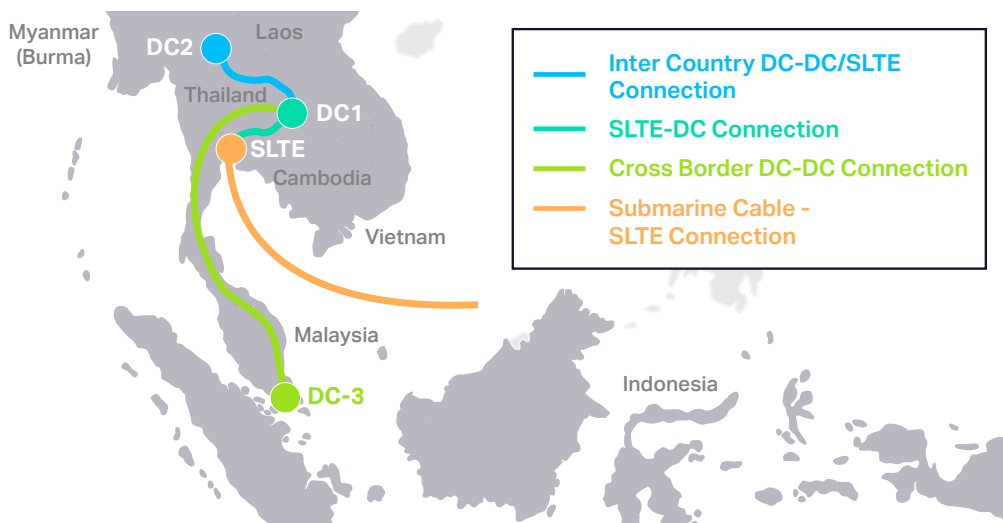**INFOBRIEF**

Managed Optical Fiber Networks

A Quick Introduction to a Win-Win Strategy

1. A time for growth

- ASEAN countries are prime locations for vital global data storage, cloud computing, and junction points.

- Singapore, Malaysia, and Thailand are leading the way by opening opportunities for new data center builds. These markets are expected to grow significantly in the coming years.

- As a whole, Southeast Asia's data center market is expected to grow at a CAGR of 6.57% until 2028 and reach 14.19 billion USD in value.

2. The MOFN method

- For cloud, content, and service providers seizing these new opportunities, Managed Optical Fiber Networks (MOFNs) offer a versatile and customizable solution that delivers the speed and connectivity end-users across Southeast Asia demand.

- Under the MOFN model, service providers proactively build out connectivity while cloud providers construct data centers. Having both parts in place around the same time means only a few simple touches are needed to achieve operationality—cutting time to market to just a few months.

——	**Inter Country DC-DC/SLTE Connection**
——	**SLTE-DC Connection**
——	**Cross Border DC-DC Connection**
——	**Submarine Cable - SLTE Connection**

Southeast Asia is growing in importance as a vital data hub

Source: Research and Markets, "Southeast Asia Data Center Market Landscape 2023-2028", Jul 2023
https://www.researchandmarkets.com/reports/5661111/southeast-asia-data-center-market-landscape-2023
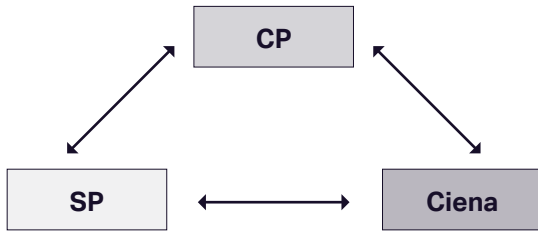
Under the MOFN model, cloud or content providers, service providers, and Ciena form equal three-way partnerships

- It straddles the gap between the ownership and leasing of network connectivity to provide many benefits for higher-scale operations, including:
    i. Accelerated transition to cloud
    ii. Preventing network chokepoints
    iii. Better network visibility
    iv. Greater automation
- The MOFN model also creates a faster and larger revenue stream for service providers—as cloud providers are willing to pay a premium for swift fulfillment, while still getting the high-capacity connectivity they need and being able to focus on cloud revenue.
- For those pursuing MOFNs, Ciena creates co-equal partnerships so that both cloud and service providers can proactively build custom architectures by mixing and matching the equipment they want.

3. WaveLogic™ 6

- For cloud providers pursuing the MOFN model, WaveLogic 6 delivers next-generation performance for cloud, content, and service providers looking to set new standards in data storage and delivery.
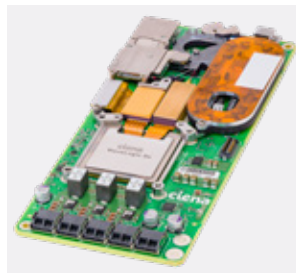
- It allows for new levels of automation and virtualization to ensure maximum uptime and preemptively address potential problems while users become more hands off.
- Delivering 1.6 Tb/s wavelengths, 800G connectivity, and a 15% increase in spectral efficiency, WaveLogic 6 is a powerful tool for achieving technological advancement.
- It offers a 50% reduction in space and power-per-bit requirements—doubling capacity without expanding footprint—providing an effective opportunity for cloud and content providers to become more sustainable and be aligned with Southeast Asian governments' commitment to a low-carbon future.
- Alongside WaveLogic 6's evolutionary technology, Ciena will help ensure optimal network utilization and extract maximum performance. Ciena can provide comprehensive network audits as well as complete lifecycle services, including:
    i. Managed services: Take the load and worry off, and focus on delivering the best possible experience to end-users
    ii. Learning services: Comprehensive curricula to build knowledge and skills
    iii. Resident engineers: A cost-effective method of transferring knowledge, enabling staff to be operational on new equipment and systems faster
    iv. Managed NOC: Data-center management solutions to get the most out of the available space while minimizing resource consumption

Want to learn more?

Contact your Ciena representative or visit our website **Get in touch**

Was this content useful? ◯ Yes ◯ No

ciena