



Draft RFSAP for IMT850



LoRa Alliance

The LoRa Alliance is an open, [no-profit organization](#) dedicated to promoting the interoperability and standardization of low-power wide area network ([LPWAN](#)) technologies to drive implementation of the Internet of Things ([IoT](#)).



LoRa Alliance



83

Network Operators

57

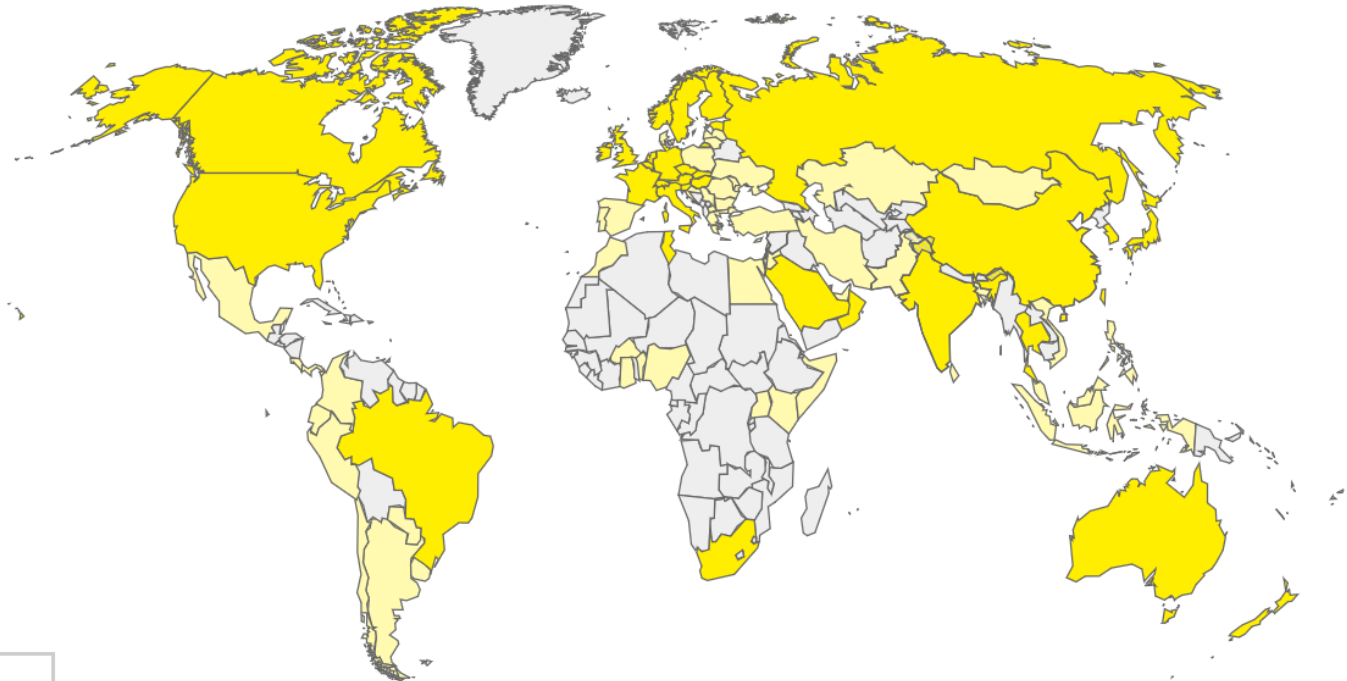
Alliance Member
Operators



49

Countries operating in

95

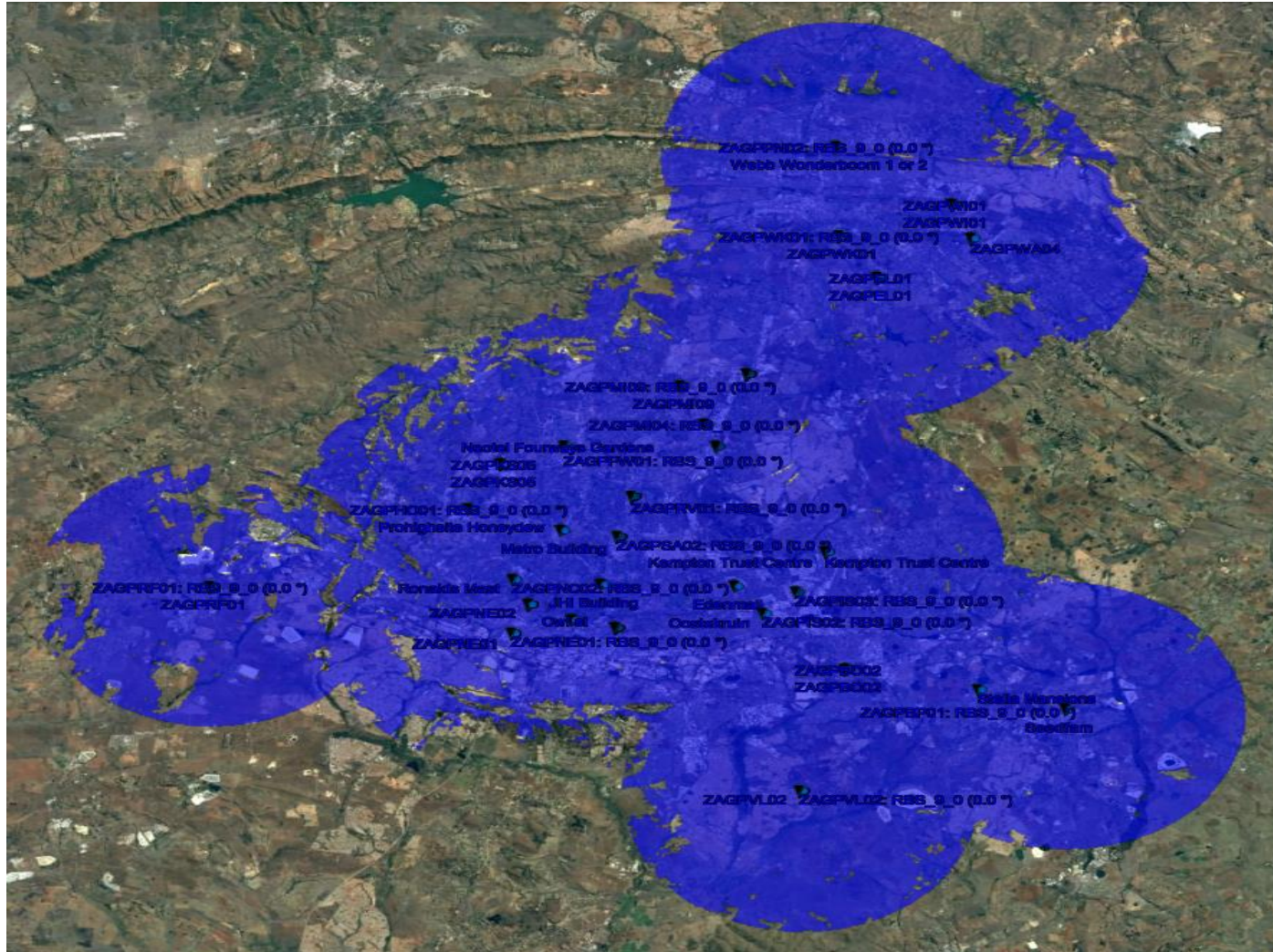
Countries with
LoRaWAN Deployments



-  Alliance Member Public Networks
-  Other LoRaWAN Deployment



Our Coverage – (Major Metros)





Comsol LoRaWAN Channels

- The channels that Comsol currently use are:
 - 867.1 867.3, 867.5, 867.7, 867.9,
 - 868.1 (LoRa mandatory), 868.3 (LoRa mandatory), 868.5 (LoRa mandatory). 869.525 is used for the downlink. 8 uplink, 1 downlink.
 - 868.7, 868.9 and 869.1 could also possibly be used for uplink.



Concerns

- By introducing the proposed plan there is a good possibility that there might be interference by other networks/devices as there will only be 0.475MHz separation or “guard” between our operating frequency and the proposed new band.
- The interference would be bidirectional.
- There has been a large capital investment made in 868MHz band infrastructure and equipment.
- Businesses are running equipment and devices in this band that are in production.



Concerns

- The network has been designed within the current engineering limitations, introducing IMT 850 will change the rules of engagement
