

FAQ's for Smart Satellite Services unlimited

1. What are the Smart Satellite Services unlimited offers?

Smart Satellite services unlimited is an alternative way to connect to the internet where copper lines will not be replaced. Yahclick Telkom will offer 3 Satellite bundle products for customers. There is a price difference for existing and NTF customers on the three bundles.

2. What is the benefit of these new offers to existing DSL / Fibre / LTE based customers?

- Openserve, the provider of the network on which Telkom offers their services, is not replacing its copper network where it experiences repeated copper thefts or high fault rates.
- Fibre lines are not everywhere available.
- LTE towers are congested certain times of the day. Also, the speed may vary throughout the day.
- Satellite services are literally available everywhere in South Africa, whether you are deep rural or main stream.
- Satellite offers fast reliable download speeds.
- Satellite offers a 99.5% uptime.

3. Where is Telkom Satellite Internet available?

Absolutely anywhere! Telkom is fibre infrastructure, telephone line, and mobile signal tower independent. This means that our satellite offerings are available everywhere – no matter how remote your location is. Apart from your equipment installation and subscription, all you need is a clear view of the sky.

4. Are Telkom Satellite Internet Solutions safe and secure?

Yes. Satellite Internet is considered to be more secure than other means of connectivity. This is because intercepting the beam between the dish and the satellite is far more difficult than intercepting the signal in a physical cable.

When using satellite imagine a giant beam being sent when you click send on an email up to the satellite. The email is broken down into digital pieces that only our satellite can piece back together – keeping your confidential data more secure than terrestrial Internet!

5. Who may take up these offers?

- **Existing Telkom customers:** which do not have ADSL, LTE or Fibre coverage.
- **NTF customers:** NTF customers that does not have access to Telkom products

in the past and do not have coverage of ADSL, LTE or Fibre.

6. What are the 3 bundle offers for existing customers?

Product Description	Download speed	Upload speed	Retail Price Existing	Installation	Contract period	Modem (Wi-Fi) excl
Smart Satellite services unlimited 5Mbps	5Mbps	3Mbps	R899	Free	24 months	R50
Smart Satellite services unlimited 10Mbps	10Mbps	3Mbps	R1 099	Free	24 months	R50
Smart Satellite services unlimited 20Mbps	20Mbps	6Mbps	R1 299	Free	24 months	R50

7. What are the 3 bundle offers for NTF customers?

Product Description	Download speed	Upload speed	Retail Price Existing	Installation	Contract period	Modem (Wi-Fi) excl
Smart Satellite services unlimited 5Mbps	5Mbps	3Mbps	R1 099	Free	24 months	R50
Smart Satellite services unlimited 10Mbps	10Mbps	3Mbps	R1 299	Free	24 months	R50
Smart Satellite services unlimited 20Mbps	20Mbps	6Mbps	R1 499	Free	24 months	R50

Terms and conditions of this offer:

- Setup includes - Installation, Connection, Satellite Equipment, and Router.
- This deal is subject to the Satellite Internet Services remaining active for 24-months.
- Offer is subject to credit vetting and Rica while stock lasts.
- Equipment remains the property of Telkom.
- Line speeds quoted are best effort and represent 'up to' speeds. Telkom reserves the right to enforce its Fair Usage Policy.
- No upfront set-up fees.
- Additional travel costs may apply.

- Should the subscriber cancel the contract anytime during the 24-month period, the remaining balance of the setup fee and CPE becomes due immediately.

8. What Technology is used for Smart Satellite Services unlimited?

Ka-band, broadband satellite service that delivers reliable, high-speed internet connectivity to users in areas with limited or no internet access, at costs comparable to current copper/wireless services.

9. What is Smart Satellite Services unlimited?

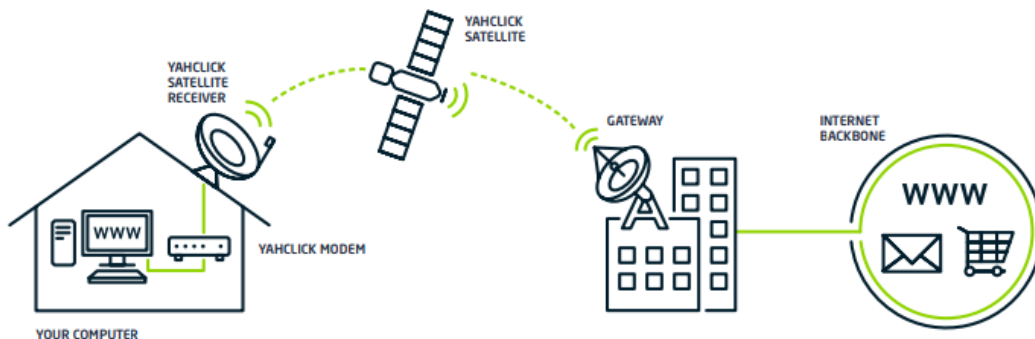
YahClick technology is based on something called Ka multi-spot beams, which is a major differentiator to traditional satellite technology. While satellite internet isn't a new technology, cutting-edge "frequency reuse" maximises spectrum efficiency and means that YahClick is perfect for home and business broadband needs.

