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Connecting Africa to the world



IPv6 At Liquid – The history



- IPv6 first looked at in 2008
- IPv6 block applied for in 2008
- First initial deployment in 2009
- First customer turned up on IPv6 in 2012
- Currently IPv6 deployed natively in South Africa, Zambia, Zimbabwe and London
- IPv6 is always deployed all the way to the edge



The IPv6 strategy

- IPv6 is not optional, an add-on, or anything “special”.
- All hardware purchased and deployed must be IPv6 capable
- IPv6 deployed as part of the standard rollout procedure.
- Where replacing / upgrading / rebuilding sections of the network, IPv6 always forms part of the thought process.
- Where networks are gained through acquisition IPv6 deployment is done as soon as practically possible



The challenges



- Access networks are a major challenge, with legacy hardware that will probably NEVER be upgraded to support IPv6. (V-SAT platforms, legacy switching gear etc)
- Protocol immaturity – there is STILL no VPNv6, LDP6, MPLS-TEv6 etc.
- Where rebuilding / upgrading networks acquired through acquisition deployment can be complicated by the sheer scale of the currently deployed networks and the wide disparity in vendor hardware.
- Customer adoption can be slow because of lack of resources, skills, and the realization that IPv6 is actually necessary.
- V6 features are STILL sometimes licensed as “optional extras” by vendors, pushing up the cost



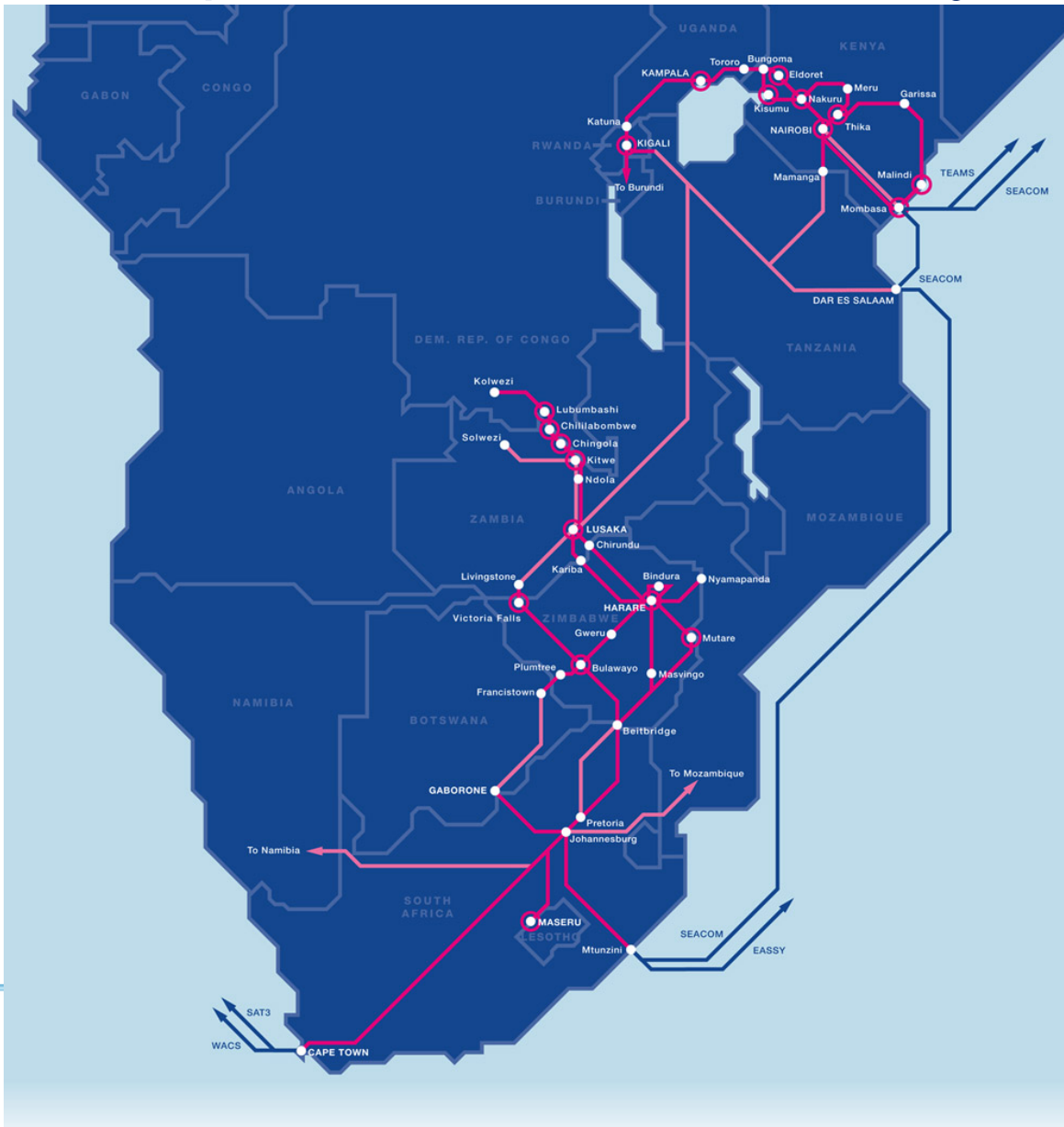
IPv6 Plans – Where next



- IPv6 between South Africa and Kenya on the direct circuits was enabled this morning!
- A new high speed IP network (10gbps+ on the backbone in most places) is in the process of being built between Mozambique, Tanzania, Kenya, Uganda and Rwanda which will link to the main Liquid international backbone – this will support IPv6 natively from day one, to the edge.
- As stated, IPv6 is viewed as just another mandatory protocol, don't treat it as special, treat it as normal.



Liquid Telecom Connectivity Map



- Active connections to 5 sub sea cables.
- Redundant routes.
- One Network.



BUILDING AFRICA'S NEXT GENERATION NETWORK



Thank you



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