

Automated Analysis of Datalink Transmissions (AADT)

Network Monitoring Tool for Integration and Testing Environments

AADT monitors message traffic and radio performance parameters by actively polling legacy and software-defined radio (SDR) endpoints for status and performance information. AADT analyzes data at each layer of the network to present a view of the network link status.

Using drill-down analysis, AADT provides further

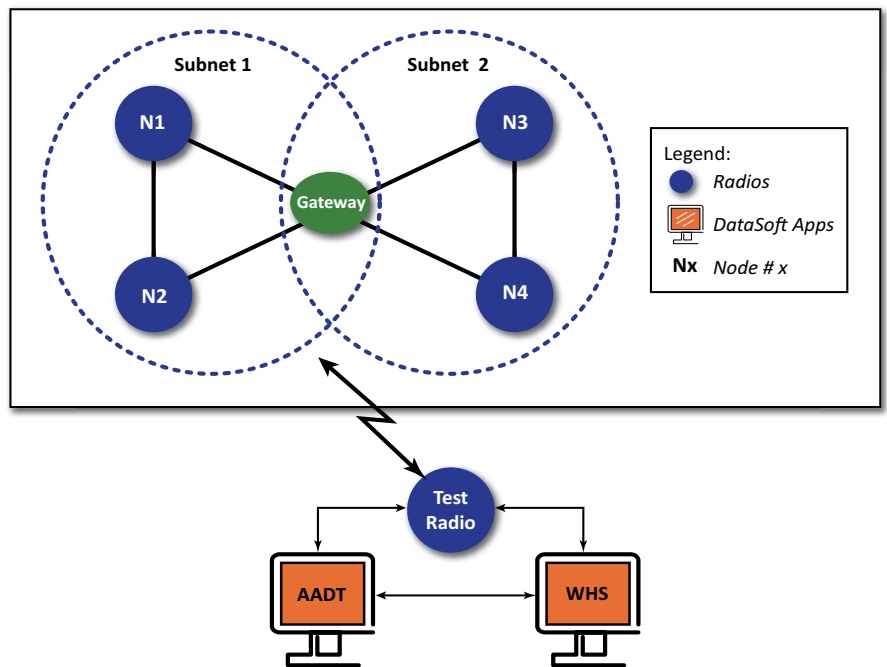
clarification and problem diagnosis at a very detailed performance level. AADT is used during the testing and evaluation phase to ensure proper JTRS radio functioning within a defined network.

AADT works in conjunction with DataSoft's WNW Host Simulator (WHS) software. WHS injects test messages into the network and AADT monitors the performance.

The diagram to the right demonstrates that AADT can be used to monitor the performance of radios on multiple subnets that share a common gateway. AADT is used for integration testing by network managers, analysts, and JICOs.

WHS injects various TADIL-J and ad hoc messages into the network under test. AADT monitors the performance of the radios and records network health at the node level. AADT analyzes routing and forwarding information by the network gateway.

The AADT graphical user interface provides detailed information at the node level. With WHS, DataSoft provides a robust SDR testing solution.

