ECI THE ELASTIC NETWORK

ARTEMIS

Artemis shelves are fully passive optical platforms that complement ECI's existing Apollo, NPT product lines. There are designed with the most advanced filtering technology, resulting in lower attenuation, longer signal reach, and reduced total network cost. It supports interworking with any product that complies with ITU-T G.694.2 (CWDM) and ITU-T G.694.1 (DWDM) standards, including all Apollo and NPT platforms.

Artemis platforms offer low cost, high modularity, small footprint, and very high density. Their passive optical modules free up slots in existing platforms for more active modules, allowing network operators to expand their networks with less investment in infrastructure, leading to reduced total cost of ownership (TCO).

Artemis modules provide the basic building blocks for xWDM multiplexing systems and can be used in most DWDM applications, such as triple play, business connectivity, and more, for access and metro networks.

Economical	**Interoperable**	**Flexible**	**Future-proof**
reduced network CAPEX	ITU-T grid compliant, alien λ support	supports a large set of passive modules	longevity, high stability

Artemis 1P

Artemis 2A

Artemis 4A

MXD48P

MXD96P

ENHANCED EFFICIENCY TAILORED TO YOUR NETWORK

Artemis shelves provide efficient support for both CWDM and DWDM interfaces. The wide range of optical modules include OADM filters, Muxes/DeMuxes, splitters and couplers, and micro dispersion compensation fiber (M-DCF) components that are all fully-passive elements, so there is no need for a power installation.

All filters include two monitoring points, which are extremely useful for wavelength equalization.

The Mux/DeMux modules are based on flat-top technology, designed to support back-to-back connectivity with minimal loss. The CWDM Mux/DeMux has an internal 1310 nm OSC port. Artemis is designed for efficient flexibility, enabling network operators to tailor their network configuration to match their requirements. For example:

- OADMs are based on East-West configuration, allowing network operators to use them as small Mux/DeMux modules.
- Although designed for high density, the Artemis uses LC connectors so that adapters are not required.

Artemis shelves qualify for the CE marking, an international standard of quality, certifying their utility in networks around the world.

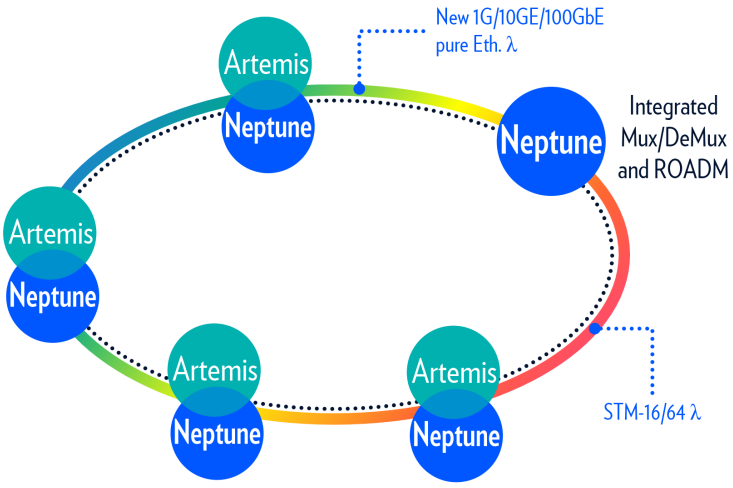
DATA SERVICES MULTIPLEXING

The Native Packet Transport (NPT) product line enables operators to build a Carrier Ethernet infrastructure with MPLS-TP or MPLS-IP over metro networks. These networks provide private and business customers alike with a variety of high-bandwidth multiplay services, meeting the strictest standards of quality of service, in a more cost-effective way than do existing technologies.

ECI's NPT platforms provide a complete range of native TDM (or circuit emulation TDM) and L2 data (over MPLS or Ethernet) services. Artemis shelves provide optimized WDM utilization capabilities that enable the NPT platforms to connect most efficiently to the physical layer.

