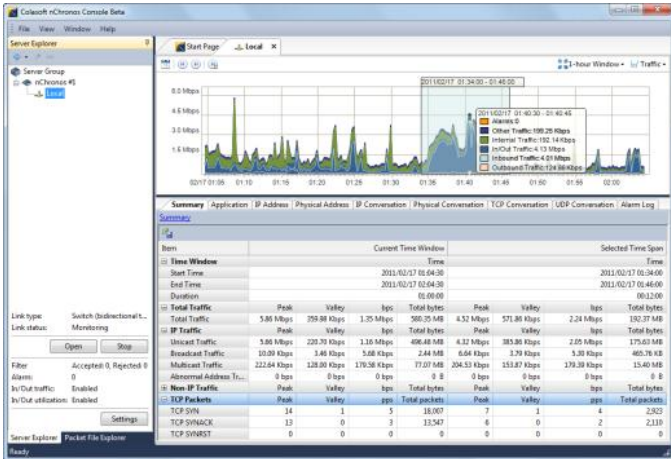# Colasoft nChronos™

Retrospective Network Analysis Software

Collecting vast amounts of network traffic over a long period of time, Colasoft nChronos allows IT professionals to view specific window of time to troubleshoot network problems, benchmark the network performance, and audit network user activities with forensics from the historical network traffic.

Colasoft nChronos consists of servers and consoles to achieve expediently remote data capture, decoding and analysis for efficient network troubleshooting, application and device performance evaluation and optimization.

Help IT Professionals to

Retrospectively analyze the historic network traffic

With the ability to continuously capture network traffic on critical links and to store traffic for weeks even months into RAID hard disks, nChronos enables network managers to *rewind* back to any past time period of the historical network traffic and analyze into the elapsed network issues, especially for those periodic and acyclic ones, to avoid performance bottlenecks, spot bandwidth trends, resolve historical network problems, and reduce costs in network management.

By recurring historical network traffic, nChronos helps IT professionals efficiently monitor, analyze, troubleshoot and evaluate the entire enterprise network.

Proactive network monitoring and cost-effective network management

nChronos offers advanced alerting function which enables the network administrators to create alarm rules to keep them informed when there is any network anomaly happened and triggered the alarm, and they will be informed by email and Syslog. This will significantly help IT professionals to resolve the problems at the very first time before escalated consequences happen.

Efficient drill-down for data-mining & index

Statistics has shown that bulk bandwidth applications are fast growing, and it's really a hinder to look into the traffic and troubleshoot as it's like the hard work of finding a needle in a haystack.

nChronos offers a powerful drill-down function which guides network engineers to quickly pinpoint network issues top-down for OSI 7 layers, efficiently trace and detect the roots of the network problems. User-defined filters can refine the interested traffic and filters out a large number of irrelevant data.

Provide forensics analysis and mitigate security risks

nChronos can identify and verify the network security issues and policy violations, and provide full evidence for breach of confidence, theft, hacking, and espionage security issues, providing enterprise network with preemptive protection from known and emerging security threats.

Remote access for distributed LAN/WAN network management

nChronos network analysis consists of nChronos server and nChronos console. nChronos server is physically connected to core switches for sustained traffic capturing, and nChronos Console provide quick access to all distributed deployed nChronos Servers where packets are stored, it serves as the center of the enterprise network management which is capable of visualizing the overall enterprise network activities, drilling down to isolate performance issues and troubleshooting high-priority and critical network issues.

nChronos Features

7x24 real-time network traffic capturing and recording

nChronos offers real-time capturing, analyzing, and storing sustained traffic at Gigabit line rates for all data flows and packets. nChronos also provides scalable extensive storage capacity varies from 1TB to unlimited storage to meet the customizable network requirements and assure the long-term traffic storage for critical links.

Retrospectively analyze historical traffic

nChronos can fast retrieve the traffic packets at any time period (real-time or retrospective), and simultaneously drill down for data-mining and full analysis. nChronos helps network users to quickly pinpoint, analyze, and resolve network and application problems, detect the attacks and threats, efficiently and in-depth analyze the network activities. By back-in-time network analysis, nChronos can efficiently solve the network interruption issues.
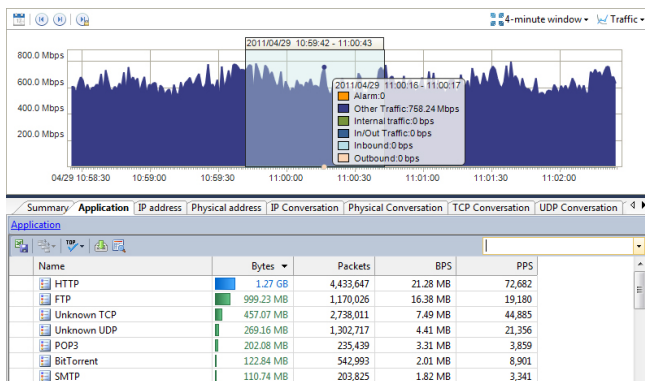

Benchmark and visualize trends of network performance

Based on the long-term network traffic capture and analysis data, nChronos visualizes the statistics in trend charts to help IT stuff establish baseline for the entire network, and get hold of the trend of the network operations in long-term running, identify and pinpoint network problems, acquire the evidence for decision-making on network policies, and reinforce the overall technical level for network management as well as the ability to solve network issues..

