

Hybrid Mesh Network Security

16 April 2026

CHECK POINT FIREWALL 19000 AND 29000 APPLIANCES

RR1-CP-15, RR1-CP-25, RR1-CP-10, and RR1-CP-20

Getting Started Guide



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Important Information



Latest Software

We recommend that you install the most recent software release to stay up-to-date with the latest functional improvements, stability fixes, security enhancements and protection against new and evolving attacks.



Certifications

For third party independent certification of Check Point products, see the Check Point Certifications page.



Check Point Check Point Firewall 19000 and 29000 Appliances Getting Started Guide

For more about this release, see the home page.



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Check Point is engaged in a continuous effort to improve its documentation.
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Revision History

Date	Description
01 December 2024	Updated: ■ *"Mounting the Appliances in a Rack" on page 35* ■ *"19000 / 29000 Appliances Hardware" on page 46* ■ *"DC Power Connections" on page 60*
11 July 2024	Updated: ■ *"System LEDs" on page 51*
09 July 2024	Added links to QR code videos in the HTML version of this guide: ■ *"Configuring Appliances" on page 39*
19 February 2024	Updated for 19100 Appliances
03 January 2024	Updated the Safety, Environmental, and Electronic Emissions Notices in German and French: ■ *"Sicherheits-, Umwelt- und EMV-Hinweise" on page 14* ■ *"Remarques relatives à la sécurité, l'environnement et les émissions électroniques" on page 21*
31 December 2023	Improved formatting and layout
04 December 2023	Updated: ■ *"Front Panel LEDs" on page 49*
23 November 2023	Updated: ■ *"Configuring Appliances" on page 39* ■ *"Support" on page 66*
13 November 2023	Added: ■ *"AC Power Cords" on page 61*
23 October 2023	First release of this document

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Safety, Environmental, and Electronic Emissions Notices

Read the following warnings before setting up or using the appliance.

Warning - Do not block air vents. A minimum 1/2-inch clearance is required.

Warning - Many components described in this document can be damaged by Electrostatic Discharge (ESD). Follow the precautions described here and before specific procedures detailed in the document to protect static-sensitive components from ESD-related damage.



The machine can only be used in a restricted access location and must be installed and maintained by a skilled person.

The device can only be used in a fixed location such as a lab or a machine/server room. When you install the device, ensure that the protective earthing connection of the socket-outlet is verified by a skilled person.

Before you install or remove a chassis, or work near power supplies, turn off the power and unplug the power cord.

To prevent damage to any system board, it is important to handle it with care. The following measures are generally sufficient to protect your equipment from static electricity discharge:

- This equipment must be grounded.
- When handling the board, use a grounded wrist strap designed for static discharge elimination.
- Touch a grounded metal object before removing the board from the antistatic bag.
- Handle the board by its edges only. Do not touch its components, peripheral chips, memory modules or gold contacts.
- When handling memory modules, avoid touching the gold edge fingers.
- Restore the communications appliance system board and peripherals back into the antistatic bag when they are not in use or not installed in the chassis. Some circuitry on the system board can continue operating even though the power is switched off.
- Disconnect the system board power supply from its power source before you connect or disconnect cables or install or remove any system board components. Failure to do this can result in personnel injury or equipment damage.
- Avoid short-circuiting the lithium battery; this can cause it to superheat and cause burns if touched.
- Class 1 laser product warning - A totally enclosed laser system containing a class 1 laser.
- Product shall be used with Class 1 laser device modules.

This device is not intended for use in the direct field of view at visual display workplaces. To avoid incommoding reflexions at visual display workplaces this device must not be placed in the direct field of view.

Lithium Battery Caution

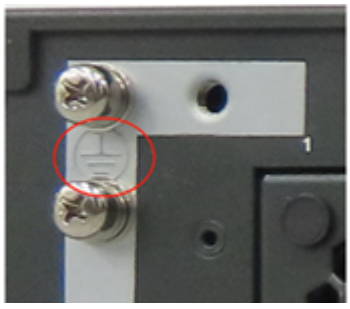
- There is a risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the manufacturer's instructions.
- Installation only by a skilled person who knows all Installation and Device Specifications which are to be applied.
- Do not carry the handle of power supplies when moving to another place.
- Please conform to your local laws and regulations regarding safe disposal of lithium battery.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment can result in an explosion or the leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

Warning - DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
DO NOT DISASSEMBLE IT OR ATTEMPT TO RECHARGE IT OUTSIDE THE SYSTEM.

Warning - Class I Equipment. This equipment must be earthed. The power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltages on accessible metal parts.

Electrical Safety Instructions

Before turning on the device, ground the grounding cable of the equipment. Proper grounding is very important to protect the equipment against the harmful effects of external noise and to reduce the risk of electrocution in the event of a lightning strike. To uninstall the equipment, disconnect the ground wire after turning off the power. A ground wire is required and the part connecting the conductor must be greater than 6 AWG.



ITE Room Warning

Suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75.

Rack Mount Instructions

The following or similar rack-mount instructions are included with the installation instructions:

1. Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature specified by the manufacturer.
2. Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
3. Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
4. Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
5. Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

For California:

Perchlorate Material - special handling may apply. See http://www.dtsc.ca.gov/hazardouswaste/perchlorate

The foregoing notice is provided in accordance with California Code of Regulations Title 22, Division 4.5, Chapter 33. Best Management Practices for Perchlorate Materials. This product, part, or both may include a lithium manganese dioxide battery which contains a perchlorate substance.

Proposition 65 Chemical

Chemicals identified by the State of California, pursuant to the requirements of the California Safe Drinking Water and Toxic Enforcement Act of 1986, California Health & Safety Code s. 25249.5, et seq. ("Proposition 65"), that is "known to the State to cause cancer or reproductive toxicity" (see http://www.calepa.ca.gov)

WARNING:

Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.

Caution!

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Caution!

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

Information to user:

The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

CE (European Union (EU) Electromagnetic Compatibility Directive)

This device is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility Directive (2014/30/EU).

The above product conforms with Low Voltage Directive 2014/35/EU and complies with the requirements relating to electrical equipment designed for use within certain voltage limits.

Federal Communications Commission (FCC) statement for a Class A digital device or peripheral

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit that is different from the one to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

ICES (Canadian Department Compliance Statement)

This Class A digital apparatus complies with Canadian ICES-003.

VCCI Compliance Statement

This section provides the compliance statement for the Voluntary Control Council for Interference by Information Technology Equipment (VCCI), which governs radio frequency emissions in Japan.

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 VCCI-A

BSMI Taiwan Statement

警告：為避免電磁干擾，本產品不應安裝或使用於住宅環境。



Product Disposal

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office or your household waste disposal service.

Complies with FDA performance standards for laser products except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Sicherheits-, Umwelt- und EMV-Hinweise

Lesen Sie die folgenden Warnhinweise durch, bevor Sie das Gerät einrichten oder verwenden.

