
# Monitoring Cisco Catalyst Switch

eG Innovations Product Documentation

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Total Performance Visibility

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# Chapter 1: Introduction

A network switch is a computer networking device that connects network segments. Low-end network switches appear nearly identical to network hubs, but a switch contains more "intelligence" than a network hub. Network switches are capable of inspecting data packets as they are received, determining the source and destination device of that packet, and forwarding it appropriately. By delivering each message only to the connected device it was intended for, a network switch conserves network bandwidth and offers generally better performance than a hub.

Catalyst is the brand name for a variety of network switches sold by Cisco Systems. Being a popular brand, the Catalyst switch is a regular in many IT infrastructures.

Issues with the switch could be the source of critical infrastructural problems such as excessive bandwidth usage, slow delivery of data packets, or even worse, loss of data during transit!

If such issues are to be averted, then the performance of the Catalyst switch should be monitored 24 x 7.

# Chapter 1: Monitoring Cisco Catalyst Switches

eG Enterprise has developed an exclusive Cisco Catalyst Switch monitoring model (see Figure 1.1), which periodically checks the traffic to and from the switch and the temperature of the switch, so that deviations can be detected before any irrepairable damage is done.

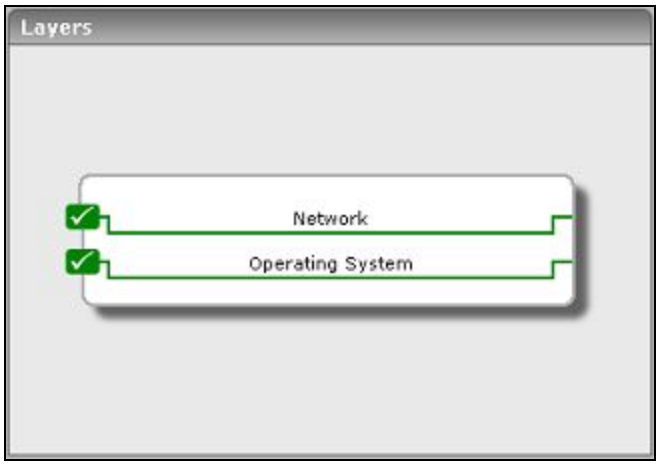


Figure 1.1: Layer model of the Cisco Catalyst Switch

Each of the layers of Figure 1.1 has been briefly discussed in the sections to come.

## 1.1 The Operating System Layer

This layer tracks the temperature of the Cisco catalyst switch (see Figure 1.2).


Figure 1.2: The tests mapped to the Operating System layer of a Cisco catalyst switch

The Cisco Temperature, Cisco Cpu, and Cisco Memory tests have already been discussed in *Monitoring Cisco Routers* of this document. This layer is also mapped to the CiscoVoltage and CiscoPowerSupply tests. However, both these tests are disabled by default. To enable the tests, go to the enable / disable tests page using the menu sequence : Agents -> Tests -> Enable/Disable, pick *Cisco Catalyst Switch* as the **Component type**, *Performance* as the **Test type**, choose the tests from the disabled tests list, and click on the **>>** button to move the tests to the **ENABLED TESTS** list. Finally, click the **Update** button. For details on these two tests, refer to the *Monitoring Cisco Routers* document.

## 1.2 The Network Layer

The tests mapped to this layer track the packet transmissions to and from the switch, and the percentage bandwidth used by the switch.


Figure 1.3: The tests that execute on the Network layer of the Cisco Catalyst switch

All the tests depicted by Figure 1.3 have been elaborately discussed in *Monitoring Cisco Routers* document.

# About eG Innovations

eG Innovations provides intelligent performance management solutions that automate and dramatically accelerate the discovery, diagnosis, and resolution of IT performance issues in on-premises, cloud and hybrid environments. Where traditional monitoring tools often fail to provide insight into the performance drivers of business services and user experience, eG Innovations provides total performance visibility across every layer and every tier of the IT infrastructure that supports the business service chain. From desktops to applications, from servers to network and storage, from virtualization to cloud, eG Innovations helps companies proactively discover, instantly diagnose, and rapidly resolve even the most challenging performance and user experience issues.

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