### Critical links monitoring & alerting

nChronos offers visualized entire network traffic monitoring . By

long-term traffic monitoring and visualizing network critical links behaviors and network traffic patterns, nChronos helps users to create a network baseline, setup online triggered alerts for network events for warning and preventing network outrages. With nChronos, there will be no critical events missed on your critical links.
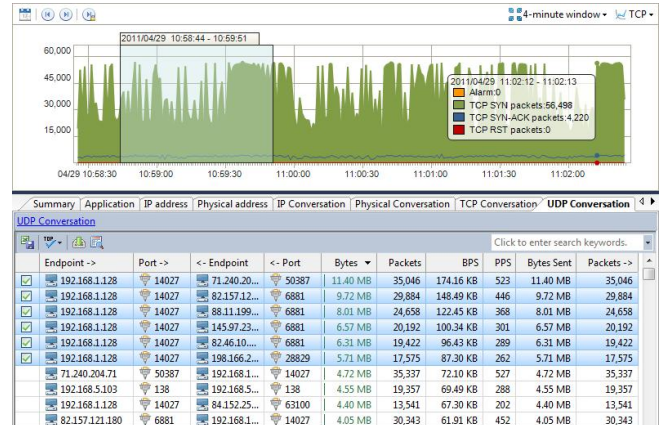
In-depth network analysis for performance optimization

nChronos offers powerful ability for application-oriented analysis. The various Analysis Profiles include High-performance Analysis, Full Analysis, HTTP Analysis, high-level FTP Analysis, Email Analysis, DNS Analysis, etc., helping IT professionals to conduct in-depth network analysis with less MRRT (Mean Time to Repair) and optimize the entire network performance so as to increase enterprise network productivity.
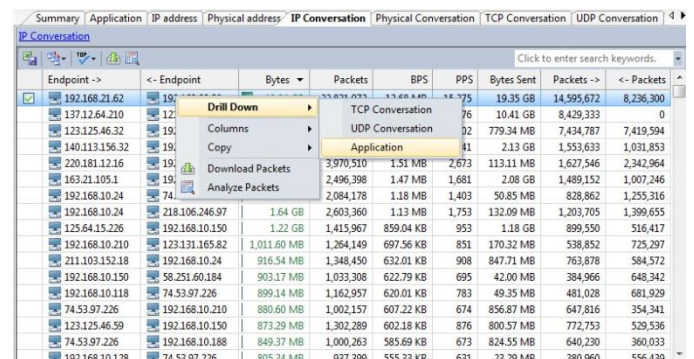
Efficient drill-down for data-mining & index

nChronos provides efficient data retrieving and drilling down over any time period for hours, days, or weeks with accurate time stamp. It offers complete access to application level traffic flows, network statistics and data links information across all seven OSI layers level. This powerful framework can greatly reduces the time of identifying root-cause and resolving the problem.

nChronos Editions

Edition	*Express*	*Standard*	*Premium*
Designed for	*Complete solution for SMB or individual professional to monitor and troubleshoot mission-critical internet performance.* *Capture and analysis for one interface.*	*Full featured solution for medium- sized and large-sized enterprises to monitor and analyze high speed (Gigabit) multi critical links for multi-sites and remote offices.* *Two simultaneous sessions for remote access to a server.*	*Expanded solution for ISP and large –sized enterprise for centralized and distributed monitoring and analysis over multiple sites and remote offices with high speed links.* *Multi sessions for remote access. No limit for the storage capacity and the number of management accounts.*
Maximum logical monitor link(s)	1	1	2
Capture interface(s)	1	2	4
Capture throughput per interface	100Mbps	1000Mbps	1000Mbps
Types of media supported	10/100/1000Base-T 1000Base-SX/LX/ZX	10/100/1000Base-T 1000Base-SX/LX/ZX	10/100/1000Base-T 1000Base-SX/LX/ZX
Storage capacity	Up to 2TB	Up to 16TB	Unlimited
Support TAP	✕	√	√
Server administration account(s)	1	4	Unlimited
Concurrent connection(s) to server	1	2	4

Technical Advantages

- Advanced and industry-leading data drill-down and analysis through hierarchies of time, host, application, conversation etc.

