

APCN 2 FACT SHEET

Benefits for Reach and customers:

- Multiple-country access – APCN-2 will land in all the top Asian markets (Hong Kong, Japan, Singapore, China, Korea, Taiwan, Malaysia and Philippines)
- Diversity – provide customers with alternative routing options (other recent cable systems in Asia offer only limited routing opportunities, and mainly offer more capacity between only two points, which does not relieve the intra-region bottleneck).
- Security – state-of-the-art technology and ring configuration greatly enhances reliability and is important to customers who need to deliver uninterrupted, mission-critical traffic.
- Competitiveness – allows Reach to offer services in line with today's bandwidth-hungry applications.
- Fits Reach's strategy for regional growth.

1. Technical data

- Full Capacity: 2.56 terabits (2,560 gigabits or 2,560,000 megabits)
- Length at completion: 19,000 km
- Cost: approximately US\$1 billion
- Latest Dense Wave Division multiplexing technology (see below)
- Self-healing ring configuration

2. APCN 2 name

Name is derived from the original Asia Pacific Cable Network. APCN 2 follows a similar submarine route, i.e., Japan, Korea, China, Taiwan, Hong Kong, Philippines, Malaysia, and Singapore.

3. Interconnectivity

APCN 2 will provide seamless interconnection to Australia and Europe via the existing SEA-ME-WE 3 cable and across the Pacific Ocean to USA via the China-US and Japan-US cables. APCN 2 will also interconnect with the Australia-Japan cable, another ambitious high-bandwidth project in the region, scheduled for commissioning later this year.

4. SEA-ME-WE 3

Stands for South East Asia – Middle East – Western Europe 3. This 39,000 km cable connects Japan to Germany, with 31 other countries/territories en route, and onwards via connecting cable systems across the Pacific and Atlantic Oceans to the West and East Coasts of USA.

5. Dense Wavelength Division Multiplexing (DWDM)

The system adopts the state-of-the-art 640 Gbits/s per fibre-optic pair and DWDM technology to provide upgradable, future-proof transmission facilities that support Internet and e-commerce.

6. Design capacity

Cable design capacity is 2.56 Tbits/s, which is the maximum deployable capacity. This is equivalent to 33 million simultaneous telephone/data conversations at the speed of 64 kbits/s. The initial available capacity is 160 Gbits/s. The additional capacity can be made available by deploying the required terminal equipment at marginal costs.

7. Operational date

The cable system will be ready for traffic in the third quarter of this year.