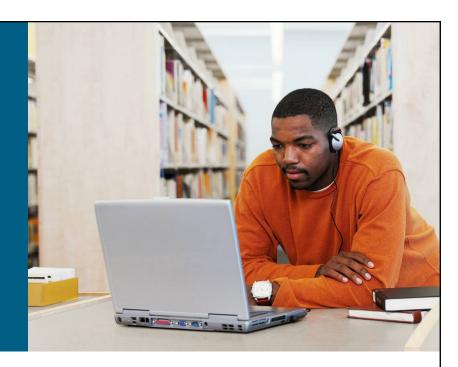


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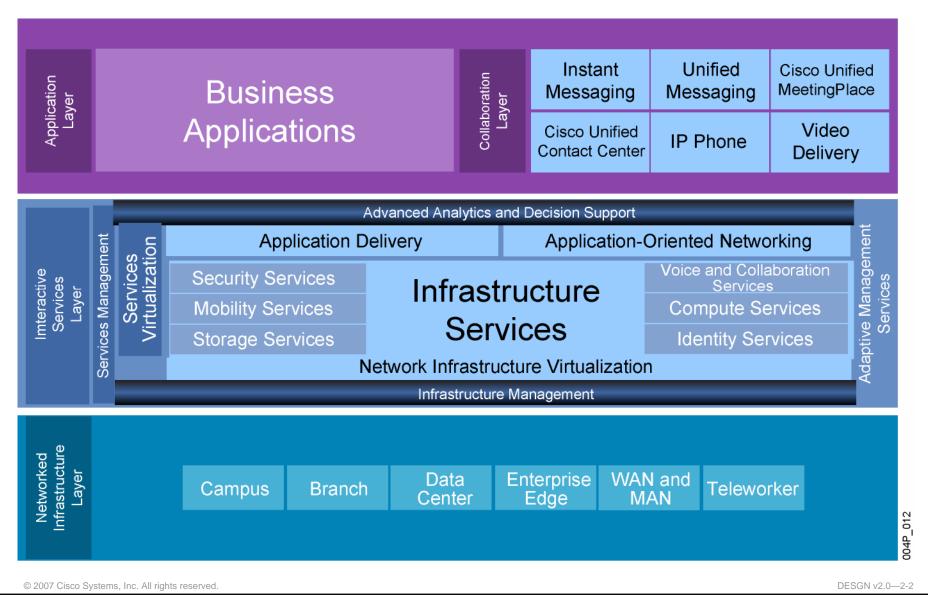
# Using a Modular Approach in Network Design



**Structuring and Modularizing the Network** 

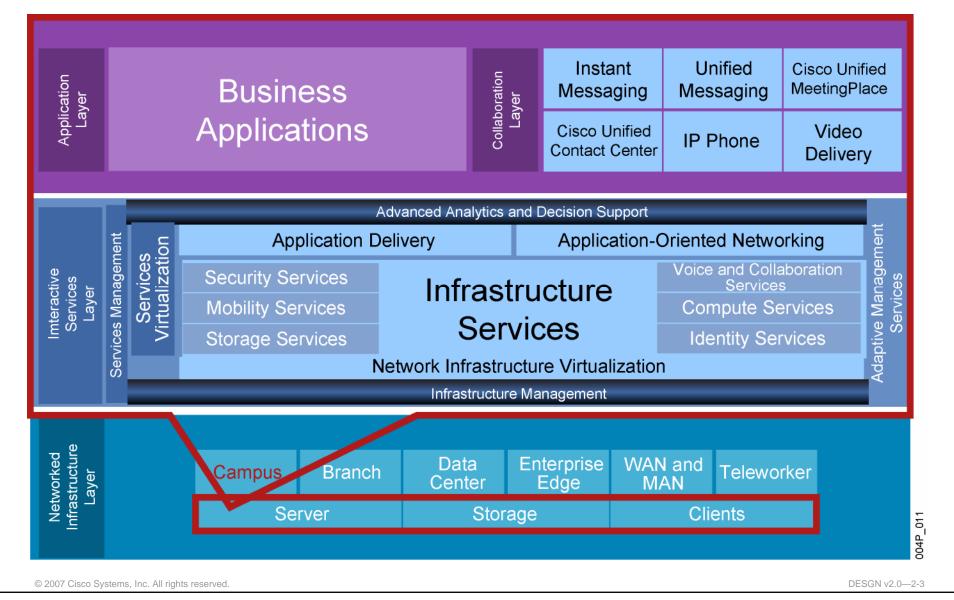
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#### **Service-Oriented Network Architecture**