- NPT platforms with colored optical interfaces may transmit their data on different wavelengths. Artemis shelves multiplex these wavelengths as they connect the NPT platforms to the network via optical rings or point-to-point links.
- NPT in this example can be replaced in any other 3rd party solution supporting ITU-T grid channels
- When a wavelength carries a full 10/100Gbps Gbps and the network needs even more capacity, operators can add additional data cards that transmit data on different wavelengths, each carrying 10 Gbps. This adds up to 44, 48, and even 96 channels over a single fiber pair.

The figure illustrates Artemis shelf multiplexing data services from NPT platforms in a ring topology.



IMPROVE YOUR APPLICATIONS

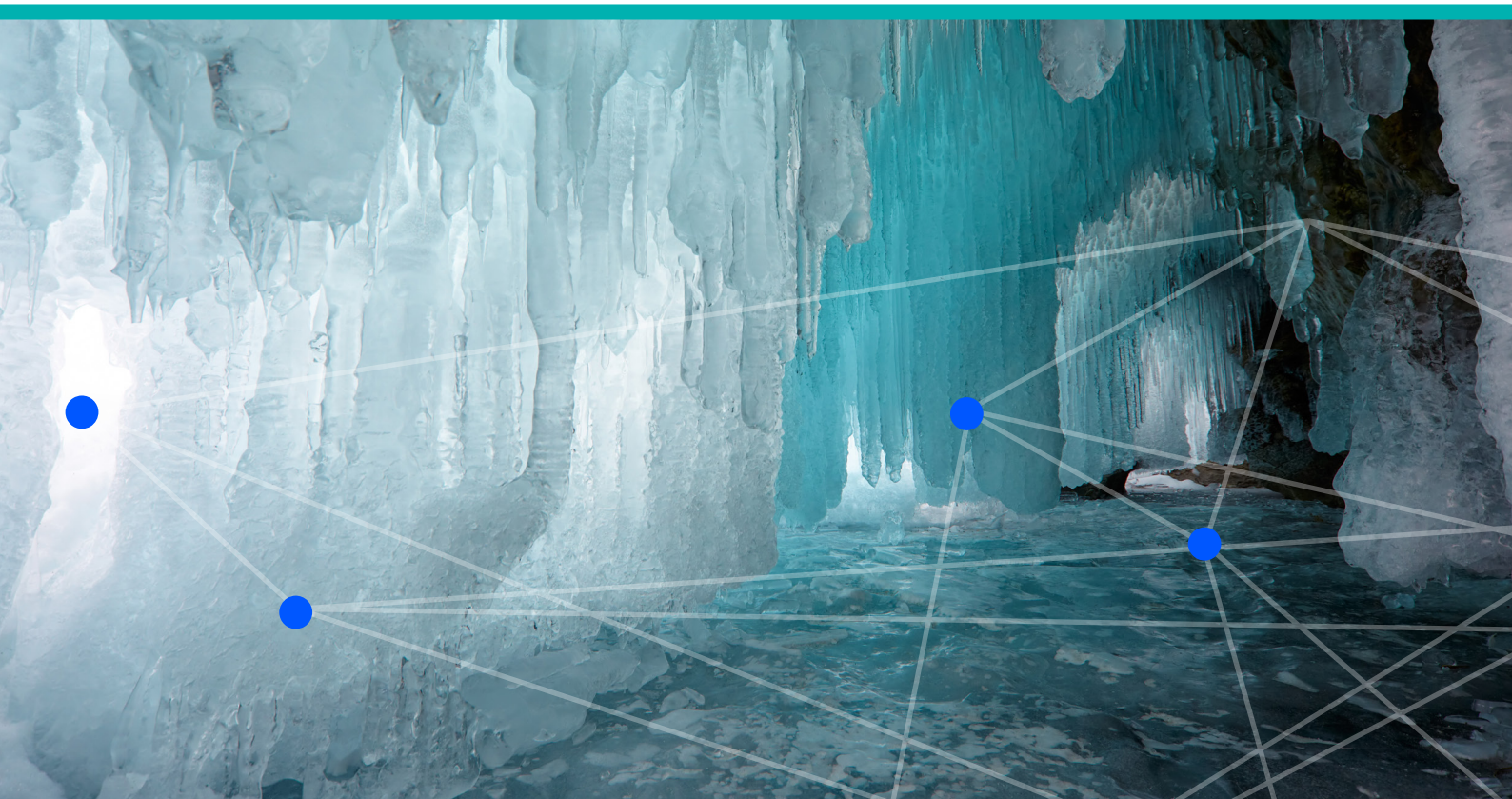
Artemis passive optical platforms can be used in various multiplexing and demultiplexing applications, including expanding fiber capacity to 2/4/8/16/32/40/44/48/88/96 channels, overlay of new services on existing fibers, single-fiber application, and more.

