

## The Cisco Catalyst Blade Switch 3030 for Dell For the Dell PowerEdge Blade Server Enclosure

### USE THE POWER OF CISCO INFRASTRUCTURE SERVICES TO IMPROVE SECURITY, RESILIENCY, AND MANAGABILITY.

Data center managers are focusing on strategies that provide data security and incorporate a high level of manageability and resiliency to ensure end customer satisfaction. However they also need to maintain operational efficiency, reduce downtime, and increase serviceability. Technology advancements that help achieve these goals are vital to their success.

Cisco Systems® is delivering a new technology that brings secure, resilient, and manageable services to the data center server edge. The Cisco® Catalyst® Blade Switch 3030 (Figure 1) is an integrated switch for the Dell™ PowerEdge™ Blade Server Enclosure that extends Cisco network infrastructure services to the server edge and uses existing network equipment to help reduce operational expenses. The Cisco Catalyst Blade Switch 3030 helps ensure consistency across the network for advanced services such as security and resiliency. It also allows customers to take advantage of an end-to-end Cisco management framework to simplify ongoing operations.

**Figure 1.** Cisco Catalyst Blade Switch 3030 for Dell



### INTRODUCING THE CISCO CATALYST BLADE SWITCH 3030 FOR DELL

Cisco has designed the Cisco Catalyst Blade Switch 3030 to address the following challenges and needs of data centers and enterprise customers:

- Cable complexity in the rack and the interconnect
- Space constraint in the high-density data center
- Security throughout the infrastructure
- Operational efficiency and total cost of ownership
- Manageability to the server edge

The Cisco Catalyst Blade Switch 3030 was designed for the Dell PowerEdge Blade Server Enclosure with proven innovations from Cisco that help ensure the highest levels of reliability and availability, addressing the unique needs of data center customers. This integrated solution eliminates cables in the server midplane. Blade server enclosures are denser than traditional server racks so that data center customers can fit more in less space, dramatically reducing space requirements. With the wide range of security features that the Cisco Catalyst Blade Switch 3030 offers, businesses can protect important information, keep unauthorized people off the network, guard privacy, and maintain uninterrupted operation. By standardizing

their data center network on Cisco infrastructure services and combining the Cisco Catalyst Blade Switch 3030 with their existing network equipments, businesses reduce their total cost of ownership through optimization of their operations.

The Cisco Catalyst Blade Switch 3030 uses CiscoWorks, the same management framework, that controls Cisco products throughout data center and enterprise networks. CiscoWorks LAN Management Solution (Figure 2), the preferred management tool for enterprise switch platforms, can now be used to manage data center networks all the way to the server edge. The added benefits of security, resiliency, manageability, and end-to-end services deployment provide compelling operational and business benefits.

**Figure 2.** CiscoWorks LAN Management Solution



### **Cisco Extends Network Infrastructure Services to the Server Edge**

New business applications have typically been delivered through traditional server-based systems. In that context the network is the platform that transparently connects and enables all components of the IT infrastructure. Following the Cisco Service-Oriented Network Architecture (SONA), data centers can take advantage of network infrastructure services to optimize applications, processes, and resources. By making the network more capable and intelligent, enterprises can improve efficiency throughout the network while freeing operational funds for new strategic investments and innovation. Standardization increases asset efficiency by lowering operational costs to support the same number of assets. The Cisco Catalyst Blade Switch 3030 extends the network infrastructure services to embrace the server edge. The consistence of network services creates an economy of scale in terms of equipment utilization and human resource allocation. The widespread effect of the newly gained efficiencies across the network offers increased flexibility and scalability, thus creating a significant impact on growth, customer loyalty, and profitability—thereby improving the overall ability to compete.

### **Cisco Catalyst Blade Switch 3030 Product Details**

The Cisco Catalyst Blade Switch 3030 is a combination of Cisco hardware and software that integrates into Dell's PowerEdge Server Enclosure and meets the needs of data centers and enterprise customers. The Catalyst Blade Switch 3030 eliminates the cumbersome traditional cable connections between server and switch. The end result is a smaller subset of cables between the blade switch and your network infrastructure.

The Cisco Catalyst Blade Switch 3030 makes running a complete business data center more efficient than ever. The data center can grow in concert with your business, and QoS helps ensure that real-time applications have the right quality and integrity.

