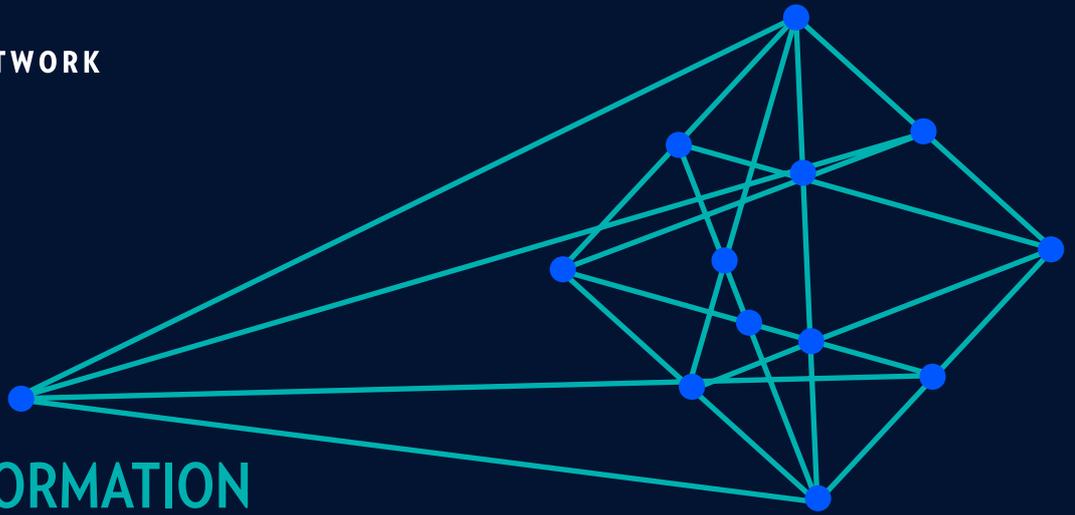# ElastiNET
HYBRID TRANSFORMATION
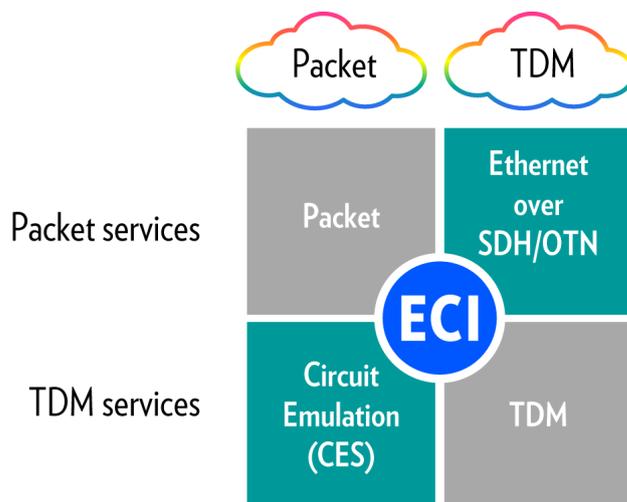
TDM-TO-PACKET MIGRATION

To be considered a competitive service provider today, you must be able to offer a future-proof solution for migrating from TDM to packet-based transport without jeopardizing TDM revenues. This is not a simple task because networks and operation environment are so diverse. Budget constraints, the amount of services, organizational structure, and customer requirements can only be handled with an elastic solution - one that can be tailored per network scenario and can scale and evolve, over time. ECI's ElastiNET TDM-to-packet migration solution was designed with this sort of flexibility in mind. It provides cost-efficient, risk-free, and future-ready migration from TDM-based to packet-based transport, without hurting TDM service profits.