10. Is voice supported on these products? (For Phase 1 = NO from Phase 2 = YES)

Yes, IP voice needs to be activated on the modem and customers can then chose one of the IP voice packages to add on.

11. How does the product work?

How it Works



Your smart device sends a signal request through your modem to your Telkom satellite dish and then up to our orbiting satellite, which sends a signal to us. Then, we transmit the signal back to the satellite, then to your dish, your modem, and finally, your smart device. All of this happens in less than half of a second!

12. Is there a contract for a set period, or is there a month-on-month ongoing contract?

For all the Satellite bundles the customer must sign a 24-month contract. If a customer cancels the service within the 24-month contract period, the clawback penalty will apply same as the current process with routers on a 24-month contract.

13. What does the Smart Satellite Services unlimited product include?

Customers will receive a new suitable Satellite router with a dish (depending on the speed bundle chosen the dishes sizes differ). The router enables data services. In order to activate Wi-Fi enabled data router must be connected to the Satellite router.

14. What is the Fair Usage Policy?

Telkom Satellite Pricing						
Plan	DL	UL	Allowance (GB)	First throttle	Second throttle	Third throttle
Smart Satellite service 5Mbps	5	2	Unlimited	3Mbps@100GB	1.5Mbps@150GB	1Mbps@200GB
Smart Satellite service 10Mbps	10	3	Unlimited	5Mbps@150GB	3Mbps @250GB	1.5Mbps@300GB
Smart Satellite service 20Mbps	20	6	Unlimited	10Mbps@200GB	5Mbps@350GB	2Mbps@400GB

15. Can I check how much data is being used on my contract?

Yes, you can! There are three options available to you to check how much data is being used on your package:

- Call the Telkom call center on **0861 478 728**
- Email us on customer@Telkom.co.za;
- Log into our YahClick powered network on https://selfcare.yahclick.com/YAHS_TELKOM_CC_Login

SAN What is my SAN?

ESN What is my ESN?

Login

Make sure that you have your Service Number (SAN) and your Equipment Serial (ESN) ready, as you **will** require them to log in. When inputting your ESN password, **only use the numerical part of the number**. For example, if your modem serial number is "BY001312345A6", your ESN password will be "1312345".

16. Can I stream entertainment and work from home?

Yes, you can! Telkom Satellite Internet Solutions puts entertainment and working from home at your fingertips.

Telkom Satellite Internet Solutions are ideal for:

- Streaming videos, music and movies;
- Video conferencing;
- Working from home;
- Online shopping;
- Online banking;
- Holiday planning;
- Web surfing;
- Social Networking like Facebook, Instagram, LinkedIn, Pinterest, more!

For example, Netflix streaming requires a download speed of 1.5 Mbps for low quality, 3 Mbps for SQ quality, and 5 Mbps for HD quality, so any of Telkom's Satellite Internet Solutions can comfortably handle any binge-watching needs!

It is also ideal for streaming music via applications like Spotify and Napster. Music giant Spotify for example only requires .096 Mbps of speed for streaming on your phone and .1670 Mbps to listen on your computer or tablet.

Telkom also delivers good video chat capability. Video chat users, according to Skype, need 1.5 Mbps download and 1.5 Mbps upload, while video calls with multiple people need 8 Mbps to download.

17. Are Telkom Satellite Internet Solutions able to support gaming?

It is important to note that gaming does not work over satellite internet services due to transmission latency. "Turn-based" games, such as casino games, and strategy games, such as chess, will work fine as will popular Facebook games like Candy Crush.

You will be able to download games and game updates and use the streaming video and music services offered through your gaming system.

18. What is transmission latency?

Latency is the time it takes for a signal to make a round-trip journey from your smart device and back. There is a half-second delay with satellite Internet service caused by the distance that data needs to travel up to the satellite and back again.

Therefore, time-sensitive applications that require fractions-of-a-second user inputs (such as online gaming or real-time equities trading) are not supported by Telkom's Internet Satellite Solutions.

19. How much internet speed do I need?

Different households and businesses can have drastically different Internet needs.

A single person who uses the internet only to access social media won't need as much internet speed as a business of five video conferencing, for example.

