana e-Durban, eKapa, nanyana enye nanye indawo ngelizweni, umrhatjho lo ufumaneka kesinye nesinye isitetjhi. Lokhu kuhlathulula kobana kukhona ukumotjheka kwesikhala sokurhatjha.
- Isitetjhi se-TV ngasinye sabelwa umdumo ehlu kileko endaweni eyodwa, okwenza kobana kube nokubukela okurhunyeziweko nokuthayela kweentetjhi ezinengi ze-TV.
- Ikwaliithi yesithombe se-TV yakho siya ngobujamo be-eriyeli nebanga hlangana ne-TV kunesikhambisi esiseduze.
- Ukuya ngokwehlelo le-eriyeli ye-analogu umuntu ufumana iisetjhi somrhatjho nanyana se-TV eyodwa kwaphela. Ukurhatjha kwe-TV nge-analogu nedijithali ngokuvamileko kusebenzisa iinkhambisi zesiTetjhi seZinga eliPhakemeko (i-UHF) nanyana isiTetjhi seZinga eliPhakeme Khulu (i-VHF).

## 2.2 Idijithali

Ukurhatjha ngedijithali kwathoma ngemva komnyaka we-1990, lapho itjhada, ividiyo, imitlolo neenthombe ezingasikinyekiko gade zidluliswa ngamadijithi amabili, elilodwa nedijithi elilize. Umhlobo lo wetheknoloji wenza kobana umlayezo urhunyezwe, okuyindlela yokonga isikhala.

I-DTT yi-TV yeDijithali esebenza ngeSathelayithi, kodwana isebenzisa iinkhambisi ezenjelweko (zetherestriyali) zedijithali ukusabalalisa ama-eriyeli ngenmlinakho.

Iinkhambisi zama-eriyeli wedijithali zizasisiza soke.

- Ngesitetjhi esisodwa se-analogu ukudlulisa isisetjenziswa se-1 x TV gadesi kodwana ngedijithali singadlulisa iinsetjenziswa ze-TV ezineenthombe ezinekhwaliti ejayelekileko ezingaphezu kwezili-15.
- Idijithali isebenzisa isikhala sokurhatha ngezinga eliphakemeko. Endaweni yinye, zoke iinkhambisi zingasebenza ngesitetjhi esifanako ngaphandle kokuphazamiseka. Ngemva kokuvalwa kwe-analogu, isikhala esikhule sizakubuyiselwa kuBandla eliziJameleko lezokuThintana leSewula Afrika (i-ICASA). Isikhala lesi sizakunikelwa abanikeli beensetjenziswa zomato kobana baqinise iinsiza zabo ezidluliselwa emphakathini.
- Abasebenzisi bazakufanelwa kufumana i-STB ukutjhugulula i-eriyeli ye-analogu ukuya kudijithali kobana ama-TV wabo afumane isithombe sedijithali esibonakala kuhle. Akunasidingo sokuthenga enye i-TV.

Amahlelo we-TV asatjalaliswa ngetherestriyali, i-sathelayithi namakhebula weenkhambisi. ESewula Afrika sisebenzisa isathelayithi yedijithali kanti msinyana kuzokusetjenziswa ithereestriyali yedijithali. Ukulethwa kwekhebuli sekwenziwa ngeKambiso ye-inThanethi (i-IP TV-internet) kodwana ihlelveli alifumaneki ngobunengi ngokuqintelwa kwemkhawulelommumatho, i-bandwidth.

### 2.2.1 Ihlathululo yetherestriyali ne-TV yesethalayithi

- UkuRhatjha ngeSathelayithi kusebenzisa isathelayithi, okuyindlela engehla kwephasi. Ama-eriyeli wokurhatjha athunyelwa kusathelayithi, ababukeli bafumana iinthombe ngesa-mukelimaza, i-satellite dish. Iisitetjenziswa lesi sibizwa i-Direct to Home (i-DTH).
- I-TV yetherestriyali isebenzisa ithungelelwano lama-TV wetherestriyali (imibhotjhongo enzize phasi) ukudlulisa ama-eriyeli ngelizweni mazombe. Umbhotjhongo ngamunye unendawo oyibambako, begodu kulithungelelwano lelo eliletha iinthombe ze-TV ngenareni mazombe. Nawusendaweni enombhotjhongo uzakusiza ukufumana ukurhatjha ngeendawenekhenu.



