

# Tata TGN-Pacific

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## OWNERS

Tata Communications 100.0 %

## COMMENTS

Tata TGN-Pacific has the highest potential capacity on the trans-Pacific route. Completed in December 2002, the system forms a self-healing ring connecting the U.S. to Japan. The cable currently operates at 2.7 Tbps on the northern leg and 3.25 Tbps on the southern leg after an upgrade using Ciena's 100 Gbps technology in early 2014.

## READY FOR SERVICE (RFS) DATE

December 2002

## CABLE LENGTH

22,300 km

## CONSTRUCTION COST

USD 1,700,000,000

## SERVICE OFFERINGS

### Wavelengths

- 10 Gbps
- 40 Gbps
- 100 Gbps

### SDH/SONET

- STM-1/OC-3
- STM-4/OC-12
- STM-16/OC-48
- STM-64/OC-192

### Ethernet

#### Technology

- EoMPLS
- EoDWDM
- EoSDH

#### Bandwidth

- 100 Mbps
- 1 Gbps
- 10 Gbps
- 40 Gbps
- 100 Gbps

### Other

- Fiber Pairs
- Spectrum

PURCHASE OPTIONS

Leases

- Leases (Less than 1 year)
- Leases (1-3 years)
- Leases (over 3 years)
- Convertible Leases

Indefeasible Rights of Use

- IRUs

Backhaul

Included in the standard product

Colocation

Available in landing stations and nearest major cities

CABLE CAPACITY

TGN-Pacific North Leg

	<b>Lit Fiber Pairs</b>	<b>Lit Wavelengths per Fiber Pair</b>	<b>Gbps per Wavelength</b>	<b>Total Capacity (Gbps)</b>
2016	4	n.a.	10/40/100	2,720
Potential	8	38	100	30,400

TGN-Pacific South Leg

	<b>Lit Fiber Pairs</b>	<b>Lit Wavelengths per Fiber Pair</b>	<b>Gbps per Wavelength</b>	<b>Total Capacity (Gbps)</b>
2016	4	n.a.	10/40/100	3,250
Potential	8	23	100	18,400

TGN-Pacific Oregon-California

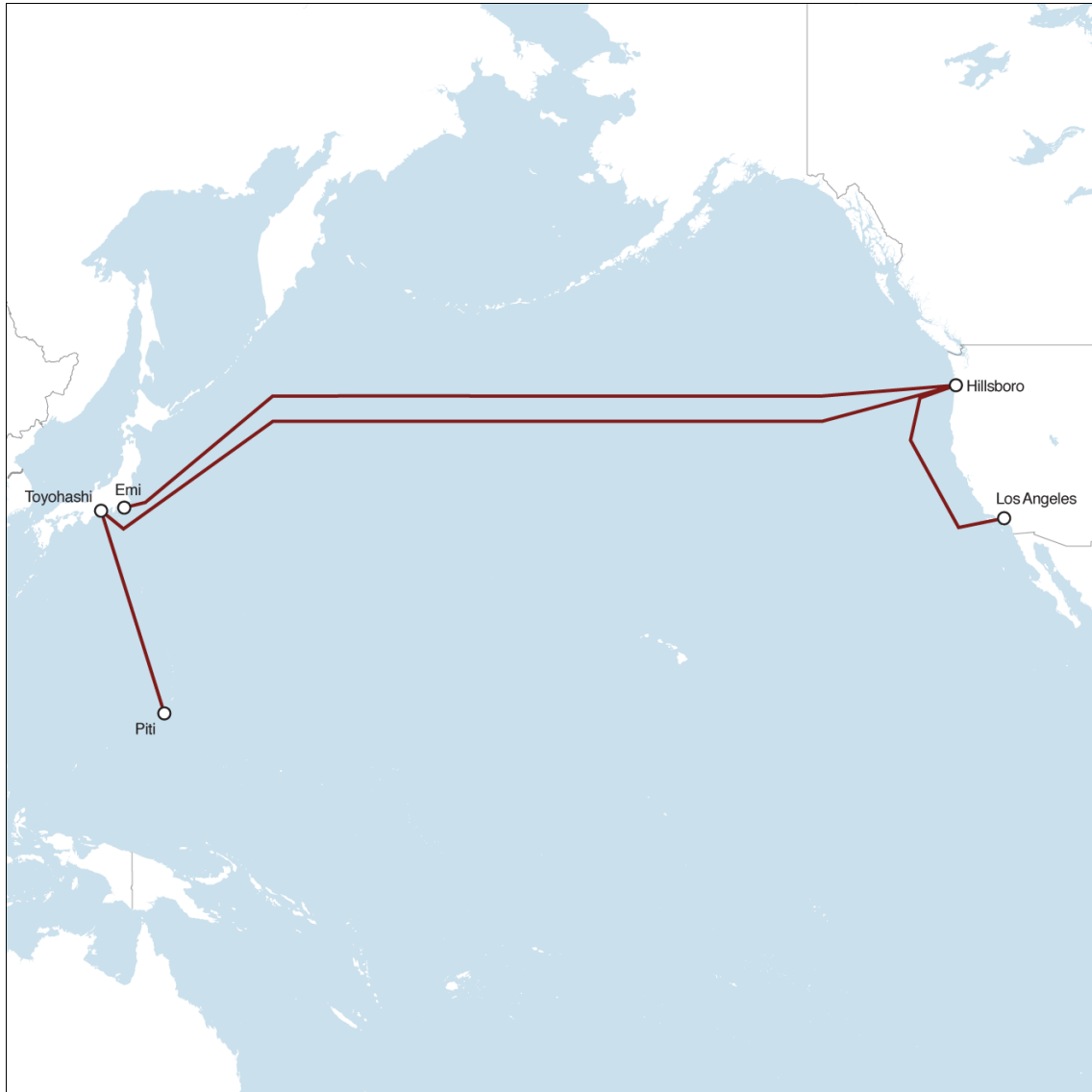
	<b>Lit Fiber Pairs</b>	<b>Lit Wavelengths per Fiber Pair</b>	<b>Gbps per Wavelength</b>	<b>Total Capacity (Gbps)</b>
2016	1	18	10	180
Potential	4	61	100	24,400

TGN-Pacific Japan-Guam

	<b>Lit Fiber Pairs</b>	<b>Lit Wavelengths per Fiber Pair</b>	<b>Gbps per Wavelength</b>	<b>Total Capacity (Gbps)</b>
2016	3	var.	10/40/100	760
Potential	4	50	100	20,000

Total Unprotected Capacity

	<b>Total Capacity (Gbps)</b>
2016	5,970
Max	48,800



#### LANDING POINTS

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- Emi, Japan
- Hillsboro, Oregon, United States
- Los Angeles, California, United States
- Piti, Guam, United States
- Toyohashi, Japan

The content on the preceding pages is a section from TeleGeography's Global Bandwidth Research Service

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