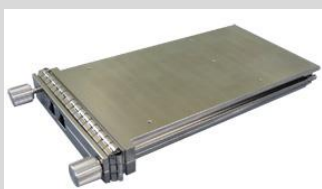
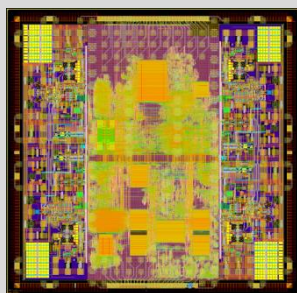
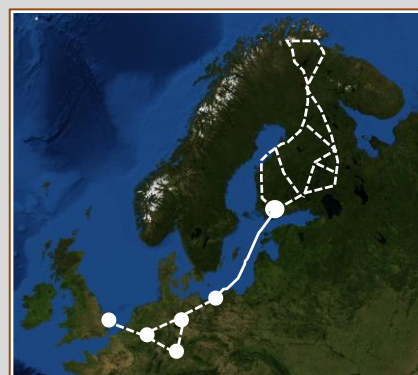
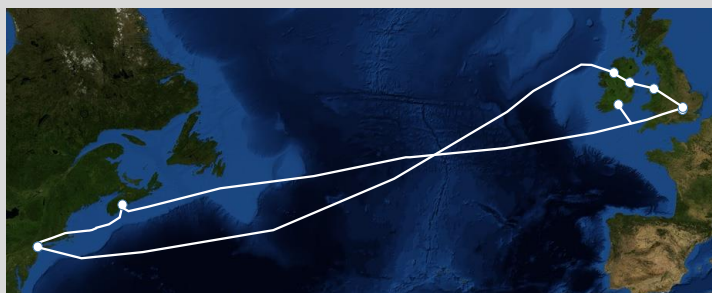


Focused Transmission Solutions

from



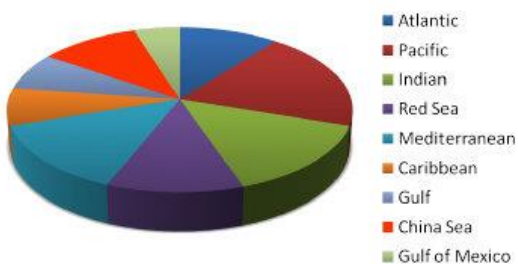
&



***Combining world renown Optical
Transmission Network Systems
Engineering with a State of the Art
Optical Transceiver Innovator.***

TEAM STATEMENT

David Ross Group (DRG) and Menara are committed to providing the best value solution of optical transmission systems. Combining the system engineering and network technology expertise of DRG with Menara's state-of-the-art optical transceiver design and fabrication ensures that customer expectations are met and exceeded.



DRG Projects are Distributed across the World, and have a combined value in excess of \$15B



Menara Technology addresses the growing telecom network and data center markets.

MARKETS

The prime markets for DRG and Menara are the commercial optical transmission and networking industries. DRG and Menara have teamed to support the U.S. Navy SBIR program; providing the government with the unique opportunity to leverage and customize cutting edge commercial technology to meet their specific needs.

DRG has successfully assisted in the design, planning, and implementation of some of the world's largest undersea telecommunications systems, while Menara has established itself in the industry as an innovator of high performance optical transceivers and networking devices. Combined, DRG and Menara bring a dynamic synergy and offering to the government optical communications market.



Core Competencies

DRG core competencies reside in the development, design, implementation, and operation of modern undersea optical transmission systems. The DRG systems view of the complex optical transmission systems in today's long haul undersea optical telecom systems is founded on expertise in

- High Speed Optical Transceiver Design
- Network design and development,
- Performance and Growth Specification,
- Specification development and adjudication,
- System Program Management,
- Operations and Maintenance, and
- Upgrade Capabilities

DRG members with a long history of supporting government programs provides the opportunity to bridge unique government requirements with state-of-the-art commercial subsea telecommunication technologies.