- **Achtung** - Halten Sie die Belüftungsöffnungen frei. Es ist ein Mindestabstand von 1,3 cm einzuhalten.
- **Achtung** - Viele in diesem Dokument beschriebene Komponenten können durch elektrostatische Entladung (ESD) beschädigt werden. Befolgen Sie die hier beschriebenen Vorsichtsmaßnahmen und vor bestimmten Verfahren, die in dem Dokument beschrieben werden, um elektrostatisch empfindliche Komponenten vor ESD-bedingten Schäden zu schützen.



Das Gerät darf nur an einem Ort mit beschränktem Zugang verwendet werden und muss von einer fachkundigen Person installiert und gewartet werden.

Das Gerät kann nur an einem festen Standort verwendet werden, z. B. in einem Labor oder einem Maschinen-/Serverraum. Wenn Sie das Gerät installieren, achten Sie darauf, dass die Schutzerdung der Steckdose von einer fachkundigen Person überprüft wird.

Bevor Sie ein Gehäuse aufsetzen oder entfernen oder in der Nähe einer Stromquelle arbeiten, schalten Sie den Strom aus und ziehen Sie das Netzkabel ab.

Um Beschädigungen der Systemplatine zu vermeiden, müssen Sie diese mit Vorsicht behandeln. Die folgenden Maßnahmen sind im Allgemeinen ausreichend, um Ihre Geräte vor statischen Entladungen zu schützen:

- Dieses Gerät muss geerdet werden.
- Tragen Sie beim Umgang mit der Platine eine Erdungsmanschette, die zur Vermeidung statischer Entladungen entwickelt wurde.
- Fassen Sie vor dem Entnehmen der Platine aus der antistatischen Verpackung einen geerdeten Metallgegenstand an.
- Berühren Sie die Platine nur an den Kanten. Berühren Sie keine Komponenten der Platine, Peripheriebaugruppen, Speichermodule oder goldenen Kontakte.
- Vermeiden Sie beim Umgang mit Speichermodulen die Berührung der goldenen Kontakte.
- Verwahren Sie die Systemplatine des Kommunikationsgeräts und die Peripheriemodule wieder in der antistatischen Verpackung, wenn sie nicht benutzt oder in das Gehäuse eingebaut werden. Einige Schaltkreise auf der Systemplatine bleiben möglicherweise auch nach dem Ausschalten der Stromversorgung in Betrieb.
- Trennen Sie das Netzteil der Systemplatine von der Stromversorgung, bevor Sie Kabel anschließen oder trennen oder Systemplatinenkomponenten installieren oder entfernen. Bei Zuwiderhandeln besteht Verletzungsgefahr und die Gefahr von Sachschäden am Gerät.
- Vermeiden Sie einen Kurzschluss der Lithiumbatterie. Sie könnte sonst überhitzen und bei Berührung Verbrennungen verursachen.
- Laserproduktwarnung Klasse 1 - Dieses vollständig geschlossene Lasersystem enthält einen Laser der Klasse 1.
- Das Produkt muss mit Lasermodulen der Klasse 1 verwendet werden.

Das Gerät ist nicht zur Verwendung im direkten Blickfeld von Arbeitsplätzen mit visueller Anzeige vorgesehen. Um störende Reflexionen an Arbeitsplätzen mit visueller Anzeige zu vermeiden, darf das Gerät nicht im direkten Blickfeld platziert werden.

Sicherheitshinweise Lithiumbatterien

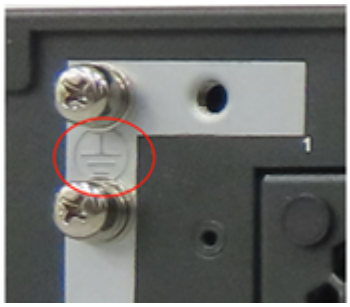
- Es besteht Explosionsgefahr, wenn die Batterie durch einen falschen Typ ersetzt wird.
- GEBRAUCHTE BATTERIEN SIND DEN HERSTELLERANWEISUNGEN ENTSPRECHEND ZU ENTSORGEN.
- Installation nur durch eine fachkundige Person, die alle einzuhaltenden Installations- und Gerätespezifikationen kennt.
- Tragen Sie das Gerät nicht am Griff der Stromversorgung, wenn Sie es an einen anderen Ort bringen.
- Bitte beachten Sie die örtlichen Gesetze und Vorschriften zur sicheren Entsorgung von Lithiumbatterien.
- Die Entsorgung einer Batterie in Feuer oder einem heißen Ofen oder die mechanische Zerkleinerung oder das Zerschneiden einer Batterie kann zu einer Explosion führen.
- Das Aufbewahren einer Batterie in einer Umgebung mit extrem hohen Temperaturen kann zu einer Explosion oder zum Auslaufen von entflammbarer Flüssigkeit oder Gas führen.
- Eine extrem niedrigem Luftdruck ausgesetzte Batterie kann zu einer Explosion oder zum Auslaufen von entflammbarer Flüssigkeit oder Gas führen.

Achtung - WENN DIE BATTERIE NICHT ORDNUNGSGEMÄSS AUSGETAUSCHT WIRD, BESTEHT EXPLOSIONSGEFAHR. NUR GEGEN EINE GLEICHE BATTERIE ODER EINEN GLEICHWERTIGEN BATTERIETYP GEMÄSS HERSTELLEREMPFEHLUNG AUSTAUSCHEN. GEBRAUCHTE BATTERIEN SIND DEN HERSTELLERANWEISUNGEN ENTSPRECHEND ZU ENTSORGEN. ZERLEGEN SIE ES NICHT UND VERSUCHEN SIE NICHT, ES AUSSERHALB DES SYSTEMS AUFZULADEN.

Warnung - Geräte der Klasse I. Dieses Gerät muss geerdet sein. Der Netzstecker muss an eine ordnungsgemäß installierte Schutzkontaktsteckdose angeschlossen werden. Eine unsachgemäß installierte Steckdose kann gefährliche Spannungen auf zugängliche Metallteile übertragen.

Sicherheitshinweise Elektrik

Erden Sie vor dem Einschalten des Geräts das Erdungskabel des Geräts. Eine ordnungsgemäße Erdung ist sehr wichtig, um das Gerät vor schädlichen Einflüssen durch externe Störungen zu schützen und das Risiko eines Stromschlags im Falle eines Blitzschlags zu verringern. Um das Gerät zu deinstallieren, trennen Sie den Erdungsdraht nach dem Ausschalten der Stromversorgung ab. Ein Erdungsdraht ist erforderlich, und der Teil, der den Leiter verbindet, muss größer als 6 AWG sein.



Warnung IT-Raum

Geeignet für die Installation in IT-Räumen in Übereinstimmung mit Artikel 645 des National Electrical Code und NFPA 75.