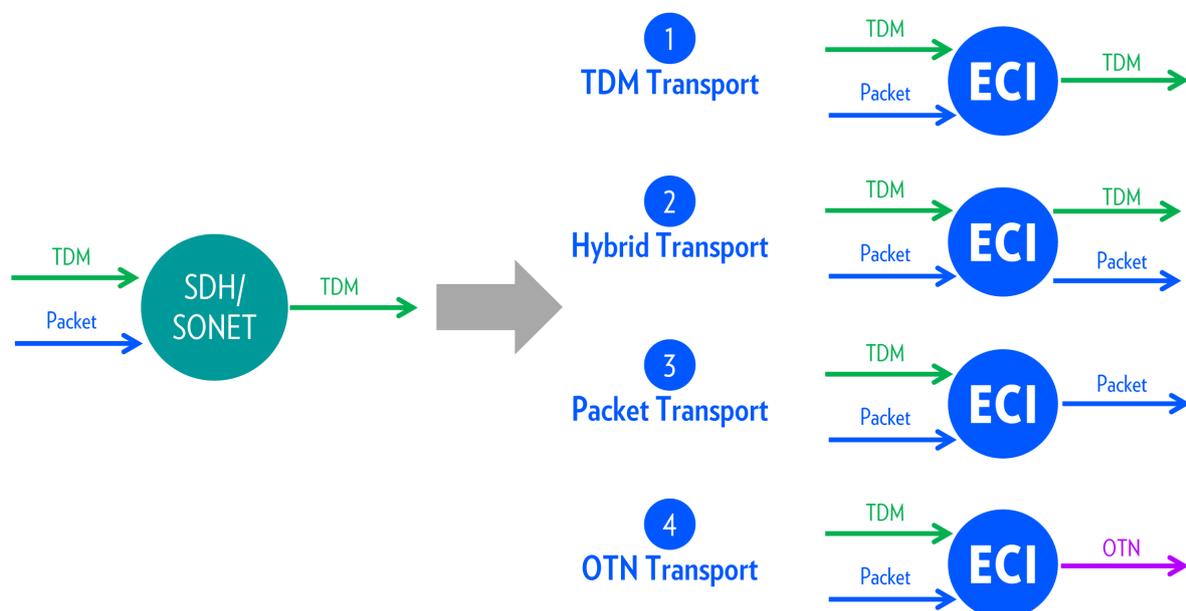| **Controlled migration** risk-free	**Flexible support** for both native and CES TDM	**Added-Value** revenue-generating services	**Ultra-efficient** end-to-end operation

As a Service Provider, one of your main concerns is the fact that packet services are surging while TDM traffic continues to decrease. Nevertheless, end customers often demand to maintain their legacy TDM services, which are often very profitable. In many cases, legacy TDM transport equipment is used to transport both TDM and packet services over TDM-based transport. This equipment is either becoming obsolete or too expensive to maintain and cannot handle the data surge of the packet traffic efficiently. The big challenge is how to migrate to a next generation transport solution that handles the growing demand for packet services, without jeopardizing TDM revenues.
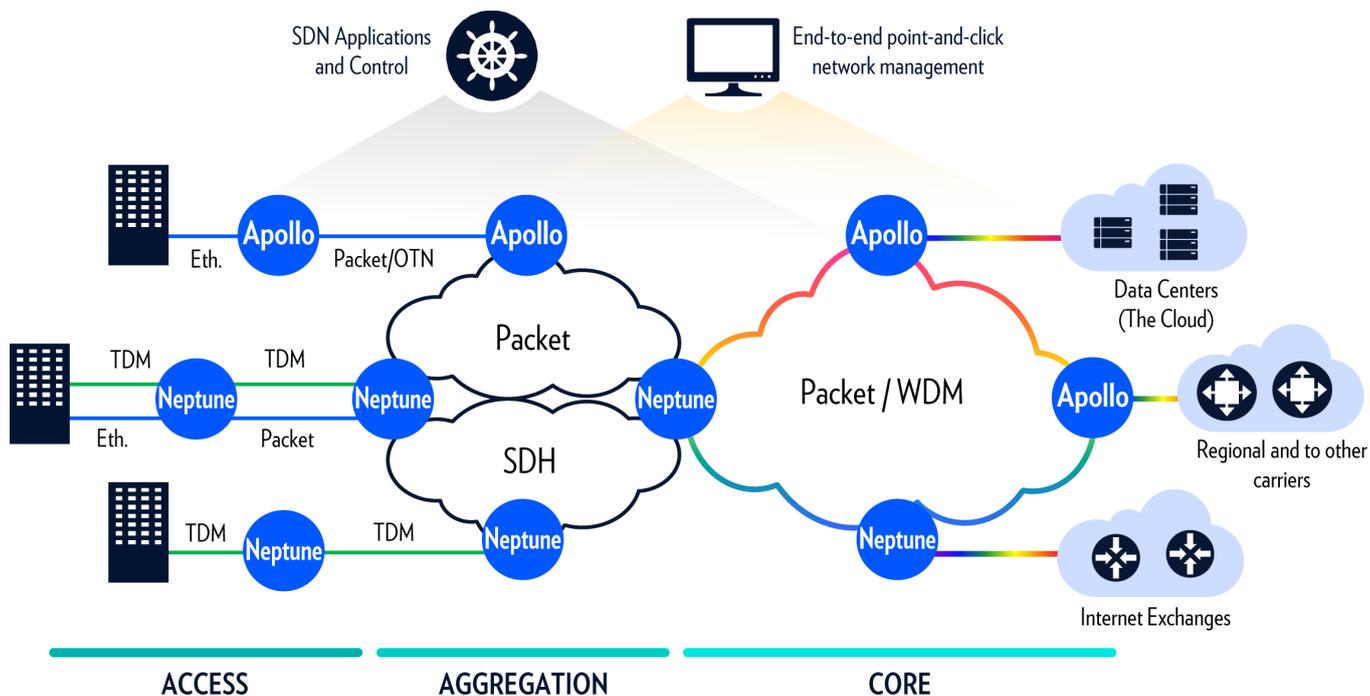
From the very start, ECI's TDM Migration Solution provides controlled, risk-free transition from TDM transport to Hybrid Packet-and-TDM transport. This is performed with an ongoing evolution path to converged packet or OTN transport, as required. The solution has an extremely powerful and flexible combination of TDM, packet, and optical capabilities, enabling your network to support any existing scenario and evolve, over time, keeping pace with traffic pattern changes.