Let's take a look at some internet speeds and what you can do with them:

- Netflix streaming requires a download speed of 1.5 Mbps for low quality, 3 Mbps for SQ quality, and 5 Mbps for HD quality, so any of Telkom's Satellite Internet Solutions can comfortably handle any binge-watching needs!
- It is also ideal for streaming music via applications like Spotify and Napster. Music giant Spotify for example only requires .096 Mbps of speed for streaming on your phone and .1670 Mbps to listen on your computer or tablet.
- Telkom also delivers good video chat capability. Video chat users, according to Skype, need 1.5 Mbps download and 1.5 Mbps upload, while video calls with multiple people need 8 Mbps to download.
- Due to transmission latency, Telkom does not support online gaming or real-time equities trading.

Now that you know all about Internet speed, you can see that Telkom Satellite Internet Solutions has a package to suit the needs of your household and/or business.

Even when you live in a remote location, we have a package capable of delivering a different level of bandwidth to match your needs!

20. Why choose Telkom Satellite Internet Solutions?

Telkom partners with the communities where we install, making support and service a part of the community revenue stream. This means that should you ever encounter problems – the appointed service provider is in your community and available to answer questions and provide solutions.

We are affordable. Telkom invests in our customers by providing free standard equipment infrastructure and installation*. And all our packages offer unlimited data. Telkom offers different package options to suit your needs.

21. What are the calling plans bolt on's?

IP voice is a bolt on product that can be added to Satellite services. Customers can keep their geo number. Example of voice packages:

Product	Description	IP Voice Bolt-on (Incl VAT)
Evening and Weekend plan	<p>The perfect plan for the working family.</p> <ul style="list-style-type: none"> • 10% Discount on calls to the top 30 international destinations (See MORE INFO) • Landline Rental included • Unlimited Evening and Weekend calls up to an hour (Telkom fixed to fixed) • Free CallCatcher (IdentiCall, Call Answer & Waiting Call) 	R18.00
Anytime plan	<p>A basic calling plan keeping you connected to family and friends.</p> <ul style="list-style-type: none"> • 10% Discount on calls to the top 30 international destinations • Line rental included • Unlimited Anytime calls up to an hour per call (Telkom Fixed to Fixed) • Free CallCatcher (IdentiCall, Call Answer & Waiting Call) 	R74.00
Anytime Extra plan	<p>Unlimited on net benefits if you are part of the Telkom family</p> <ul style="list-style-type: none"> • 20% Discount on calls to the top 30 international destinations (See MORE INFO) • Line rental included • Unlimited Anytime calls up to an hour per call (Telkom Fixed to Fixed & Telkom Mobile) • Free CallCatcher (IdentiCall, Call Answer & Waiting Call) 	R158.50
Anytime Plus plan	<p>Free Telkom fixed line calls, cheaper International calls and 100 mobile minutes to other networks.</p> <ul style="list-style-type: none"> • 15% Discount on calls to the top 30 international destinations (See MORE INFO) • Unlimited Anytime calls up to an hour per call (Telkom Fixed to Fixed & Telkom Mobile) • Line rental included • Free CallCatcher (IdentiCall, Call Answer & Waiting Call) • 100 Free Minutes to other Networks 	R242.50
Unlimited plan	<p>The perfect plan for a family that makes lots of calls.</p>	R422.00

	<ul style="list-style-type: none"> • 20% Discount on calls to the top 30 international destinations • Line rental included • Unlimited Anytime calls up to an hour per call (Telkom Fixed to Fixed & Telkom Mobile) • Unlimited calls up to an hour to any National Mobile Network (Vodacom, MTN and Cell-C) • Free CallCatcher (IdentiCall, Call Answer & Waiting Call) 	
--	---	--

PRODUCT	VOICE BOLT ON (FIBRE/SAT)	15% VAT in
Evening and Weekend plan	R15.65	R18.00
Anytime plan	R64.35	R74.00
Anytime Extra plan	R137.83	R158.50
Anytime Plus plan	R210.87	R242.50
Unlimited plan	R366.96	R422.00

22. What is the validity period of the Smart Satellite Services unlimited data plans?

The monthly Inclusive anytime data has a validity of one month.

23. Who is eligible for Smart Satellite Services unlimited?

Existing and NTF customers. Literally anybody anywhere in South Africa.

Customers will always be offered Fibre and then LTE before Satellite services as a last resort.

24. How do I check that I'm covered by Smart Satellite Services unlimited?

The whole of the South African continent is covered by Satellite services.

25. What happens if I relocate?

The Satellite service that is provided is a fixed broadband service and should a customer relocate, Telkom will have to dismantle the dish and installation and install at the new premises. This will be an additional cost for the customer.

26. I'm an existing Smart Satellite Services unlimited subscriber, will I be able to migrate upwards or downwards between the offers?

