



IBM WebSphere DataPower Service Gateway XG45 delivers on-premise security

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At a glance

WebSphere® DataPower® Service Gateway XG45 is a high-performance hardware appliance that can empower you to:

- Add specialized connectivity, mediation, and security processing to your application infrastructure
- Streamline seemingly complex but highly valuable service-oriented architecture (SOA), XML, and Web 2.0 applications with a specialized, low total-cost-of-ownership, drop-in appliance
- Shorten deployment times when using DataPower configuration-driven simplicity
- Accelerate XML and web services processing with dedicated, high-performance capabilities
- Assist in governing ever-valuable application infrastructure by adopting standardized runtime control and enforcement points through DataPower

Overview

The newest addition to the WebSphere DataPower appliance family, the WebSphere DataPower Service Gateway XG45 empowers you to enhance security for services, applications, and data with customizable, scalable and automated service visibility and governance. WebSphere DataPower XG45 can help you leverage the value of your existing infrastructure investments and help reduce the total cost of ownership for security, mediation, Web 2.0, and web services projects by offering an innovative, pragmatic approach to web services and application delivery as a purpose-built, easy-to-consume, and easy-to-use product.

Features and capabilities include:

- Enables consistent enforcement of security and governance policies in a highly configurable, easy-to-deploy appliance
- Supports HTTP, HTTPS, WebSphere MQ, and WebSphere JMS-based services with optional support for database connectivity
- Allows validation, parsing, and transformation of XML and Simple Object Access Protocol (SOAP) messages, with optional support for any-to-any data parsing and transformation
- Protects against cross-site scripting, SQL injection, and a wide variety of XML threats with rapidly configurable web services and web application security
- Bridges to Web 2.0 technologies with JavaScript™ Object Notation (JSON) filtering and validation support for REST verbs, and converting/bridging of REST and Web services

- Help reduce complexity and lower costs of securing services, data, and applications with scalable, standards-based hardware
- Controls access to applications, services, and data based on customizable roles and rights
- Helps achieve and maintain industry and regulatory compliance with robust data protection, policy enforcement, and auditing capabilities
- Provides enhanced protection of cryptographic keys with optional FIP 140-2 compliant Hardware Security Module
- Helps improve alignment of business and IT with dynamic control of service level management, routing, security, and performance

Feature exchange

Not applicable.

Key prerequisites

- Network interface and network cable
- Network information (IP address, DNS, and Gateway)
- Computer and console with serial port, keyboard, and mouse
- Power requirements per country specifications

Planned availability date

October 14, 2011

Description

New hardware platform for WebSphere DataPower appliances

- 1U high-density rackmount design
- Latest-generation hardware technology that can increase performance and capacity
- Increased serviceability with multiple field-replaceable parts
- Customized intrusion detection handling
- Enhanced LEDs for different hardware components, which provide user feedback
- New hardware diagnostic tool to help identify hardware problems
- Two network I/O modules for increased flexibility and serviceability (four 1-GB ports and two 10-GB ports - XG45 only)

WebSphere DataPower Service Gateway XG45

WebSphere DataPower appliances help simplify, govern, and optimize the delivery of services and applications by providing security, connectivity, gateway, data transformation, and protocol bridging functions. By offering an innovative, pragmatic approach to security, integration, and intelligent application delivery as purpose-built, easy-to-consume, and easy-to-use products, WebSphere DataPower appliances can help you leverage the value of your existing infrastructure investments and help reduce the total cost of ownership for security, integration, Web 2.0, and web services projects.

WebSphere DataPower Appliances deliver common message transformation, integration, and routing functions in a network device, helping to cut operational costs, reduce complexity, and improve performance. By making on demand data integration part of the shared application infrastructure, DataPower appliances are designed to be a game-changing approach for application integration and security. This latest generation of purpose-built hardware appliances includes

increased capacity, flexibility, performance, and serviceability when compared to its predecessors.

The newest addition to the WebSphere DataPower appliance family is the WebSphere DataPower Service Gateway XG45.

