



OVERVIEW

DataMover Network is a native graphical host-based application (no Java or .NET) consisting of separate Client and Server components. It generates IPv4 and IPv6 traffic over TCP and UDP to validate and characterize networking interfaces and subsystems. Available as 32-bit and 64-bit Windows client/server applications, plus a Linux 64-bit command-line server compatible with the Windows client. DMN does not bypass native Microsoft or vendor drivers and operates up to layer 4 of the OSI model.

KEY CAPABILITIES

- **Client / Server Architecture** — Windows GUI client & server; Linux CLI server compatible with Windows client
- **IPv4 & IPv6** — Native dual-stack support; client can run IPv4 and IPv6 simultaneously
- **TCP & UDP Traffic Generation** — High-performance TCP and UDP support
- **Four I/O Directions** — IN (half-duplex), OUT (half-duplex), BOTH (full-duplex), and LOOPBACK
- **Data Integrity & Error Checking** — End-to-end pattern verification, bus triggers, Windows event logging; available in all I/O directions
- **Performance Metrics** — Real-time throughput (MiB/s), IOPS, latency graphs with history
- **Multi-Interface / Multi-Node** — Client connects to multiple servers; multiple server instances for multi-NIC
- **High Connection Density** — Up to 300 concurrent TCP connections per server interface
- **Transfer Sizes** — Configurable; advanced performance tests characterize twenty transfer sizes
- **Automation & Scripting** — Headless mode, custom profiles, configuration import/export, performance result logging

CONNECTION & TRAFFIC BOUNDARIES

Parameter	Range / Options	Notes
Protocol	TCP and UDP over IPv4 and/or IPv6	Both protocols supported across test modes
I/O Directions	IN / OUT / BOTH / LOOPBACK	BOTH = full-duplex; direction is relative to each endpoint
Server Connections	150 per direction (300 total)	Per listening interface / server instance
Client Connections	Up to 600 (IPv4 + IPv6 BOTH)	150 per direction per address family; dual-stack capable
Transfer Size	Configurable (default 1 MiB)	Advanced tests cover 20 different transfer sizes
Sessions / Threads	User-selectable session count	Each connection uses a unique IP + UDP/TCP port pair
Addressing	IPv4, IPv6, or dual-stack	Server binds one interface per instance; client can multi-home
OSI Coverage	Up to layer 4	Network and transport layer focus

ARCHITECTURE & FUNCTIONAL FEATURES

- Separate Client (DMNC) and Server (DMNS) applications
- Windows GUI client and server; Linux command-line server
- Multi-node testing — one client can drive multiple servers
- Multiple server instances for simultaneous multi-NIC listen
- Error Checking checkbox for end-to-end data integrity
- Real-time Performance and IOPS graphs with history views
- Bus triggers and Windows event logging on faults
- License Import / Register / Unregister (Thales HASP or server)

PLATFORMS, TARGETS & LICENSING

Platform: Windows 32-bit & 64-bit (client + server) | Linux 64-bit (server only) | **Interfaces:** Standard Ethernet NICs and Converged Network Adapters (CNAs) | **Licensing:** Thales HASP USB key or license server | **Download:** www.storagewerks.net