



ClearSight Networks Newsletter

ClearSight External Newsletter
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What is SAS (Serial Attached SCSI)?

One of the important features of the rack mount versions of the ClearSight Network Time Machine is that it employs a very high end enterprise class RAID storage subsystem to store every single bit and byte that is processed by the Network Time Machine capture engine. This subsystem integrates SAS or serial attached SCSI drives that are rated for 7/24/365 operation at 100% duty cycle. Moreover, these drives are built for reliability with a specification of over one million hours MTBF (mean time before failure). In case you are wondering, that is over 100 years.

With the exception of Fibre Channel, SAS drive technology offers the highest performance and reliability of any storage standard in existence today. In addition, SAS is green; it consumes a great deal less power than similar class drives, and as such it generates less heat. This is not only good news for the environment but also for data centers looking to reduce their overall expenditures by spending less energy to run equipment and less energy to cool them.

And since SAS is a serial protocol, it is free of the scalability constraints that bind and hamper parallel bus technologies such as SCSI or PCI. With SAS, ClearSight's Network Time Machine is able to capture and keep up all network data acquired across all four Gigabit Ethernet channels. This is simply not possible with parallel SCSI technology, today or ever.

Want to learn more? Speak to a solution expert at ClearSight Networks. Call us at 510-824-6000.

Got a technology topic that you want to see covered in a future version of the newsletter? Email them to swong@clearsightnet.com and if we use your idea, you'll get a free USB wristband that you can fashionably use to store and carry up to 2 GB of data. You'll never again wonder where that USB drive dongle is.

No Cost, No Obligation Free Network Health Check Program

ClearSight's solutions are unique in the enterprise network environment, because they provide network managers and administrators with critical information about their network performance and reliability. This information is absolutely crucial for reducing the likelihood of network outages, staving off unexpected delays from unplanned downtimes, and maintaining a high quality of network performance.

Beginning in October 2008, ClearSight will introduce a "Network Health Check" program and a number of other professional service offerings to help enterprises maintain the highest levels of network performance and availability.

ClearSight "Network Health Check" program allows users to monitor the performance of their enterprise networks and make sure there are no outlying or hidden problems and/or conditions that could lead to a business impacting issue or outage. The program helps users determine how to deliver faster response times to their corporate users without investing in expensive new equipment. As part of the program, ClearSight will review your network topology, and collect statistics and information from your network. In about a week, we will issue you a comprehensive report on your network. There is NO obligation whatsoever on your part.

The program is offered at no cost for new customers; however, availability is limited. Interested? Call Angelo Bustos at 510-824-6010 or send him an email at abustos@clearsightnet.com

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Software Updates Through ClearSight New Website

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Webinar Video Download

Missed our "Streaming Media Troubleshooting with Network Recorders" Webinar?

[Download the Recording](#)

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ClearSight Networks Adds Atlas® Option to Its Industry-Leading Network Time Machine®

The ClearSight Network Time Machine (NTM) is designed to provide unprecedented levels of prevention and diagnosis on Ethernet based networks. The solution allows extended capture and store capabilities coupled with deep packet monitoring, inspection and analysis functionality. With the new Atlas module available in version 6.5, users now have a powerful, time-based, historical analysis product set to capture, index and archive all network traffic. The fully turn-key appliance offers multi-user capabilities, allowing for up to four simultaneous users to access a single NTM probe.

A key feature of Atlas and the NTM platform is the ability to capture, index, and classify complex network information. At the heart of the index and classification engine is a powerful RDMS (relational database management system) which crunches and makes sense of volumes (many terabytes worth) of network data in near real time.

This information is then used to create unique views that are critically valuable to assisting network engineers and administrators to proactively manage and service their networks. These views are shown in the Atlas workspace, and are easily accessible by a few mouse clicks.