Highlights include:

Multiple security mechanisms - Supports multiple authentication and authorization mechanisms

- WS-Security, WS-Security Policy, and eXtensible Access Control Markup Language (XACML)
- SAML 1.0, 1.1, and 2.0
- XML digital signature and encryption
- Integration with Tivoli® Access Manager
- Full support for WS-Proxy validation of Message Transmission Optimization Mechanism (MTOM)-based SOAP messages
- Increased WS-Security interoperability with WebSphere Application Server and Microsoft™ WCF framework

Data transformation and validation

- Native XML Schema and WSDL validation
- XSLT-based transformations
- Any-to-any transformations (requires optional Data Integration Module and WebSphere Transformation Extender Design Studio)

Interoperability

- Flexible subscription support for service metadata stored in external repositories such as WebSphere Service Registry and Repository
- Support for WS-Policy attachments authored within WebSphere Service Registry and Repository
- Out-of-the-box support for Tivoli Access Manager for authentication and authorization
- Full support for WS-Proxy validation of SOAP messages including MTOM-based messages
- Increased WS-Security interoperability with WebSphere Application Server
- Integration with WebSphere Integration Developer for the development and deployment of XSLT transformations
- Integration with WebSphere Application Accelerator for Public Networks for optimal delivery of web and Web 2.0 applications across the public Internet

Broad connectivity

- HTTP/HTTPS support (including SSL termination)
- Support for WebSphere MQ 7, including software-based high availability and MQ Channel exits for increased security
- WebSphere Java™ Messaging Service
- Database connectivity (requires Data Integration Module)

Hardware Security Module

- Optional hardware-based storage of cryptographic key material to meet Federal Information Processing Standard (FIPS) 140-2 with support for Level 2 and Level 3 modes
- Available as factory install

Enhanced manageability

- Simplified backup and restore process
- Java-based appliance management API with support for Jython

Accessibility by people with disabilities

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

http://www.ibm.com/able/product_accessibility/index.html

Reference information

For information on software support for WebSphere DataPower Service Gateway XG45, refer to Software Announcement [211-288](#), dated October 4, 2011.

Product number

Description	Machine type	Model
IBM WebSphere DataPower Service Gateway XG45	7198	32X

Features

Description	Machine	Model	Feature
Hardware Security Module	7198	32X	7302
Cryptographic Accelerator	7198	32X	7312
Optical Transceiver - 10 gig (short)	7198	32X	7410
Optical Transceiver - 10 gig (long)	7198	32X	7412
WebSphere DataPower Basic Enablement	7198	32X	4940
WebSphere DataPower Basic Enablement upgrade	7198	32X	5050
WebSphere DataPower Data Integration Module Preload	7198	32X	4960

Specify features

Two power cords are shipped with each machine, since the IBM® DataPower 7198 contains two power supplies. These features are available for each appliance.

Description	Machine	Model	Feature
Rail Kit	7198	32X	6799
Line cord - 2.8m, 10A/250V, C13 to GB 2099.1 (China)	7198	32X	6210
Line cord - 2.8m, 10A/250V, C13 to AS/NZ 3112 (Australia/NZ)	7198	32X	6211
Line cord - 2.8m, 10A/250V, C13 to IEC 309 Type 2P + Gnd (Europe)	7198	32X	6212
Line cord - 2.8m, 10A/250V, C13 to DK2-5a (Denmark)	7198	32X	6213
Line cord - 2.8m, 10A/250V, C13 to SABS 164 (S Africa)	7198	32X	6214
Line cord - 2.8m, 10A/250V, C13 to BS 1363/A (UK)	7198	32X	6215
Line cord - 2.8m, 10A/250V, C13 to SEV 1011-S24507 (Swiss)	7198	32X	6216
Line cord - 2.8m, 220-240V, C13 to IMQ CEI 23-16 (Italy/Chile)	7198	32X	6217
Line cord - 2.8m, 10A/250V, C13 to SI 32 (Israel)	7198	32X	6218
Line cord - 2.8m, 12A/100V, C13 to KETI (Korea)	7198	32X	6219

Line cord - 2.8m, 10A/250V, C13 to IRAM 2073 (Argentina)	7198	32X	6222
Line cord - 2.8m, 10A/125V, C13 to IEC320 (Brazil)	7198	32X	6223
Line cord - 2.8m 10A/250V, C13(2P+Gnd) (India)	7198	32X	6269
Line cord - 2.8m, 10A/125V, C13 to NEMA 5-15P (US)	7198	32X	6313
Line cord - 2.8m, 12A/100V, C13 to JIS C-8303(Japan)	7198	32X	6314
Line cord - 2.8m, 10A/125V, C13 to CNS 10917-3 (Taiwan)	7198	32X	6386

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=111-153>

Education support

Call IBM IT Education Services at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

Publications

Documentation for the WebSphere DataPower Service Gateway XG45 will be available at the product documentation site on October 14, 2011.