Anweisungen zur Rackmontage

Die folgenden oder ähnliche Anweisungen zur Rackmontage sind in den Installationsanweisungen enthalten:

1. Erhöhte Betriebstemperatur - Bei Installation in einer geschlossenen oder Mehrfachgeräte-Rack-Baugruppe kann die Betriebsumgebungstemperatur der Rackumgebung höher als die Raumtemperatur sein. Deshalb sollte darauf geachtet werden, das Gerät in einer Umgebung zu installieren, die kompatibel zu der vom Hersteller angegebenen maximalen Umgebungstemperatur ist.
2. Reduzierter Luftstrom - Die Installation des Geräts in einem Rack sollte so erfolgen, dass die Luftstrommenge, die für den sicheren Betrieb des Geräts erforderlich ist, nicht beeinträchtigt wird.
3. Mechanische Belastung - Die Montage des Geräts im Rack sollte so erfolgen, dass bei einer ungleichmäßigen mechanischen Belastung keine gefährliche Betriebsbedingung entstehen kann.
4. Stromkreisüberlastung - Der Anschluss des Geräts an den Speisestromkreis und die Wirkung, die ein Überlasten der Stromkreise auf das Überstromschutz-Gerät und die Speisestromkreisverkabelung haben kann, sollten sorgfältig geprüft und berücksichtigt werden. Beim Berücksichtigen dieses Aspekts sollten die Lastangaben auf dem Leistungsschild des Geräts sorgfältig geprüft werden.
5. Zuverlässige Erdung - Ausrüstung, die in Racks montiert ist, muss zuverlässig geerdet sein. Besonders müssen hierbei die Stromanschlussleitungen und weniger die direkten Verbindungen zum Abzweigstromkreis beachtet werden (z. B. durch die Verwendung von Adapterleisten).

Für Kalifornien:

Perchlorate - möglicherweise ist eine spezielle Handhabung erforderlich. Siehe http://www.dtsc.ca.gov/hazardouswaste/perchlorate

Der vorangestellte Hinweis erfolgt in Übereinstimmung mit dem California Code of Regulations Title 22, Division 4.5, Chapter 33. Bewährte Praktiken für den Umgang mit Perchloraten. Dieses Produkt oder Bestandteile dieses Produkts enthalten möglicherweise eine Lithium-Mangandioxid-Batterie, in der Perchlorate enthalten sind.

Proposition 65-Chemikalie

Chemikalien, die vom Bundesstaat Kalifornien laut den Anforderungen des California Safe Drinking Water and Toxic Enforcement Act of 1986, California Health & Safety Code s. 25249.5 ff. („Proposition 65“) als „nach Kenntnis der Regierung krebserregend oder reproduktionstoxisch“ ausgewiesen sind (siehe http://www.calepa.ca.gov)

ACHTUNG:

Beim Umgang mit dem Kabel an diesem Produkt kommen Sie mit Blei in Kontakt. Diese Chemikalie ist dem Bundesstaat Kalifornien als Verursacher von Krebs, Geburtsschäden oder anderen Fortpflanzungsschäden bekannt. Nach der Berührung die Hände waschen.

Vorsicht!

Sämtliche Änderungen oder Modifikationen, die nicht ausdrücklich in der Garantieerklärung dieses Geräts gestattet werden, führen möglicherweise zum Erlöschen der Betriebserlaubnis des Benutzers.

Dieses Gerät ist mit Part 15 der FCC Rules konform. Der Betrieb ist unter den folgenden zwei Bedingungen zulässig: (1) Das Gerät darf keine schädlichen Interferenzen verursachen und (2) das Gerät muss jede Art von Interferenz, selbst wenn diese Betriebsstörungen verursachen können, tolerieren können.

Vorsicht!

Der Hersteller übernimmt keine Verantwortung für Radio- oder Fernsehsignalstörungen, die durch nicht genehmigte Modifikationen des Geräts auftreten. Derartige Modifikationen könnten zum Erlöschen der Betriebserlaubnis des Benutzers führen.

Informationen für den Benutzer:

Das Betriebshandbuch oder die Bedienungsanleitung eines Geräts mit beabsichtigter oder nicht beabsichtigter Strahlungsquelle muss einen Warnhinweis für den Benutzer enthalten, dass Änderungen oder Modifikationen, die nicht ausdrücklich von der für die Normenkonformität zuständigen Partei gestattet werden, möglicherweise zum Erlöschen der Betriebserlaubnis des Benutzers führen. Sofern das Handbuch nur in einer papierlosen Form, z. B. auf einer CD-ROM oder über das Internet, bereitgestellt wird, können die diesem Abschnitt zufolge erforderlichen Informationen in dieser alternativen Form in das Handbuch aufgenommen werden, sofern angemessen davon ausgegangen werden kann, dass der Benutzer auf die Informationen in dieser Form zugreifen kann.

CE (Richtlinie der Europäischen Union (EU) bezüglich elektromagnetischer Verträglichkeit)

Hiermit wird erklärt, dass dieses Gerät mit den Auflagen der Richtlinie des Europäischen Rates bezüglich zur der Angleichung der Rechtsvorschriften der Mitgliedstaaten im Hinblick auf die Richtlinie über elektromagnetische Verträglichkeit (2014/30/EU) konform ist.

Das genannte Produkt ist mit der Niederspannungsrichtlinie (2014/35/EU) konform und erfüllt die Auflagen betreffend elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen.

Erklärung gemäß Federal Communications Commission (FCC) für ein digitales Gerät oder Peripheriegerät der Klasse A

Dieses Gerät wurde geprüft und als mit den ein digitales Gerät der Klasse A gemäß Part 15 der FCC Rules geltenden Grenzwerten konform befunden. Die Grenzwerte sollen einen angemessenen Schutz gegen schädliche Interferenzen durch Anlagen in Wohnräumen bieten. Dieses Gerät generiert und verwendet Hochfrequenzenergie, kann Hochfrequenzenergie abstrahlen und, wenn es nicht gemäß den Anweisungen installiert und verwendet wird, Störungen in der Funkkommunikation verursachen. Es wird jedoch nicht garantiert, dass bei einer bestimmten Installation keine Störungen auftreten. Wenn dieses Gerät den Radio- oder Fernsehempfang stört, was durch Aus- und Einschalten des Geräts festgestellt werden kann, sollte der Benutzer versuchen, die Störung durch eine oder mehrere der folgenden Maßnahmen zu beheben:

- Neuausrichten oder Umpositionieren der Empfangsantenne.
- Vergrößern des Abstands zwischen Gerät und Empfänger.
- Anschließen des Geräts an einen anderen Stromkreis als den, an den der Empfänger angeschlossen ist.
- Lassen Sie sich vom Händler oder einem erfahrenen Radio- bzw. Fernsehtechniker beraten.

ICES (Konformitätserklärung Kanada)

Dieses digitale Gerät der Klasse A ist mit der kanadischen Richtlinie ICES-003 konform.

VCCI-Konformitätserklärung

Dieser Absatz umfasst die Konformitätserklärung für den Voluntary Control Council for Interference by Information Technology Equipment (VCCI), der die Funkwellenemissionen in Japan regelt.