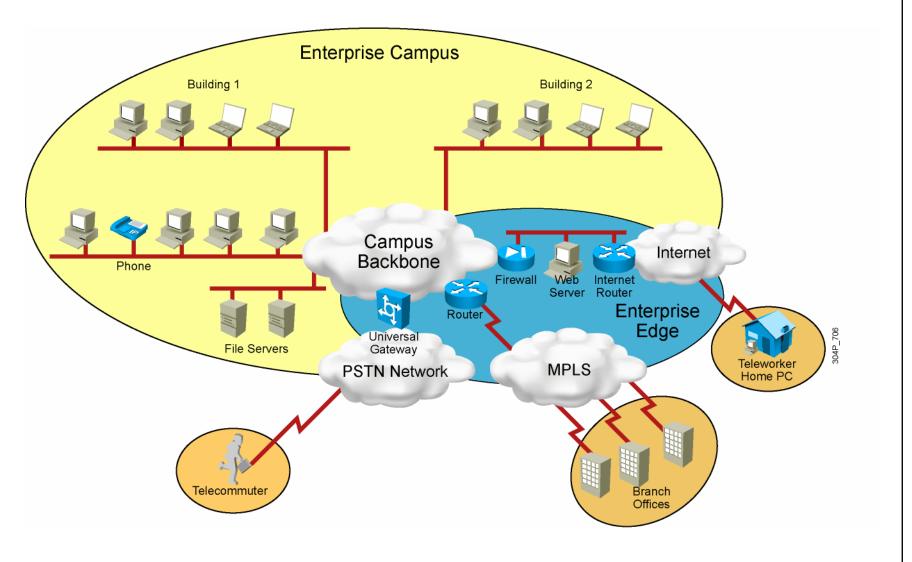
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# **Example: Cisco Enterprise Campus Architecture**



#### **Cisco Enterprise Architecture** Enterprise Edge **Enterprise Campus** WAN and Internet **Building** Enterprise E-Commerce Access Branch **ISP A** Building Internet Distribution Connectivity ISP B Campus Enterprise Core **Data Center** WAN and MAN Frame Site-to-Site VPN Relay/ ATM/ MAN/... Server Farm and Enterprise **Data Center** Remote Access Teleworker and VPN **PSTN** Network Management © 2007 Cisco Systems, Inc. All rights reserved DESGN v2.0-2-4