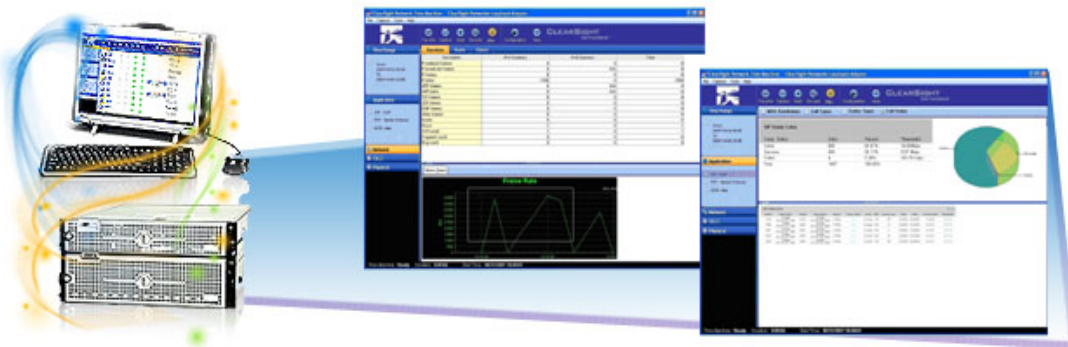
It is similar to the way in which one can use, say, a world atlas combined with a powerful almanac. First they see large area maps such as continents, then they can dive in to see detailed maps of much smaller areas such as states and cities, and then, they can look up relevant statistics such as population, climate, and economic data. Except in this case we are talking about an enterprise class Ethernet network.

The framework provides an extremely intuitive method of troubleshooting networks, and represents a revolutionary new way to manage and service them. Atlas is currently designed to support four main upper layer application types: HTTP, H.323, SIP, and RTP. Future revisions of the software will support additional applications and functionality.

NTM Atlas is shipping now. Read the press release announcement: http://www.clearsightnet.com/press_detail.php?InfoID=313

Download the datasheet at <http://www.clearsightnet.com/productInfo.php?ProductID=25>

Schedule a free, no obligation web demo at <http://www.clearsightnet.com/visitor.php>



How to Analyze SIP Calls with ClearSight Networks Analyzer and Network Time Machine White Paper

The Session Initiation Protocol (SIP) is a signaling protocol, widely used for setting up and tearing down multimedia, communication sessions such as voice and video calls over the Internet. Other applications include video conferencing, streaming multimedia distribution, instant messaging, presence information and online games. In order to have high quality voice or video calls, it is important to analyze SIP calls. However, due to the complexity of today's networks it's often difficult to pinpoint which SIP calls are bad over the Internet. With ClearSight Analyzer (CSA) or Network Time Machine (NTM), this challenge is overcome by these tools' ability to monitor, capture application screen and generate reports to analyze SIP calls.

Want to download and read the complete white paper? Send an email to abustos@clearsightnet.com.

ClearSight Networks Introduces ClearSight Apex(TM)

So you are aware of issues on your network, and you've utilized a network analyzer to pinpoint the exact location of the problem – now what? One option is to seek out competent, expensive, expert consultation. Unfortunately, this requires time to book the resource, and time for the expert to evaluate the analysis results, the context, and perhaps even the raw data. Days, even weeks can go by before you have a solution to your problem enacted. And let's not even consider the cost of this expertise and the cost to your business while this work is being performed.

A preferred option would be to have a group of consultant-experts monitoring your system 24/7, at-the-ready to provide direction and realize a solution in a timelier manner - a wonderful notion, but who has the kind of funding to provide for round-the-clock, prohibitively expensive availability? And this scenario begs the question: will that small group of consultant-experts have the experience and knowledge base to handle all cases, or will yet more research need be invested upon the notification of a network problem?

A best-case scenario would involve less expense, 24-hour monitoring, utilized in concert with a fully-coherent and up-to-date knowledge base as the foundation for arriving at the proper solution in a timely manner. Sound far fetched? Not at all!

ClearSight Networks has released ClearSight Apex application, a standalone module that works with the ClearSight Analyzer (CSA). In this configuration, it is even possible to make use of trace files produced by other analyzers and have CSA and Apex interpret the data. Apex:

- Simulates real human network experts to make decisions
- Contains a fully comprehensive Knowledge Base – derived out of millions of hours of effort on the part of network experts world-wide
- Provides solutions rather than just locating problems
- More intelligent because it uses the context provided by your own network traffic, infrastructure and associated conditions – decision-making based on all the known network variables within your spec
- Helps to solve problems even while its counterpart ClearSight Analyzer detects them - in real time - so you not only have a problem identified, you have its respective, relevant solution provided, concurrently
- You are able to sift through confusing details and analyze multiple problems simultaneously - separated out, identified, categorized, resolved.

