

ADIA INTEGRATED SERVER PACKAGE

Historical Data Analysis Software

- Powerful and Complete Return Path Spectrum Data Analysis and Reporting
- Identify Trends with Measurable Node Performance and History
- Manage Technical Operations Support with Clear Problem Node Identification, Reporting and Accountability
- Unmatched Flexibility and Ease of Use



The ADIA™ integrated server package is a pre-configured server, integrating powerful software applications and hardware to provide a tailored, comprehensive solution for managing return path spectrum data. In addition to Microsoft® Server and SQL Server, the server hardware comes preconfigured with ADIA server software.

ADIA is an ingress analysis server application, specifically designed for convenient and efficient historical analysis of upstream performance over periods as long as a year. ADIA collects summarized ingress data from Guardian System II™ installations in hubs and head-end, building a database that can be used for analysis of:

- Persistence and severity of ingress outbreaks over time
- Recurring and long-term intermittent ingress problems on selected nodes
- Suitability of frequencies and bands to carry services
- The statistical likelihood of disturbances in any portion of the measured spectrum

The ADIA analysis server provides all of the recommended tools, as specified in the NCTA Standard Practices¹, for evaluating a return path in terms of performance to limits and for tracking changes in performance over time. Using Trilithic's ADIA engineers can quickly determine, over specified intervals within selectable frequency ranges and bands:

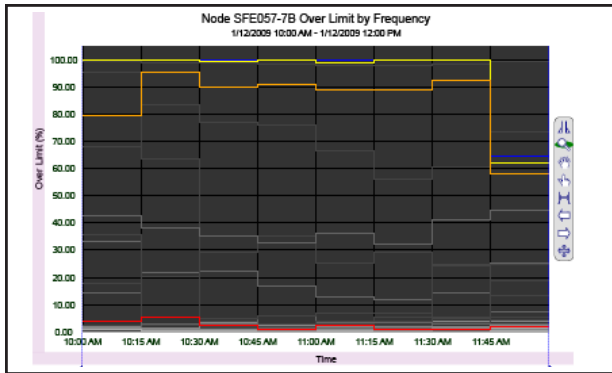
- **Live Spectrum**
Shows up to four curves at a time of the current activity on the node or nodes that you have selected.
- **Historical Spectrum**
Displays the maximum, minimum and average levels for all frequencies between 375 kHz and 65 MHz for release 4 and 4.125 MHz and 85 MHz for release 5.
- **Over Limit By Frequency**
Calculates the DISP as the percent of threshold violations for each of the four user thresholds for each time increment. In addition to specific frequency discrete ingress probability, this function allows analysis to be performed in user-selectable bandwidths.

- **Ingress Threshold Probability**
Plots percentage unavailability versus frequency and threshold for each frequency over a user specified time period.
- **Average Over Limit (ADISP)**
Calculates the average probability that a node will exceed its thresholds over a user-specified time interval. The ADISP is useful as a "figure of merit" test for a node's overall performance.

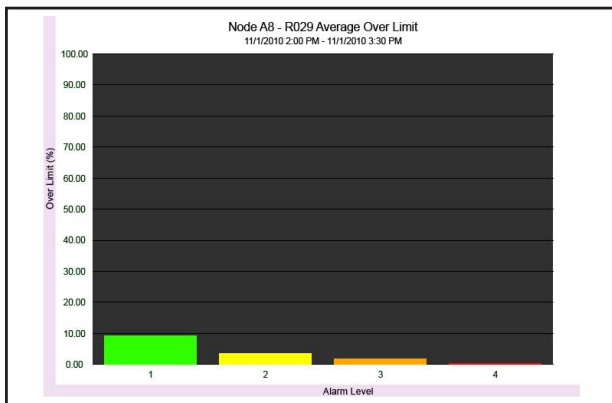
¹ NCTA recommended practices for cable television systems, supplement on upstream transport issues, 10/97

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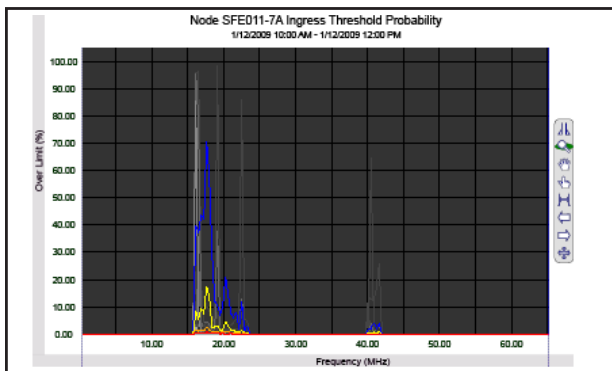
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Over Limit by Frequency analyzes all data points during a specified time interval and for a specified frequency range. It displays the percentage of time that some frequency experienced ingress activity above your specified thresholds.



Average Over Limit averages all data points during the specified interval and displays the percentage of time during that given interval that the four thresholds were broken.



Ingress Threshold Probability shows the percentage of time when a node crossed a threshold, by frequency.

INTEGRATED SOFTWARE SPECIFICATIONS

Microsoft Windows® Server	A comprehensive, integrated, and dependable server platform designed to reduce costs and increase the efficiency and effectiveness of computing operations.
Microsoft SQL® Server	More than a relational database management system; it is a complete database and analysis product that meets the scalability and reliability requirements of the most demanding enterprises.
ADIA Software	Integrating powerful software and hardware to provide tailored, comprehensive solution for managing return path spectrum data.

HARDWARE SPECIFICATIONS

Specialty-Configured Dell 2U Rack Mount Server

Storage	Supports one year of data for 3,000 nodes
Warranty	Next business day, parts and labor On-site response: 3 years (from Dell)

A second power supply is available from Dell to provide redundancy and extra reliability. A backup storage system is recommended for prevention of data loss.

ORDERING INFORMATION

ADIA Integrated Server Package

Part Number	2011093100
Includes the following optional accessories	Preconfigured server including ADIA history analysis 6 additional passwords