

Ship-Shore Subcommittee


16 January 2014

NSF



Goal

The goal of the ship/shore communications subcommittee is to help the federal funding agencies develop a viable plan for the US Academic fleet's ship/shore communications that will help the ships meet the growing demands of internet connectivity for general communications and telepresence.

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- Define/quantify normal ops bandwidth needs
 - Give guidance on infrastructure and models for telepresence
 - Create ideas/plans on how to meet the above

Requirements

- Internet at sea
 - Science Operational Support
 - Ship Operational Support
 - Data to ship
 - Data from ship
 - Ship email
 - Access to shore/web email
 - Morale
 - Non-cruise related science business
- Telemedicine
- Voice
 - Science Operational
 - Ship Operational
 - Safety
 - Morale
- Video –streaming
- Video-conferencing
- Desktop-sharing (eg Webex, Go To meeting)
- Telepresence

Requirements, cont.

- VPN
- Separate systems
- Auditing capabilities
- Security
- Flexibility
- Scalability
- Reliability

512 Kbps CIR Shore to Ship /
256 Kbps CIR Ship to Shore