

IPv6 in South Africa



Report to Global IPv6 Service Launch
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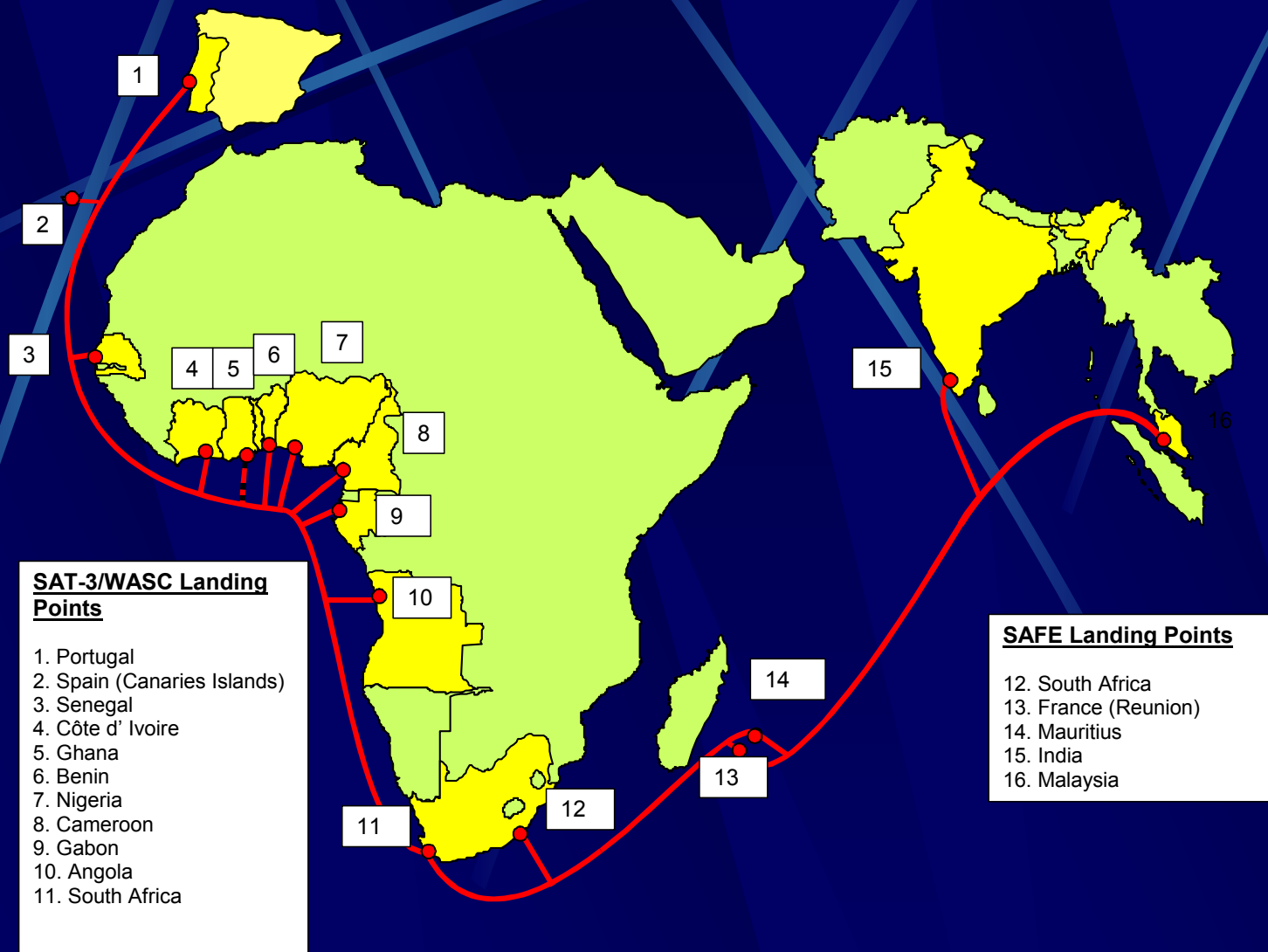
About TENET

- Non-profit, private company
 - *Owned jointly by the 28 public universities*
- Acts as *specialised agent* that procures Internet access and other services
- Clients:
 - *28 public universities*
 - *U of Lesotho, U of Swaziland*
 - *15 other public research institutions, libraries, support organisations*
 - *Some public research institutes and Government research labs have not joined TENET.*

Research & Education Networking in South Africa

- TENET network (45 institutions; 80 sites)
 - *TELKOM SA Limited is the ISP*
 - Provides general Internet access
 - Aggregate b/w: 100 Mb/s
 - Cost: € 515,000 per month
 - Approx. half of this is for 72 Mb/s long-haul connection to peering points in London and New York
- Other research organisations
 - *Use Telkom SA or other commercial ISPs.*
- As yet:
 - *no recognised **National R and E Network**; and*
 - *no connection to Géant.*

SAT-3/SAWC/SAFE



Establishing “SANREN”

- SA Government is investigating
- EC very supportive, esp. regarding connection to Géant
- Still to be done:
 - *Negotiations with network operators*
 - *Funding approvals*
 - *Timeline hard to foresee*

What about IPv6 ?

- IPv6 is not on IT depts' to-do lists
- No hits for "IPv6" on Telkom's or ISPs' web sites
 - *ISP's say: There's no pull yet from customers*
- Efforts to prolong IPv4
 - *NAT widely used*
 - *ARIN formally asked to reduce minimum allocation from /20 to /22 for the African region*

....however...

IPv6 activities

- Experimentation with IPv6 by several university research groups
- Two ISPs run IPv6 on their backbones and peer natively
- Enthusiast web site: <http://www.6bone.co.za>
- TENET is an IPv6 LIR
 - */32 global unicast allocation from ARIN*
 - *Training program to be offered this year*
- SANREN will run IPv6 *ab initio*

