Session # 7

CIL Workshop on Submarine Cables and Law of the Sea

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AIS View of Singapore Straits October 2009
Measures to prevent Damage

- Provide port authorities with “overlay” of cable routes for port radars
- Consider creation of cable protection zones with significant fines for infringement
- Monitor cable protection zone using AIS integrated with vessel management software
Example Guard Zones
AIS Alarm Flow Chart

Vessel enters Guard Zone and alarm generated

Verify threat and contact Coastguard

Coastguard contacts vessel to alert them of submarine cable
Using AIS to Prevent Damage

- An integrated AIS system can:
  - prevent damage by a ship dragging at anchor
  - prevent a multiple failure from a ship dragging anchor whilst underway (assuming sufficient diversity)
  - reveal the full extent of damage due to anchors
Ship Dragging at Anchor off Singapore

- Courtesy of QPS
Damage Claims

- **AIS data** can be used to support legal actions against vessel owner for damage to cable

- **Key data** is position of vessel and any changes in course or speed at point of crossing cable

- **Need to accurately record:**
  - time of fault
  - location of fault
  - location of any other damage to cable
Sharing the seabed in harmony