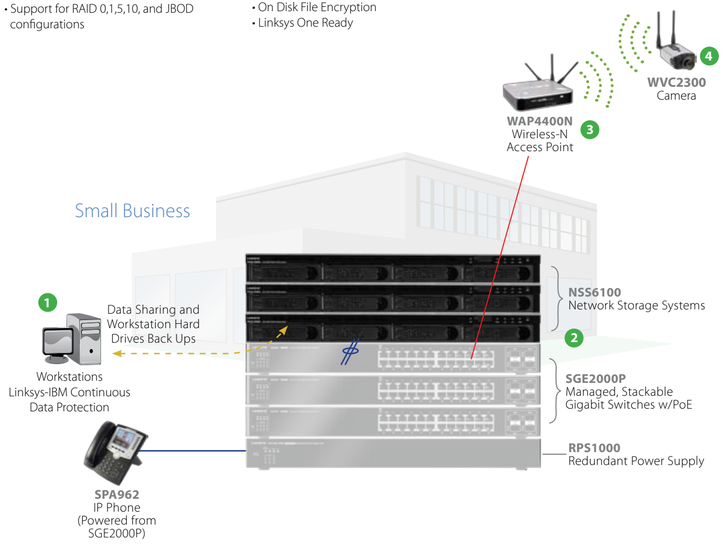
Network Attached Storage

Key Features:

- 1U 19" Rack-Mountable Intelligent Chassis
- 4 Hot-Swappable SATA Hard Drive Bays
- Support for PC/Mac (SMB/CIFS) and Linux/Unix (NFS) clients
- Support for RAID 0,1,5,10, and JBOD configurations
- Dual Gigabit Ethernet Interfaces
- Flash-based Storage for OS/applications (eliminates dependence on system drives)
- Network-based Storage Aggregation
- On Disk File Encryption
- Linksys One Ready



1. Backup your most important files the moment they are saved with **Linksys-IBM® Continuous Data Protection**. Improve collaboration and share business-critical data between employees by storing data on the NSS unit.

2. Each Network Storage System chassis includes two Gigabit Ethernet uplink ports that can be connected to Gigabit Ethernet ports on a Gigabit Switch, like the **Stackable Gigabit Ethernet Switch with PoE (SGE2000P)**. This capability enables companies to back up hard drives at a much quicker rate and helps to eliminate data traffic bottlenecks (see also Link Aggregation below).

3. Employees accessing the network wirelessly through a **Wireless Access Point (WAP4400N)** connected via Power over Ethernet (PoE) to a PoE Switch like the SGE2000P, can collaborate on files or projects residing on the NSS devices giving them the freedom to move around the office and attend meetings while still completing work.

4. Network Storage Systems can be used to archive surveillance video that the **Wireless Camera (WVC2300)** captures and then retrieve it as necessary if an event needs to be reviewed or examined.

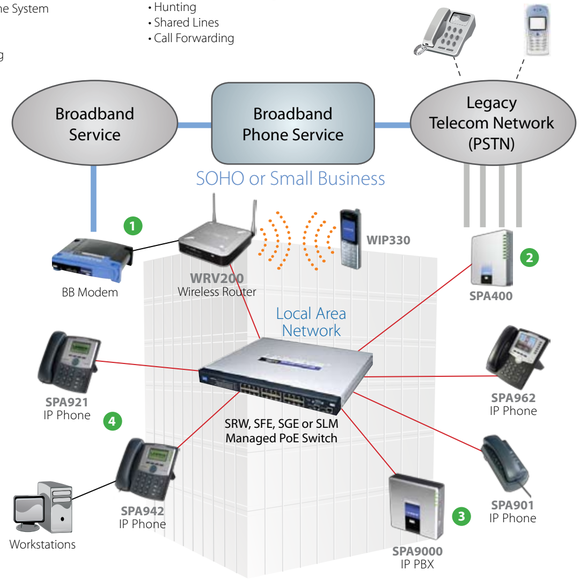
Link Aggregation - When two or more Ethernet or Gigabit Ethernet ports are combined together to increase the throughput capacity from switch to switch (or from switch to an NSS device with Gigabit Ethernet uplink ports). Link Aggregation is especially useful to speed along multiple user PC hard drive back ups to company servers or storage devices.