Such flexibility enables evolution support for any of the following scenarios:

1 **TDM transport:**
Both TDM services and packet services are carried over TDM-based transport. TDM is carried natively, while packet services are carried via Ethernet over SDH/SONET (EoS).

2 **Hybrid transport:**
Both TDM and packet services are carried natively (TDM-over-TDM and Packet-over-Packet).

3 **Packet Transport:**
Both TDM and Packet services are carried over Packet (TDM services are carried using circuit emulation).

4 **OTN Transport:**
Both TDM and Packet services are carried over OTN.

So, your TDM revenues are not jeopardized as your infrastructure efficiently handles the growing demand for packet-based services. You also have full control over the pace of migration and can tailor it to varying requirements in different sections of your network. ECI's TDM migration solution combines Carrier-Grade service assurance, visibility, and control with packet efficiency and multiservice support. This produces a powerful, flexible, and efficient end-to-end metro solution, ready to support current as well as future needs.

Hybrid Transformation - The Best of Both Worlds

Features and benefits of TDM migration using ECI's hybrid TDM and packet transport

FEATURE	DESCRIPTION	BENEFIT
Controlled, risk-free migration		
Native-mode TDM transport	TDM services – from 64Kpbs to 10Gbps – are delivered and managed exactly like pre-migration.	• No jeopardy to existing TDM revenue streams • No need to replace intermediate TDM-based equipment in the transport path • No need to change TDM procedures and re-train personnel
Native-mode packet transport	L2 and L3 packet services are delivered and managed using packet technologies, like Ethernet and MPLS, without encapsulation over TDM via EoS.	Most efficient and scalable use of bandwidth to deliver packet services.
Modular TDM/packet architecture	Flexible handling of varied TDM and packet traffic mixes on the same platform, with option to migrate TDM traffic, while converging to packet or OTN transport.	Migrate at your own pace, linking investments to specific traffic needs.
Carrier Grade	Multiple features, including HW redundancy, multiple protection and restoration mechanisms, and guaranteed performance based on MPLS-TP.	Guarantee ultra-high service availability to maintain strict SLA requirements.
Pay-as-you-Grow	Upgradeable switching capacity and in-service expansion units.	Handles traffic growth smoothly, without changing platforms.
Colored Interfaces	Optional xWDM interfaces.	Interworks seamlessly with WDM transport.
Comprehensive packet services suite		
MEF 2.0 Certification	MEF 2.0 certified for all Carrier Ethernet services: E-Line, E-LAN, E-Tree, E-Access.	Provide CE services with confidence according to MEF2.0 specification.
Value added services		
NFV-based Cyber Security Suite	Comprehensive suite including L2/L3 encryption, DDOS protection, Firewalling, secure site and unidirectional gateways, strong authentication, network anomaly detection and big data analytics.	Offer premium cyber security service packages.
Guaranteed Performance	Connection-oriented packet services, based on MPLS-TP.	Premium services with guaranteed SLAs
Integrated L1 services	Deliver L1 transparent transport alongside TDM and packet services.	Single integrated platform solution for providing customers a broad array of services.
Measurable KPLs	Monitor actual performance against committed SLAs.	Confirms capability to meet service commitments.
Ultra-Efficient operation		
LightSOFT end-to-end point & click NMS	Complete multilayer service and network management from demarcation points to the metro core.	Rapid time to market and high service availability.
LightAPPS SDN Applications	Turnkey applications for dynamic bandwidth control, network intelligence and network analytics.	Highest utilization of network resources, and faster service and network provisioning.

Specifications subject to change without notice

Contact us to find out how our ELASTIC networks 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**