IBM Ethernet Appliance j-type s-series models (4274-S34, 4274-S36, 4274-S56, and 4274-S58) are designed to deliver secure network expansion

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At a glance

IBM® Ethernet Appliances provide Enterprise wide security features (including stateful firewall, antivirus, anti-spyware, anti-adware, and anti-phishing), anti-spam, and Web filtering-stops worms, spyware, trojans, malware, and other emerging attacks.

Note: Not all features are available on all platforms.

IBM Ethernet Appliance s-series J34S for IBM System Storage™ (4274-S34)

- 3 RU
- Up to 20 Gbps firewall capacity
- Base machine includes Routing Engine, 12x1Gb Switch Fabric Board and 1 AC Power Supply

IBM Ethernet Appliance s-series J36S for IBM System Storage (4274-S36)

- 5 RU
- Up to 30 Gbps firewall capacity
- Base machine includes Routing Engine, 12x1Gb Switch Fabric Board and 2 AC Power Supplies

IBM Ethernet Appliance s-series J56S for IBM System Storage (4274-S56)

- 8 RU
- Up to 60 Gbps firewall capacity
- Base machine includes Routing Engine, 1 Switch Control Board and 2 AC Power Supplies

IBM Ethernet Appliance s-series J58S for IBM System Storage (4274-S58)

- 16 RU
- Up to 120 Gbps firewall capacity
- Base machine includes Routing Engine, 2 Switch Control Boards and 3 AC Power Supplies
Overview

Based on Dynamic Services Architecture, the IBM s-series Appliances is designed to provide high performance and scalability, supporting expansion and growth of your network infrastructure without sacrificing security.

The IBM s-series is designed to help address the network and security requirements for data center consolidation, rapid services deployment, and aggregation of security services.

- **System and network resiliency:** Carrier-class reliability based on features ranging from redundant hardware and components to Junos software.
- **Interface flexibility:** Flexible I/O configuration and independent I/O scalability to meet the needs of virtually any network environment.
- **Network segmentation:** Security zone, virtual LANs (VLANs), and virtual routers allow administrators to tailor security and networking policies for various internal, external, and demilitarized zone (DMZ) subgroups.
- **Robust routing engine:** Routing engine provides physical and logical separation of data and control planes to allow deployment of consolidated routing and security devices and support the security of routing infrastructures.
- **Broad threat protection:** Integrated security features and services include a multi-gigabit firewall, denial of service, network address translation, and quality of service.

Key prerequisites

Junos Software Operating System V10.1, or later is required.

Planned availability date

May 14, 2010

The IBM Ethernet Appliance products in this announcement are now approved to be sold for connecting to the public telecommunication networks in the following countries:

- Albania
- Ghana
- Netherlands Antilles
- Algeria
- Gibraltar
- New Zealand
- Andorra
- Greenland
- Niger
- Angola
- Grenada
- Nigeria
- Antigua and Barbuda
- Guernsey
- Pakistan
- Argentina
- Guinea-Bissau
- Panama
- Aruba
- Guyana
- Paraguay
- Australia
- Honduras
- Peru
- Bahamas (The)
- Hong Kong
- People's Republic of China
- Bahrain
- India
- Philippines
- Bangladesh
- Isle of Man
- Russia
- Barbados
- Jamaica
- Saint Kitts and Nevis
- Benin
- Japan
- Saint Lucia
- Bermuda
- Jersey
- Saint Pierre and Miquelon
- Bhutan
- Kenya
- Saint Vincent and the Grenadines
- Bolivia
- Laos
- Samoa
- Bosnia and Herzegovina
- Macau (China)
- San Marino
- Botswana
- Macedonia
- Senegal
- British Virgin Islands
- Madagascar
- Serbia
- Brunei
- Malawi
- Seychelles
- Burkina Faso
- Malaysia
- Singapore
- Cameroon
- Maldives
- Sri Lanka
- Canada
- Mauritania
- Swaziland
- Cayman Islands
- Mauritius
- Taiwan
- Chile
- Mayotte
- Tanzania
Description

The IBM s-series Ethernet Appliances is designed to provide a new level of security to business enterprises.