<http://www.ibm.com/software/integration/datapower/library/documentation>

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

<http://www.ibm.com/services/learning/index.html>

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

Technical information

Specified operating environment

Physical specifications

- Height: 4.45 cm (1.75 in)
- Width: 43.8 cm (17.25 in)
- Depth: 63.5 cm (25 in)
- Weight: 15 kg (33 lb)

The WebSphere DataPower Service Gateway XG45 must be installed in an EIA-310-D 48.3 cm (19-inch) rack with at least 71.1 cm (28 in) of depth (from rail flange to flange).

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

Standards

- FCC - Verified to comply with Part 15 of the FCC Rules, Class A
- Canada ICES-003, issue 4, Class A
- UL/IEC 60950-1
- CSA C22.2 No. 60950-1
- NOM-019

Operating environment

- Temperature
 - 10 to 35 degrees C (50 to 95 degrees F) at 0 to 914 m (0 to 3,000 ft)
 - 10 to 32 degrees C (50 to 90 degrees F) at 914 to 2,133 m (3,000 to 7,000 ft)
- Powered off: 10 to 43 degrees C (50 to 109.4 degrees F), maximum altitude: 2133.6 m (7,000 ft)
- Relative humidity: 8% to 80%

Shipping environment

- Temperature: -40 to 60 degrees C (-40 to 140 degrees F)
- Relative humidity: 8% to 80%

Electrical power

100 to 127 or 200 to 240 V ac at 50 Hz or 60 Hz

Power usage:

10 A for 120 V ac

5 A for 220 V ac

The WebSphere DataPower Service Gateway XG45 contains two 650-watt power modules that operate at 100 to 127 V ac or 200 to 240 V ac at 50 or 60 Hz.

Both power supply modules must be connected to the same power source to prevent ground voltage potential difference between the two power modules.

Planning information

Customer responsibilities

The WebSphere DataPower Service Gateway XG45 is designated for customer setup. Customer setup instructions are shipped with the product.

Cable orders

The WebSphere DataPower Service Gateway XG45 contains one 2x10 GbE and one 4x1 GbE connection. The RJ-45 connectors provide a 10/100/1000 Base-T interface (either at half-duplex or full-duplex) for connecting twisted-pair cable to the Ethernet network. Cabling is not included with the appliance.

To connect the Ethernet interface to a repeater or switch, use an unshielded twisted pair (UTP) cable with RJ-45 connectors at both ends.

- For 100 Mbps or higher operation, Category 5 cabling must be used.
- For 10 Mbps operation, Category 3, or better cabling, must be used.

The provided SFP+ connectors allow for three options:

- 10GBASE-SR transceivers (for 300 m multimode fiber)
- 10GBASE-LR transceivers (for 10 Km singlemode fiber)
- 10GBASE-Cu direct attach twinaxial cables, up to 10 m

The WebSphere DataPower Service Gateway XG45 contains a single RS-232c serial port connection. The RJ45 connector provides a 9600 baud asynchronous serial interface for connecting a serial cable to a console terminal (typically a terminal emulator running on an IBM PC). A 6-foot-long "NULL modem" cable, with one RJ45 connector and one female DB-9 connector, is provided with the appliance for this purpose. The terminal serial parameters should be set to 9600 baud, no parity, 1 stop bit, XON/XOFF handshaking.

Installability

The WebSphere DataPower Service Gateway XG45 requires approximately 30 minutes for installation. Installation includes unpacking, rack-mounting, connecting network and console cables, and powering on the system. Additional time is required to configure the software.

Packaging

Each WebSphere DataPower Service Gateway XG45 is shipped in a single package.

- Single pack dimensions: 90 x 64 x 30 cm (35.5 x 25.5 x 12 in)
- Single pack weight: 25 kg (55.1 lb)

The WebSphere DataPower Service Gateway XG45 carton contains:

- WebSphere DataPower Service Gateway XG45
- Two power cords
- Installation Guide
- Quick Start Guide
- Safety Pointer sheet
- Doc Browser CD-ROM
- Resource CD (model specific)
- Warranty flyer
- Console serial cable
- Rack-mount kit, including two rack power cords

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.