PoE (Power over Ethernet) - PoE Switches can deliver power to PoE-enabled devices like Wireless Access Points or IP Phones through their Ethernet ports. These switches have built-in safeguards to poll connected end devices for PoE capability before delivering power. PoE enables companies to position Wireless Access Points virtually anywhere in their buildings when power outlets are not available or to achieve best possible wireless signal coverage for employees. PoE also enables PoE enabled phones to be placed or relocated to virtually any area throughout a building.

Linksys Voice System

Key Features:

- Auto Configuration with SPA9000 IP PBX
- Multi-Line VoIP Phone System
- Call Transfer
- Call Parking
- Intercom and Paging
- Multi-Line Conferencing
- Hunting
- Shared Lines
- Call Forwarding



1. A Linksys **Broadband Modem** (Cable or ADSL/ADSL2+) provides connectivity to Internet Service Providers (ISPs) and an Internet Telephony Service Provider (ITSP) that enables small businesses to make and receive phone calls with Voice-over-IP (VoIP) a method of sending and receiving voice signals that have been converted to data packets over IP networks. A Linksys Wireless Router provides connectivity to users on the network to transfer data and voice.

2. The **SPA400** is an **Analog Line Gateway** (used in conjunction with the SPA9000 IP PBX) for connectivity to a Public Switched Telephone Network (PSTN). With the SPA400 analog/legacy phones and fax machines or IP Phones hosted by the SPA9000 can access the PSTN. This gives small businesses the option to support their existing phone infrastructure in addition to using VoIP. The SPA400 also maintains a voicemail system supporting up to 32 separate voicemail accounts.

3. Linksys Voice System (LVS) IP Phones are automatically detected and registered with the small business ITSP when connected to the **SPA9000 IP PBX** through a Power over Ethernet (PoE) Switch (**SRW248G4P, SFE2000P, SGE2000P , SLM224P or SLM248P**) on the network. The SPA9000 features auto-attendant, shared line appearances, three way conferencing, intercom, hunt groups, call transfer, call forwarding, call parking lot, group paging, and music on hold. Analog phones and fax machines can also be connected to the SPA9000's FXS ports for calling or faxing over the IP network. With the SPA9000, small business can get the benefits of VoIP, including low cost long distance service, telephone number portability, and utilizing the same network for both voice and data.

4. LVS features a full line of IP Phones supporting from 1 to up to 6 lines (**SPA921, SPA922, SPA941, SPA942, and SPA962**) and are designed to be interoperable with SIP (Session Initiation Protocol) based IP telephony networks. They are also PoE-end devices so they can be powered from a PoE switch allowing them to be placed virtually anywhere in an office environment. Up to 16 phones can be supported with one SPA9000 IP PBX.

The maximum performance for wireless is derived from IEEE Standard 802.11 specifications. Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage. Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions. Check the product package and contents for specific features supported. Specifications are subject to change without notice.

Linksys by Cisco

BUSINESS SERIES
Deployment Models

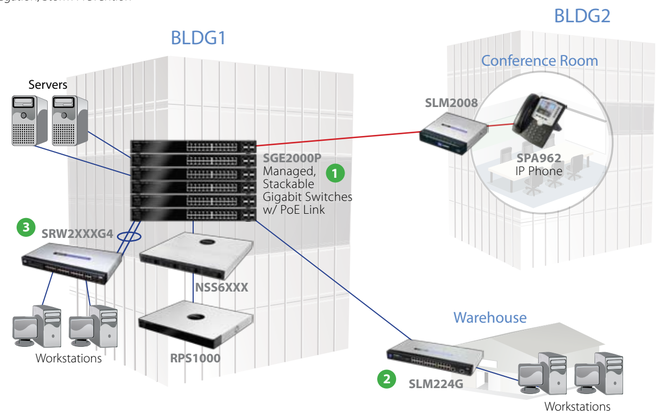
Linksys Business Series

Deployment Models

Networking (LAN) Solution

Key Features:

- Non-Blocking Architecture
- L2 & L3 QoS/CoS
- Security & Traffic Management
- Fully Managed L2 Features - SNMP, HTTP, Telnet, RMON
- Network Availability Features - Spanning Tree, Link Aggregation, Storm Prevention



1. **SGE2000/P Managed Gigabit Stackable Switch (with and without PoE)** serves as a backbone switch for the network with connectivity to company servers and Network Storage Systems (NSS4xxx or NSS6xxx) so users can access, share and archive business critical data.

2. **SLMxxx Smart Switches** provide cost-effective connectivitiy with simplified management targeted for small business workgroups (Conference Rooms, Labs, Warehouses) or the network edge.

3. **SRW2xxG4 Managed 10/100 Ethernet Switch** provides connectivity to a company workgroup on the same floor or on a different floor of the business.

4. **SRW208x Managed 10/100 Workgroup Switch with PoE** for workgroup that requires Power over Ethernet enabled devices such as **VoIP phones** and **Wireless Access Points (WAP4400N)**

Link Aggregation - When two or more Fast Ethernet or Gigabit Ethernet ports are combined to increase the throughput capacity from switch to switch (or device). Link Aggregation is especially useful to speed along multiple user PC hard drive back ups to company servers or storage devices.

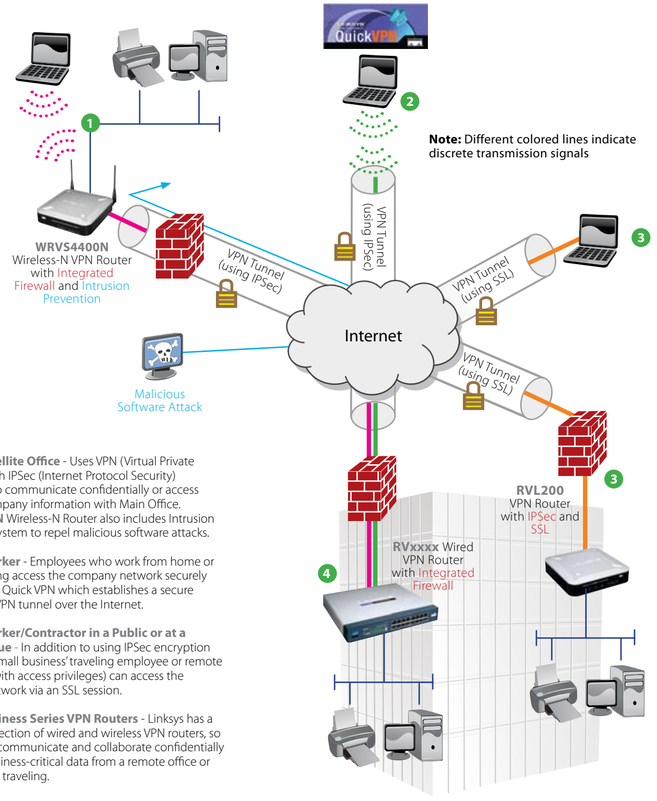
PoE (Power over Ethernet) - PoE Switches can deliver power to PoE-enabled devices like Wireless Access Points or IP Phones through their Ethernet ports. These switches have built-in safeguards to poll connected end devices for PoE capability before delivering power. PoE enables companies to position Wireless Access Points virtually anywhere in their buildings when power outlets are not available or to achieve best possible wireless signal coverage for employees. PoE also enables PoE enabled phones to be placed or relocated to virtually any area throughout a building.

Stackable Switches - Stackable switches (SFE2000, SFE2000P, SGE2000 and SGE200P) are switches that can be connected and managed as one switch. For example, four 24-port stackable switches could be managed as one 96-port switch. This capability helps to simplify and streamline management workflow of the stack.

