

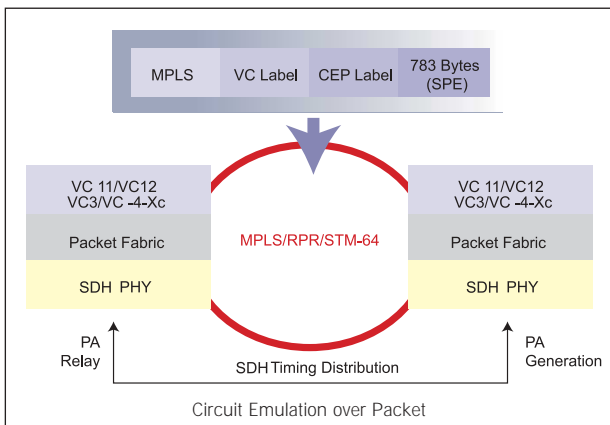
Corrigent CM-100 Packet Transport

TDM Services in the Packet Transport Solution – SDH

The CM-100 is a carrier-class packet-optimized network element for the transport of Data and TDM services.

For TDM services, it supports the transport of VC11, VC12, VC-3, VC-4-Xc signals (e.g. private line) as circuit emulation over packets (CEP). These services are transported within the same delay, jitter and wander tolerances as in traditional SDH devices, consistent with ITU-T and Telcordia specifications.

Corrigent's CEP implementation is consistent with the IETF draft-ietf-pwe3-sonet-12.txt for (CEP). As illustrated in this scheme, the payload is broken up into 783-byte packets, which corresponds to the size of the SPE. A 4-byte CEP label is then appended to each packet, including indications for AIS, UNEQ, pointer adjustment and sequence number. An MPLS header and VC label are used to identify the virtual circuit and forward the packet to the proper destination.



At every TDM user interface module (UIM), a number of Group Termination Points (GTP) are defined on the network side. This creates a number of virtual ports; effectively enabling the cross-connection of multiple user-side E1/VC signals to a network-side fractional VC-3 (a fractional VC-3 carries only a set of utilized VC within a VC-3 container). This enables the suppression of unused rows (i.e. idle channel suppression) yielding an efficient use of network capacity and bandwidth conservation.