# **Example: Dividing the Network into Areas**

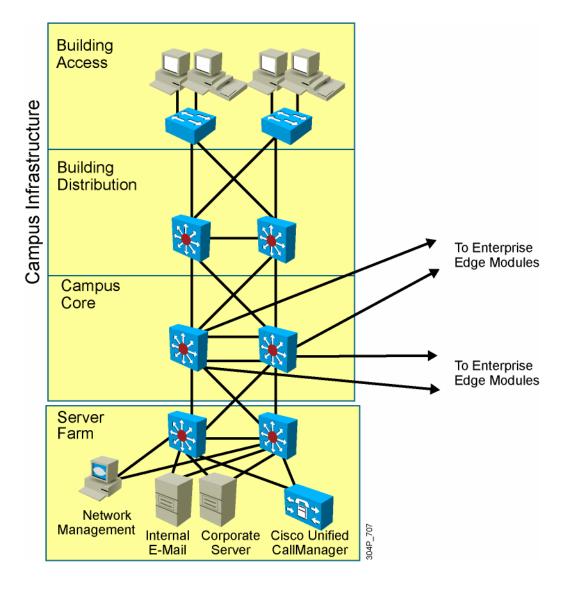


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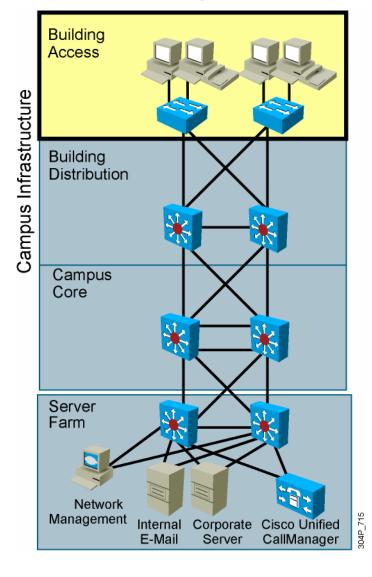
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# **Enterprise Campus Infrastructure Module**



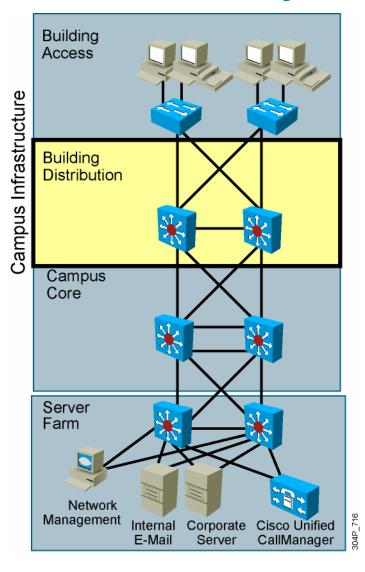
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# **Building Access Layer**



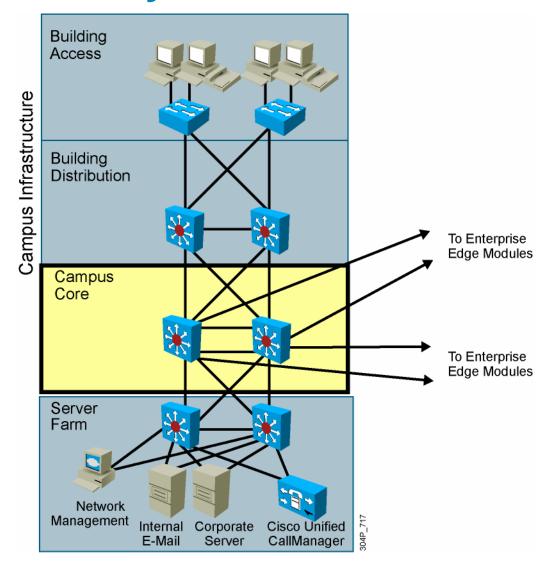
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### **Building Distribution Layer**



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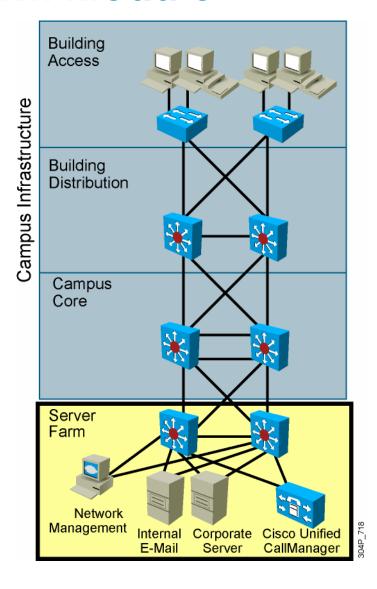
#### **Campus Core Layer**



