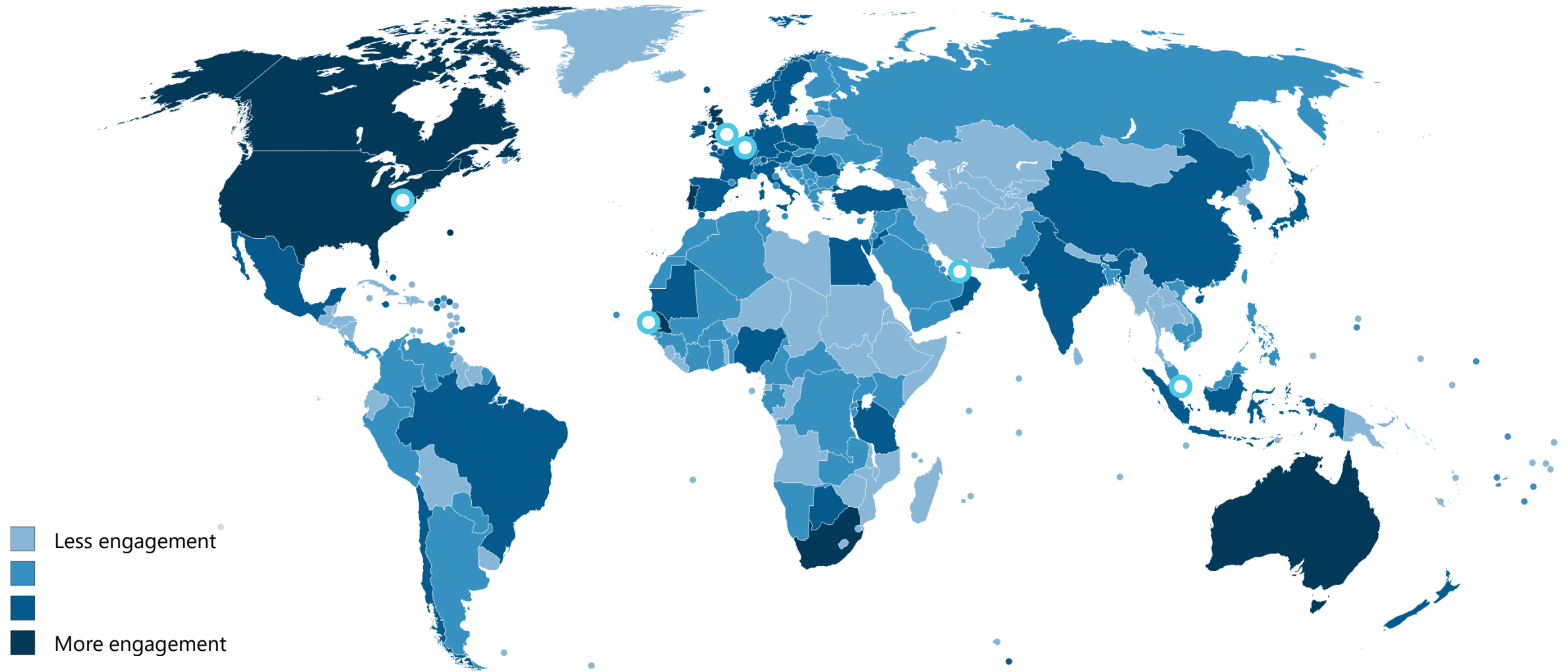


Aeroplanes and Vessels: Regulatory Challenges for Satellite Connectivity

Daphné Joseph, Access Partnership | 20 September 2018

History



Active since 1999 in 202 jurisdictions, we have grown to over 60 staff in 6 offices.

Practice Focused on Technology

Market Access & Technical Advisory

- Ensure clients' regulatory compliance
- Obtain licenses for goods, services
- Market and technical analysis to support advocacy
- Monitor regulatory environments

Public Policy

- Navigate regulators, shape regulations
- Create path for new technologies
- Design and execute issue-specific campaigns
- Deliver outcomes in national and international proceedings

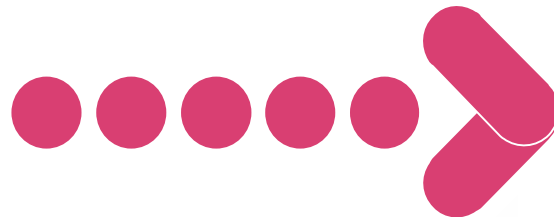
Overview of ESIM Regulations in Aero and Maritime Services

Policy Trends in Europe

- ECC Decision 13(01)
- ECC Decision 15(04)
- ECC Report 272
- ECC Decision 18(04)
- ECC Decision 18(05)



Regulation



Harmonisation

Regulatory Trends in the Caribbean and Central America

Diverse regulations depending on the region:

- ECTEL (Eastern Caribbean Telecommunication Authority)
- Caribbean
- Central America



Regulation and Fragmentation in the MENA region

ESIM in MENA unofficially classified into three types:

- 1) Land ESIM
- 2) Aeronautical ESIM
- 3) Maritime ESIM



Regulation and Fragmentation in the MENA region

	Land ESIM	Aeronautical ESIM	Maritime ESIM
UAE	Can only be provided by a locally licensed operator.	Regulated under the provisions of ITU-R Resolution 156 (REC-15). Altitude limitation of 10 000 ft. Gate-to- gate requires service provision licence and frequency authorisation.	Regulated under the provisions of ITU-R Resolution 156 (REC-15).
Egypt	Ka band is prohibited.	Ka band is prohibited.	Ka band is prohibited.
Qatar	Can only be provided by a locally licensed operator.	Allowed for foreign and domestic airlines and service providers without a need for licensing. The same applies on gate-to-gate.	Regulated under the provisions of ITU-R Resolution 156 (REC-15).
Oman	ESIM and Ka-band framework under development.	ESIM and Ka band framework under development.	ESIM and Ka-band framework under development.