- Comsol, other operators and industry stand the risk of reducing quality of service (QOS) on existing and future networks.
- Existing and ISM networks (and therefore existing band plans) should be protected by ICASA.
- ICASA has acknowledged the plan does risk interference.



Questions that need further investigation

- Better understanding on interference effects based on the statement in paragraph 9.5 of the publication should there be any?
- Investigation into the commercial impact to the economy should the IMT850 be implemented?
- Development of a clear plan and framework for interference as there are many legacy networks operating.



Summary

- We would like to request that the Authority re-consider the proposed IMT850 band plan in order to protect existing investments and networks already deployed in South Africa



CONTACT US

HEAD OFFICE JOHANNESBURG

T +27 (0) 10 140 8800
F +27 (0) 86 246 2332
E info@comsol.co.za

Physical Address:
152 Roan Crescent
Corporate Park North
Midrand
Gauteng, South Africa

WESTERN CAPE CAPE TOWN

T +27 (0) 21 140 4400
F +27 (0) 86 246 2332
E mereyke.olsson@comsol.co.za

Physical Address:
Unit 25 Prime Park
Printers Way
Montague Gardens
Western Cape, South Africa

KWAZULU-NATAL DURBAN

T +27 (0) 31 140 5500
F +27 (0) 86 514 6771
E sean.lenz@comsol.co.za

Physical Address:
1 Heron Park
80 Corobrik Road
Riverhorse Valley
Newlands East
Kwa-Zulu Natal, South Africa

EASTERN CAPE PORT ELIZABETH

T+27 (0) 41 030 6600
F +27 (0) 86 593 4698
E bronwen.horne@comsol.co.za

Physical Address:
Unit 7 Pickering Square
82 Pickering Street
Newton Park
Port Elizabeth
Eastern Cape, South Africa



QUESTIONS?