- Scalable multiservices security platform is designed to deliver performance and flexibility to protect high-speed data center network environments
- Network segmentation supports unique security policies to isolate guests and regional servers or databases
- Threat management features on Junos software, including multi-gigabit firewall, IPsec VPN, and DoS support integrated protection of enterprise networks
- Scalable performance helps provide a simple and cost-effective solution to leverage new services
- Data center class hardware design and an OS designed for reliable and resilient network deployments
- High availability (HA) interfaces to help achieve resiliency necessary to address the critical demands of enterprise data centers
- Centralized, policy-based management helps reduce the chance of overlooking security holes by simplifying rollout and network-wide updates
- Virtualization technologies can make it easy for administrators to divide the network into secured segments for additional protection.
- Various HA options offer the best redundant capabilities for any given network
- Rapid deployment features, including Auto Connect VPN and Dynamic VPN services, help reduce the administrative burden associated with widespread IPsec deployments

Based on an innovative Dynamic Services Architecture, the IBM Ethernet Appliance J34S and IBM Ethernet Appliance J36S reset the bar in price and performance for enterprise environments. Each multiservices appliance can support near-linear scalability with each additional Services Processing Card (SPC), enabling the J36S to support up to 30 Gbps of firewall throughput and 175,000 new VPN connections per second. The appliances offer denial of service (DoS), Network Address Translation (NAT), Virtual Private Network (VPN) support, and quality of Service (QoS).
SPCs are designed to support a wide range of services and enabling future support of new capabilities without the need for service-specific hardware. Using SPCs on all services helps avoid idle resources.

**IBM Ethernet Appliance J3xS options:**

**Switch Fabric and Control Board (SCB)**

At the heart of the Dynamic Services Architecture is the SCB. The SCB transforms the chassis from a simple module enclosure into a highly effective mesh network. The purpose of the SCB is to allow all modules in the chassis to send traffic at extremely high bandwidth.

**The Routing Engine (RE)**

The RE is tightly coupled with the functionality of the SCB and can be considered the central nervous system of the architecture. The RE is the control plane of the chassis, and provides overall management and communications to and from system administrators, as well as calculating route tables for routing network traffic.

**Services Processing Card**

As the "brains" behind the IBM s-series services gateways, SPCs are designed to process all available services on the gateway. By eliminating the need for dedicated hardware for specific services or capabilities, no piece of hardware is ever taxed to the limit while other hardware sits idle. All of the processing capabilities of the SPCs are used to support any and all services and capabilities of the gateway. The same SPCs are supported on both the J34S and J36S Ethernet Appliances.

**Note:** A minimum of one NPC and one SPC is required for proper system functionality.

**Network Processing Cards**

To support improved processing performance and flexibility, the IBM J3xS line of services gateways utilize NPCs to distribute inbound and outbound traffic to the appropriate IOCs, apply Quality of Service (QoS), and enforce Denial of Service/Distributed Denial of Service (DoS/DDos) protections. The J36S can be configured to support one to three NPCs, while the J34S can be configured to support one or two NPCs. Adding additional NPCs to these gateways allows organizations to tailor the solution to fit their specific performance requirements.

**Note:** A minimum of one NPC and one SPC is required for proper system functionality.

**Input/Output Cards**

The J3xS line supports a mix of built-in copper, small form factor pluggable (SFP), and high availability (HA) ports. Each J3xS Appliance can be equipped with one or several IOCs, each supporting either 16 gigabit interfaces (16 x 1 copper or fiber Gigabit Ethernet), or 20 gigabit interfaces (2 x 10 Gigabit XFP Ethernet). With the flexibility to add additional IOCs, the J3xS line of appliances can be equipped to support a balance between interfaces and processing capabilities.

**Note:** A minimum of one NPC and one SPC is required for proper system functionality.

**IBM Ethernet Appliance J5xS options:**

**Switch Fabric and Control Board**

At the heart of the Dynamic Services Architecture is the SCB. The SCB transforms the chassis from a simple module enclosure into a highly effective mesh network. The purpose of the SCB is to allow all modules in the chassis to send traffic at extremely high bandwidth.
The Routing Engine

The RE is tightly coupled with the functionality of the SCB and can be considered the central nervous system of the architecture. The RE is the control plane of the chassis, and provides overall management and communications to and from system administrators, as well as calculating route tables for routing network traffic.