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 VCCI-A



Produktentsorgung

Dieses Symbol auf dem Produkt oder dessen Verpackung gibt an, dass dieses Produkt nicht zusammen mit dem Hausmüll entsorgt werden darf. Es obliegt Ihrer Verantwortung, das Gerät an einer entsprechenden Stelle für die Entsorgung oder Wiederverwertung von Elektrogeräten aller Art abzugeben. Die separate Sammlung und das Recyceln Ihrer alten Elektrogeräte zum Zeitpunkt ihrer Entsorgung trägt zum Schutz der natürlichen Ressourcen bei und gewährleistet, dass Sie auf eine Art und Weise verwertet werden, die keine Gefährdung für die Gesundheit von Mensch und Umwelt darstellt. Weitere Informationen darüber, wo Sie alte Elektrogeräte zum Recyceln abgeben können, erhalten sie bei den örtlichen Behörden oder dem für Sie zuständigen Abfallwirtschaftsunternehmen.

Remarques relatives à la sécurité, l'environnement et les émissions électroniques

Avant de mettre en place ou d'utiliser l'appareil, veuillez lire les avertissements suivants.

- **Avertissement** : ne pas obturer les aérations. Il faut laisser au moins 1,27 cm d'espace libre.
- **Avertissement** - Un grand nombre des composants décrits dans ce document peuvent être endommagés par Décharge Électrostatique (ESD). Veuillez respecter les précautions décrites ici et avant toute procédure spécifique détaillée dans ce document afin de protéger les composants sensibles à électricité statique contre tout dommage par ESD.



La machine ne peut être utilisée que dans un endroit à accès restreint et doit être installée et entretenue par une personne qualifiée.

L’appareil ne peut être utilisé que dans un endroit fixe tel qu’un laboratoire ou une salle de machines/serveurs. Lors de l’installation de l’appareil, assurez-vous que la connexion de mise à la terre de protection de la prise de courant est vérifiée par une personne qualifiée.

Avant d'installer ou retirer un châssis ou de travailler à proximité d'alimentations, mettez-le hors tension et débranchez le cordon d'alimentation.

Pour éviter d'endommager les cartes système, il est important de les manipuler avec soin. Les mesures suivantes sont généralement suffisantes pour protéger votre équipement contre les décharges d'électricité statique :

- Cet équipement doit être mis à la terre.
- Avant de manipuler la carte, portez aux poignet un bracelet antistatique relié à la terre.
- Touchez un objet métallique relié à la terre avant d'extraire la carte de son sachet antistatique.
- Ne tenez la carte que par ses bords. Ne touchez aucun composant, puce périphérique, module mémoire ou contact plaqué or.
- Lors de la manipulation des modules de mémoire, évitez de toucher les doigts dorés.
- Remettez dans leur sachet antistatique la carte système et les périphériques de l'appareil de communications lorsqu'ils ne sont pas utilisés ou installés dans le châssis. Certains circuits sur la carte système peuvent rester fonctionnels même si l'appareil est éteint.
- Débrancher l'alimentation de la carte système de sa source électrique avant de connecter ou déconnecter des câbles ou d'installer ou retirer des composants. À défaut, les risques sont d'endommager l'équipement et de causer des blessures corporelles.
- Ne pas court-circuiter la pile au lithium : elle risque de surchauffer et de causer des brûlures en cas de contact.
- Produit laser de classe 1 : un système laser totalement clos et contenant un laser de classe 1.
- Le produit doit être utilisé avec des modules de dispositifs laser de classe 1.

Cet appareil n'est pas prévu pour être utilisé dans le champ de vision direct des personnes occupant un bureau. Pour éviter toute gêne occasionnée par un éventuel reflet, cet appareil ne doit pas être placé dans le champ de vision direct des personnes occupant un bureau.

Mise en garde concernant les batteries au lithium

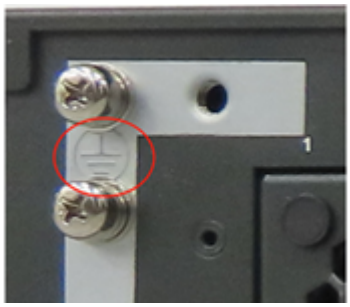
- Un risque d'explosion existe si la batterie est remplacée par une autre de type incorrect.
- LES PILES DOIVENT ÊTRE MISES AU REBUT CONFORMÉMENT AUX INSTRUCTIONS DE LEUR FABRICANT.
- L'installation devra être effectuée uniquement par une personne qualifiée connaissant toutes les Spécifications concernant l'Installation et l'Appareil applicables.
- Ne pas tenir par la poignée d'alimentation lors du transport.
- Veuillez respecter les lois et réglementations locales en matière de mise au rebut sécurisée des piles au lithium.
- Jeter une pile au feu ou dans un four chaud, l'écraser ou la couper peut causer une explosion.
- Laisser une pile dans un environnement de très haute température peut causer une explosion ou la fuite de gaz ou liquide inflammable.
- Laisser une pile dans un environnement de très basse pression peut causer une explosion ou la fuite de gaz ou liquide inflammable.

Avertissement : DANGER D'EXPLOSION SI LA PILE EST MAL REPLACÉE. NE REMPLACER QU'AVEC UN TYPE IDENTIQUE OU ÉQUIVALENT, RECOMMANDÉ PAR LE CONSTRUCTEUR. LES PILES DOIVENT ÊTRE MISES AU REBUT CONFORMÉMENT AUX INSTRUCTIONS DE LEUR FABRICANT.
NE PAS LE DÉMONTER OU TENTER DE LE RECHARGER EN DEHORS DU SYSTÈME.

Avertissement - Équipement de Classe I. Cet équipement doit être mis à la terre. La fiche d'alimentation doit être connectée à une prise de terre correctement câblée. Une prise de courant mal câblée pourrait placer des tensions dangereuses sur des pièces métalliques accessibles.

Instructions de sécurité électrique

Avant d'allumer l'appareil, effectuez la mise à la terre avec le câble de terre. Une mise à la terre correcte est très importante pour protéger l'équipement contre les effets nocifs des bruits extérieurs et pour réduire le risque d'électrocution en cas de foudre. Pour désinstaller équipement, débrancher le câble de terre après avoir coupé le courant. Un câble de terre est obligatoire et la partie reliant le conducteur doit être supérieure à 6 AWG.



Avertissement chambres informatiques

Convient à une installation en Chambre Informatique conformément à l'Article 645 du National Electrical Code et au NFPA 75.

Instructions de montage en rack

Les instructions d'installation sont livrées avec les instructions de montage en rack ci-après (ou similaires) :

1. Fonctionnement à température plus élevée : si l'appareil est installé dans une armoire fermée ou un rack à plusieurs unités, la température du rack en fonctionnement peut être supérieure à la température ambiante de la pièce. Avant d'installer l'équipement, il faut donc s'assurer qu'il sera dans un environnement compatible avec la température ambiante maximale indiquée par le constructeur.
2. Circulation d'air réduite : l'installation dans un rack doit s'assurer de ne pas limiter la circulation de l'ai nécessaire au bon fonctionnement de l'équipement.
3. Charge mécanique : lors du montage de l'équipement dans le rack, il faut faire attention à ne pas déséquilibrer l'ensemble. Un rack se remplit en commençant par le bas.
4. Surcharge : pour la connexion de l'équipement au circuit électrique, il faut vérifier les risques de surcharge et les éventuelles conséquences sur la protection contre les surcourants et sur le câblage électrique. Dans ce contexte, il faut tenir compte des informations mentionnées par la plaque technique de l'instrument.
5. Mise à la terre : les équipements montés en rack doivent être en permanence reliés à un terre fiable. Il faut faire particulièrement attention aux branchements qui ne vont pas directement à la source électrique (par exemple des multiprises).

