

## **Range and Observatory technology for IMS systems**

Technology advancements in Ocean science observatories particularly in the area of power and data transport and wet matable power and data connection, provide new opportunity for IMS and other similar systems to be upgraded and maintained. An example of a modern operational observatory is the Regional Scale Nodes (RSN) observatory. The system is currently operational and sending real time data to researchers around the globe. Naval Maritime Ranges and other defense related cabled systems also offer connectivity options for repair, expansion and modernization. Maritime ranges typically rely on a large trunk cable to fixed junction boxes, at the junction box, the division of power and data for the separate systems is provided. Observatory technology similar to RSN in addition to the use of offshore junction boxes allows proven opportunities for; maintenance, expansion or use of emergent sensor systems in a plug and play manner. This paper provides an overview for implementation of an ocean observatory and training range technology and how these technologies can provide for IMS sustainability and improvement.

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