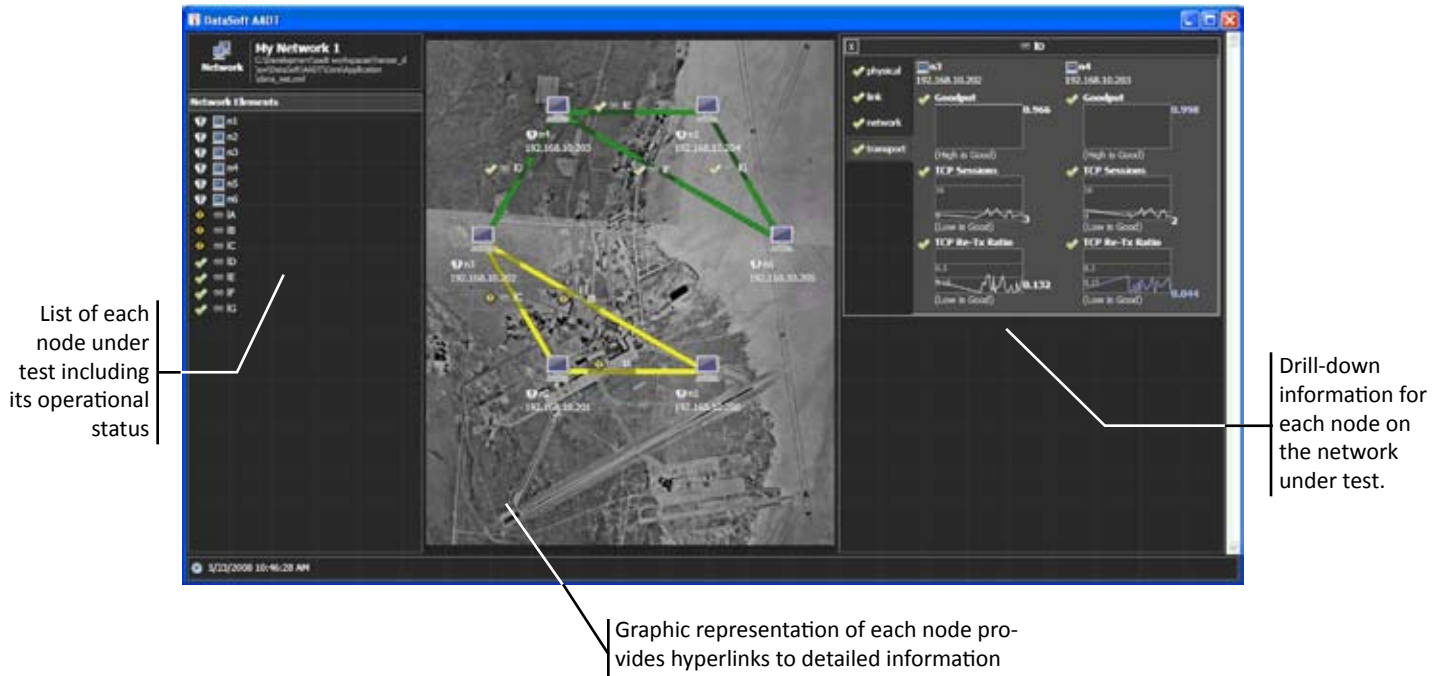


Highlights:

- Testing platform
- Graphic View
- Legacy Radios
- Complements WHS

In addition to monitoring SDRs, AADT verifies the platform and network level integration of legacy radios. As performance data is passed to AADT, the information is displayed on the network manager screen. Hyperlinked icons provide more detailed information on each node.

AA DT - Network Performance Testing



The AADT user interface is divided into three windows that can be managed individually. The left window provides list of the nodes being tested and their current status on the network. The right window provides additional detail on each of the nodes. The center window is a visual representation, superimposed on a geographic map, of the location of each node.

About DataSoft

DataSoft specializes in software and hardware research, design, and engineering of customized components, products, middleware, and protocols for communication systems based on software-defined radio technologies.

As the recipient of multiple Department of Defense research grants (SBIR), DataSoft is actively working on projects for the Joint Tactical Radio System (JTRS) that enable superior wireless communications capabilities. Expertise includes SCA, MANET, tunable RF components, network protocols, advanced network management, modeling and simulation.

Headquartered in Scottsdale, Arizona, DataSoft has a successful history of high technology innovation for multiple markets covering both defense and commercial applications.

For more information about DataSoft and what we can do for you, contact us at:

DataSoft Corporation
1475 N. Scottsdale Rd., Ste 460
Scottsdale, AZ 85257
1-800-797-7153
info@datasoft.com
www.datasoft.com

Features

- Real-time monitoring of JTRS networks
- Routing and forwarding analysis
- Monitors both IP and legacy networks
- Map-based situational analysis
- Applies to Wi-Fi and WiMax networks
- Microsoft® based software and user interface

Benefits

- Appropriate for testing products through the product life cycle of new wireless technology
- Can be used to monitor legacy technology
- Delivers ability to “replay” data to step through and evaluate sequences of events
- Intuitive user interface provides extensive drill down capabilities and keeps the windows neatly organized on the screen
- No special software is required on either the legacy radios or SDRs