Services Processing Card

If the RE is the central nervous system of the chassis, the SPC is the brain. SPCs are blades that provide the capacity to perform the heavy lifting of processing network packets. The chassis must have at least one SPC to operate.

The simplicity of this design is realized when more than one SPC is installed. Rather than the chassis now having two or more "brains", as in traditional network architecture, the addition of a new SPC essentially results in a larger system that can perform many more tasks at a given time.

Input/Output Cards

The chassis slots in the Dynamic Services Architecture are unique in that they are card-agnostic, allowing administrators to configure the architecture up to the limits of the chassis itself. For example, an organization that requires more processing capability, may include more SPCs and fewer IOCs. An Internet service provider, on the other hand, may choose to provide a great deal of I/O for its customer traffic, while needing less raw processing power. As business requirements change, administrators may easily add IOCs and SPCs to reconfigure the architecture as needed.

Based on this agnostic slot design, the IOC can therefore scale independently - the chassis may be equipped with as many IOCs as there are available slots (with at least one slot for the SPC). The dynamic nature of the architecture then automatically maps each session to a SPC in real time as new sessions are received to be processed.

Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at


Product number

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<td>1000Base-SX 550m 850nm SFP</td>
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<td>1000Base-LX 10km 1310nm SFP</td>
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<td>1000Base-LH 70km 1550nm SFP</td>
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<td>10GE SR 300m 1310nm XFP</td>
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<td>10GE LR 10km 1310nm XFP</td>
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<td>10GE ER 40km 1310nm XFP</td>
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<td>S58 Chassis - Spare</td>
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<td>Power Cable - EU VII</td>
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<td>Power Cable - Italy I/3/16</td>
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Publications

Only the Getting Started Guide is shipped as hardcopy with the product. The other publications are available on the documentation CD that accompanies the product.

<table>
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<tr>
<td>IBM Ethernet Appliance J58S Hardware Guide</td>
<td>GA32-0754</td>
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http://www.ibm.com/shop/publications/order

• To directly download publications in PDF format, visit the IBM product support Web site
  http://www.ibm.com/storage/support

• Contact your IBM representative

The IBM Publications Center

Hardcopies of selected publications are available for a fee from the IBM Publications Center, as well as free softcopy publications. The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card or customer number. A large number of publications are available online in various file formats, and they can all be downloaded free of charge.

Publications are shipped with the product and have been revised to reflect this announcement. To directly download publications in PDF format, visit the IBM Publications Center at

http://www.ibm.com/shop/publications/order

Services

Global Technology Services

IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an On Demand Business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or visit

http://www.ibm.com/services/

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit

http://www.ibm.com/services/continuity

For details on education offerings related to specific products, visit


Select your country, and then select the product as the category.

Technical information

Specified operating environment

Physical specifications

4274-S34

Height:                        13.3 cm  (5.25  in)
Depth:                         64.8 cm  (25.5  in)
Width:                         44.5 cm  (17.5  in)
System weight:                 34.1 kg  (75 lb) fully loaded
4274-S36

Height: 22.2 cm (8.75 in)
Depth: 64.8 cm (25.5 in)
Width: 44.5 cm (17.5 in)
System weight: 52.6 kg (115.7 lb) fully loaded

4274-S56

Height: 13.3 cm (5.25 in)
Depth: 64.8 cm (25.5 in)
Width: 44.5 cm (17.5 in)
System weight: 34.1 kg (75 lb) fully loaded

4274-S58

Height: 22.2 cm (8.75 in)
Depth: 64.8 cm (25.5 in)
Width: 44.5 cm (17.5 in)
System weight: 52.6 kg (115.7 lb) fully loaded

To assure installability and serviceability in non-IBM industry-standard racks, review the installation planning information for any product-specific installation requirements.