These applications add flexibility, allowing operators to consolidate and scale data, video, voice, storage, and other services. Following are two practical examples of Artemis installation benefits.

ADDING/DROPPING WAVELENGTHS

Optical network applications often require the ability to add and/or drop wavelengths at different sites. The capacity requirements, site location (indoors/outdoors), space availability, and need for power sources are all significant factors in the choice of a solution. For example, if only a few wavelengths are needed, passive OADMs are recommended. When handling a higher wavelength count, Mux/DeMux modules are required.

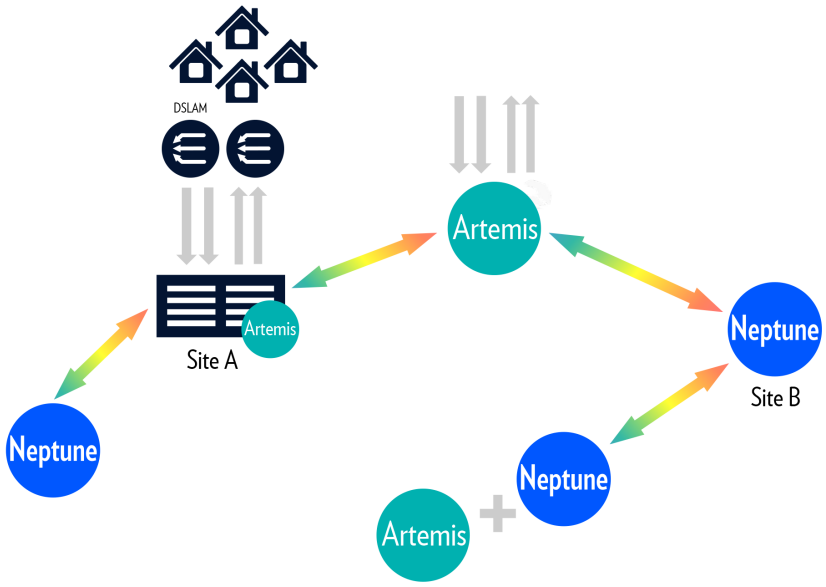
Artemis, with its small footprint, high density, convenient scalability, and independence from power, is the ideal solution for such applications.



A COLLECTION OF CAGES FOR CONFIGURATION CONVENIENCE

The Artemis cage is available in various sizes to meet each network and site requirements:

- 1 RU size supporting 2 slots
- 2 RU size supporting 4 slots
- 4 RU size supporting 8 slots
- Standalone chassis supporting full solution for 44E/48/96 channels



Artemis adds/drops channels and enhances the xWDM filter offering.

Contact us to find out how our ELASTIC solutions can help your business grow

ABOUT ECI

ECI is a global provider of ELASTIC network solutions to CSPs, utilities as well as data center operators. Along with its long-standing, industry-proven packet-optical transport, ECI offers a variety of SDN/NFV applications, end-to-end network management, a comprehensive cyber security solution, and a range of professional services. ECI's ELASTIC solutions ensure open, future-proof, and secure communications. With ECI, customers have the luxury of choosing a network that can be tailor-made to their needs today – while being flexible enough to evolve with the changing needs of tomorrow. For more information, visit us at www.ecitele.com