Terms and conditions

IBM Global Financing

Yes

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 website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. 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 the normal IBM service area. Contact your local IBM representative or your reseller for country-specific 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 (mandatory) or a Tier 2 (optional) CRU.

Tier 1 (mandatory) CRU

Installation of Tier 1 CRUs, as specified in this announcement, is your responsibility. If IBM installs a Tier 1 CRU at your request, you will be charged for the installation.

Tier 2 (optional) 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:

- Hard disk drive
- Fan
- Ethernet modules
- Power cord
- Power supply
- Network modules
- Rack mounting kit

CRU and On-site Service

At IBM's discretion, you will receive specified CRU service, or 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 level is Warranty -- Nine hours per day, Monday through Friday, excluding holidays, next business day response. Calls must be received by 5 pm local time in order to qualify for next business day response.

Warranty service

IBM is now shipping machines with selected non-IBM parts that contain an IBM field replaceable unit (FRU) part number label. These parts are to be serviced during the IBM machine warranty period. IBM is covering the service on these selected non-IBM parts as an accommodation to their customers, and normal warranty service procedures for the IBM machine apply.

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. See the Warranty services section for additional details.

IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts.

Maintenance service options

CRU and On-site Service

At IBM's discretion you will receive CRU service or 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:

- Nine hours per day, Monday through Friday, excluding holidays, next business day response
- Twenty-four hours per day, 7 days a week, 4-hour average 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 the CRU and On-site Service level specified above. For additional information on the CRU Service, see the warranty information.

Maintenance services

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 website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines on-site service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts.

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 the normal IBM service area. Contact your local IBM representative or your reseller for country-specific 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:

- Nine hours per day, Monday through Friday, excluding holidays, NBD response
- Twenty-four hours per day, 7 days a week, 4-hour average response

Customer Replaceable Unit (CRU) Service

If your problem can be resolved with a CRU (for example, keyboard, mouse, speaker, memory, or hard disk drive), and depending upon the maintenance service offerings in your geography, IBM will ship the replacement CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM upon your request.

Based upon availability, CRUs will be shipped for 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, 1) return instructions and a container are shipped with the replacement CRU, and 2) 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.

CRUs may be provided as part of the machine's standard maintenance service except that you may install a CRU yourself or request IBM installation, at no additional charge, under the type of maintenance service designated for your machine.

CRU and Customer Carry-In or Mail-In Service

At IBM's discretion you will receive CRU service or you will deliver or mail, as IBM specifies (prepaid, unless IBM specifies otherwise) the failing machine suitably packaged to a location IBM designates. After IBM has repaired or exchanged the machine, IBM will make it available for your collection or, for mail-in service, IBM will return it to you at IBM's expense, unless IBM specifies otherwise. You are responsible for the subsequent installation and verification of the machine.

CRU and Machine Exchange Service

At IBM's discretion you will receive CRU service or IBM will initiate shipment of a replacement machine to your location. You are responsible for its installation and verification of operation. You must pack the failed machine into the shipping container that contained the replacement machine and return the failed machine to IBM. Transportation charges, both ways, are paid by IBM. You may be charged for the replacement machine if IBM does not receive the failed machine within 15 days of your receipt of the replacement.

Non-IBM parts service

Under certain conditions, IBM provides services for selected non-IBM parts at no additional charge for machines that are covered under warranty service upgrades or maintenance services.

This service includes hardware problem determination (PD) on the non-IBM parts (for example, adapter cards, PCMCIA cards, disk drives, memory) installed within IBM machines and provides the labor to replace the failing parts at no additional charge.

If IBM has a Technical Service Agreement with the manufacturer of the failing part, or if the failing part is an accommodations part (a part with an IBM FRU label), IBM may also source and replace the failing part at no additional charge. For all other non-IBM parts, customers are responsible for sourcing the parts. Installation labor is

provided at no additional charge, if the machine is covered under a warranty service upgrade or a maintenance service.

Warranty service upgrades

Usage plan machine

No

IBM hourly service rate classification

Not applicable.

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.

Field-installable features

No

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 internal code and licensed machine code

This product does not contain Licensed Internal Code or Licensed Machine Code.

Separately Licensed Code

The products specified below include code that is separately licensed.

Machine using Separately Licensed Code: 7198-32X

Separately licensed code is licensed for use by a customer on the IBM machine for which it was provided under the terms and conditions of the license agreement provided with the code, to enable the machine to function in accordance with its specifications, and only for the associated capacity or capability authorized by IBM and acquired by the customer.