**Operating environment**

- Operating temperature: 32 to 104° F (0 to 40° C)
- Storage temperature: -40 to 158° F (-40 to 70° C)
- Operating altitude: up to 10,000 ft (3,048 m)
- Non-operating altitude: up to 16,000 ft (4,877 m)
- Relative humidity operating: 5% to 90% (noncondensing)
- Relative humidity non-operating: 0% to 95% (noncondensing)

Product safety/Country testing/Certification:

- IEC 60950-1 (2001) Safety of Information Technology Equipment (with country deviations)
- C-UL to CAN/CSA 22.2 No.60950-1 (First Edition)
- TUV/GS to EN 60950-1, Amendment A1-A4, A11
- CB-IEC60950-1, all country deviations
- CE

Immunity:

- EN-61000-4-2 +A1 +A2 (1995) Electrostatic Discharge
- EN-61000-4-3 +A1+A2 (2002) Radiated Immunity
• EN-61000-4-4 (2004) Electrical Fast Transients
• EN-61000-4-5 (2006) Surge
• EN-61000-4-6 (2007) Immunity to Conducted Disturbances
• EN-61000-4-11 (2004) Voltage Dips and Sags

Environmental

• Reduction of Hazardous Substances (ROHS) 5/6

The IBM Ethernet products in this announcement are not approved to be sold for connecting to the public telecommunication networks in all countries. Homologation certificates and telecommunication certificates and approvals are in place, or are not required, for the following list of countries. For any country not listed below, IBM is not currently in a position to ship to that country due to homologation and or telecommunication activities not being completed for that country. IBM continues working to obtain approval to connect to public telecommunication networks in the currently restricted countries. Availability will be published in the future.

Albania                Ghana           Netherlands Antilles
Algeria                Gibraltar       New Zealand
Andorra                Greenland       Niger
Angola                 Grenada         Nigeria
Anguilla               Guatemala       Oman
Antigua and Barbuda    Guernsey        Pakistan
Argentina              Guinea-Bissau   Panama
Aruba                  Guyana          Paraguay
Australia              Honduras        Peru
Bahamas (The)          Hong Kong       People's Republic of China
Bahrain                India           Philippines
Bangladesh             Isle of Man     Russia
Barbados               Jamaica         Saint Kitts and Nevis
Benin                  Japan           Saint Lucia
Bermuda                Jersey          Saint Pierre and Miquelon
Bhutan                 Kenya           Saint Vincent and the Grenadines
Bolivia                Laos            Sao Tome
Bosnia and Herzegovina Macau (China)   San Marino
Botswana               Macedonia       Senegal
British Virgin Islands Madagascar    Serbia
Brunei                 Malawi          Seychelles
Burkina Faso           Malaysia        Singapore
Cameroon               Maldives        Sri Lanka
Canada                 Mauritania      Swaziland
Cayman Islands         Mauritius       Taiwan
Chile                  Mayotte        Tanzania
Colombia               Mexico          Thailand
Costa Rica             Monaco          Togo
Dominica               Mongolia        Trinidad and Tobago
Dominican Republic     Montserrat      Tunisia
Ecuador                Morocco         Turkey
EEA+                   Mozambique      Turks and Caicos Islands
El Salvador            Myanmar (Burma) Uruguay
French Polynesia       Namibia         USA+
Gambia (The)           Nepal           Vanuatu
Georgia                New Caledonia  Zambia

Note: "EEA+" = EU + EFTA = Austria, Belgium, Bulgaria, Cyprus, Czech Rep., Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, and UK. Oversea areas part of EU: Portugal: Acores, Madeira, Spain: Canarias, France: Guyane, Guadeloupe, Martinique, and Reunion USA+ includes US Territories: Puerto Rico, US Virgin Islands, Northern Mariana, and Guam

In Japan, customers need to notify their telecommunication service provider of their intent to attach any of the networking products in this announcement to the public telephone network. Such notification should include a detailed description of the product to be used, date and time of installation, and a completed public telecommunications networks service request form.
Supported servers

The IBM Ethernet Appliance J34S, J36S, J56S, and J58S are designed to support network connectivity for the following servers:

- IBM Power Systems™
- IBM System p® servers
- IBM System i® servers
- IBM System x® servers

Compatibility

IBM Ethernet Appliance J34S, J36S, J56S, and J58S support the following RFC Compliance and features:

**IEEE Compliance**

- IEEE 802.1AB: Link Layer Discovery Protocol (LLDP)
- IEEE 802.1D-2004: Spanning Tree Protocol (STP)
- IEEE 802.1p: Class-of-service (CoS) prioritization
- IEEE 802.1Q-2006: VLAN tagging
- IEEE 802.1s: Multiple instances of Spanning Tree Protocol (MSTP)
- IEEE 802.1w: Rapid reconfiguration of Spanning Tree Protocol (RSTP)
- IEEE 802.1X: Port-based access control
- IEEE 802.3: 10BASE-T
- IEEE 802.3u: 100BASE-T
- IEEE 802.3ab: 1000BASE-T
- IEEE 802.3z: 1000BASE-X
- IEEE 802.3ae: 10-Gigabit Ethernet
- IEEE 802.3x: Pause Frames/Flow Control
- IEEE 802.3ad: Link Aggregation Control Protocol (LACP)

**RFC Compliance**

- RFC 1122: Host Requirements
- RFC 768: UDP
- RFC 791: IP
- RFC 783: Trivial File Transfer Protocol (TFTP)
- RFC 792: Internet Control Message Protocol (ICMP)
- RFC 793: TCP
- RFC 826: ARP
- RFC 894: IP over Ethernet
- RFC 903: RARP
- RFC 906: TFTP Bootstrap
- RFC 1027: Proxy ARP
- RFC 2068: HTTP server
- RFC 1812: Requirements for IP Version 4 Routers
- RFC 1519: Classless Interdomain Routing (CIDR)
- RFC 1256: IPv4 ICMP Router Discovery (IRDP)
- RFC 1058: RIP v1
- RFC 2453: RIP v2
- RFC 1112: IGMP v1
- RFC 2236: IGMP v2
- RFC 3376: IGMP v3
- RFC 1492: TACACS+
- RFC 2138: RADIUS Authentication
- RFC 2139: RADIUS Accounting
- RFC 2267: Network Ingress Filtering
- RFC 2030: Simple Network Time Protocol (SNTP)
- RFC 854: Telnet client and server
- RFC 951, 1542: BootP
- RFC 2154: RADIUS Authentication, using a secret key
- RFC 2130: RADIUS Accounting
- RFC 2267: Network Ingress Filtering
- RFC 2030: Simple Network Time Protocol (SNTP)
- RFC 2338: VRRP
- RFC 2328: OSPF v2 (Edge-mode)
- RFC 1591: Domain Name System (DNS)
- RFC 2338: VRRP
- RFC 1587: OSPF NSSA Option
- RFC 1765: OSPF Database Overflow
- RFC 2154: RADIUS Authentication, using a secret key
- RFC 2370: OSPF Opaque LSA Option
- RFC 3623: OSPF Graceful Restart
- RFC 2362: PIM-DM (Edge-mode)
- RFC 3569: Draft-ietf-ssm-arch-06.txt PIM-SSM PIM Source Specific Multicast
- RFC 1771: Border Gateway Protocol 4
- RFC 1965: Autonomous System Confederations for BGP
- RFC 2796: BGP Route Reflection (supersedes RFC 1966)
- RFC 1997: BGP Communities Attribute
- RFC 1745: BGP4/IDRP for IP-OSPF Interaction
- RFC 2385: TCP MD5 Authentication for BGPv4
- RFC 2439: BGP Route Flap Damping
- RFC 2918: Route Refresh Capability for BGP-4
- RFC 3392: Capabilities Advertisement with BGP-4
- RFC 2796: Route Reflection
- RFC 4360: BGP Extended Communities Attribute
- RFC 4486: Subcodes for BGP Cease Notification message
- RFC 1195: Use of Open Systems Interconnection (OSI) IS-IS for Routing in TCP/IP and Dual Environments (TCP/IP transport only)
- RFC 2474: DiffServ Precedence, including 8 queues/port
- RFC 2598: DiffServ Expedited Forwarding (EF)
- RFC 2597: DiffServ Assured Forwarding (AF)
- RFC 2475: DiffServ Core and Edge Router Functions
- Draft-ietf-idr-restart-10.txt: Graceful Restart Mechanism for BGP
- Draft-ietf-isis-restart-02: Restart Signaling for IS-IS
- Draft-ietf-bfd-base-05.txt: Bidirectional Forwarding Detection

