



IsarFlow

The reporting tool for NetFlow

- ... *What causes high network utilization?*
- ... *Which applications are consuming existing bandwidth?*
- ... *Which protocols are in use?*
- ... *How are they distributed – either throughout the network or in selected parts?*
- ... *How does the network load peak and trough over time?*
- ... *How is the network load distributed among individual business units?*

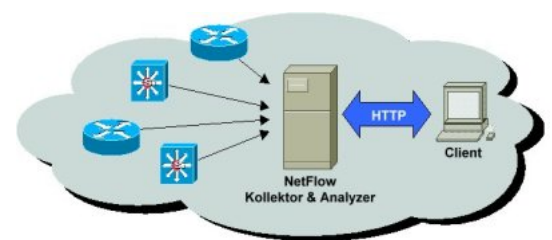
To answer these questions you need IsarFlow which uses the raw information collected and available from implementing NetFlow accounting in your Cisco network components.

With the configuration flexibility available with IsarFlow you can use a wide variety of aggregation schemes to consolidate raw NetFlow data to accomplish virtually any analysis of your network loading and utilisation that you can think of.

Ease of integration

Fast integration of IsarFlow into your existing network requires just a few simple steps:

- ... *analysis of NetFlow data requires no physical network changes*
- ... *router and layer-3 switches are placed in a pool of monitored devices*
- ... *devices can be added or removed from the pool easily at any time*
- ... *all necessary adjustments or changes can be handled online centrally*





Analysis Overview

Analysis of traffic flows can be based on

- ... *all network elements*
- ... *groups of routers/interfaces*
- ... *single devices/interfaces*

IsarFlow then aggregates and holds two levels of data.

Detail data which is sampled at 5 minute intervals and gives a very granular resolution of individual network traffic flows. This data is accumulated and stored for several weeks, using a sliding window algorithm.

Trend data which is aggregated from the detail data at 24 hour intervals. Thus, trend data reflects a global overview of traffic flows that can be stored for several years.

Protocol Analysis

Protocol analysis gives a comprehensive overview of the traffic individual protocols are generating within the corporate network. This is a valuable aid in planning, designing and implementing features such as quality of service (QoS) or traffic engineering (TE).

The analysis can be presented in a variety of ways:

- ... *for variable intervals*
- ... *for specific selections of NetFlow devices*
- ... *against specific thresholds (e.g. traffic > 5MB within the interval)*

If individual NetFlow export devices correlate to individual customers or organizational units protocol analysis can be directly mapped.

Intraday Analysis

With the intraday query it is possible to produce reports by time of day.

The following options are available:

- ... *display individual or multiple protocols*
- ... *display individual or all NetFlow export devices*
- ... *scale the displayed interval resolution to 5, 15 or 30 minutes*
- ... *display traffic volume as Kilo-, Mega- or Giga- bytes or packets*



Example of a typical intraday analysis

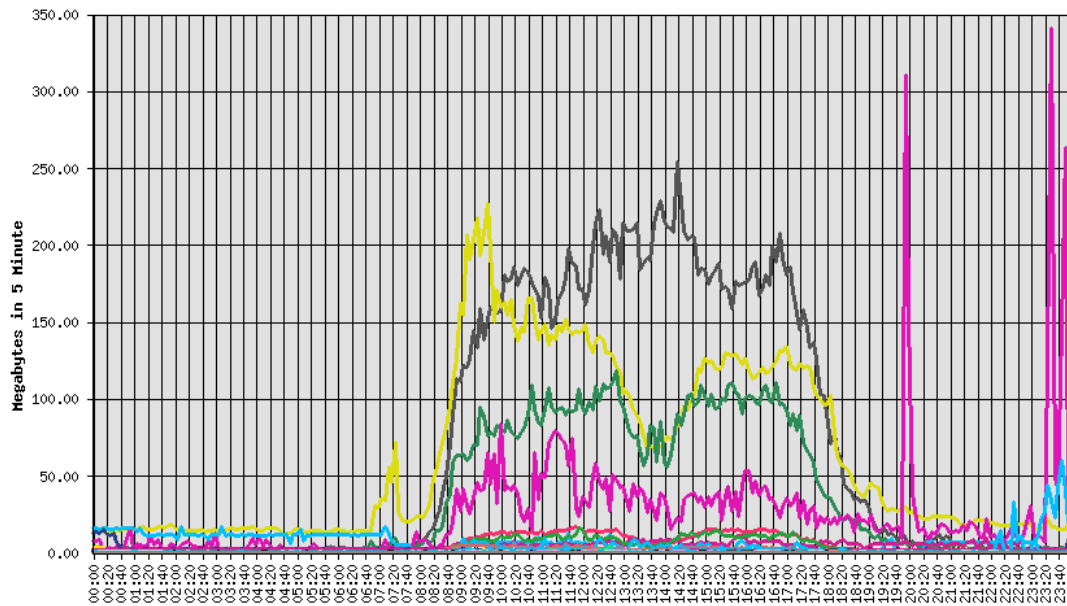
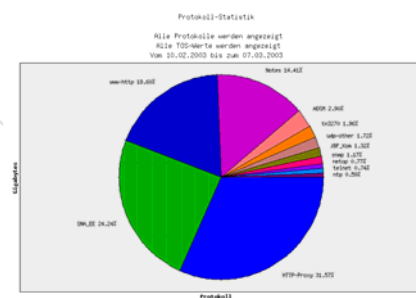
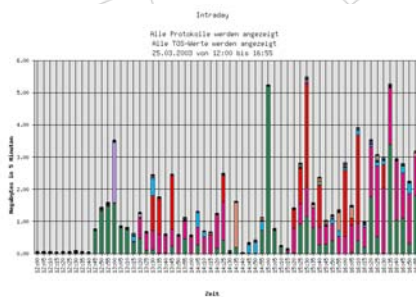
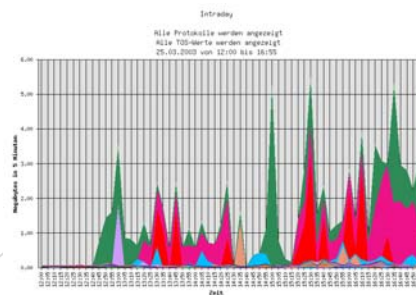
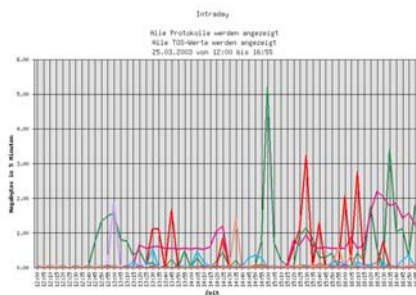