Existing Subscribers will be allowed to migrate between the Smart Satellite unlimited plans. There will be additional charges for customers migrating from 5/10 to 20Mbps service. No penalties will be charged for downgrades.

27. Does the Smart Satellite Services unlimited network support Voice calls?

Yes, it does. IP Voice will work provided you have a data connection & supporting CPE. IP Voice will be able to utilise any fixed calling plan.

28. How much does it cost for a voice call?

Dependent on Calling Plan selected. For off-net calls, normal fixed line tariffs will apply. Please consult Telkom's latest Tariff list as published on the web.

29. Where will you install the satellite dish?

It can be mounted on a roof, wall or via a pole mount on the ground. We cover up to a distance of 60kms!

30. Is the traffic classification and priority (Shaping) the same for all Telkom Plans?

Yes, the traffic classification and priority queues are the same for all Telkom Plans.

31. What speeds can I achieve 'up to'?

Our services deliver headline speeds in the following as follows:

Unlimited Packages	Download Speeds	Upload Speeds
Unlimited 5 Mbps	5 Mbps	2 Mbps
Unlimited 10 Mbps	10 Mbps	3 Mbps
Unlimited 20 Mbps	20 Mbps	6 Mbps

32. Does weather affect the dish?

The aim here is to ensure that our subscribers do not notice the effect of the weather on the signal. The service is designed to cope with most weather conditions, including wind speeds of up to 100mph. During periods of extremely heavy rain or snow, the radio signals may become attenuated (reduced).

There are sophisticated, automatic measures to effectively increase the power of your system to compensate for any attenuation by using Adaptive Coding & Modulation (ACM). ACM enables the system to automatically react to the effects of rain fade.

33. How do I get Telkom's Smart Satellite Services unlimited?

- Internal Value Management team (CVM) will call existing copper-based customers and facilitate migrations onto the new products, Or
- All existing sales channels should facilitate existing copper-based DSL customers to migrate onto the new plans
- SMB customers will be allowed access to these products as NTF (New to Franchise) customers in Phase 2.

34. Does Rica apply?

Rica compliance rules shall apply.

35. Who do I call if I have a technical query or coverage related problems?

Customers can call **0861 478 728** once installations are done for Tier 1 assurance support or support@telkomsa.net

36. What does Congestion mean?

When the number of people using the network simultaneously increases, the Internet speed may reduce. Think of broadband as a tunnel with traffic moving through it. The more traffic in the tunnel, the slower traffic moves. In other words, you may find that during peak periods, your download speeds are slightly less than usual. This is a universal phenomenon that is commonly referred to as congestion on the network.

37. Are there any minimum requirements for computers when implementing Telkom Satellite Internet Solutions?

Our satellite system can connect to any smart device; PC, MAC, or laptop provided that there is a network card installed.

38. Can I use wireless router?

Yes, a wireless router can be connected to the Telkom Satellite Solution! The router mustn't be **not a network specific/branded router**:

- Huawei or ZTE routers are normally pre-loaded with network firmware that do not integrate;
- The router will not require a SIM;
- Telkom can supply the Outside Cambium E500 router & amortize the price over 24-months. This will cost only an extra R200p/m over your 24-month contract;
- The Indoor Cambium will only cost an extra R200p/m over your 24-month contract.

39. Why does a ping give a slow response over Satellite?

A ping is not a reliable test for connectivity or speed. The reason for this is that a Satellite is based in a geostationary orbit approximately 36,000 km above the equator. Due to the distance it has to cover, it will normally take approximately 600ms.

Added to this, a ping is classified as low priority command by networks. This means that all other applications will be processed before the ping command!

As there is no acceleration applied to the ping command, this can sometimes cause increased ping times or even a 'time out' – making it an undependable speed test.

* Installation is free while stocks last, for up to a distance up to 60km.

40. How does Telkom Optimise Traffic?

The YahClick Network uses a network traffic classification system (called DSCP) to optimise traffic according to the purpose of the traffic by allocating network traffic to a Class of Service (CoS).

Through this classification, it seeks to prioritise traffic where interruptions are most noticeable and customer impacting (like voice traffic) versus activities where a delay is least interrupting or noticeable (like downloading a file).

The table below provides the classification from highest priority to lowest priority. The dynamic management and control of this mechanism is done by highly sophisticated traffic controllers and monitors supplied by a specialist company called Procera Networks.

The traffic in YahClick Network is classified and prioritized as shown below in the table:

Application	CoS	Drop Probability
Voice payload and signalling	5	Lowest
Business Apps and VPN	4	Low
interactive communications, streaming media, default traffic	3	Medium
Peer-to-peer, file sharing	2	High