**Services and manageability**

- Junos Software CLI
- J-Web Device Manager (embedded Web-based management)
- Out-of-band management: Serial; 10/100/1000BASE-T Ethernet
- ASCII configuration file
• Rescue configuration
• Configuration rollback
• Image rollback
• LCD management
• Element management tools: Network and Security Manager
• Proactive services support via Advanced Insight Solutions (AIS)
• SNMP: v1, v2c, v3
• RMON (RFC 2819) Groups 1, 2, 3, 9
• Network Time Protocol (NTP)
• DHCP server
• DHCP relay with Option 82
• RADIUS
• TACACS+
• SSHv2
• Secure copy
• HTTP/HTTPS
• DNS resolver
• Syslog logging
• Environment monitoring
• Temperature sensor
• Config-backup via FTP/secure copy

Network management-MIB support

• RFC 1155: Structure of Management Information (SMI)
• RFC 1157: SNMPv1
• RFC 1905, RFC 1907: SNMP v2c, SMIV2 and Revised MIB-II
• RFC 2570-2575: SNMPv3, user-based security, encryption, and authentication
• RFC 2576: Coexistence between SNMP Version 1, Version 2, and Version 3
• RFC 1212, RFC 1213, RFC 1215: MIB-II, Ethernet-like MIB and traps
• RFC 2578: SNMP Structure of Management Information MIB
• RFC 2579: SNMP Textual Conventions for SMIV2
• RFC 2925: Ping/Traceroute MIB
• RFC 2665: Ethernet-like interface MIB
• RFC 1643: Ethernet MIB
• RFC 1493: Bridge MIB
• RFC 2096: IPv4 Forwarding Table MIB
• RFC 2011: SNMIPv2 for IP using SMIV2
• RFC 2012: SNMIPv2 for transmission control protocol using SMIV2
• RFC 2013: SNMIPv2 for user datagram protocol using SMIV2
• RFC 2863: Interface MIB
• RFC 3413: SNMP Application MIB
• RFC 3414: User-based Security model for SNMPv3
• RFC 3415: View-based Access Control Model for SNMP
• RFC 3621: Power over Ethernet-MIB (Power over Ethernet switches only)
• RFC 1724: RIPv2 MIB
• RFC 2863: Interface Group MIB
• RFC 2932: IPv4 Multicast MIB
• RFC 2787: VRRP MIB
- RFC 1850: OSPFv2 MIB
- RFC 1657: BGP-4 MIB
- RFC 2819: RMON MIB
- RFC 2287: System Application Packages MIB
- RFC 4188: STP and Extensions MIB
- RFC 4363: Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and VLAN extensions
- RFC 2922: LLDP MIB
- Draft-ietf-idr-bgp4-mibv2-02.txt: Enhanced BGP-4 MIB
- Draft-ietf-isis-wg-mib-07
- Draft-blumenthal-aes-usm-08
- Draft-reeder-snmpv3-usm-3desede-00
- Draft-ietf-idmr-igmp-mib-13
- Draft-ietf-idmr-pim-mib-09
- Draft-ietf-bfd-mib-02.txt

Troubleshooting
- Debugging: CLI via console, Telnet, or SSH
- Diagnostics: Show, debug, and statistics commands
- Analyzer session: Ingress and/or egress traffic on multiple source ports monitored to one destination port or VLAN
- Local port and remote VLAN analyzers (up to seven sessions)
- IP tools: Extended ping and trace

Limitations
Noise hazard.

If two or more of the IBM Ethernet Appliance J58S are installed in the same rack, the following notice applies:

Notice: Government regulations (such as those prescribed by OSHA or European Community Directives) may govern noise level exposure in the workplace and may apply to you and your system installation. The actual sound pressure levels in your installation depend upon a variety of factors, including the number of racks in the installation; the size, materials, and configuration of the room; the noise levels from other equipment; the room ambient temperature, and employees' location in relation to the equipment. Further, compliance with such government regulations also depends upon a variety of additional factors, including the duration of employees' exposure and whether employees wear hearing protection. IBM recommends that you consult with qualified experts in this field to determine whether you are in compliance with the applicable regulations.

