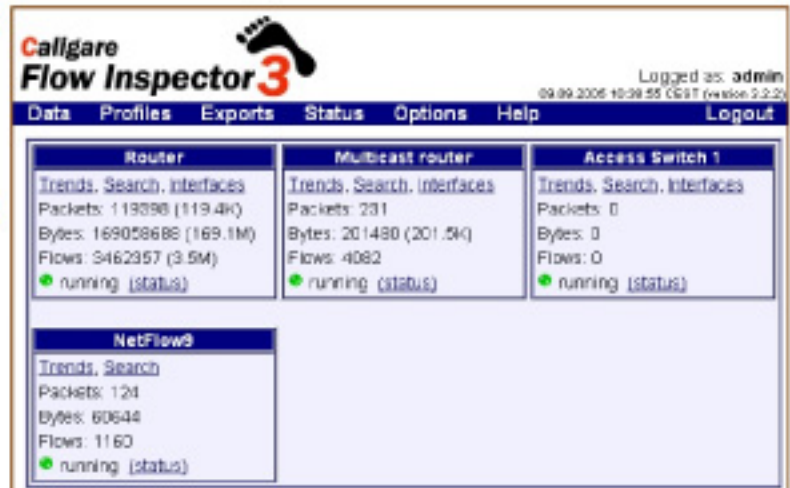**Caligare**

Flow Inspector 3

NetFlow Monitoring

What are your needs ?
What are challenges of the IT administrator or
IT manager of corporate environment?
How to achieve your (IT person) and
company's goals?

Caligare Solution

Caligare Flow Inspector (CFI) is a high-performance,
Linux Based network management and monitoring
solution for large-scale networks. CFI provides
realtime traffic monitoring, smart flow filtration,
aggregation and statistical evaluation. It is capable
of providing multi-criterial data flow selection using
IP addresses, protocols, ports etc., including heuristic
methods for protocols using dynamic ports.

CFI software was engineered to create a secure
network monitoring platform based on industry
standards that will fit corporate existing
security policies. CFI was created for companies
that need to plan, build, maintain and manage
their network and at the same time keep their
network more secure, efficient and reliable.
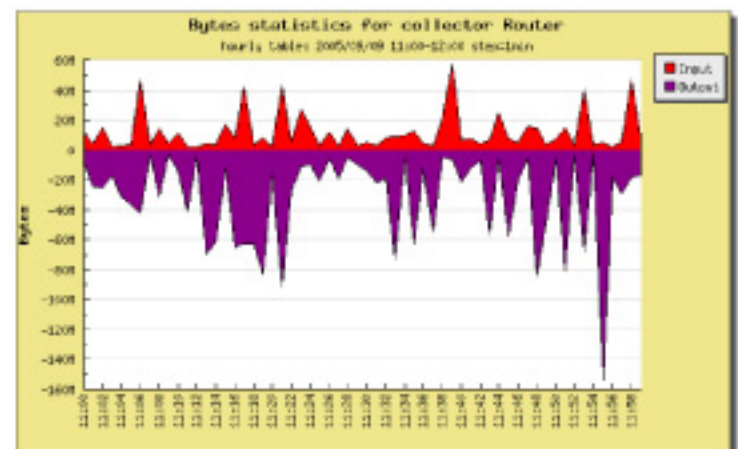
The Benefits

- Having the ability to determine the true health of
  your network on a daily basis is a key component
  of your IT strategy and CFI gives you this wide
  visibility.
- Observe and monitor the content of your corporate
  network.
- Realize which applications are being used and by
  who.
- Show network traffic and various statistics.
- Find bottlenecks in the network lines.
- Ensure stability and efficiency of the system.
- Diagnose network problems such as security attacks
  and routing troubles.
- Eliminate problems with network applications.
- Scan various network protocols.
- Diagnose issues that degrade system performance,
  leading to quick resolution of issues without adding
  unnecessary infrastructure or bandwidth.
- Having the ability to access historical data, seeing
  patterns and trends, allows our staff to be more
  proactive in planning for the future.
- Having detailed information on where, by who and
  how specific applications are being used and how
  that usage affects the network.
- Using NetFlow data that is already present on
  company's routers and making real business
  decisions based on this information from a full
  enterprise perspective.

The ability to monitor in real-time
significantly reduces the time it takes to
identify and troubleshoot, thus keeping
operations running smoothly and reducing
costly downtime.

Caligare offers software products and services
especially to large and mid-size companies
(organizations with large network systems)
to help them deal with suspicious network
activities (e.g. security attacks, routing
troubles etc.), to keep track of, plan and
diagnose network problems.

