

OOI Network Operations Plan

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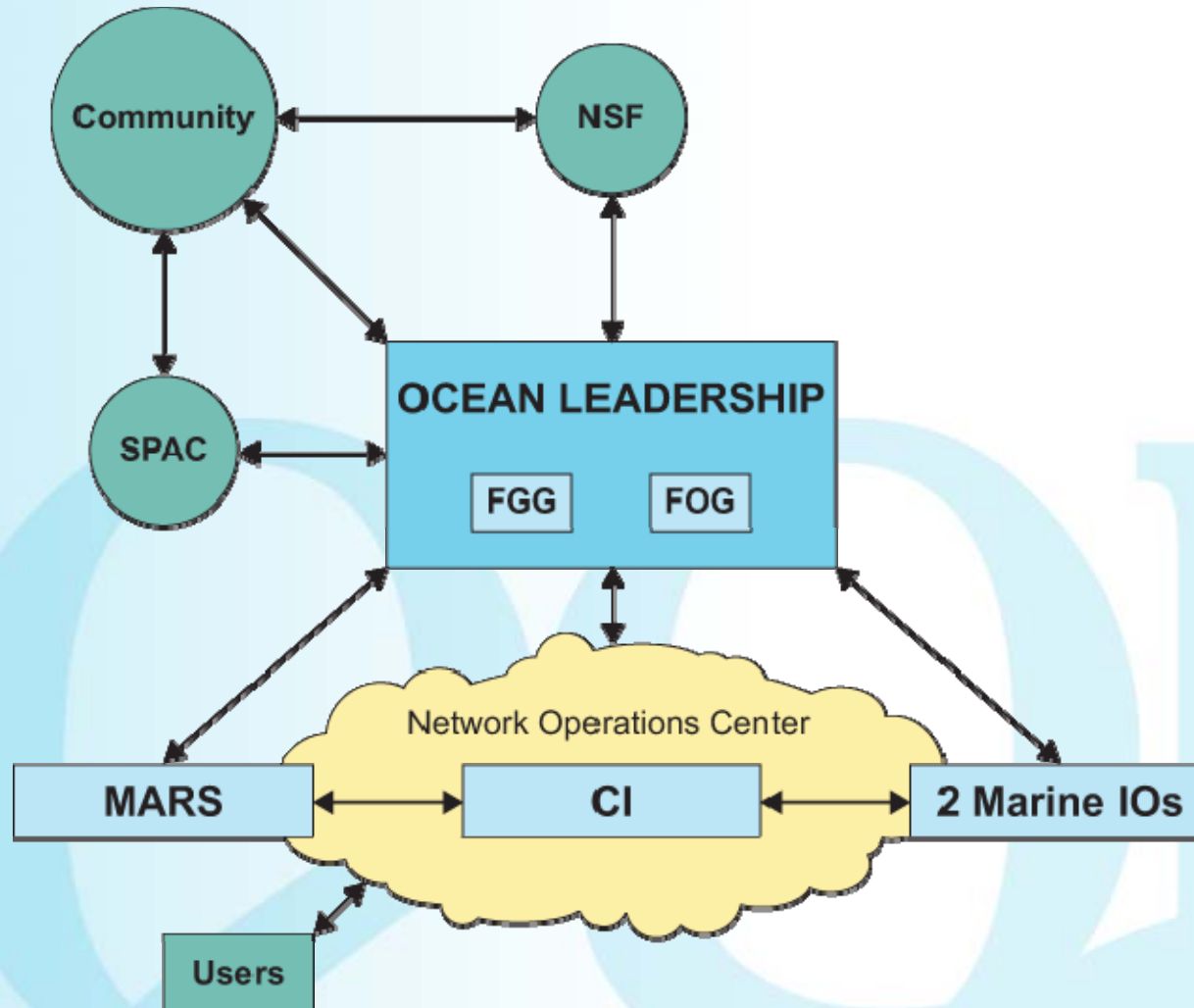
Operations Plan

- Inputs from various sources:
 - Tiger Team (NSF, Industry, Government)
 - MARS
 - Systems Engineers/Project Managers (SE/PMs)
 - Principal Investigators (PIs)
 - Interim Observatory Steering Committee (iOSC)
- The OOI Network Operations Plan outlines a framework (system) for developing the details of operating and maintaining the infrastructure.
- Details will be developed when needed.

Operations Plan Philosophy

- Cost Effective
- Adaptive
- Responsive
- Capable
- Transparent
- Extendible and Scalable
- Open Designs
- Independence
 - Testing and Acceptance
 - Governance and Execution

Operations Plan Framework



Operations System

- Each of these entities has:
 - Responsibilities
 - Policies
 - Procedures
- Generally, policies and procedures are approved by next higher entity.
- Responsibilities, policies, and procedures can be augmented, reallocated, and/or segmented.

Governance and Oversight

- **Ocean Leadership:**
Ownership of Facility; Asset Inventory; Insurance; Legal Agreements; Partnerships; ICPC; Annual Review Meeting; Configuration Audits
- **Facility Governance Group:**
Oversight and Guidance; Metrics Setting; Upgrade Planning; Expansion Planning
- **Facility Operators Group:**
Uniform Operations; Operational Configuration; Configuration Management; Control Documents; Approved Sensor List and Data Sheets; Conflict Resolution; Troubleshooting; Commissioning Review and Approval; Decommissioning; Annual Work Plan and Budget; Liaison with UNOLS; MARS Interaction; User Training; Assessment of Feasibility of Science Proposals for NSF

Operations and Maintenance

- **Network Operations:**
24/7 Centralized Operation Monitoring; Hot Lines for Fishermen, Customer Support; Trouble Reports; Fault Location; Daily Reports; Data Storage; Transition to Operations following Commissioning; Inventory of Service Assets
- **Cyberinfrastructure:**
Data Subscriptions; Routine Pre-approved Actions; Metrics Collection; Resource Monitoring; Data QA/QC; Security; Event Detection and Alerts; Release Commissioning and Acceptance; Database of Record for Policies and Procedures
- **Marine IOs and MARS:**
Commissioning and Acceptance Testing; Installation and Maintenance Cruises; Spare Pool; Shore Station Routines; Cable Maintenance Agreements; Interact with Cable Maintenance Authority; Liaison with Fishermen, Regulatory Groups; Maintain Asset Inventory; Provide Dry Plant Security; Maintain Navy Hardware

Common Operations Activities

- Common Activities Under Discussion:
 - Repair Center
 - Calibration Center
 - Sensor Sparing
 - Sensor Test Lab
 - Dry Test Lab
 - Wet Test Tank
- These activities will be placed under one (or more) of the Operational Entities when decided.

Operations Plan – Next Steps

- Set Up Entities; Begin Meeting
- Agree on Responsibilities, Policies, Procedures; Determine Need Dates
- Discuss Philosophy for Policies; Assign Drafts
- Debate, Comment, Revise, Approve
- Implement in Design, Use for Core Sensors
- Provide Feedback; Revise if Needed
- Start Collecting Metrics

Operations Plan

- A system around which detailed operational plans can be built.
- Flexible
- Assures Common Processes – Commissioning, Data QA/QC, Metadata, User rights, etc.
- Core Sensors offer an opportunity for wider community involvement as sponsors of core sensors, data streams, and data QA/QC, advocates for early publication of results, and testers of the operational procedures for future PIs.