- Support Gigabit Ethernet and WAN, network segments from core to edge areas, and visualize the entire network.

- Help users to create network baseline and setup customizable & user-defined alerts.

- Retrospective analysis at packet-level for network and security forensics.

- Seamless integrate with Colasoft portable network analyzer, to finely analyze retrieved data for the second time.

- Support remote deployment and access to provide centralized solution for long-term monitoring and analyzing critical links over multiple sites and locations.

- Data encryptions and security policy setting to guarantee the security for network traffic storage, transfer and authentication.

nChronos Deployment
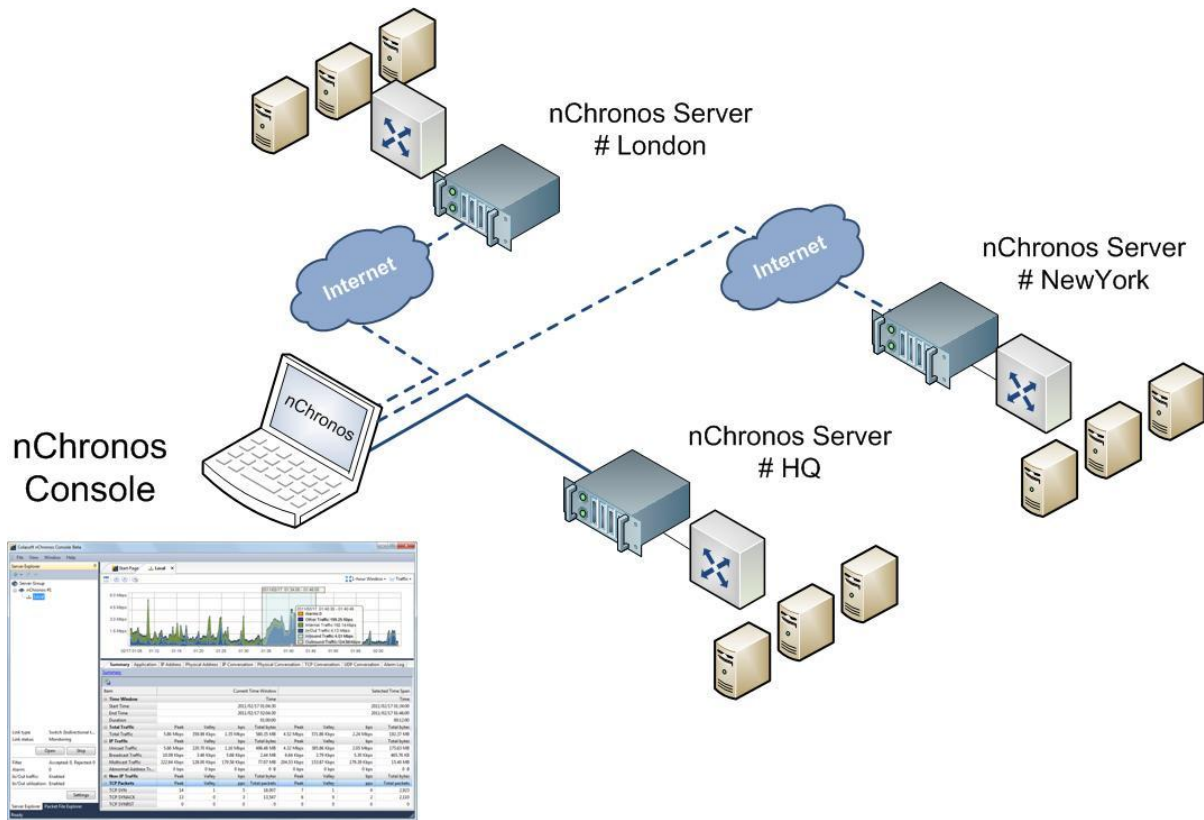
nChronos support varies network topologies to visualize all network segments from core to edge areas. nChronos can be installed at gateways, core switches, DMZ zone, critical application interfaces or critical links.

About Colasoft

Colasoft is the leading provider of innovative network analysis solutions. The flagship products nChronos and Capsa are offering real-time and retrospective network analysis solutions for high performance enterprise networks. Colasoft is a fast-growing company with more than half million users in over 80 countries. Many Fortune 100 companies trust Colasoft products as their network monitoring and troubleshooting solutions. Featured customers include Alcatel, Airbus, Dell, Ericsson, IBM, Intel, and etc. Our mission is to "Maximize Network Value" by providing innovative solutions to help IT professionals proactively monitor, analyze, troubleshoot and optimize the entire enterprise network performance. Learn more about Colasoft and its solutions at http://www.colasoft.com/.