

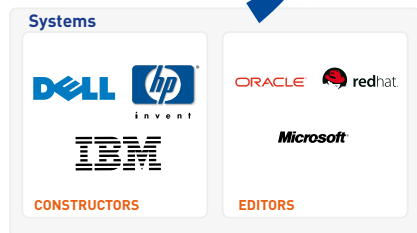
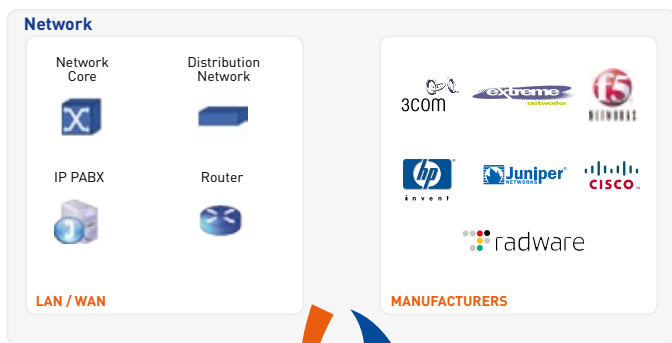


SmartReport is a monitoring **solution for IP infrastructure** providing an accurate vision of the conditions and performances of your IT infrastructure. Designed as an **appliance**, SmartReport is designed to integrate easily and quickly in your architecture in order to simplify the operation in 3 functional areas.

Performance Management
 Measure the level of performance and load of equipments
 Empower analysis and diagnosis

Availability Management
 Detect and prevent failure
 Alert in case of event

Reporting
 Use, export and analyse data in detailed summary reports



Real time and consolidated monitoring
 SmartReport collects and **consolidates in a dedicated database all information** from equipments. The reports generated allow a **detailed analysis of performance** and their evolution, whatever the period you want.

Monitoring / Alerting
 SmartReport regularly checks the health of your equipment and notify you by **email** in case of failure. **Contacts** and **contact groups** are set to send alerts only to concerned people.

Network Map
 SmartReport includes a **mapping module** for an **immediate view** of the infrastructure (**health, ability, drawing ...**). Maps are fully editable and positions of equipment are made with a simple **drag and drop**.

IP Telephony
 Using SLA indicators embedded in Cisco equipment, you measure accurately **the sound quality of ToIP conversations**.

Flow Accounting with Netflow / sFlow
 SmartReport **collects** and analyzes **NetFlow and sFlow** data sent by your routers, and thus provides a **consolidated view** of network flows thanks to a **real-time reporting** (top talkers, protocol distribution ...). A system of access-list (ACL) allows the creation of customized reports, relevant to your operation.

SLA and Quality of Service
 SmartReport controls **performances** and **response times** of **IT tools** that are essential to the company : LAN, WAN, ToIP, servers, applications ... You follow and analyze with precision the **quality of services** evolution provided, as well as **control for providers SLA**.

- Direct Benefits**
- Immediate handling and reduced administration expenses
 - Complete visibility on all network infrastructure, system and security
 - Easy operation and diagnostics
 - Measure and improve service levels
 - Wide range of equipment supported

SmartReport is a monitoring appliance developed by **acipia**



PERFORMANCE MANAGEMENT

AVAILABILITY MANAGEMENT

REPORTING

SNMP Monitoring
SmartReport collects and **analyse** in real-time and regularly SNMP information. It aims at **measuring** and analyzing the **performance** of network equipment, according to their type and model.

IP SLA (Service Level Agreement)
Thanks to Cisco **IP/SLA** protocol, the switches are actively involved into network performance management. SmartReport collects and analyzes data in order to produce relevant reports, giving an **accurate and reliable measurement** of performance and level of service provided to users on each site, remote or not. Pieces of information obtained through SLA protocol are particularly relevant to monitor **IP telephony**, thanks to the calculations of **scores ICPIF** and **MOS**, that give an accurate view of voice quality over IP.

Netflow et sFlow
SmartReport tells you **who uses the network to which applications** and which destinations with Netflow and sFlow protocols. These protocols provide information of level 3 and 4 on flows across the network, **without having to deploy probes or agents**. The Netflow ACL engine provided with SmartReport brings the production of customized reports according to specific criteria spotting relevant flows in your network. These functions are very useful to build **flows matrix** or a **protocol distribution**. Netflow / sFlow also contribute to validate the QoS policy and optimize the bandwidth, thus reducing operating costs.

