## P Juniper <br> IP + Optical

Multi-layer solution


## TX Matrix ${ }^{\text {TM }}$ - Resilient Architecture

"Fully Redundant architecture
${ }^{-}$No single point of failure
-Passive mid-plane design
"Full Component Redundancy
-(5) Fabrics: (4) provide full non-blocking switching
-Dual power, cooling, RE's, CB's, CIP's
"Fully redundant interconnects
-5 optical data paths between each T640 and TX
-Separate, redundant UTP control paths between each

## TX Matrix - Full Featured

Supports (4) T640 Routing Nodes today

- 2.5 terabits of capacity....scales well beyond
"(128) 10Gbps ports, (512) 2.5Gbps ports
-Same FPC's and PICs - Investment Protection



## TX Matrix System

-The "Juniper way"
-All M/T leverage same architecture \& JUNOS SW, Single OS = service velocity, operational efficiency
-JUNOS + TX Matrix = Full Featured at FCS
-GMPLS, IPv6 multicast, Point to multi-point LSP's, L2/L3 VPNS, much more


## Plug \& Work GMPLS Operation NEC



