

The Cisco Catalyst Blade Switch 3040 for the Fujitsu Siemens Computer PRIMERGY BX600 Blade Ecosystem

Use the power of Cisco® infrastructure services to add industry-leading switch security, resiliency, and manageability to the Fujitsu Siemens Computer (FSC) PRIMERGY BX600.

Data center managers focus on strategies that provide data security and incorporate a high level of manageability and resiliency to help 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® technology can enhance data center security, resiliency, and manageability by integrating into a FSC Blade Ecosystem. The Cisco Catalyst® Blade Switch 3040 (Figure 1) is an integrated switch for the Fujitsu Siemens Computers PRIMERGY BX600 Advanced Blade Ecosystem. FSC customers can use the Cisco Catalyst Blade Switch 3040 to extend Cisco network infrastructure services to the server edge and uses existing network equipment to help reduce operational expenses. Designed specifically for the FSC PRIMERGY BX600, the Cisco Catalyst Blade Switch 3040 helps ensure consistency across the network for advanced services such as security and resiliency. It also allows customers to use an end-to-end Cisco management framework to simplify ongoing operations.

Figure 1. Cisco Catalyst Blade Switch 3040 for FSC



INTRODUCING THE CISCO CATALYST BLADE SWITCH 3040

Cisco has designed the Cisco Catalyst Blade Switch 3040 to address the following challenges and needs of data centers and enterprise customers:

- Cable complexity in the rack and the interconnect
- Space constraints 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 3040 was designed for the FSC PRIMERGY BX600 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 backplane. Blade server ecosystems 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 3040

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 3040 with their existing network equipments, businesses reduce their total cost of ownership through optimization of their operations.

The Cisco Catalyst Blade Switch 3040 uses CiscoWorks, the same management framework that controls Cisco products throughout data center and enterprise networks. The 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 use 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 3040 extends the network infrastructure services to embrace the server edge. The consistency 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 effect on growth, customer loyalty, and profitability—thereby improving the overall ability to compete.

Cisco Catalyst Blade Switch 3040 Product Details

The Cisco Catalyst Blade Switch 3040 is a combination of Cisco hardware and software that integrates into the FSC PRIMERGY BX600 Advanced Blade Ecosystem and meets the needs of data centers and enterprise customers. The Cisco Catalyst Blade Switch 3040 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 3040 makes running a complete business data center more efficient than ever. The data center can grow along with your business, and quality of service (QoS) helps ensure that real-time applications have the right quality and integrity.

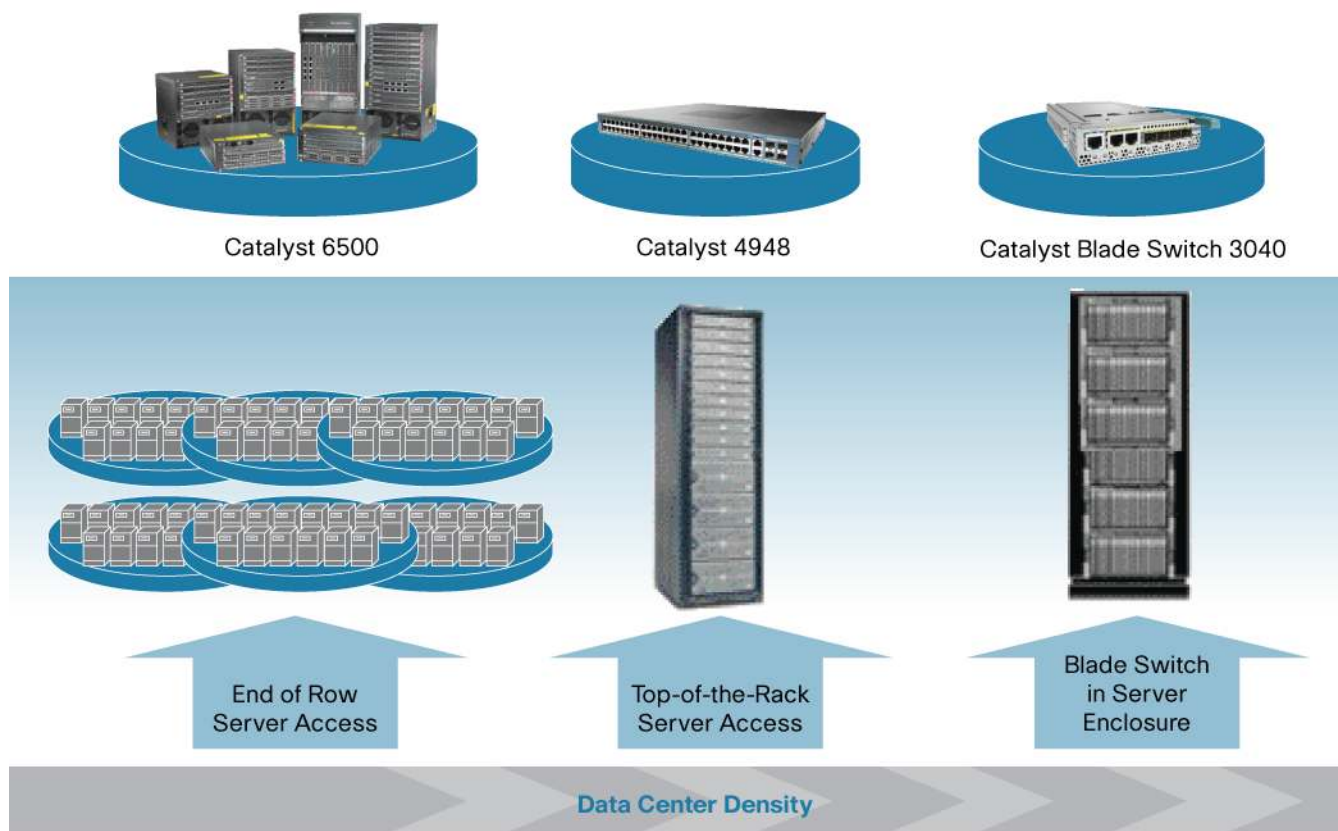
The Cisco Catalyst Blade Switch 3040 delivers ease of connectivity, advanced functionality, and nondisruptive integration with the FSC PRIMERGY BX600 Advanced Blade Server Ecosystem.

Securing business assets is an ongoing challenge for many businesses. The Cisco Catalyst Blade Switch 3040 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 current 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 3040 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 3040 complements the proven Cisco Catalyst 6500 Series Switches and Cisco 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 Fujitsu Siemens offer you an integrated solution to extend network services to the server edge. The Cisco Catalyst Blade Switch 3040 for Fujitsu Siemens is an excellent 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 3040 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 about how your company can benefit from the Cisco Catalyst Blade Switch 3040 for FSC, visit <http://www.cisco.com/go/cbs3040>.

FOR MORE INFORMATION

For more information about the Cisco Catalyst Blade Switch 3040, visit <http://www.cisco.com/go/CBS3040> or contact your local account representative.



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