ESIM Service Providers Obligations

■ Satellite Service Provider and Operator Requirements

Local gateway

- Ensures lawful intercept
- Protects terrestrial network operators
- India, China
- Algeria, Egypt, Morocco
- Saudi Arabia, Oman
- Russia, Belarus

Local registration

- Required in most jurisdictions
- Europe: mostly exempted (few jurisdictions require a tax registration code)
- Latin America: less stringent requirements

Ownership restriction

- Applied to certain services (ISP, broadcasting) or use of frequencies
- China, Indonesia (satellite operators)
- Argentina (ISP), Mexico, Brazil (broadcasting)
- Israel (essential services), UAE
- Use of local partners

Regulatory Risks and Fines

Severe penalties for non-compliance for the ISP:

- High fines
- Confiscation of equipment
- Disruption of operations
- Possible prosecution in jurisdictions of incorporation



■ Mitigating Risks

- Analyse risks prior to shipment or operations
- Check the location of sites: territorial or international waters
- Review the regulatory fees for the planned equipment or frequency range
- Check the timeframe for obtaining authorisations



Regulatory Database for 200+ Jurisdictions

Wiki Database

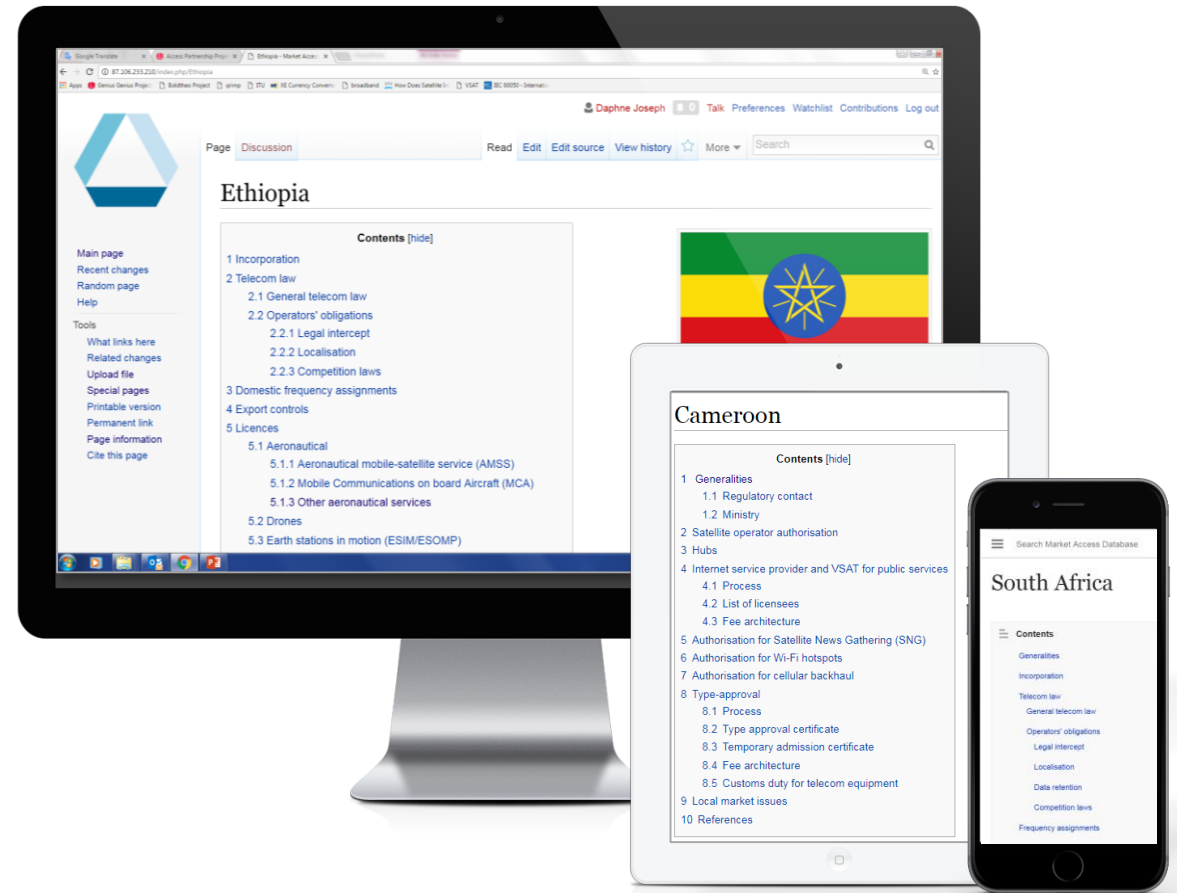
Access Partnership has built and maintains a database of international regulatory requirements for over 200 countries and territories



Responsive
Compatible with all devices



Customisable
Easy to change



Thank You

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