The product has been shipping since August 14, 2008. Read our press release announcement: http://www.clearsightnet.com/press_detail.php?infoID=345. A free full featured trial version of Apex is also available for download at our website: <http://www.clearsightnet.com/resources.php>

Download the Apex datasheet at <http://www.clearsightnet.com/upload/files/ApexExpert.pdf>

Schedule a free, no obligation web demo of Apex at <http://www.clearsightnet.com/visitor.php>



Why Project Management?

There are many reasons to employ Project Management methodology – not the least of which is the increase in efficiency, with the decrease of risk. This is extremely important to a consumer of the results of any given project. Increased efficiency translates directly into cost savings, and perhaps more importantly, into increased quality – quality that will serve as a provider of continuous residual cost savings with the usage of the product over time.

At ClearSight Networks, we have endeavored to use Project Management in its highest form: incorporating the latest, cutting edge techniques and tools provided by authorities in the field: PMI and Six Sigma. ClearSight has developed a system of integrated methodologies, called CSTM, which not only allows for higher performance and quality of a single product, but also integrates Process Improvement and advanced Risk Management within our Project methodology itself, thus mitigating risk and cost at every level. Further, we have concentrated the guidance of our Project Management within a single Project Management Organization (PMO).

As customers of our high quality, award-winning ClearSight products, you are not just receiving the physical manifestation of our efforts, but also our dedication toward constant improvement – our aim is to provide you with solutions served up with the latest technologies at the maximum value. Want to learn more? Contact us at support@clearsightnet.com.

Streaming Media Troubleshooting with Network Recorders Webinar

Thanks to all those network professionals who signed up and tuned into our most recent ClearSight webinar. Angelo Bustos, Application Manager for ClearSight Networks delivered an informative and compelling technical presentation on the streaming media technology and how to troubleshoot issues that may arise from networks that carry such data. We would like to also congratulate Michael Johnson who won the Ipod nano give away at the webinar. Michael is an IT administrator.

If you missed it, or would like to hear and see it again, the webinar is available at: <http://www.clearsightnet.com/upload/files/StreamingWebinar.swf>.

We are working to produce another webinar which will take place in October. Visit our website before the end of the month to sign up and take part in this event. Or you can get your name onto our mailing list and be informed as soon as the webinar is scheduled.

News Flash

This section is aimed at keeping you informed with the most recent ClearSight news and articles.

ClearSight Launches Upgraded Network Time Machine

(TMCnet - July 30, 2008). ClearSight Networks said today that it's expanded the capabilities of its "Network Time Machine". ClearSight also said that its newly released 6.5 version is upgraded with the addition of "Atlas", a time-based, historical analysis tool to capture, index, and archive all network traffic, and store it in a large RAID-based storage system. Read the full article at <http://news.tmcnet.com/news/2008/07/30/3575127.htm>

ClearSight 'Simulates' Human Telecom Network Experts

(TelecomWeb - August 15, 2008). ClearSight Networks says its new software package "simulates real human network experts" to help telecom operators understand problems and error conditions on their networks. Read the full article at <http://www.telecomweb.com/tnd/261246.html>

Healthy VoIP Nets-Part XXXIX - Network Management Architectures: ClearSight Networks

(VoIP Planet - August 19, 2008). ClearSight Networks, Inc., headquartered in Fremont, Calif., is a provider of network monitoring and analysis tools for real-time application troubleshooting. Read the full article at <http://www.voipplanet.com/backgrounders/article.php/3766231>

Ready for VoIP: Network Management Architectures: ClearSight Networks

(Enterprise Networking Planet - September 4, 2008). ClearSight Networks, Inc., headquartered in Fremont, Calif., is a provider of network monitoring and analysis tools for real-time application troubleshooting. Read the full article at <http://www.enterprisenetworkingplanet.com/netsp/article.php/3769661>

How We Tested Avaya's Unified Communications Gear

(Network World - September 8, 2008). Testing was conducted on unified communications components configured to provide UC for a network topology consisting of a main office and three branch office locations. The four-site deployment was specified to support up to 2,500 aggregate users with 2,000 of these users equipped with full voice messaging and unified communications capability. We included full redundancy for server components at the main office and three branch office locations. Read the full article at <http://www.networkworld.com/reviews/2008/090808-avaya-unified-communications-how.html>

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