

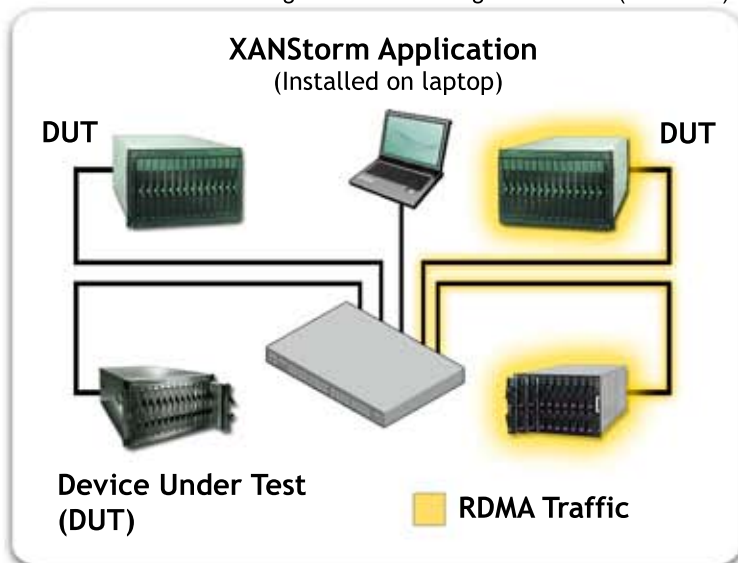
XANStorm

LNI's traffic generation tool for RDMA devices



XANStorm is an application that runs on Windows or Linux which allows the user to automatically discover RDMA devices on a subnet and generate traffic between them. The application gathers and displays performance results so the user can easily validate RDMA devices. XANStorm requires no additional hardware purchases.

XANStorm uses the existing RDMA devices to generate traffic (see below)



XANStorm Benefits

- ☐ Automatically discover RDMA devices on a subnet
- ☐ Allows user to create and run up to 128 RDMA streams
- ☐ Generate RDMA traffic between any devices in the cluster
- ☐ Create automated interoperability and regression scripts
- ☐ Enterprise capabilities for quickly creating complex test patterns including: full-mesh, star in, star out, and ring commands
- ☐ Traffic shaping capabilities
 - RDMA Sends, Reads and Writes
 - Sizes from 0 Bytes to 4 Megabytes
 - Frequency from 1 to 1 billion repetitions
 - Delay between operations is user defined
 - Operations can be run sequentially or in parallel

Discover Devices in the Cluster

XANStorm is able to discover all RDMA devices on a subnet and provide detailed information about each interface and its host. Information available includes: OFED version, host name, IP address, interface status, RDMA type, vendor name and driver version.

Interoperability

XANStorm utilizes the RDMA interfaces discovered in the cluster to generate traffic. This is ideal for interoperability testing and problem isolation because instead of simulating a cluster, or testing a piece of it, XANStorm actually tests the user's cluster in the exact configuration in which it is deployed.

Control Traffic Generation

XANStorm allows the user to control the generation of traffic on two or more RDMA devices. This control is essential to managing device interoperability testing, performance measurement and stress testing. XANStorm allows you to shape traffic based on RDMA type, size and frequency. XANStorm's unique ability to create complex patterns of RDMA operations ensures that your product is ready to meet the rigors of the HPC, SAN and Enterprise Community.

Measure and Report

XANStorm gathers information associated with each RDMA stream. This allows the tool to report the number and type of operations completed, transfer rate, operations per second, latency of each operation, number of errors and average size of operation. Results are available in text and graphical formats.