Pour la Californie :

Matériau perchloraté : manipulation spéciale potentiellement requise. Voir http://www.dtsc.ca.gov/hazardouswaste/perchlorate

L'avis suivant est fourni conformément au California Code of Regulations, titre 22, division 4.5, chapitre 33. Meilleures pratiques de manipulation des matériaux perchloratés. Ce produit, cette pièce ou les deux peuvent contenir une pile au dioxyde de lithium manganèse, qui contient une substance perchloratée.

Produits chimiques « Proposition 65 »

Les produits chimiques identifiés par l'état de Californie, conformément aux exigences du California Safe Drinking Water and Toxic Enforcement Act of 1986 du California Health & Safety Code s. 25249.5, et seq. (« Proposition 65 »), qui sont « connus par l'état pour être cancérigène ou être toxiques pour la reproduction » (voir http://www.calepa.ca.gov)

AVERTISSEMENT :

La manipulation de ce cordon vous expose au contact du plomb, un élément reconnue par l'état de Californie pour être cancérigène, provoquer des malformations à la naissance et autres dommages relatifs à la reproduction. Se laver les mains après toute manipulation.

Attention !

Toute modification non approuvée expressément par la garantie du présent appareil pourrait annuler le droit de l'utilisateur à faire fonctionner l'équipement.

Cet équipement est conforme à la section 15 des réglementations de la FCC. Son fonctionnement est soumis aux deux conditions suivantes : (1) Cet appareil ne doit pas causer d'interférence préjudiciable et (2) Cet appareil doit tolérer toute interférence reçue, y compris celles qui pourraient causer un fonctionnement indésirable.

Attention !

Le fabricant n'est pas responsable des éventuelles interférences radio ou TV dues à des modifications non autorisées du présent équipement. Ces modifications pourraient annuler le droit de l'utilisateur à faire fonctionner l'équipement.

Information à l'intention de l'utilisateur :

Le manuel utilisateur ou le manuel d'instruction d'un dispositif rayonnant (intentionnel ou non) doit avertir que toute modification non approuvée expressément par la partie responsable de la conformité peut annuler le droit de faire fonctionner l'équipement. Si le manuel n'est pas fourni sous forme imprimée (par exemple sur le disque d'un ordinateur ou via Internet), les informations requises par cette section doivent être incluses dans ces versions du manuel, sous réserve que l'utilisateur soit raisonnablement capable d'y accéder.

CE (Directive de l'Union européenne relative à la compatibilité électromagnétique)

Cet appareil est certifié conforme aux exigences de la directive du Conseil concernant le rapprochement des législations des États membres relatives à la directive sur la compatibilité électromagnétique (2014/30/UE).

Le produit ci-dessus est conforme à la directive basse tension 2014/35/UE et satisfait aux exigences relatives aux équipements électriques conçus pour être utilisés dans une certaine plage de tensions.

Déclaration de la Federal Communications Commission (FCC) pour un appareil ou périphérique numérique de classe A

Cet équipement a été testé et déclaré conforme aux limites pour appareils numériques de classe A, selon la section 15 des règlements de la FCC. Ces limitations sont conçues pour fournir une protection raisonnable contre les interférences nocives dans un environnement résidentiel. Cet appareil génère, et peut diffuser des fréquences radio et, dans le cas d'une installation et d'une utilisation non conformes aux instructions, il peut provoquer des interférences nuisibles aux communications radio. Cependant, il n'existe aucune garantie qu'aucune interférence ne se produira dans le cadre d'une installation particulière. Si cet appareil provoque des interférences avec un récepteur radio ou un téléviseur, ce qui peut être détecté en mettant l'appareil sous et hors tension, l'utilisateur peut essayer d'éliminer les interférences en suivant au moins l'une des procédures suivantes :

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre l'appareil et le récepteur.
- Brancher l'appareil sur une prise appartenant à un circuit différent de celui sur lequel est branché le récepteur.
- Consulter le distributeur ou un technicien radio/télévision qualifié pour obtenir de l'aide.

ICES (Déclaration de conformité du département canadien)

This Class A digital apparatus complies with Canadian ICES-003.

Déclaration de conformité VCCI

Cette section présente la déclaration de conformité du Voluntary Control Council for Interference (VCCI) concernant les équipements de technologie de l'information, qui régit les émissions de fréquence radio au Japon.

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 VCCI-A



Mise au rebut du produit

Ce symbole apposé sur le produit ou son emballage signifie que le produit ne doit pas être mis au rebut avec les autres déchets ménagers. Il est de votre responsabilité de le porter à un centre de collecte désigné pour le recyclage des équipements électriques et électroniques. Le fait de séparer vos équipements lors de la mise au rebut, et de les recycler, contribue à préserver les ressources naturelles et s'assure qu'ils sont recyclés d'une façon qui protège la santé de l'homme et l'environnement. Pour obtenir plus d'informations sur les lieux où déposer vos équipements mis au rebut, veuillez contacter votre municipalité ou le service de gestion des déchets.

Declaration of Conformity

Name and address of the authorized trademark:	Check Point Software Technologies Ltd. 5 Shlomo Kaplan Street, Tel Aviv 6789159, Israel.
Brand name:	Check Point
Marketing models:	19100, 19200, 29100, 29200
Regulated models:	RR1-CP-15, RR1-CP-25, RR1-CP-10, RR1-CP-20
Manufacturer's name:	Check Point Software Technologies Ltd.
Manufacturer's address:	5 Shlomo Kaplan Street, Tel Aviv 6789159, Israel.
Date first applied:	February 2023

The models of the declaration described above have been assessed and found to be in compliance with the following harmonized standards, regulations, and technical references:

Category	Technical Specification	Description
EMC /EMI	**CE** Emission: EN 55032:2015 EN 55032:2015+A11:2020 CISPR32:2015 CISPR32:2015+A1:2019 AS/NZS CISPR 32:2015+AMD 1:2020, Class A Immunity: EN 55035:2017+A11:2020 EN 61000-4-2:2009 EN IEC 61000-4-3:2020 EN 61000-4-4:2012 EN 61000-4-5:2014+A1:2017 EN 61000-4-6:2014 EN 61000-4-8:2010 EN IEC 61000-4-11:2020	Electromagnetic Compatibility, Emissions requirements for information technology equipment Immunity characteristics. Limits and methods of measurement
	FCC/IC FCC CFR Title 47, Part 15, Subpart B, Class A ANSI C63.4-2014, C63.4a-2017 ICES-003, Issue 7, (2020) Class A	Information Technology Equipment - Radio Disturbance Characteristics
	VCCI CISPR 32: 2015 + COR1: 2016	Information Technology Equipment - Radio Disturbance Characteristics
	AS/NZS _RCM AS/NZS CISPR 32: 2015 Class A CISPR32:2015+COR1: 2016 Class A	Information Technology Equipment - Radio Disturbance Characteristics
Safety	EN 62368-1:2014/A11:2017, EN 62368-1:2014 EN 62368-1:2014+A11:2017. J 62368-1 (H30) AS/NZS 62368.1:2018. CAN/CSA C22.2 No. 62368-1-14. UL 62368-1, Second Edition.	Information technology equipment. Electrical Safety requirements, LVD

Category	Technical Specification	Description
RoHS REACH	ROHS (Restriction of Hazardous Substances) re-cast directive 2011/65/EU and (EU)2015/863 amending Annex II REACH (Registration, Authorization and Restriction of Chemicals, EU Regulation (EC) 01907/2006	Restriction of Hazardous Substances
WEEE	Directive 2012/19/EU	Waste Electrical and Electronic Equipment

Introduction

Welcome

Congratulations on your new Check Point Firewall 19100 / 19200 / 29100 / 29200 Appliance. We hope that you will be satisfied with this Security Gateway and our support services. You deserve the best security and Check Point products provide your business with the most up to date and secure solutions available today.

Check Point also delivers worldwide technical services including educational, professional and support services through a network of Authorized Training Centers, Certified Support Partners and Check Point technical support personnel to ensure that you get the most out of your security investment.

For additional information on the Internet Security Product Suite and other security solutions, refer to the Check Point web site, or call Check Point at 1(800) 429-4391. For additional technical information about Check Point products, consult the Check Point Support Center.

Welcome to the Check Point family. We look forward to meeting all of your current and future network, application and management security needs.

Check Point Firewall 19100, 19200, 29100, and 29200 Appliances Overview

Check Point Appliances pioneer Gen V Cyber Security equipped with Intel's latest multi-core technologies, increased encrypted traffic inspection performance, and lightning-fast networking technologies - all optimized to provide the highest security effectiveness and performance for mid to large size enterprise security networks.

Check Point 19100 / 19200 / 29100 / 29200 Appliances provide hyper-fast network security to Data Centers and large enterprises. These appliances enable large enterprises and Data Centers to deploy network security that performs at the speed of business to accelerate large file transfers, provide low latency for high frequency applications, and dynamically scale as their business grows.

Check Point 19100 / 19200 / 29100 / 29200 Firewalls combine the most comprehensive protections with Data Center grade security and hardware to maximize uptime and performance for securing large enterprise and Data Center environments. Strengthening Check Point Infinity Architecture, the new 19100 / 19200 / 29100 / 29200 series appliances deliver consolidation and security across any network, cloud, and mobile environment with full threat visibility and control.

All new Check Point Appliances are Maestro-optimized which enables superior performance in the Maestro Orchestrator environment.

The Check Point 19100 / 19200 / 29100 / 29200 series comes with a first-year subscription to the full SandBlast Prevention suite.

Security Appliance	U	In This Document
19100 Base/Plus Security Appliance	2U	19100
19200 Base/Plus Security Appliance	2U	19200
29100 Base/Plus Security Appliance	2U	29100
29200 Base/Plus Security Appliance	2U	29200

Shipping Carton Contents

This section describes the contents of the shipping carton.

Item	Description
Appliance	19100 / 19200 / 29100 / 29200
Cables and Adapters	■ 1 x RJ45 CAT6A Ethernet Cable (1.8m) ■ 1 x RJ45 Console Cable ■ 1 x USB Type-A to Type-C Cable ■ 1 x RJ45 Loopback adapter ■ 1 x Fiber Optic Loopback adapter ■ 2 x Power cables ■ 2 x PSU restraints ■ 2 x 10SR Transceivers ■ 4 x Storage device lock keys (in Plus models) 2 x Storage device lock keys (in Base models)
Rack Mounting	■ Rack Mounting screws ■ Rack Mounting Sliding Rails ■ Ear bracket kit and screws
Documentation	■ Welcome to Check Point QR Page ■ Before you begin

Terminology

Terms used in this guide:

- **Security Gateway**: The security engine that enforces the organization's Security Policy and acts as a security enforcement point.
- **Security Policy**: The policy created by the system administrator that regulates the flow of incoming and outgoing communication.
- **Security Management Server**: The server used by the system administrator to manage the Security Policy. The organization's databases and Security Policies are stored on the Security Management Server and downloaded to the Security Gateway.
- **SmartConsole**: GUI applications that are used to manage various aspects of Security Policy enforcement.
- **SmartDashboard**: A Legacy SmartConsole GUI application that is used by the system administrator to create and manage specific settings for some Software Blades.

- **Locally Managed Deployment**: When all Check Point components responsible for both the management and enforcement of the Security Policy (the Security Management Server and the Security Gateway) are installed on the same machine.
- **Centrally Managed Deployment**: When the Security Gateway and the Security Management Server are installed on separate machines.

Mounting the Appliances in a Rack

You can install your 19100 / 19200 / 29100 / 29200 Appliance with the Telescopic Rails hardware. See *Rack Mounting for Check Point Appliances* for the procedure.

Appliance Specifications

19100 Specifications

Item	Value
Regulated Model	RR1-CP-15
Width	17.40 in (44.2 cm)
Depth	24.01 in (61.0 cm)
Height	3.46 in (8.8 cm)
Rack Units	2U
Maximum Operating Temperature	32°F - 104°F 0°C - 40°C
AC PSU Electrical Specifications	From 100V (10A) to 240V (5A), 47 - 63Hz
DC PSU Electrical Specifications	Range #1: -36V to -46V, maximum of 35A, maximum power output is 1000W Range #2: -46V to -72V, maximum of 40A, maximum power output is 1600W

19200 Specifications

Item	Value
Regulated Model	RR1-CP-25
Width	17.40 in (44.2 cm)
Depth	24.01 in (61.0 cm)
Height	3.46 in (8.8 cm)
Rack Units	2U
Maximum Operating Temperature	32°F - 104°F 0°C - 40°C
AC PSU Electrical Specifications	From 100V (10A) to 240V (5A), 47 - 63Hz
DC PSU Electrical Specifications	Range #1: -36V to -46V, maximum of 35A, maximum power output is 1000W Range #2: -46V to -72V, maximum of 40A, maximum power output is 1600W

29100 Specifications

Item	Value
Regulated Model	RR1-CP-10
Width	17.40 in (44.2 cm)
Depth	24.01 in (61.0 cm)
Height	3.46 in (8.8 cm)
Rack Units	2U
Maximum Operating Temperature	32°F - 104°F 0°C - 40°C
AC PSU Electrical Specifications	From 100V (13.8A) to 240V (8.5A), 47 - 63Hz
DC PSU Electrical Specifications	Range #1: -36V to -46V, maximum of 35A, maximum power output is 1000W Range #2: -46V to -72V, maximum of 40A, maximum power output is 1600W