Remote Access with Security Solution

Key Features:

- IPSec and SSL VPN
- Wireless Option
- Support for Gateway-to-Gateway
- DoS/DDoS
- Worm Attacks
- Web Attacks
- IP Fragmentation
- Trojan Horse/Back Door
- Port Scan
- Buffer Overflow
- Vulnerabilities Attacks



1. **Branch/Satellite Office** - Uses VPN (Virtual Private Network) with IPSec (Internet Protocol Security) encryption to communicate confidentially or access sensitive company information with Main Office. **WRVS4400N** Wireless-N Router also includes Intrusion Prevention System to repel malicious software attacks.

2. **Remote Worker** - Employees who work from home or when traveling access the company network securely using Linksys Quick VPN which establishes a secure (encrypted) VPN tunnel over the Internet.

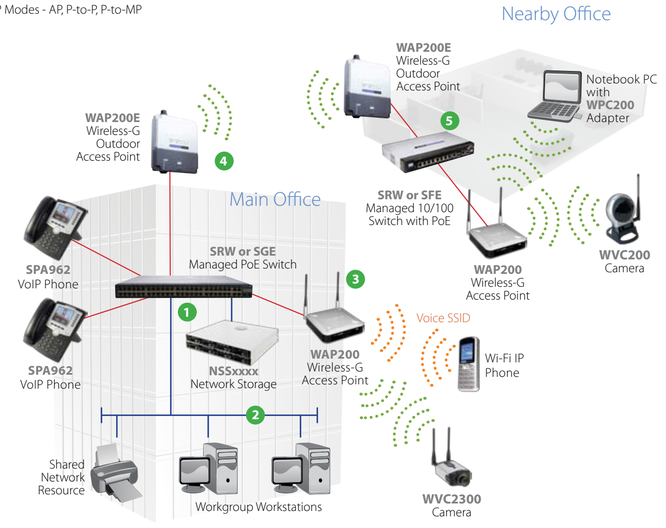
3. **Remote Worker/Contractor in a Public or at a Hosted Venue** - In addition to using IPSec encryption over VPN, a small business' traveling employee or remote contractor (with access privileges) can access the company network via an SSL session.

4. **Linksys Business Series VPN Routers** - Linksys has a complete selection of wired and wireless VPN routers, so workers can communicate and collaborate confidentially or access business-critical data from a remote office or when they're traveling.

Wireless Access Solution

Key Features:

- 802.11g Wi-Fi with PoE
- Multiple SSIDs with VLAN Mapping
- Security and QoS - 802.1x, WPA, WMM
- Multiple AP Modes - AP, P-to-P, P-to-MP



* Wireless range and actual throughput vary based upon numerous environmental factors so individual performance may differ.

1. **SRW or SGE** Managed Gigabit Ethernet Switch with Power over Ethernet (PoE) serves as a backbone switch for the network with connectivity to employees workstations, company's **Network Storage Systems (NSSxxxx)** to access, share and archive business critical data; shared resources like networked printers and PoE-end devices like VoIP Phones and Wireless Access Points **(WAP200** and **WAP4400N).**

2. **VLANs** - Separate Virtual Local Area Networks (VLANs) are configured in the backbone switch to secure and optimize traffic flow between users in discrete workgroups. For example, an accounting department and a marketing department are typically on separate VLANs.

3. **WAP200** Wireless Access Point provides connectivity to WiFi IP Phone clients and surveillance cameras each on their own network (SSID).

4. **WAP200E** Wireless-G Outdoor Access Points. These outdoor access points derive their power from a PoE switch since they are typically mounted on rooftops or on other high perches of a company's building where power outlets may not be present. In this scenario, each WAP200E is configured in bridging mode connecting the Main Office and Nearby Office networks so users in each office can communicate, collaborate with one another and access company data and resources in the entire company.

5. Nearby Office Network is bridged to the Main Office network and contains the necessary wired and wireless devices to conduct business.