### 3. INZUZO YE-DTT:

- 3.1 I-DTT ithembisa iintetjhi ezinengi (nokurhatjha ngamalimi wesintu) namahlelo angezelelweko njengezemidlalo, zefundo, zamaphilo, zabantwana, zepalamende, zokuzithabisa, umbhino, njll.
- 3.2 Ukufikelela zoke iintetjhi ezingabhadelwako ezineenthombe ezibonakala kuhle netjhada elizwakala kuhle kuzakhamuzi, nofana bahlala kuphi, umbala nobujamo bezomnotho.
- 3.3 UmHlahlandlela we-Elektroniki wamaHlelo oserhalasini ye-TV onesirhunyezo samahlelo.
- 3.4 Umhlahlandlela wababelethi nokulawulwa kwamahlelo.
- 3.5 Iinsetjenziswa zabakhubazekileko kilabo abangezwo nabangaboni kuhle (iinhlokwana namaledere amakhulu).

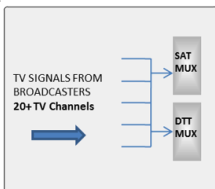
### 4. NGENZASI KULANDELA IHLATHULULO ELULA, EHLATHULULA UKUFUDUKELA KUDIJITHALI:

1. IZiko lokuRhatjhela kulapho amahlelo enziwa khona, ngesakhiwo se-analogu nanyana sedijithali.
2. Iinthombe zithunyelwa ngeensetjenziswa zokurhatjha kuthungelelwano le-Sentech ezweni loke.
3. (a) i-DTH ne- (b) DTT STB: yidikhowuda nanyana i-adaptha ekghonakalisa i-TV ye-analogu kobana yamukele iinthombe zedijithali.
4. (a) no- (b) Ijamele ama-TV ku-DTT ne-DTH ezakutjengisa isithombe esibonakala kuhle, iintetjhi ezingezelelweko nezinye iinsiza ezihle.

1. IZiko lokuRhatjhela

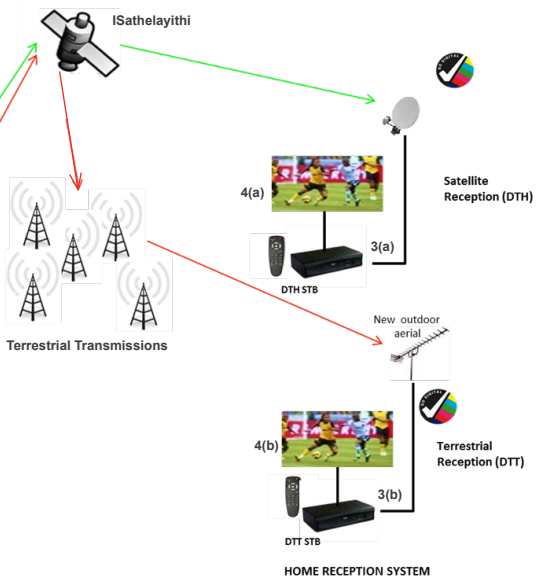


2. SENTECH connecting You



Iziko leThungelelwano le-Sentech

### SOUTH AFRICAN DIGITAL TV SYSTEM



## 5. UKUFUMANA UKURHATJHWA KWE-DDT

Kuzakufanela kobana ababukeli bazifunele ama-STB bakghone ukufumana bebahlaziye iinthombe kobana zibonakale kuma-TV. Abanye ababukeli bangathlola ama-eriyeli we-TV amatjha nanyana bahlalise kuhle lawo abanawo bakghone ukubona kuhle. Kufuze kuthengwe ama-STB nanyana afunyanwe ngesibonelelo sikarhulumente.

## 6. UKUFAKELWA KWE-STB

I-STB sisetjenziswa esiplagwako besidlale begodu kulula ukusihlanganisa. Kungathlogeka isizo labafakeli abanelemuko nakunesidingo. IPoso yeSewula Afrika (i-SAPO) izakusiza ngehla-ngotheneli. Ijimizi lizakuvula namathuba wemisebenzi.

## 7. ISIKHATHI ESILINDELWEKO SOKUPHELA KOKUSATJALALISWA KWE-DDT

Ukusatjalaliswa kwethungelelwano ledijithali emphakathini kuzakuthoma ngomnyaka wee-2015. Ukuhlolwa kwetheknoloji, imisebenzi nomthangalalisekelo kuyaraga.