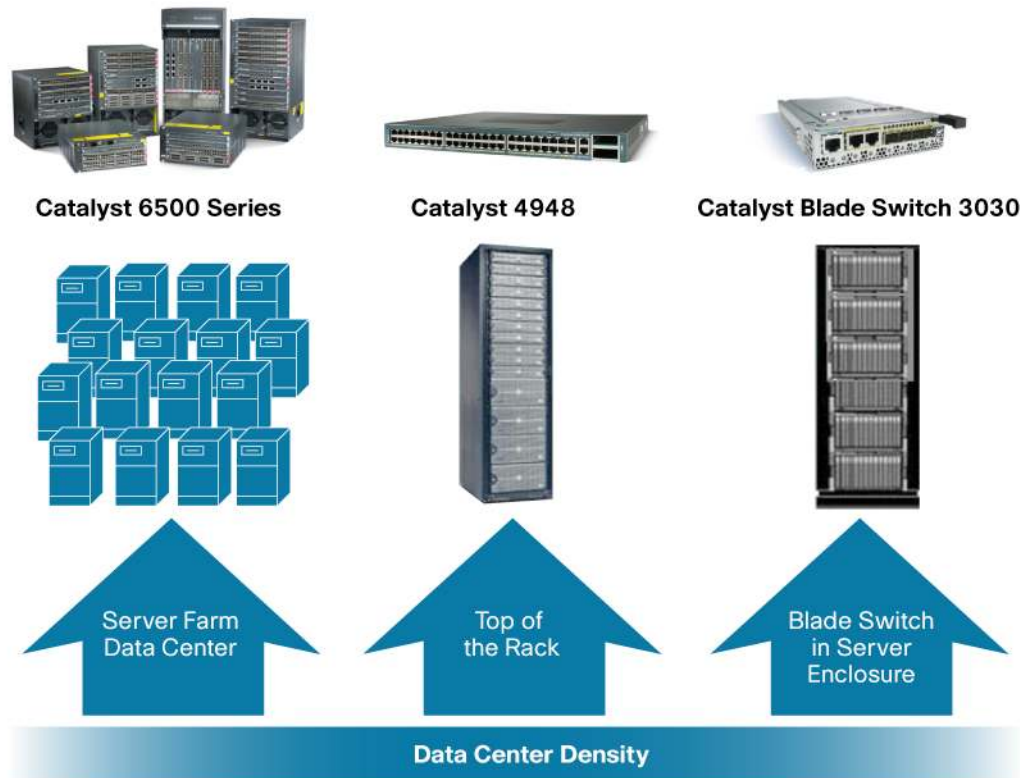
The Cisco Catalyst Blade Switch 3030 delivers ease of connectivity, advanced functionality, and non-disruptive integration with the Dell PowerEdge Blade Server Enclosure.

Securing business assets is an ongoing challenge for many businesses. The Cisco Catalyst Blade Switch 3030 offers integrated security to better protect access to servers. Cisco IOS® Software security features help prevent password and data theft or snooping. Cisco Network Admission Control (NAC) helps ensure access control and posture validation, and checks that users have the very latest virus protection. These embedded features provide superior protection to the switch, network, and management functions. Integrated security delivers a competitive advantage by reducing the risk of downtime and potential cost associated with a network attack, theft of information, or liability. The Cisco Catalyst Blade Switch 3030 is a component of the Cisco Self-Defending Network, where security is built in at every network level.

### Cisco Data Center Access Solutions

Cisco offers multiple options to address a full range of data center networking requirements. The Cisco Catalyst Blade Switch 3030 complements the proven Catalyst 6500 Series switches and Catalyst 4948 Switch (Figure 3). All of these server access solutions are manageable with CiscoWorks LAN Management Solution.

**Figure 3.** Cisco Data Center Access Solutions



## BUSINESS BENEFITS

Building on 20 years of innovation, Cisco and Dell offer you an integrated solution to extend network services to the server edge. The Cisco Catalyst Blade Switch 3030 for the Dell PowerEdge Blade Server Enclosure is the optimum choice for data center and enterprise customers who need to deploy a secure, resilient, and highly manageable blade server solution. This solution allows you to:

- Eliminate 90 percent of cable complexity in the data-center
- Realize dramatic space savings
- Enhance operational efficiency through extension of common network services to the server edge
- Easily secure assets through industry-leading Layer 2 networking security
- Manage, monitor, and configure your network infrastructure with a common set of management tools using CiscoWorks

The Cisco Catalyst Blade Switch 3030 addresses today's data center and enterprise challenges and provides the confidence that your data center can easily grow to address tomorrow's business challenges and opportunities.

For more information on how your company can benefit from the Cisco Catalyst Blade Switch 3030 for Dell, visit:

<http://www.cisco.com/go/cbs3030>

## FOR MORE INFORMATION

For more information about the Cisco Catalyst Blade Switch 3030, visit <http://www.cisco.com/go/CBS3030> or contact your local account representative.



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