

Net.Edge a timing access point



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Net.Edge extends Net.Time across the WAN and substations. It can be configured as either a Boundary Clock (BC) or Transparent Clock (TC) to transports PTP to the edges while filtering and regenerating the signal before distributing it through its ports. This shortens paths, improves quality and facilitates scaling.

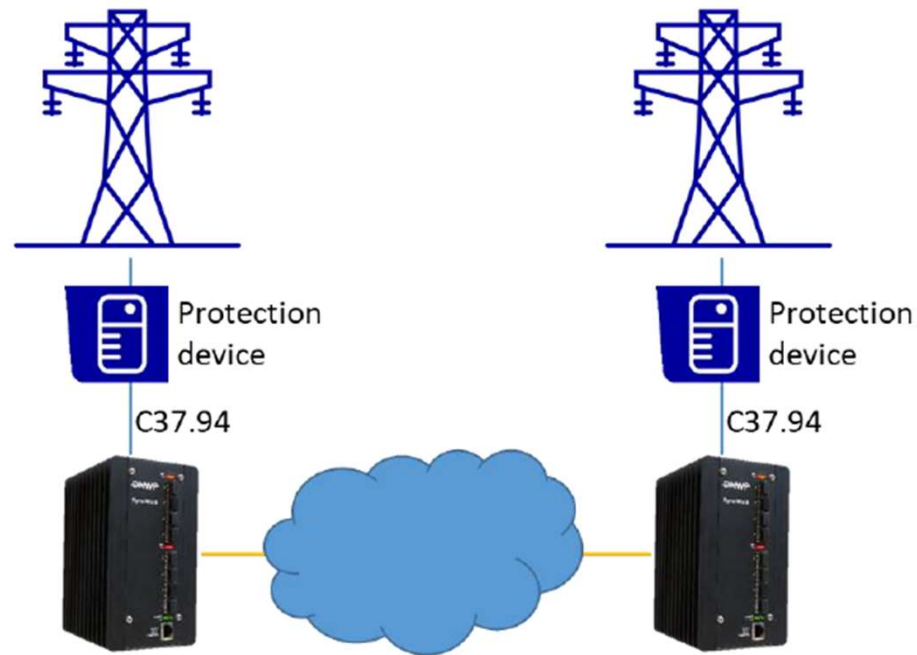




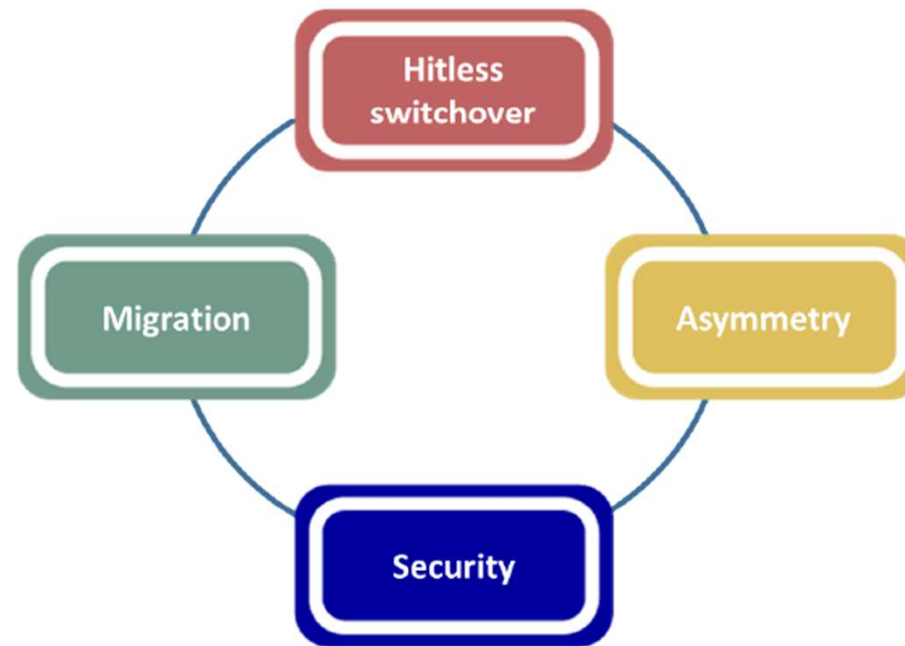
Net.Time is timing source while Net.Edge not only multiply the number of ports working a Transparent Clock (TC) or Boundary Clock (BC) but also forwards the PTP signal while correcting the path, ensuring on this way that downstream equipment always receives accurate and stable time.



