



NetAlly® Application Advisor

VoIP Assessment Option

Determine network readiness for VoIP deployment or expansion

The deployment of a Voice over IP (VoIP) telephony system on a corporate IP network can lead to better telephone service at a fraction of the cost of a traditional PBX. Whether you are planning a new VoIP deployment or an expansion to an existing deployment, it is essential you have answers to the following:

- Are your LAN and WAN circuits capable of handling the increased traffic from the VoIP deployment?
- Do you need to implement Quality of Service (QoS) policies?
- What type of Mean Opinion Score (MOS) call quality can you expect?
- What is the major factor affecting voice call quality – delay, packet loss, jitter or Codec?
- How many concurrent VoIP calls can the network handle without impacting existing applications?

NetAlly Application Advisor VoIP Assessment is an essential part in the successful implementation of VoIP with a minimum investment of time and resources. Before reaping the benefits that VoIP has to offer, you must be certain that the network has sufficient bandwidth to deliver high-quality voice calls without adversely affecting your existing data services. You need to know in advance how many voice calls your current network can safely support. The VoIP Assessment Option enables you to answer these questions without the cost of pilot deployments or the risk and time demands of a trial-and-error approach. It allows you to quickly and easily perform a pre-deployment network assessment to determine if your network is ready for reliable VoIP, and how many concurrent calls the network will allow. The built-in troubleshooting features help you pinpoint where your network may need improvement before successfully deploying VoIP.



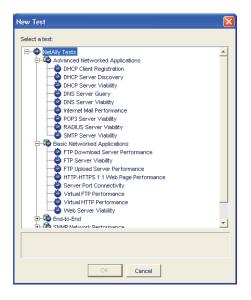
NetAlly Test Agents are controlled by the NetAlly Traffic Center and are intelligent, distributed software agents used to test the quality of voice (or data) services. The Traffic Agents simulate VoIP calls, monitor service levels and test route quality between any and all endpoints on the network according to a pre-defined schedule. Traffic Agents generate bidirectional RTP streams and emulate commonly used codec's in order to replicate the characteristics of real VoIP traffic on a production network. End-to-end call quality is measured using MOS scoring method and synthetic calls can be mixed with real data traffic during normal production hours to get a real world assessment of service quality or scheduled for off-hours operation when critical business applications are not in use.



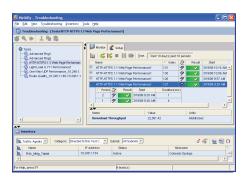
During the assessment phase, NetAlly Traffic Agents perform a series of traffic generation and troubleshooting operations to assess the readiness of your network for successful voice and data convergence. As the Traffic Agents increase the volume of synthetic calls they measure MOS quality and impairment factors (delay, loss and jitter)



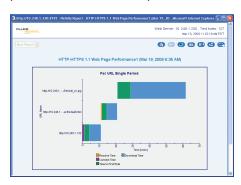
for each agent-pair participating in the assessment. Then NetAlly Application Advisor automatically performs an end-to-end route quality test whenever MOS degradation is detected. This process identifies problems with network connectivity, capacity or configuration before you roll out production services.



The deployment of NetAlly Traffic
Agents is very flexible and supports multiple
implementation scenarios. One method is to
use a standard PC operating as a dedicated
appliance. Typically installed at network aggregation points, Traffic Agents are capable
of performing extensive tests drawn selected
from a diagnostic library of predefined and
automated test procedures.



Depending on the configuration of NetAlly application modules running on the Test Center, the appropriate test groups will be installed and available for use by the system. Specific tests are associated with a collection of Traffic Agents and scheduled for execution using a simple point-and-click setup procedure. By running specialized tests with customized attributes, in addition to analyzing primary parameters such as delay, loss, throughput and jitter, peer-to-peer and client server applications such as HTTP, Mail and FTP may be analyzed. Troubleshooting tests can be configured with notifications or alerts that are dependent on the results of the test. The test results are displayed using an on-line graphical user interface or published in standardized reports.

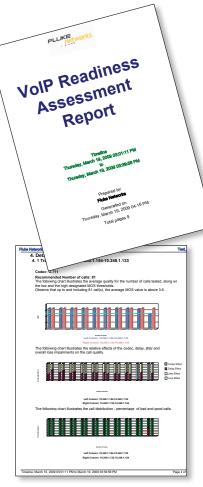


During the troubleshooting process, temporary Java-based NetRegard Agents can be downloaded and run on the web browser of any computer with access to the Test Center's Web server.

Product Details

The NetAlly VoIP Assessment Option requires purchase of the NetAlly Application Advisor Test Center, which is purchased as a package with the desired number of Traffic Agents. Consult the NetAlly Application Advisor Data Sheet for specific details regarding:

- System Architecture
- Technical Specifications
- System Requirements
- Models, Options, and Accessories



Test Point Pair: 10.248.1.154-10.248.1.133 Codec: G.711		
Name	Value	Unit
Base RTP Port	0	
Jitter Buffer	Do not use	
Quality of Service	DiffServ: 46	
Path Speed	100M	
Num of Measurements	1	
Frame Packing	20	msec
G711 Payload Type	PCMU 64000	
Use PLC	false	
Silence Suppression	false	
Min Num VoIP Calls	1	
Max Num VolP Calls	100	
Delta Num VotP Calls	10	
Num of VotP Calls	1	

N E T W O R K S U P E R V I S I O N

Fluke Networks

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