Monitoring of QoS
Based on the equipments in your work, SmartReport has 4 different modes available to monitor your management of the **quality of service (QoS)** : Measure of **traffic volume** by Netflow **classes of service**, embedded counters in the MIB equipment of level 3, counters configured on access lists, SNMP MIB from appliances dedicated to **QoS** management.

Active Monitoring
SmartReport actively monitors the equipments in your network to **check their good functioning**. Active monitoring tests are carried out «as a user» of this equipment or application. The test result is the same as would be obtained by a user. For active monitoring, **no agent** or module software is required on the equipment supervised.

Passive Monitoring
SmartReport collects and correlates **SNMP** events (**Traps**) sent by the device. It analyses them according to equipment models, based on **MIB manufacturers**. Alerts are sent immediately and reliably upon receipt, **without delay** related to any scheduling.

Monitoring with NRPE
NRPE protocol allows SmartReport to delegate testing to an other equipment, usually a server. The equipment performs the test for which it is configured and sends its result to SmartReport through the NRPE agent. The use of the NRPE protocol is particularly relevant to **monitor** from **specific points** on the network, in addition to centralized testing.

Alerting
The notifications are sent by **email** after the **incident is detected**, then upon returning to normal. They can also be sent by **SMS** via a third party SMS gateway. The alerts are sent to **contacts** or groups of variable contacts according to the concerned equipment and the time slots.

Network Map
Maps provided with SmartReport give a **synthetic display** of the whole infrastructure (health, capacity, plan...). They allow a **progressive navigation** until spotting the failure in case of incident. **Maps** are completely editable in an intuitive way, by drag and drop.

Dash Board
SmartReport displays **in boards** and **relevant graphs** the information of **performance** and **availability**, as well as the distribution of equipments functioning states and their services on a given period.

Trend report
SmartReport uses data collected in order to **visualize the evolution** of each indicator from one period to another. It allows you to **plan** the various consumptions of your applications and **adapt** your architecture accordingly, simplifying the realization of your **schedule of capacities**. You can view reports for any past period.

Real-time reports
The most important indicators monitored by SmartReport are viewable in **real time** with a pitch which that come down to 5 seconds, so allowing to follow with speed and **precision an intervention** or an **incident** on the network

Customized reports
SmartReport allows creation of **customized reports grouping the indicators** and graphs of your choice. The interest is to see **easily** and immediately the **evolution** of each of these indicators against each other, particularly to identify correlated events.

Database and storage
The storage and filing of performance indicators are carried out with the Open Source database **RRD**, developed specifically for the storage of data that **change over time**. RRD uses a perpetual cyclic storage, the volume of data recorded in base does not change, nor the size of the database, what makes it particularly **successful**, including storage for periods of several years. Only the precision values stored decreases with time.

Range of products

These models are likely to evolve.

		SR.220	SR.420	SR.620
Network size	(number of equipments monitored)	< 120 équipements	< 350 équipements	< 800 équipements
Hardware	Hard Drives	2 x SAS Extended 7,2krpm	4 x SAS Extended 7,2krpm	6 x SAS Extended 7,2krpm
	RAID	RAID1	RAID10	RAID10
	RAM	2 Go	4 Go	8 Go
	CPU	Xeon Dual Core 53xx	Xeon Dual Core 53xx	Xeon Dual Core 53xx
	Network Interface	2 x NIC 10/100/1000	2 x NIC 10/100/1000	2 x NIC 10/100/1000
Dimensions	Power Supply	Simple	Double power supply redondant Hot Swap	Double power supply redondant Hot Swap
	Size in U	1U	1U	1U
	Height	44 mm	44 mm	44 mm
	Width	482,6 mm	482,6 mm	482,6 mm
	Depth	600 mm	600 mm	600 mm



CRÉDITS
Designed and developed by Acipia since 2005, SmartReport is an innovative project supported by



OSEO (ANVAR)

European Fund of Regional Development.

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