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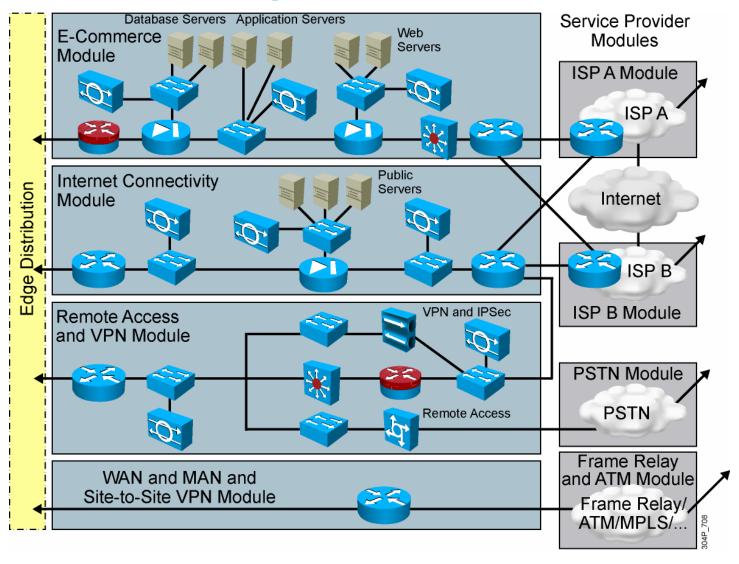
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#### **Server Farm Module**



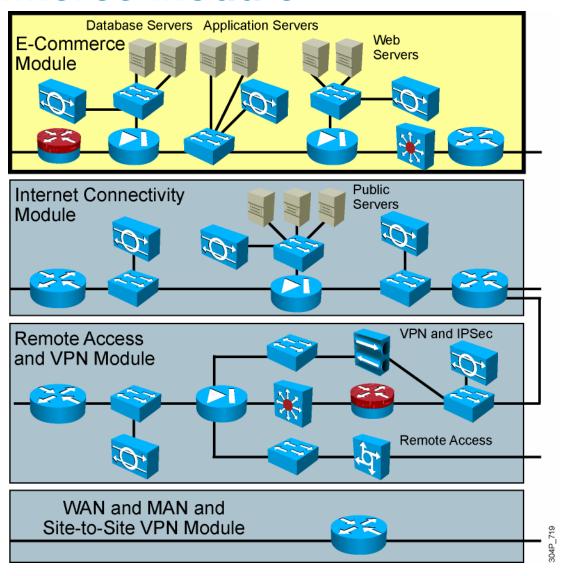
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### **Enterprise Edge Modules**



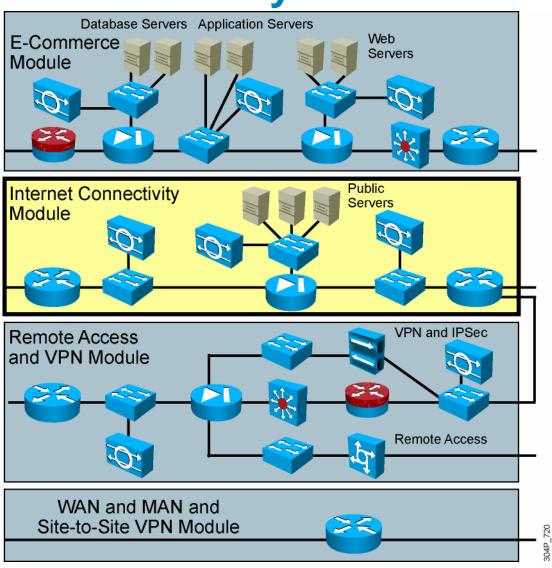
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#### **E-Commerce Module**



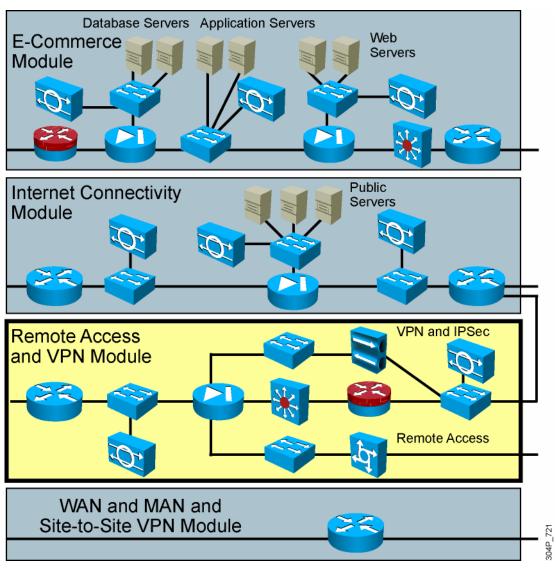
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# **Internet Connectivity Module**



