



NetSoft Inc.

AstroFlow Bandwidth Manager

Technical Specifications



Revision

1.100

Date

2003/01/14



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Overview

AstroFlow is a Linux-based bandwidth management solution. It is standalone software that requires dedicated hardware in order to function.

AstroFlow incorporates it's own custom Operating System that has been specifically customised to accommodate the various requirements of bandwidth management.

Technologies

- | | |
|-------------------------------------|--|
| 1. Operating System: | Custom Linux Distribution |
| 2. Interface: | Web-Based Interface |
| 3. Interface programming language: | html / php |
| 4. Web Server: | Apache / php 4.2.2 |
| 5. Database Server: | MySQL 3.23 |
| 6. Bandwidth Management Technology: | Hierarchical Token Bucket Filtering |
| 7. Software Updates: | Online Auto-Update via Netsoft Update server |

Recommended System Requirements

Celeron / PIII 500 or better
128MB or more RAM
5Gig or better HDD
2 Network Cards, the following are supported
Realtek 8139 A, B or C
Intel Ether Express 100
3Com 3C905X

Licensing

AstroFlow is licensed on a "per server" basis.

Licences are issued with respect to the amount of bandwidth to be managed with the following options available:

1. 1 Megabit
2. 2 Megabit
3. 5 Megabit
4. 10 Megabit
5. > 10 Megabit



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Known Issues

1. Problems installing on certain Intel Pentium 4 systems
2. Cannot install on SCSI Hard Drives
3. It is imperative to install AstroFlow on a system with 2 Network Adapters

Change Log

V1.000 – 2002/11/16

1. Initial Release

V1.001 – 2002/12/05

1. Fixed logout errors
2. Custom Report Validation improved
3. Changed Demo Restrictions:
Changed auto config restriction to 5 ports
Changed disable shaping time from 1 hour to 6 hours
Changed default graph to daily
4. Added Access Restrictions:
Changed Menu according to user level
Restricted "Monitor" users to viewing only
5. Made Changes for Pass-Thru Class:
Changed class list to display pass through when applicable
Changed bandwidth rule execution for pass thru class
Changed bandwidth filters to flag pass-thru filters

V1.002 – 2002/12/10

1. Fixed stats reporting error

V1.003 – 2002/12/13

1. Changed Demo to 10 Meg Limit
2. Fixed bug in enable / disable auto config status
3. Added 5Mbit Registration Option
4. Fixed JavaScript bug in bandwidth overview
5. Changed character limit of 3 in class add/edit burst rate to limit of 5
6. Fixed (Apply Changes) bug when deleting a class



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Future Releases

V1.100 – Due for release 2003/01/17

New Features:

1. Time-Based limiting
Classes can now be created as “time-based” classes. This then allows management of classes on a time period basis (E.G. A class can be limited to 64K from 07:00 – 19:00 and then limited to 128K from 19:00 – 07:00)
2. Block Classes
Block classes can now be created. A block class will effectively block any traffic to / from the specified host and/or the specified port/protocol.
3. IP limiting per login
Logins can now be assigned a specific IP address – only these IP’s / ranges can access the AstroFlow Interface.
4. Fail over Functionality
AstroFlow servers can be installed in parallel with specific fail over id’s assigned, if the primary server stops responding, the secondary server will transparently manage the network traffic.
5. System Info
Current hardware configuration along with current CPU load and load averages can be viewed via System Information.