

# HyperIP

## HyperIP<sup>®</sup> Data Sheet

Network Executive Software (NetEx) continues as the choice of IT professionals for moving and accelerating mission critical application data since the early 1980s. Large and small companies alike in all market segments throughout the world have come to rely upon NetEx technology for delivering their data in time—all the time.

HyperIP allows any IT department to view the world as if it existed on your local area network. While accelerating IP applications, and bulk data transfers over your WANs; HyperIP mitigates network issues that degrade application performance, virtually eliminating latency and enabling extremely high data availability with guaranteed data delivery. HyperIP also helps mitigate network issues for remote SANs that are using FCIP, iFCP or iSCSI transport technologies.

HyperIP provides a non-disruptive, extremely scalable foundation through a time tested production-hardened transport to move data faster, in a simple, cost effective manner, providing the key for network professionals to extend the utilization of their wide area network (WAN) infrastructures.



### Achieve Strategic Business Objectives

HyperIP sets new standards for application performance over WANs. Organizations now have the ability to move more data between remote sites on a global basis, achieving the same performance as if they were locally connected. Companies of all sizes and industries leverage HyperIP for moving mission critical data between data centers and/or branch offices to meet the strategic objectives of their businesses.

### Exceed Performance Expectations

HyperIP delivers unmatched performance for any applications that require connectivity to remote locations. HyperIP users can reasonably expect TCP-based application throughput improvement up to 10 times native WAN performance. This helps organizations meet required backup windows and data transfer timeframes. HyperIP transparently improves performance for applications including: replication, mirroring, snapshots, vaulting, file transfer, email archives, check & medical images, digital video transfers, VoIP, and many more.



### Lower WAN Costs

HyperIP reduces cost by efficiently utilizing your existing WAN. Organizations can dramatically reduce their bandwidth consumption enabling applications through the use of HyperIP to achieve their throughput requirements. Reduce or eliminate bandwidth purchases due to increased application demands and data growth by maximizing the potential of your current infrastructure. Lower-cost networks, such as ISP Internet access, can now be used to support mission-critical applications between locations. Quality of Service (QoS) features such as rate limit controls further improve application throughput. By managing specific bandwidth requirements by application, HyperIP guarantees your associated bandwidth requirements will be met on time-every time.

### HyperIP Technology

HyperIP is an award-winning and patent-pending, solution for moving TCP data efficiently through a time tested, production-hardened transport over WAN networks. HyperIP provides Auto Sensing data compression, TCP-based optimization; including latency, jitter, and packet loss mitigation, congestion avoidance and out-of-order sequence reduction. HyperIP does not alter application protocols nor does it modify any file systems. It simply allows data (blocks or files) to move very efficiently over inefficient network conditions with guaranteed data delivery.

### Meeting Requirements of Today and Tomorrow

HyperIP is based upon a single platform design that provides the same feature set regardless of whether you are moving data between branch offices or enterprise-class data centers. The only difference is the rate by which HyperIP operates. We believe that customers should only pay for the bandwidth and performance that they need. In doing so HyperIP scales from 1 Mb/s to 622 Mb/s depending upon your bandwidth requirement. We are not in the business of forcing our customers to purchase multiple platforms for various needs. A highly architected, but simple to use HyperIP platform design will serve your needs today and for those in the future.

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### HyperIP FEATURES

- **Transparency** — HyperIP is transparent to applications, providing LAN-like performance for TCP applications. No changes to application protocols are required when implementing HyperIP.
- **Simplicity** — Transparently connects to an existing LAN providing a totally non-disruptive, seamless installation.
- **TCP/UDP/ICMP Optimization** — Mitigates issues that degrade application and data migration performance over the WAN. HyperIP manages data across the WAN avoiding application data recovery situations which causes reduced data throughput. HyperIP also supports data delivery between remote SANs by enhancing FCIP, iFCP or iSCSI transport technologies.
- **Efficient Data Blocking** — HyperIP utilizes a data reduction algorithm that reduces the amount of data transferred over the WAN. Data is organized into large blocks before being compressed and sent over the WAN.
- **Block Level Adaptive Compression** — Customers have experienced compression ratios ranging from 2:1 to 15:1.
- **Rate Limit Controls** — Bandwidth rate controls that limit throughput of applications by time of day. Application throughput can be changed during certain hours for bandwidth management of accelerated traffic.
- **Performance Monitor Tools** — HyperIP provides a graphical user interface providing a heads up display of throughput & performance statistics. Our GUI in real time provides the ability to work with performance adjustment controls allowing you to achieve your maximum performance capability. HyperIP is fully SNMP compliant for integration into a central monitoring console.
- **Scalability** — A single HyperIP transport support speeds from 1Mb/s to 622 Mb/s. Our competitors will offer multiple models requiring you to purchase another unit to add to your system or force a forklift upgrade. With HyperIP you seamlessly upgrade your bandwidth allowance as application demands grow via a simple performance key upgrade, providing a complete feature set all the way up to 622 Mb/s. Key upgrades are non-disruptive, in-line, real time and include the ability to add an Active-Active or Fail Safe roll over unit with very little additional effort.
- **Network Integration** — Simple to use and simple to install. HyperIP is installed on the LAN as a gateway or as a proxy server. Traffic is directed to HyperIP for optimization using common routing functions. HyperIP accelerates application data over any IP-based network.
- **High Availability** — HyperIP's Active-Active and Automatic Hot Standby feature provides fault tolerant operation. User configurable controls will send broadcast capable e-mails and/or SNMP traps when HyperIP detects a triggering event providing the early warning indications that network administrators demand.
- **Encryption** — HyperIP has been qualified with our industry's best-of-breed security encryption devices including: General Dynamics Taclane, Cisco VPN routers, CipherOptics, Blue Ridge Networks BorderGuard and others.
- **Graphical User Interface Controls** — Our Web based GUI provides the simplest means of installing, configuring, and operating your HyperIP.
- **Network Sizing Utilities** — HyperIP includes several built-in utilities for testing network capacities, latency, trace routes, optimum network segment size and others.