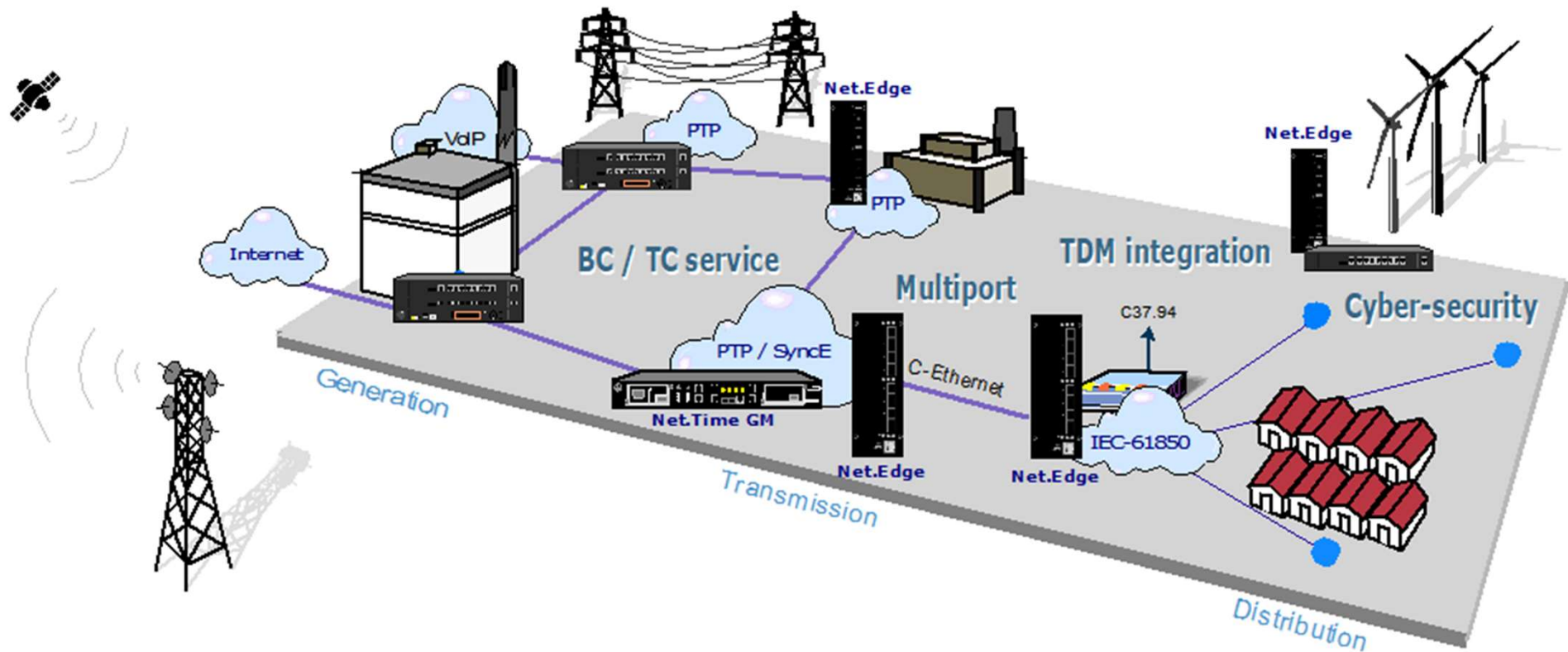
Net.Time GM manages the PTP in the WAN or in the Substation while Net.Edge multiplies the number of ports (x8) and may also adapt bit-rates (to 2,5 GbE) using a 11 Gbps switch matrix.



Net.Edge is the compact solution for all challenges and it enables modern functionalities to existing systems with minimum changes. It can support C37.94 transport over MPLS-TP networks as well as any L2 or IP routed network. Advanced features for electricity power utilities are encrypted C37.94, asymmetry measurements and hitless path protection switchover.



Optional AES-256 encryption and authentication for transported services; local keying or automated exchange available. Aggregate SCADA, RTUs and IP cameras alongside timing. Class-of-service and private circuits (point-to-point or multi-point) keep traffic predictable while timing remains unaffected.



Small, silent and efficient for hard-to-reach sites. Dual DC inputs and resilient links help maintain service when power or WAN routes change, Net.Edge has been designed for substation environments (IEC 61850-3 / IEEE 1613), -20...+65 °C, IP40, fanless, ready for continuous operation at the edge.



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