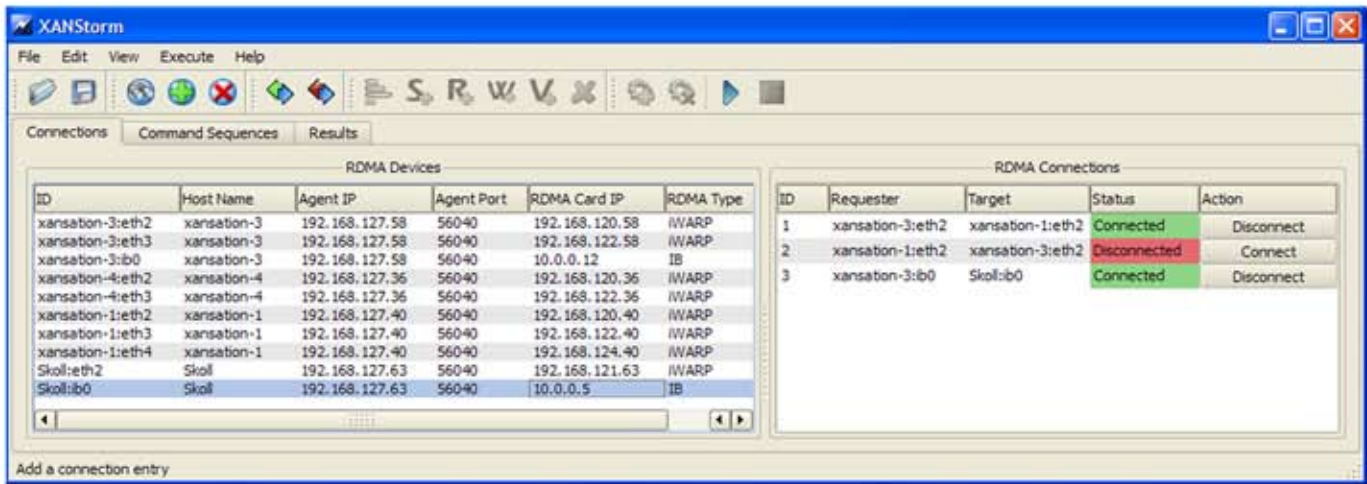


Diagram 1: XANStorm can automatically probe the network to discover RDMA agents

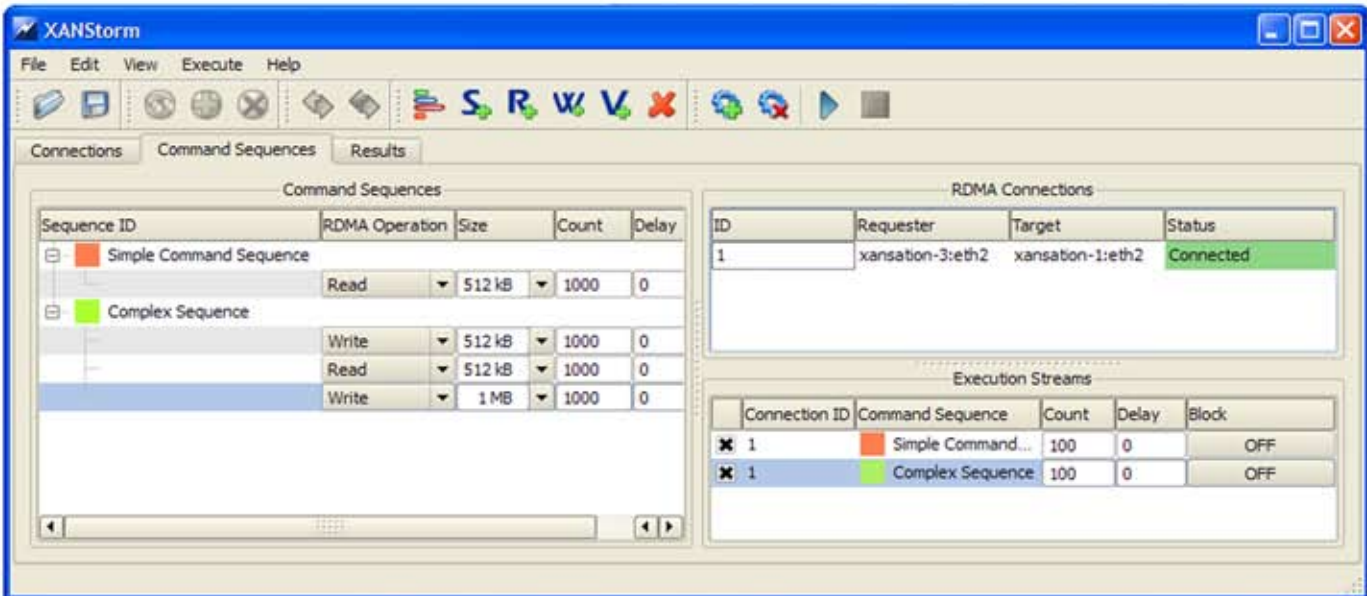


Diagram 2: The XANStorm application makes the set up of a wide variety of command sequences easy



Diagram 3: XANStorm results are viewable after each test is run

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