| Feature	Function	Benefit
Quick Installation	Auto-install from CD or download and burn CD-ISO image.	Quick and easy install with no technical knowledge required.
Web Interface	Familiarly, comfortable and wide accessible user interface. Easy access to configure collectors and all parameters.	Your customers can access statistics from anywhere at that moment.
36 Trend Statistics	View historical or actual reports with many types of data traffic filtering. Possibility to find top talkers, conversations, interfaces, detected applications, protocols, autonomous systems etc.	View reports on what makes up the bandwidth usage, find and troubleshoot network problems. Quickly see what is happened in your network.
Low-level Search	Customizable search queries with maximum detail displaying.	Administrator can use it for network problem localization (e.g. worm infected stations or attack sources)
Interface Statistics	Input and output interfaces utilization with ability to filter traffic.	Quickly view the interface utilization. It can be used for finding bottlenecks in your network.
Utilization Maps	Anonymously accessible images with objects. Each object is computed in 5 minute utilizations.	You can include traffic graphs into your corporate web pages.
Application Recognizer	Software includes heuristic methods for recognizing applications.	Possibility to specify own applications. Built-in peer-to-peer application rules - Direct Connect, Gnutella, E-Donkey etc.
Group Rights and View Restrictions	Configure access rights, IP range or interface restrictions for any user group.	Set group role (e.g. administrator, guest, collector maintainer etc) and view restriction for your customers.
IP Address Detail	Get full detail about hostname.	Find country, autonomous system, host status etc.
Autonomous System Detail	Query whois server to get all details about Autonomous System.	Useful for service providers to find contact information of other ASes.
Storage data format	Store only useful NetFlow fields. More accounting fields requires more disc space.	Possibility to specify which fields are interesting, reduction disc space and increasing search speed
Query results export	Send results to CSV file or send it to email address.	CSV file can be opened in the external software (e.g. Excel).
Table export	Any data table can be exported, backed up and imported anytime.	You can export old tables to external mass storage devices.
Networks	Configure monitoring groups based on a specific IP address, range or network.	Quick specification of searching criteria.
Profiles	Save trends or search conditions into user or global profile.	Search queries can be quickly and simply reused.
NetFlow Forwarding	Redirect NetFlow data stream to another collector(s).	Useful for external data analysis.
Configuration Generator	Create NetFlow Configuration for Cisco IOS/CatOS devices.	Easy cut-and-paste configuration into your device to activate NetFlow export.
Anonymous login	Enable anonymous access with configurable restrictions.	Guest access without password.
LDAP authentication	LDAP server is used for authentication.	Uniform access method in the corporate environment.
Skins	Customizable software face.	Administrator can define own skins.
Multilanguage	Set language closest to the user.	Software can be translated into any language.
Graph types	Accumulated or non-accumulated bar, line or spider graphs.	Possibility to use suitable graphs.
Graph resolution	Each user can set graph resolution.	Fit user needs.
Distribution	A fully distributed system; only limited by platform size.	Each component of the software can be installed on the separate server.

Hardware requirements

Minimum specification:
- 256 MB RAM (optimal 1024MB)
- 20 GB free hard disc space for database
- 100 MB free hard disc space program files
- Pentium III, 1 GHz or greater
- Cisco router or any other that support NDE

These specifications will increase based on number of devices monitored. The highest computing performance is put on the database system. Computing requirements for the other CFI components are lower than for the database system.

Manufacturer devices supporting CFI software are: Cisco Systems, Juniper, Extreme Networks and 3COM. CFI supporting devices series (Cisco routers and/or switches): 1400, 1600, 1700, 2500/2600, 3600, 4500/4700, AS5300/5800, 7200/7500, Catalyst 4500, Catalyst 5000/6500/7600, ESR 10000, GSR 12000. Please, ask your hardware supplier if your devices support NetFlow export.

Software requirements

- Linux
- MySQL database
- PHP
- Apache
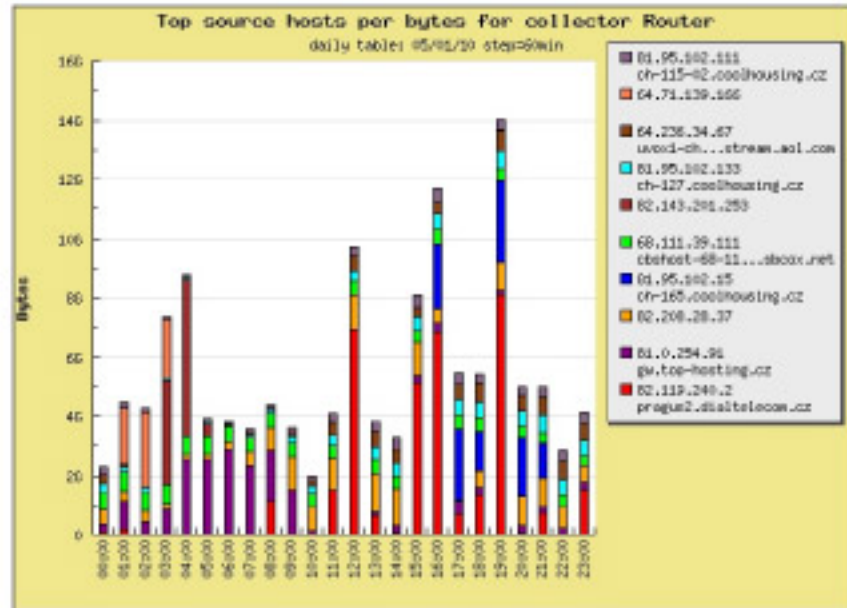
CFI works under the all distribution of Linux (Debian, RedHat, Suse, Slackware, etc.), but preferred is Debian distribution. The Linux environment under which CFI software runs is considerable more stable and efficient, increasing the performance of the software. Not enough Linux experienced customers can use also our self-installing software CD ISO version. Please check our website for more details. NetFlow export versions 1,5,6,7 and 9 are supported.

For more information about Caligare and our products, please email:
caligare@caligare.com
or visit web pages:
http://www.caligare.com

CISCO® Compatible

Caligare Flow Inspector has been tested in accordance with interoperability criteria set by Cisco Systems, Inc. and is compatible with the Cisco IOS Software - NetFlow.