## 8. ABABAMBISANI BOKUTJHUGULUKELA KUDIJITHALI NENDIMA YABO



- I-SENTECH iqalene nethungelelwano lelizwe lokurhatjha ngedijithali (yetherestiyali neyeseathelayithi), okukhambisana nomThethomgomo wokuRhatjha ngokuTjhugulukela kuDijithali.
- Ithungelelwano leli lizakuqinisekisa kobana yoke imizi ngelizweni ifikelela i-TV yedijithali.
- NgomHolanja wee-2015, iindawo zokurhatjha ezili-171 kezima-178 ze-DDT zikhanyisiwe ukwandisa umthamo wesitjhaba oma-83,65% nendawo efikelela kuma-54,52%. I-Gauteng, iFreyistata, i-Limpopo, i-Mpumalanga, iTlhwagwini Tjingalanga neKwaZulu-Natal seziqedeiwe begodu zikhanyisiwe.



- Umsebenzi we-eJensi yokuNikela ngeenSiza zoke yeSewula Afrika (i-USAASA) kuthoma nokutjhejwa imisebenzi yokufunyanwa kwelwazi netheknoloji yezokuthintana. Umsebenzayo kusabalalisa ama-STB wesibonelelo kumakhaya alinganiselwa eengidini ezihlanu anama-TV begodu layo adobha phasi nasafanelwa sibonelelo



- I-ICASA iqalene nokulawula amaziko wezokuthintana newokurhatjha
- Izakutjhejana nokuhlelela umdumo nokwabiwa nokunikelwa kwamalaisyensi wemisebenzi yedijithali.
- Akunamisebenzi yedijithali emitjha engahlonywa ngaphandle kwelayisensi nanyana invumo ye-ICASA.



- Indima ye-SABC ne-eTV ekutjhugulukeleni kudijithali kudosa phambili ukutlanywa kweensetjenziswa ezitjha, lezo ezikhona gadesi (SABC1, 2, 3 ne-eTV) zitjhugulelwe kudijithali zibambe nendima kezefundo nemajimeni wokuyelelisa umphakathi.
- I-M-Net isebenzisa i-TV yetherestiyali ebhadelwako kodwana yetheknoji ye-analogu. Njengehlanagano erhatjha nge-analogu, i-M-Net izakujoyina ezinye ezirhatjha nge-analogu, i-SABC ne-eTV ekuqinisekiseni kobana iSewula Afrika iqedelela ikambiso yokutjhugulukela kudijithali.
- Njengombana lokhu kuthoga ithungelelwano elinabileko lokusabalalisa, i-DoC, i-SABC ne-USAASA zizakusebenzisa ithungelelwano le-ithanethi lokusabalalisa le-Sapo (ngaphandle kwe-ofisi ejayelekileko nama-ejensi weposo athengisako).
- I-SAPO izakulawula iimali zokubhadela ama-STB, ukunikelwa kwama-STB nokubhadela abafakeli bama-STB.
- I-SAPO izakuqinisekisa kobana ilayisensi ye-SABC ye-TV yalowo ofake isibawo ayikolodi nokobana bayalungelwa kufaka isibawo.

## 9. KUNGANI KUQAKATHEKILE KOBANA ILIZWE LIFUDUKELE KUDIJITHALI?

iSewula Afrika akusilo kwaphela ilizwe eliqalene nekambiso yokutjhugulukela kudijithali. Ngomnyaka wee-2006 iYuniyoni yezokuThintana yeentjhaba yabamba ikhomferense lapho kwaquntwa khona kobana woke amazwe weYurophu, e-Afrika, iPumalanga emaPhakathi kunye ne-Islamic Republic of Iran (isifunda soku-1) kufuze alise ikambiso yokurhatjha ye-analogu atjhugulekele kudijithali ngoMgwengweni 2015. Ukuya ngamazwe atlikitla isivumelwano lesa, iSewula Afrika isebenzela ekutjhugulukeni kudijithali ngemizi enama-TV eziingidi ezili-13.

## 10. ILWAZI

Yewuyelele ukufumana ilwazi elingezelelweko mayelana ne-DTT njengeshejuli yeendawo nanyana iimfunda ezithintwa lithungelelwano nokulungela ukusatjalaliswa kwama-STB, ezakukhutjwa ngokukhamba kwesikhathi.

**Ukufumana ilwazi elinabileko thinta:**

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KUDITHALI (i-DMPO)

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