The Jalasoft Smart Management Packs for F5 Big IP deliver enterprise ready monitoring of your network environment. You can monitor your network proactively and be aware of any potential problems that might occur, verify the status of your interfaces and ports, CPU load, traffic and much more.

All information is forwarded efficiently to Microsoft System Center Operations Manager which creates a one stop interface to see the status of your servers and network infrastructure.

Alerts and performance data are **visible in Ops Mgr** and will help you take action and prevent any downtime.

A large number of **predefined rules** are provided with the Jalasoft Smart Management Pack for F5 Big IP. Installation is quick and simple and starting to monitor your network is just a matter of dragging and dropping the rules on the specific devices.

This is made possible through the use of Xian Network Manager, the platform that runs the Smart Management Pack; no complicated programming or scripting is needed. You can also configure **syslog filters** to forward syslog alerts to Ops Mgr and monitor single interfaces as an object, simplifying the monitoring of devices with **distributed applications**.

To analyze the behavior of the network device for a longer period of time, the F5 Big IP Smart Management Pack has a set of **reports** that can be executed from the Ops Mgr Reporting Console.

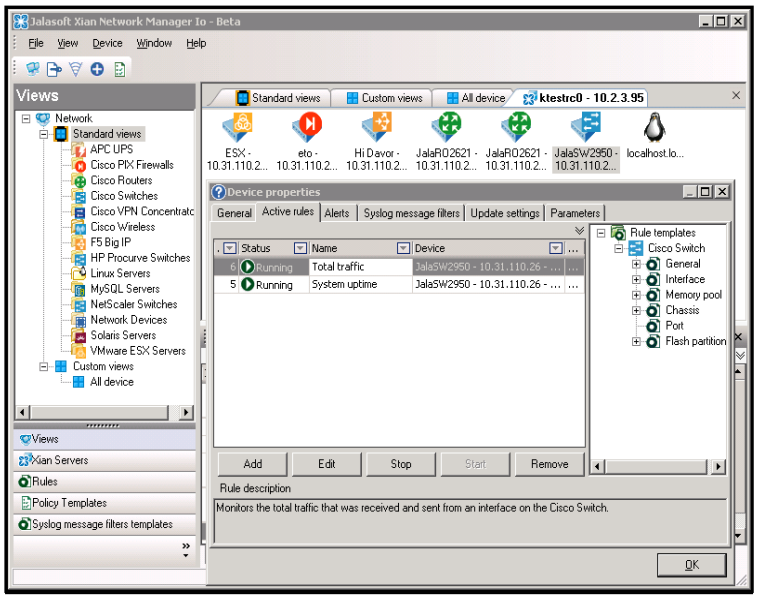
Rule Parameters

An easy wizard lets you configure the rule parameters. All rules have by default three steps: rule parameters, active rule options and schedule.

Parameters

You can configure when an alert will be sent to Ops Mgr. In many cases, this will be when the value is over or under a certain threshold.

However, for status based rules you can choose to generate an alert when the status changes or when it becomes a certain value (e.g. interface operational status: up, down, testing, unknown, or dormant).



For those rules related to interfaces, it is possible to select the interfaces where you want to apply the rule and define their individual thresholds. This way you can fine-tune the Xian environment.

Active rule options

The severity level is sent to Ops Mgr when a rule meets the selected criteria. Ops Mgr organizes the alerts by severity. With this option you can predefine each alert with a different level of severity (debug, informational, warning, error or critical), define the collection of performance counters to be used in performance data views or Xian Reports, rename the rule, and enable debug mode for the active rule.

Schedule
You can set the interval between each execution of the rule. This can vary within a range of seconds, minutes or days. When setting this step take into account that a short interval will consume more system resources.

Rules

F5 Big IP performance and status rules*

General
- 3-DNS port status
- Attempt failed TCP connections
- Corba port status
- Device availability
- Established TCP connections
- Fail-over status
- FTP port status
- Global incoming packets
- Global incoming traffic
- Global outgoing packets
- Global outgoing traffic
- Global total packets
- Global total traffic
- Maintenance mode status
- Open active TCP connections
- Open TCP connections
- RSH port status
- SSH port status
- System uptime
- Telnet port status
- Total active connections
- Total connections
- UDP open ports
- Virtual machine port status

*Some rules may not be applicable to specific device models.

Interfaces
- Failed reassembly requests
- Fragmentation failed
- Fragments created
- Incoming discarded packets
- Incoming error packets
- Incoming segments
- Incoming traffic
- Interface operational status
- Outgoing discarded packets
- Outgoing error packets
- Outgoing segments
- Outgoing traffic
- Reassembly requests
- Total discarded packets
- Total error packets
- Total segments
- Total traffic

Pools
- Pool active members
- Pool current connections
- Pool incoming packets
- Pool incoming traffic
- Pool outgoing packets
- Pool outgoing traffic
- Pool total connections
- Pool total packets
- Pool total traffic

Pool members
- Pool member current connections
- Pool member incoming packets
- Pool member incoming traffic
- Pool member outgoing packets
- Pool member outgoing traffic
- Pool member status
- Pool member total connections
- Pool member total packets
- Pool member total traffic

Real machines
- Real machine CPU usage
- Real machine current connections
- Real machine disk usage
- Real machine incoming packets
- Real machine incoming traffic
- Real machine memory usage
- Real machine outgoing packets
- Real machine outgoing traffic
- Real machine status
- Real machine total connections
- Real machine total packets
- Real machine total traffic

Real machine ports
- Real machine port current connections
- Real machine port incoming packets
- Real machine port incoming traffic
- Real machine port outgoing packets
- Real machine port outgoing traffic
- Real machine port status
- Real machine port total connections
- Real machine port total packets
- Real machine port total traffic

Virtual machines
- Virtual machine current connections
- Virtual machine incoming packets
- Virtual machine incoming traffic
- Virtual machine maintenance mode status
- Virtual machine outgoing packets
- Virtual machine outgoing traffic
- Virtual machine total connections
- Virtual machine total packets
- Virtual machine total traffic

Virtual machine ports
- Virtual machine port current connections
- Virtual machine port incoming packets
- Virtual machine port incoming traffic
- Virtual machine port outgoing packets
- Virtual machine port outgoing traffic
- Virtual machine port total connections
- Virtual machine port total packets
- Virtual machine port total traffic

Virtual ports
- Virtual port current connections
- Virtual port incoming packets
- Virtual port incoming traffic
- Virtual port outgoing packets
- Virtual port outgoing traffic
- Virtual port TCP status
- Virtual port total connections
- Virtual port total packets
- Virtual port total traffic
- Virtual port UDP status

Members
- Member current connections
- Member incoming packets
- Member incoming traffic
- Member outgoing packets
- Member outgoing traffic
- Member status
- Member total connections
- Member total packets
- Member total traffic

Supported Models

The Xian NM Smart Management Pack for F5 Big IP supports versions 4000, 6000 and 9000. If you want to obtain the updated list of supported devices or if you are interested in adding support for new models, please contact us

System Requirements

Minimum requirements to install Xian NM Smart Management Pack for Cisco Switches for Microsoft System Center Operations Manager are:

- Windows server 2008 SP1 or higher
- SQL Server 2005 SP1 or higher
- .NET Frameworks 4.0 or higher
- Message queuing 2.0 or higher
- System Center Operations Manager 2007 R2 or 2012
- SNMP connectivity to the devices that need to be monitored

Jalasoft Inc.
1219 Durham
Houston, Texas 77007
Toll Free: +1 888 402-6717
Fax: +1 408 463-6155
www.jalasoft.com