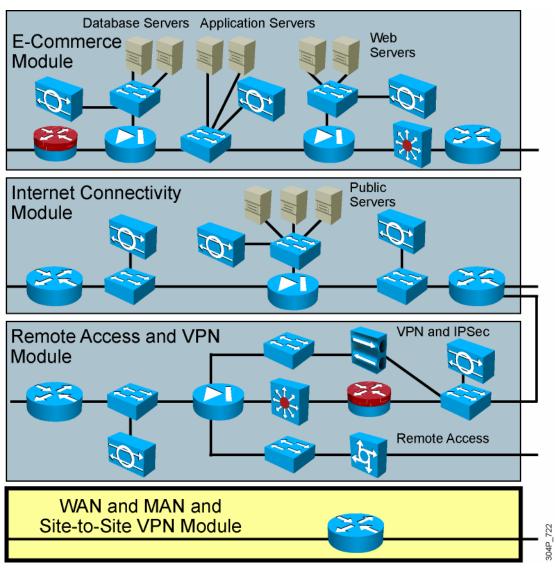
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#### **Remote Access and VPN Module**



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# WAN and MAN and Site-to-Site VPN Module



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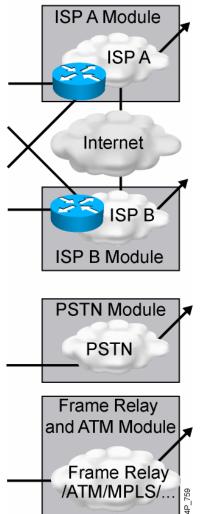
# **Enterprise Edge Guidelines**

- Determine the connectivity needed to the Internet.
- Create the e-commerce module ID needed.
- 3. Design the remote access and VPN module if needed.
- 4. Design the WAN module to support connections to remote enterprise locations if needed.

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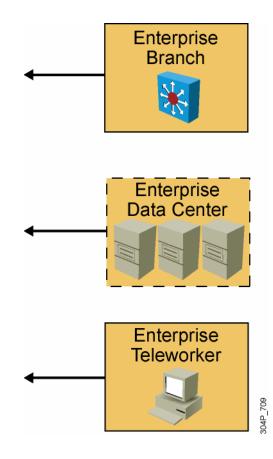
#### **Service Provider Modules**

Service Provider Modules



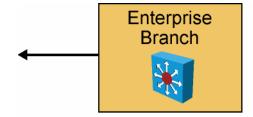
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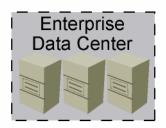
#### **Enterprise Remote Modules**

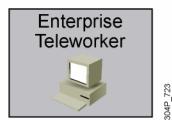


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#### **Enterprise Branch Module**

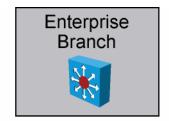


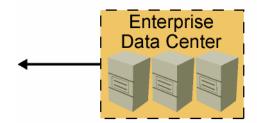




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#### **Enterprise Data Center Module**



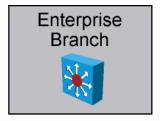


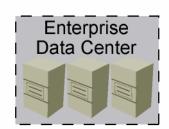


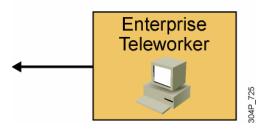
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#### **Enterprise Teleworker Module**







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### **Summary**

- Based on SONA, the Cisco Enterprise Architecture provides a modular enterprise-wide hierarchical approach for providing network infrastructure and services to all places in the network.
- The enterprise campus infrastructure module includes the campus infrastructure module and the server farm module.
- The enterprise edge modules include the e-commerce module, the Internet connectivity module, the remote access and VPN module, and the WAN and MAN and site-to-site modules.
- The remote enterprise modules include the remote branches, data centers, and teleworkers.

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