

# NAS Remote Network Diagnostic Tools

## Category: Network

A NAS network service that enables remote users to test end-to-end connectivity to the NAS HECC enclave is now available. Users can access the Network Diagnostic Tool service and initiate tests at: <http://npad.nas.nasa.gov>.

The diagnostic tests can only run on a Java-enabled web browser. If you have trouble accessing the website, please contact the NAS Control room (see below) and we will assist you.

## Features

- Tools are accessible from any standard web browser
- Command-line tools are also available for Linux servers
- Users receive a diagnostic report on the test results; a copy of the report is sent to the NAS Networks team for analysis. If any problems are identified, the team will contact you to help resolve the issue

The services available on this website run from inside the NAS network and are connected at 10 Gigabit Ethernet rates.

### The Network Diagnostic Tester (NDT)

Performs a quick test that reports the maximum throughput to your remote system from NAS. It will also identify any issues with possible bad cabling, negotiation issues, packet loss, or general network congestion.

### Network Path Application Diagnosis (NPAD) tool

Performs a more elaborate connection test and determines problems with TCP parameters, buffer sizes, and/or router congestion, and notifies you of recommended settings for maximum performance.

### Traceroute tool

Allows users to perform reverse traceroutes from NAS display the path and measure transit delays of packets to a remote host.

### Ping tool

Allows users to perform reverse pings from NAS to the remote host, to test the reachability to your host and measure round-trip time for messages to reach the remote host.

If you have any questions about these new services, please contact the NAS Control Room staff 24x7 at (800) 331-8737, (650) 604-4444, or [support@nas.nasa.gov](mailto:support@nas.nasa.gov).

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<http://www.nas.nasa.gov/hecc/support/kb/entry/281/?ajax=1>