29200 Specifications

Item	Value
Regulated Model	RR1-CP-20
Width	17.40 in (44.2 cm)
Depth	24.01 in (61.0 cm)
Height	3.46 in (8.8 cm)
Rack Units	2U
Maximum Operating Temperature	32°F - 104°F 0°C - 40°C
AC PSU Electrical Specifications	From 100V (13.8A) to 240V (8.5A), 47 - 63Hz
DC PSU Electrical Specifications	Range #1: -36V to -46V, maximum of 35A, maximum power output is 1000W Range #2: -46V to -72V, maximum of 40A, maximum power output is 1600W

Appliance Air Vents

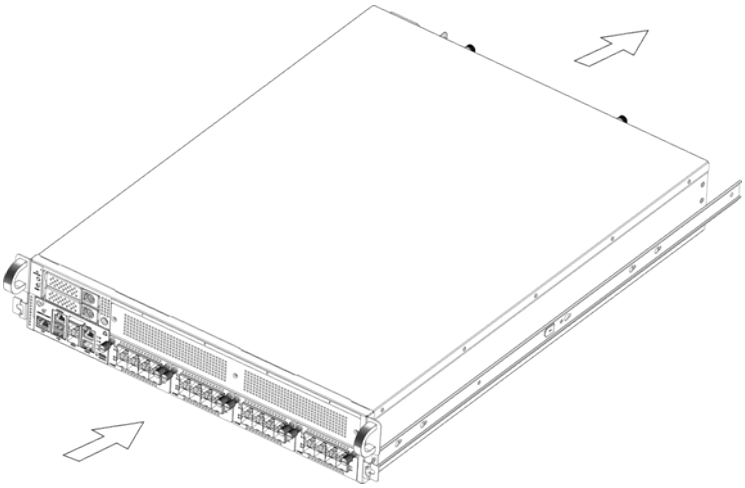
When the appliance is mounted in a rack, make sure that the appliance air vents have sufficient airflow from front to rear.

Important - If the appliance vents are blocked, the appliance can become too hot and be damaged.

The appliance and rack rails were tested in extreme conditions and when properly installed do not block air flow to the appliance.

These appliances are specifically designed to install with these rails.

The appliance shown is 19200, but the air flow is the same for all appliances.



Configuring Appliances

Initial Configuration

These are the initial configuration methods you can use:

- Interactive (this is the recommended method) - Select one of these:
  - Scan the QR code located on the *"Service tag" on page 47* and follow the instructions that appear.
  - Scan the QR code on the "Welcome" page that came in the appliance box and follow the instructions that appear.
- Legacy - Connect the appliance according to the instructions in the *19000 and 29000 Appliances Quick Start Guide*.

  In the section *Set Up Your Appliance*, follow *Option #2*.

  Then, configure the appliance with the Gaia First Time Configuration Wizard.

  1. See the *Installation and Upgrade Guide* for your version.
  2. In the section *Installing a Security Gateway* > *Configuring Gaia for the First Time*, follow the instructions for the First Time Configuration Wizard.

Important - For the Maestro initial configuration, see the *Maestro Getting Started Guide*.

Connecting to the Appliance CLI

You can configure advanced options in the Gaia operating system in the command line.

To connect to the command line interface of the appliance, use one of these:

- An SSH connection to the bottom management interface port (on a Security Gateway appliance, the Access Control policy must allow this SSH connection).
- A serial console cable and terminal emulation software, such as PuTTY (from Windows) or Minicom (from Unix/Linux).

  The appliances support these serial console connectivity options:

  - USB type-C - Use the included USB type-C console cable.
  - RJ45 - Use the included DB9 DTE to RJ45 serial console cable.

  Connection parameters for the appliances are: 9600 bps, 8 bits, no parity, 1 stop bit (8N1), Flow Control - None.

  If you use both the USB type-C and RJ45 console ports, the USB type-C port has priority. To use the RJ45 port, first disconnect the USB type-C console cable.

  When you finish using the RJ45 port, reconnect the mini USB console cable.

  Note - To use the USB type-C console port, you must install a driver on the console client machine (desktop/laptop). For installation instructions and the download link, see sk180520.

Starting the Appliance

Connect the appliance to a power source and turn on the appliance.

To start the appliance:

Connect the power cables to the power supply units in the rear panel.

The appliance turns on.

Note - When one of the power supply unit cords is not connected to the outlet, an alarm sounds continuously. If you hear the alarm, reconnect the cord to the outlet. To turn off the alarm, press the red "**Alarm off**" button on the rear panel of the appliance.

Available Software Images

The 19100 / 19200 / 29100 / 29200 Appliances come with software images. See the appliance Home Page sk180520.

Reverting to a previous software image takes a few minutes.

To follow the progress and see when the appliance is ready, use a serial console to connect to the appliance.

Creating the Network Object

Configure a Security Gateway / Cluster object on the Management Server:

1. Connect with SmartConsole to the Management Server.
2. Configure a new Security Gateway / Cluster object.

   For more information, see the:

   - *Security Management Administration Guide* for your version
   - *ClusterXL Administration Guide* for your version
   - *Maestro Administration Guide* for your version
3. Configure the applicable Security Policy.
4. Install the Access Control Policy.
5. Install the Threat Prevention Policy.

Synchronizing RAID

The appliances support two storage devices.

- RAID-1 mirroring across both storage devices is used.

  This enables the appliance to continue to work if there is a storage device failure.
- The mirror rebuild is automatic.
- Both storage devices must be the same type.

First Boot Up

At first boot up, wait for up to six hours to allow the storage devices to fully synchronize.

If you reboot the appliance before the storage devices are synchronized, the synchronization starts again from the beginning at the next boot.

To monitor the RAID status of the storage devices in the CLI:

1. Connect to the command line on the appliance.
2. Log in to **Gaia Clish**.
3. Run this command to monitor the RAID status of the storage devices:

   ```
   raid_diagnostic
   ```

   The output of this command shows data about the RAID and storage devices, with the percent of synchronization complete.

   In 19100 / 19200 / 29100 / 29200 appliances:

   - `DiskID 0` is the top storage device (numbered 0 on the appliance's chassis).
   - `DiskID 1` is the bottom storage device (numbered 1 on the appliance's chassis).

   After the first boot and after you replace a second storage device, the RAID state (in the VolumeID line) shows `DEGRADED` (this indicates that the drives are not synchronized). The DiskID:0 state shows `ONLINE` and the DiskID:1 state shows `INITIALIZING`.

   After the RAID is synchronized, the RAID state (in the VolumeID line) shows `OPTIMAL` (this indicates that the drives are synchronized). The DiskID:0 and DiskID:1 states show `ONLINE`.

