

DELL COMPUTERS

Dell Force10 Open Automation Switch Plug-in for Oracle Enterprise Manager 12c



The Dell Force10 Open Automation Switch Plug-in enables integrated management and visibility into datacenter network resources for Oracle Enterprise Manager 12c deployments.

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Company Overview

Dell Force10 datacenter networking products deliver high-performance infrastructure solutions powered by the industry's most innovative line of open, standards-based networking systems. Dell Force10 datacenter solutions are deployed in Web 2.0 and portals, high-performance computing environments, enterprise datacenters, and cloud and hosting networks. These solutions include an end-to-end 40 GbE datacenter offering and a feature-rich Open Automation framework for streamlining operations and improving service availability.

Integration Overview

The Dell Force10 Automation Switch Plug-in provides fast and efficient access to the networking hub of your solution when time is critical. When your solution requires app-to-network management from a single tool, the Dell Force10 Automation Switch Plug-in allows Oracle Enterprise Manager to cut through the traditional administrative silos to provide a clear path of visibility for monitoring the health of application devices and connectivity. The network is the mission-critical communications conduit between the application, database, compute, and storage. The Dell Force10 Automation Switch Plug-in for Oracle Enterprise Manager lets you monitor, detect, and remedy service-level agreement (SLA) violations and evolving complications in real time.

The monitoring plug-in for Dell Force10 switches provides Oracle Enterprise Manager 12c the ability to augment the overall view of application availability with the addition of information about the Dell Force10 switches that carry application traffic in their data networks. By gathering important performance and availability metrics from the switches, the plug-in provides an ability to alert the end user to potential problems that may affect the network and by extension the application performance. This instrumentation allows the customer to better deal with issues before they arise and also provide headroom for application proliferation.



Validated Integration

Oracle Enterprise Manager

Through the Oracle PartnerNetwork, partners with validated integrations are able to provide customers with standards-based product integrations, tested and validated by Oracle. Customers benefit from improved risk management and smoother upgrade capability, leading to a lower total cost of ownership and greater overall satisfaction.

Availability

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Support

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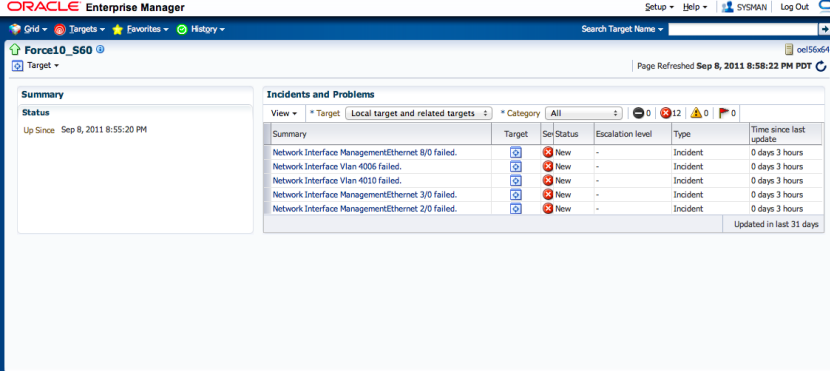
Integration Details

Network performance and availability metrics are collected and tracked in real time to provide a view of the health of Dell Force10 switches in the datacenter. Interface, switch CPU, and memory utilization data are collected at preset intervals—such as every five minutes—as defined by Oracle Enterprise Manager and stored in the Oracle Enterprise Manager repository so that changes can be tracked over time for trend analysis. The systems and application administrator can set thresholds, and alerts are generated by Oracle Enterprise Manager when any of the parameters such as CPU and memory utilization reach excessive levels or network interfaces unexpectedly change state. Having switch response and health tracked in the same control management console as the applications allows users to diagnose and troubleshoot problems and resolve bottlenecks more effectively.

Groups/systems—Several Dell Force10 switches can be grouped together and monitored as an individual unit

Notification rules and methods—Allows the end user to specify metrics and when they are alerted

Blackouts—Blackout periods allow device alerts that are not deemed important to be suppressed



The screenshot displays the Oracle Enterprise Manager console for a target named 'Force10_S60'. The 'Incidents and Problems' section is active, showing a table of network-related incidents. The table includes columns for Target, Set Status, Escalation level, Type, and Time since last update. Five incidents are listed, all with a status of 'New' and a type of 'Incident', indicating various network interface failures.

Target	Set Status	Escalation level	Type	Time since last update
Network Interface ManagementEthernet 8/0 failed.	New	-	Incident	0 days 3 hours
Network Interface Vlan 4006 failed.	New	-	Incident	0 days 3 hours
Network Interface Vlan 4010 failed.	New	-	Incident	0 days 3 hours
Network Interface ManagementEthernet 3/0 failed.	New	-	Incident	0 days 3 hours
Network Interface ManagementEthernet 2/0 failed.	New	-	Incident	0 days 3 hours

Environment

Dell Environment

Dell Force10 Open Automation OEM Release 12.1.0.3.2

Oracle Environment

Oracle Enterprise Manager 12c (Release 12.1.0.0.0)

Oracle Database 11g Release 2

Oracle WebLogic Server 10.3.4.0

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