PCCS Contract Signing



Shore End Oversight



Contractor Site visit by Cinia & DRG for Project Sea Lion

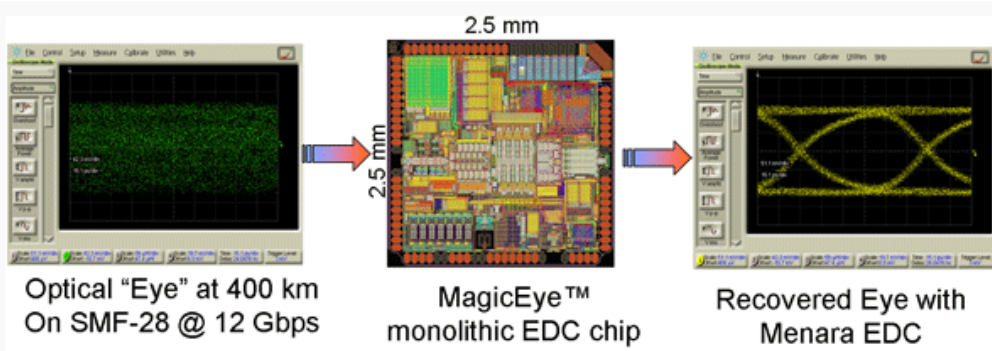


PTC '15 Submarine Ntwks Panel

DRG Global Telecom Networking Expertise

Menara's cadre of highly skilled technical personnel has a proven track record in optical transceiver development with a skill set that spans

- High Speed Optical Transceiver Design,
- Mixed-signal ASIC design,
- Digital Communications & Digital Signal Processing,
- Optical Network Systems Design,
- Embedded Software, and
- RF & Optical Systems Testing.



Leading Edge OTN Technology by Menara

Services and Products

Together, DRG and Menara bring a unique set of skills and perspectives to bear on the challenges of the undersea optical transmission system.

DRG has Program Managed and System Engineered some of the world's largest and undersea telecom systems in the world including

- SEACOM (East Africa / Indian Ocean)
- PCCS (Caribbean Sea)
- Telecom Egypt North (Mediterranean Sea)
- Gulf Bridge International (Arabian Gulf)

and is presently involved in Sea Lion (Baltic Sea), Atlantic Express Connect (Atlantic Ocean), and AAE-1 (Asia to Europe).



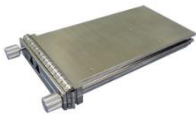
Seacom



Gulf Bridge International

and

Menara Pluggable Units



Menara has produced a wide offering of network transceivers, including its current offering:

- Tunable OTN XENPAK 10Gb/s Transceiver with Integrated G.709 and FEC
- Tunable OTN XFP 10Gb/s Transceiver with Integrated G.709 and EFEC/GFEC
- OTN 300-pin 10Gb/s Transponder with Integrated G.709, GFEC, EFEC, and EDC
- Tunable extended-reach ODB 100Gb/s CFP

Menara also has in-house ASIC design and software development to support its product set.

DRG's telecommunication system experience and services combined with Menara's telecom device design, development, and manufacturing capabilities and products leads to an optimized solution for the government customer.

Resources and Facilities

DRG offices are located in Morristown, NJ, with convenient access to New York City, and to Washington , DC.

DRG is comprised of a core group of network experts with AT&T Bell Labs legacy which is supplemented with vetted telecom subject matter experts as required to ensure that the Undersea Telecom System Client's expectations are exceeded at every phase of the program.

Menara offices and manufacturing facilities are located in Dallas, TX.

Menara has a core group optical, electrical, and software engineers with expertise in telecommunications networking device design and manufacture. Significant investments in its engineering staff and technical design tools ensure the delivery of the highest quality product. This engineering core is augmented by the manufacturing and quality engineering and technical staff responsible for the fabrication and test of Menara products. Menara has focused on automated assembly and test processes which enable it to maximize yield from its well equipped manufacturing and test facility.

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