Chart Types



Graphical displays can be adjusted individually to absolute data volumes, data volume per time interval or percentages of maximum bandwidth.

IsarFlow supports line, mountain, stacked bar and pie charts.



Top Sessions

Top sessions can be calculated for individual interfaces or the whole network for any specified time interval. Thus, on top of the graphical protocol analysis this is an additional tool to detect relevant traffic flows in the network.

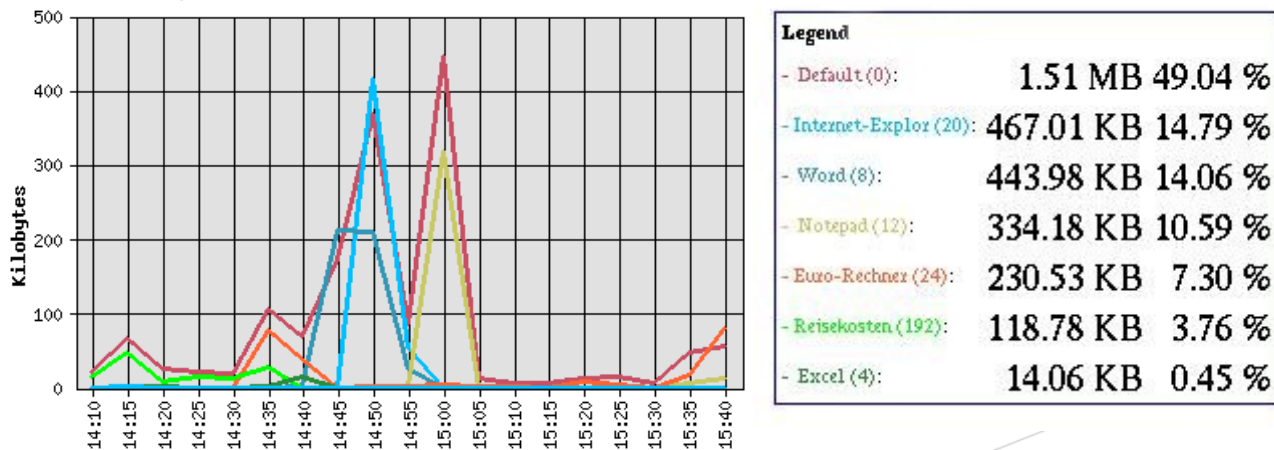
QoS Analysis

Within the QoS analysis, traffic can be classified corresponding to individual QoS classes or TOS-Byte values. The output can be filtered for different areas of the network.

Citrix Analysis

When Citrix is implemented in your network, all applications are carried within a single session. This creates a problem in identifying how the various applications are contributing to the traffic load.

Through intelligent use of NBAR features (network based application recognition) and policy maps IsarFlow accurately distinguishes specific applications within Citrix sessions and presents the results in both graphical and tabular forms.



Location Analysis

For efficient development and planning of networks it is important to know how total traffic is distributed among individual devices (routers, L3 switches). Planning high availability solutions or proactively determining network bottlenecks depends on understanding load distribution. With



load analysis you can determine the total load of networking components which combined with trend analysis helps you predict load development over time.

Additionally, load analysis can be utilized for cause-based billing.

Trend Analysis

When it comes to network design and development, the following questions consistently arise:

- ... *How has total network traffic evolved?*
- ... *How has a single application evolved?*
- ... *How has network traffic evolved at individual locations or devices?*

Trend analysis enables you to review how traffic loads have changed over time and allows you to draw conclusions about future needs from the long term traffic load data store.

Accounting

IsarFlow enables collection of flow data based on IP addresses or address ranges. Thus, cause based billing can be easily deployed in your network. Billing data is stored in CSV-format, for simple integration into billing systems.

Administration

Report configuration - allows customised reports to be easily developed and stored to allow fast reporting on incoming data. You simply choose the type of display, its corresponding options and the reporting intervals from a tabular set of options requiring no programming skill. The resulting reports can then either be stored in a central directory or sent via an email distribution list. Reports can be deactivated temporarily when they are not needed.

Reports overview - provides a summary of all customized reports sorted by active and inactive reports.

Administration Views - are created from simple table selections and provide options to further filter the individual modes of analysis. If no view filtering is used the analysis is applied to the total content of the database. With customized views you can monitor individual parts of the network - interfaces, routers or groups of these - separately.



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