Planning information
Customer responsibilities
Planning information, including customer responsibilities, physical planning, and installability is available in the specific product planning manuals on the following Web site

http://www.ibm.com/systems/networking

Replacement filters are available by ordering feature codes 6503 (for 4274-S34), 6523 (for 4274-S36), 6623 (for 4274-S56), or 6653 (for 4274-S58). Periodic replacement of the fan filter is required and is the user’s responsibility.

You are responsible for downloading or obtaining from IBM, and installing designated Machine Code (microcode, basic input/output system code (called "BIOS"), utility
programs, device drivers, and diagnostics delivered with an IBM machine) and other software updates in a timely manner from an IBM Internet Web site or from other electronic media, and following the instructions that IBM provides. You may request IBM to install Machine Code changes; however, you may be charged for that service.

**Cable orders**

The media installed in the chassis require appropriate cables for connectivity. Cables must be supplied by the customer. 10 Gbps optical XFP, 10 Gbps optical SFP+, or 1 Gbps optical SFP transceivers require single-mode fiber (SMF) or multimode fiber (MMF) terminating in a LC connector. Refer to the media description for proper cable type.

**Installability**

Hardware installation time for the IBM Ethernet Appliance J34S, IBM Ethernet Appliance J36S, IBM Ethernet Appliance J56S, or IBM Ethernet Appliance J58S is estimated at less than two hours.

**Security, auditability, and control**

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

**Global Technology Services**

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings, for the efficient installation, implementation, and/or integration of this product.

**Terms and conditions**

**Warranty period**

One year

**Warranty service**

If required, IBM provides repair or exchange service depending on the types of warranty service specified for the machine. IBM will attempt to resolve your problem over the telephone, or electronically via an IBM Web site. You must follow the problem determination and resolution procedures that IBM specifies. Scheduling of service will depend upon the time of your call and is subject to parts availability. If applicable to your product, parts considered Customer Replaceable Units (CRUs) will be provided as part of the machine's standard warranty service.

Service levels are response-time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations. Additional charges may apply outside IBM's normal service area. Contact your local IBM representative or your reseller for country- and location-specific information.

**CRU service**

IBM provides replacement CRUs to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM upon your request. CRUs are designated as being either a Tier 1 or a Tier 2 CRU.
**Tier 1 CRU**
Installation of Tier 1 CRUs is your responsibility. If IBM installs a Tier 1 CRU at your request, you will be charged for the installation.

**Tier 2 CRU**
You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge.

Based upon availability, CRUs will be shipped for next business day (NBD) delivery. IBM specifies, in the materials shipped with a replacement CRU, whether a defective CRU must be returned to IBM. When return is required, return instructions and a container are shipped with the replacement CRU, you may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

The following parts have been designated as Tier 1 CRUs:
- Line cards
- Transceivers
- Power cords
- Power supplies
- Grounding kit
- Blank panels for modules and power supplies
- Rack mount kit

**On-site service**
IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose.

The service level is:
- 9 hours per day, Monday through Friday, excluding public or national holidays, next business day response.

**Warranty service upgrades**
During the warranty period, warranty service upgrades provide an enhanced level of On-site Service for an additional charge. Service levels are response-time objectives and are not guaranteed. Refer to the Warranty services section for additional details.

IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM Web site. You must follow the problem determination and resolution procedures that IBM specifies. Scheduling of service will depend upon the time of your call and is subject to parts availability.

**On-site service**
IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose.

The following on-site response-time objectives are available as warranty service upgrades for your machine. Available offerings are:

- 9 hours per day, Monday through Friday, excluding public or national holidays, same business day response. Calls must be received by 12:00 local time in order to qualify for same business day response.
- 24 hours per day, 7 days a week, 6 hour average, same day response.
Customer Replaceable Units (CRUs) may be provided as part of the machine's standard warranty CRU Service, except that you may install a CRU yourself or request IBM installation, at no additional charge, under one of the On-site Service levels specified above. For additional information on the CRU Service, see the warranty information.