For license information, refer to Software Announcement [211-288](#), dated October 4, 2011.

Educational allowance

Not applicable.

Pricing

Product charges

With each WebSphere DataPower Appliance 7198 acquired, IBM includes one year of appliance support consisting of 9 hours per day, Monday through Friday, excluding holidays, NBD response. The initial period of maintenance can be upgraded by the purchase of warranty service upgrade or extended by the purchase of a renewal option, if available.

Description	Machine	
	type	Model
WebSphere DataPower Service Gateway XG45	7198	32X

Features

Description	Machine	Model	Feature
Hardware Security Module	7198	32X	7302
Cryptographic Accelerator Card	7198	32X	7312
Optical Transceiver - 10 gig (short)	7198	32X	7410
Optical Transceiver - 10 gig (long)	7198	32X	7412
WebSphere DataPower Basic Enablement	7198	32X	4940
WebSphere DataPower Basic Enablement upgrade	7198	32X	5050
WebSphere DataPower Data Integration Module Preload	7198	32X	4960

Specify features

Description	Machine	Model	Feature
Rail Kit	7198	32X	6799
Line cord - 2.8m, 10A/250V, C13 to GB 2099.1 (China)	7198	32X	6210
Line cord - 2.8m, 10A/250V, C13 to AS/NZ 3112 (Australia/NZ)	7198	32X	6211
Line cord - 2.8m, 10A/250V, C13 to IEC 309 Type 2P + Gnd (Europe)	7198	32X	6212
Line cord - 2.8m, 10A/250V, C13 to DK2-5a (Denmark)	7198	32X	6213
Line cord - 2.8m, 10A/250V, C13 to SABS 164 (S Africa)	7198	32X	6214
Line cord - 2.8m, 10A/250V, C13 to BS 1363/A (UK)	7198	32X	6215
Line cord - 2.8m, 10A/250V, C13 to SEV 1011-S24507 (Swiss)	7198	32X	6216

Line cord - 2.8m, 220-240V, C13 to IMQ CEI 23-16 (Italy/Chile)	7198	32X	6217
Line cord - 2.8m, 10A/250V, C13 to SI 32 (Israel)	7198	32X	6218
Line cord - 2.8m, 12A/100V, C13 to KETI (Korea)	7198	32X	6219
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Line cord - 2.8m 10A/250V, C13(2P+Gnd) (India)	7198	32X	6269
Line cord - 2.8m, 10A/125V, C13 to NEMA 5-15P (US)	7198	32X	6313
Line cord - 2.8m, 12A/100V, C13 to JIS C-8303(Japan)	7198	32X	6314
Line cord - 2.8m, 10A/25V, C13 to CNS 10917-3 (Taiwan)	7198	32X	6386

Feature Install Summary

Machine Type	Feature number	Field install only	Plant install only	MES removal charge	MES add charge	Cables required
7198	7302	N	Y	N	N	N
7198	7312	N	Y	N	N	N
7198	7410	N	Y	N	N	N
7198	7412	N	Y	N	N	N
7198	4940	N	N	N	N	N
7198	5050	Y	N	N	N	N
7198	4960	N	N	N	N	N
7198	6799	N	Y	N	N	N
7198	6210	N	Y	N	N	N
7198	6211	N	Y	N	N	N
7198	6212	N	Y	N	N	N
7198	6213	N	Y	N	N	N
7198	6214	N	Y	N	N	N
7198	6215	N	Y	N	N	N
7198	6216	N	Y	N	N	N
7198	6217	N	Y	N	N	N
7198	6218	N	Y	N	N	N
7198	6219	N	Y	N	N	N
7198	6222	N	Y	N	N	N
7198	6223	N	Y	N	N	N
7198	6269	N	Y	N	N	N
7198	6313	N	Y	N	N	N
7198	6314	N	Y	N	N	N
7198	6386	N	Y	N	N	N

Alternative and maintenance service

ServicePac prices

For ServiceElect (ESA) maintenance service charges, contact IBM Global Services at 888-IBM-4343 (426-4343).

IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

<http://www.ibm.com/financing>

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<http://www.ibm.com/legal/us/en/>

For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

<http://www.ibm.com/planetwide/us/>

Corrections

(Corrected on October 17, 2011)

Fixed trademarks.