

# INFORMASIE/TEGNOLOGIE

## INFORMATION TECHNOLOGY

### WHAT IS TENET?

On 19 March campus practically came to a standstill when our internet service provider TENET experienced problems due to load-shedding. The issue stemmed from a failed generator at UCT and many students and staff were confused as to why we were impacted by something that happened at UCT.

#### What is TENET?

"TENET" is the short name for the Tertiary Education and Research Network of South Africa NPC. Its main purpose is to secure, for the benefit of South African universities and associated research and support institutions, Internet and Information Technology services.

All public universities and science councils qualify to participate in TENET's governance as members and currently, TENET provides Internet and related services to more than 300 campuses of 85 institutions. These campuses are connected via high-speed access circuits, and multiple smaller sites via ADSL lines and a shared connection between Telkom's ADSL network and the TENET gateway in Johannesburg.

The core of the NREN network that TENET operates is the South African National Research Network ("SANReN") that has been deployed over the past ten years by the Meraka Institute of the CSIR under contract to the Department of Science and Technology (DST). SANReN comprises a national backbone, multiple metropolitan rings, and extensive long-haul circuits to reach important research installations. (More detail on the metropolitan rings and also the Cape Town metropolitan ring in particular.)



*For international connectivity TENET uses multiple submarine circuits:*

*60 Gb/s on the SEACOM submarine cable that terminates at the SEACOM Landing Station at Mtunzini (and is extended from there redundantly to the SANReN backbone node at Durban), and at TENET router in Amsterdam; and*

*50 Gb/s on the WACS submarine cable that terminates at the SANReN backbone node in Cape Town and at TENET's router at Telecity, London.*

*If you are interested in the bigger picture and want to know what South Africa's Internet actually looks like, [MyBroadband](#) has a handy and detailed explanation.*

*[SOURCE: [www.tenet.ac.za](http://www.tenet.ac.za)]*

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