**Maintenance services options**

If required, IBM provides repair or exchange service depending on the types of maintenance service specified for the machine. IBM will attempt to resolve your problem over the telephone or electronically, via an IBM Web site. You must follow the problem determination and resolution procedures that IBM specifies. Scheduling of service will depend upon the time of your call and is subject to parts availability. Service levels are response-time objectives and are not guaranteed. The specified level of maintenance service may not be available in all worldwide locations. Additional charges may apply outside IBM's normal service area. Contact your local IBM representative or your reseller for country- and location-specific information. The following service selections are available as maintenance options for your machine type.

**On-site service**

IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose.

Service levels are:

- 9 hours per day, Monday through Friday, excluding public or national holidays, next-business-day response. Calls must be received by 15:00 local time in order to qualify for next-business-day response.
- 24 hours per day, 7 days a week, 6 hour average, same day response.

**Additional reference for Europe**

Refer to the following European documents:

- European Announcement Letter ZS03-0150 for IBM Customer Agreement (ICA)
- European Announcement Letter ZS04-0135 for Enterprise Agreement Contract
- European Announcement Letter ZS98-0118 for ServiceSuite™ Contract

**Warranty service upgrades**

**Usage plan machine**

No

**IBM hourly service rate classification**

Three

When a type of service involves the exchange of a machine part, the replacement may not be new, but will be in good working order.

**Maintenance service offerings**

These machines are eligible under terms and conditions of IBM ServiceElite, the IBM Enterprise Service Agreement (ESA), or the IBM Maintenance Agreement. Consult your IBM representative for details.
**Field-installable features**
Yes

**Model conversions**
No

**Machine installation**
Customer setup. Customers are responsible for installation according to the instructions IBM provides with the machine.

**Graduated program license charges apply**
No

**Licensed machine code**
IBM Machine Code is licensed for use by a customer on the IBM machine for which it was provided by IBM under the terms and conditions of the IBM License Agreement for Machine Code, to enable the machine to function in accordance with its specifications, and only for the capacity authorized by IBM and acquired by the customer. You can obtain the agreement at


IBM may release changes to the Machine Code. IBM plans to make the Machine Code changes available for download from the IBM System Storage technical support Web site

http://www.ibm.com/systems/support/networking

You may also obtain updated code by contacting your IBM representative.

If the machine does not function as warranted and your problem can be resolved through your application of downloadable Machine Code, you are responsible for downloading and installing these designated Machine Code changes as IBM specifies. If you would prefer, you may request IBM to install downloadable Machine Code changes; however, you may be charged for that service.

**Europe Business Partner terms and conditions**
The IBM Ethernet Appliance J34S, IBM Ethernet Appliance J36S, IBM Ethernet Appliance J56S, and IBM Ethernet Appliance J58S:

**Category**
Receive BP base discount Category M.

The products are added to Approval Category M.

For more information, Business Partners should refer to the relevant product exhibits on


**Prices**

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Announcement countries

The IBM Ethernet Appliance products in this announcement are now approved to be sold for connecting to the public telecommunication networks in the following European, Middle Eastern, and African countries:

IBM Ethernet j-type s-series models (4274-S34, 4274-S36, 4274-S56, 4274-S58)

Albania, Algeria, Andorra, Angola, Bahrain, Benin, Bosnia and Herzegovina, Botswana, Burkina Faso, Cameroon, EEA+, French Polynesia, Gambia, Georgia, Ghana, Gibraltar, Greenland, Guernsey, Guinea-Bissau, Isle of Man, Jersey, Kenya, Macedonia, Madagascar, Malawi, Mauritania, Mauritius, Mayotte, Monaco, Morocco, Mozambique, Namibia, New Caledonia, Niger, Nigeria, Oman, Pakistan, Russia, San Marino, Senegal, Serbia, Seychelles, Swaziland, Tanzania, Togo, Tunisia, Turkey, and Zambia

Note: "EEA+" = EU + EFTA = Austria, Belgium, Bulgaria, Cyprus, Czech Rep., Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, and UK. Oversea areas part of EU: Portugal: Acores, Madeira, Spain: Canarias, France: Guyane, Guadeloupe, Martinique, and Reunion

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**Corrections**

**Corrected on July 15, 2011**
The People's Republic of China has been added to the country listing in the Planned
availability and Operating environment sections.