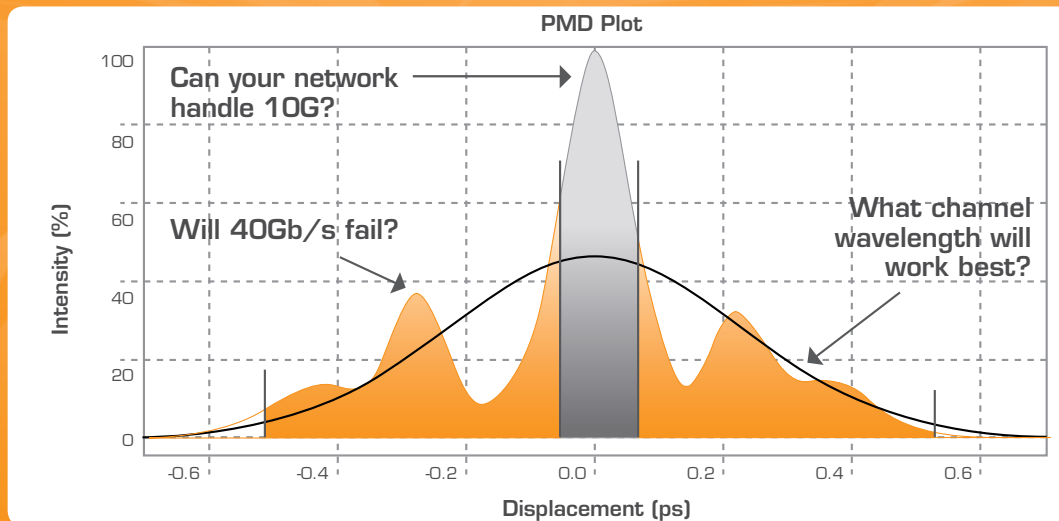




the art of measurement

DWDM Readiness Validation



What do you see?

We see critical transmission system issues

Important questions to ask about your network:

2.5G, 10G, 40G, 100Gb/s

How fast can your network operate?

- Will your transmission system operate error-free?
- Can you operate DWDM/CWDM or both?
- What wavelengths should be used?
- Can your bandwidth be upgraded?
- How many channels can be deployed?

What impact will an under performing network have on your business?

The demands placed on today's optical network infrastructure are higher than ever. The revenue generated by DWDM and CWDM transmission systems is critical to the bottom line of network owners.

Due to the demands of today's transmission systems, network owners require a modern approach to ensure the quality of their infrastructure. Many organisations are unaware that system errors may be caused by the culmination of dispersion limit violations. Networks operating DWDM/CWDM require dispersion and return loss validation, not just insertion loss to achieve long term system stability.

Celemetrix's Professional Service Division offers a range of highly technical optical test services designed to validate optical infrastructure for DWDM/CWDM and high speed bandwidth suitability. We execute a range of critical infrastructure performance measurements, and prioritise your infrastructure based on system suitability and list recommended actions to increase the capability of your network. Many of our clients are assured that when they turn on their transmission system their network will not fail them – **That's our guarantee.**

Our testing services include:

- Chromatic Dispersion (1280-1620nm)
 - Differential Phase Shift
- Polarisation Modal Dispersion (1550 & 1625nm)
 - Michelson Interferometric Method
- Optical Return Loss (ORL @ 1310, 1550 and 1625nm)
- OTDR (1310, 1550 & 1625nm)
- Insertion Loss
- Link Loss
- Cable prioritisation
- Link performance recommendations
- Link stability recommendations
- Maximum link capacity

If as a result of our testing services, we believe that link performance improvements can be achieved, Celemetrix will provide a detailed action plan to optimise your network infrastructure. Celemetrix can undertake all elements of project management to facilitate the activities needed to meet our customer's desired outcomes.

Mission critical infrastructure demands the best quality assurance processes – Celemetrix Delivers!

Why Choose Celemetrix?

- **Experience:** Six internationally trained engineers on full time staff
- **Speed:** All equipment is owned – No delays in international shipping
- **Professionalism:** Fast turnaround time
- **Response Time:** Short lead times to assist with meeting critical project milestones
- **Competency:** Celemetrix is the industry leader in the design and execution of complex test plans
- **Reports:** Comprehensive and detailed reports outlining results, interpretations and recommendations.



Our Experience:

- Carrier (Singapore) – Submarine DWDM long haul performance validation
- Carrier (Singapore) – Data Centre interconnect link verification (10Gb/s/DWDM – 24 channels)
- Utility - Bass Straight DWDM validation
 - Longest single length of cable in Australia 280Km
- Utility - 1000km Utility OPGW cable dispersion validation for transmission design
- Utility – 10Gb/s client connectivity performance validation
- Carrier – Multi-wavelength transmission system upgrade validation
- Carrier – Network audit required to conclude transmission system errors (Dispersion violation).

The Celemetrix Story

Celemetrix's expertise and focus is the validation and analysis of network performance. Our experience is gained from working in the total life cycle of new and developing technologies. Celemetrix is integral from the very beginning in the proof of concept labs of the largest names in the industry to ongoing support of the deployed technology.

Celemetrix's network professionals are equipped with a range of instrumentation from industry recognised leaders in application emulation and Quality of Services conformance, instrumentation that companies simply could not justify ownership of.



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