   Example from the 29200 model:

   ```
   Gaia> raid_diagnostic
   Raid status:
   VolumeID:0 RaidLevel: RAID-1 NumberOfDisks:2 RaidSize:894GB State:OPTIMAL Flags:ENABLED
   DiskID:0 DiskNumber:0 Vendor:Samsung ProductID:SAMSUNG MZQL2960HCJR-00A07
   Revision:GDC5602Q Size:894GB State:ONLINE Flags:NONE
   DiskID:1 DiskNumber:1 Vendor:Samsung ProductID:SAMSUNG MZQL2960HCJR-00A07
   Revision:GDC5602Q Size:894GB State:ONLINE Flags:NONE
   Gaia>
   ```

   This example shows that the storage devices are fully synchronized (disk sizes and vendor may vary).

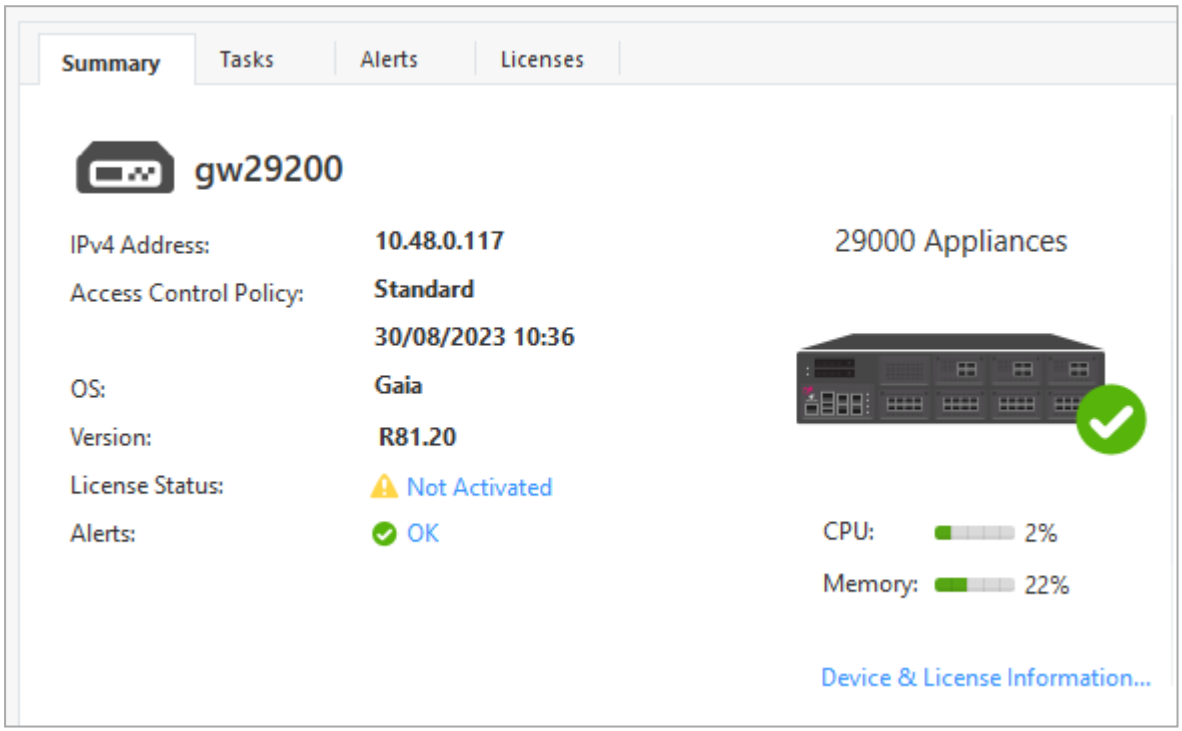
To monitor the RAID status of the storage devices in Gaia Portal:

1. Log in to the **Gaia Portal**.
2. From the left tree, click **Maintenance** > **RAID Monitoring**.

To monitor the RAID status of the storage devices in SmartConsole:

1. From the left navigation panel, click **Gateways & Servers**.
2. In the top pane, select the Security Gateway / Cluster object that represents the appliance.
3. In the lower pane, on the **Summary** tab, click **Device & License Information**.

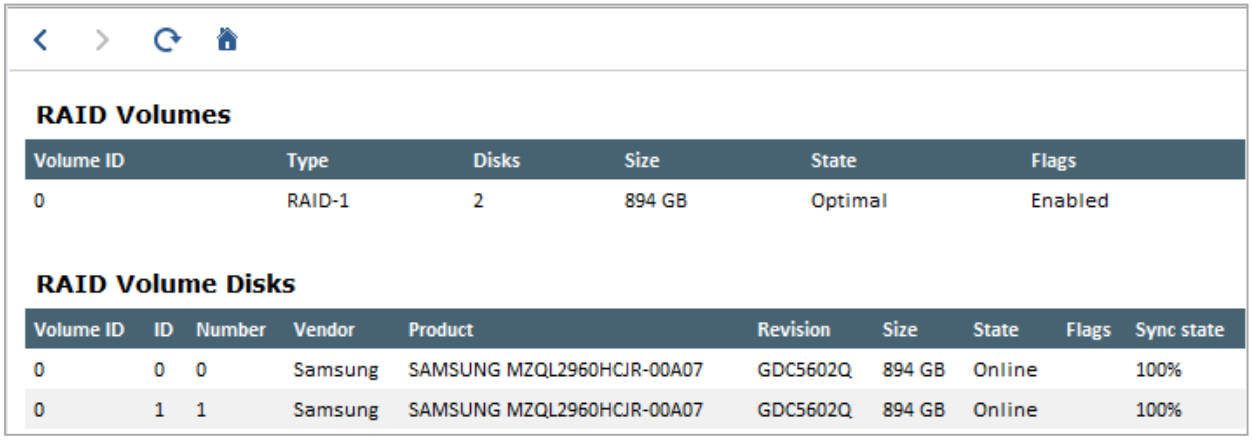
   Example:



4. Click **RAID Volumes**.

   The window shows volume and disk information.

   Example:



RAID Volumes

Volume ID	Type	Disks	Size	State	Flags
0	RAID-1	2	894 GB	Optimal	Enabled

RAID Volume Disks

Volume ID	ID	Number	Vendor	Product	Revision	Size	State	Flags	Sync state
0	0	0	Samsung	SAMSUNG MZQL2960HCJR-00A07	GDC5602Q	894 GB	Online		100%
0	1	1	Samsung	SAMSUNG MZQL2960HCJR-00A07	GDC5602Q	894 GB	Online		100%

To monitor the RAID status of the storage devices using SNMP:

Set up SNMP traps to send information about the RAID.

Use this OID: `1.3.6.1.4.1.2620.1.6.7.7`

For more information about how to configure the SNMP settings on the appliance, see the *Gaia Administration Guide* for your version.

To hot swap a storage device:

Important - Make sure that there is at least one fully synchronized storage device in the appliance.

1. When the appliance is up, remove the failed storage device.
2. Wait 15 seconds.

   The appliance recognizes that you removed a storage device.
3. Insert a new storage device.

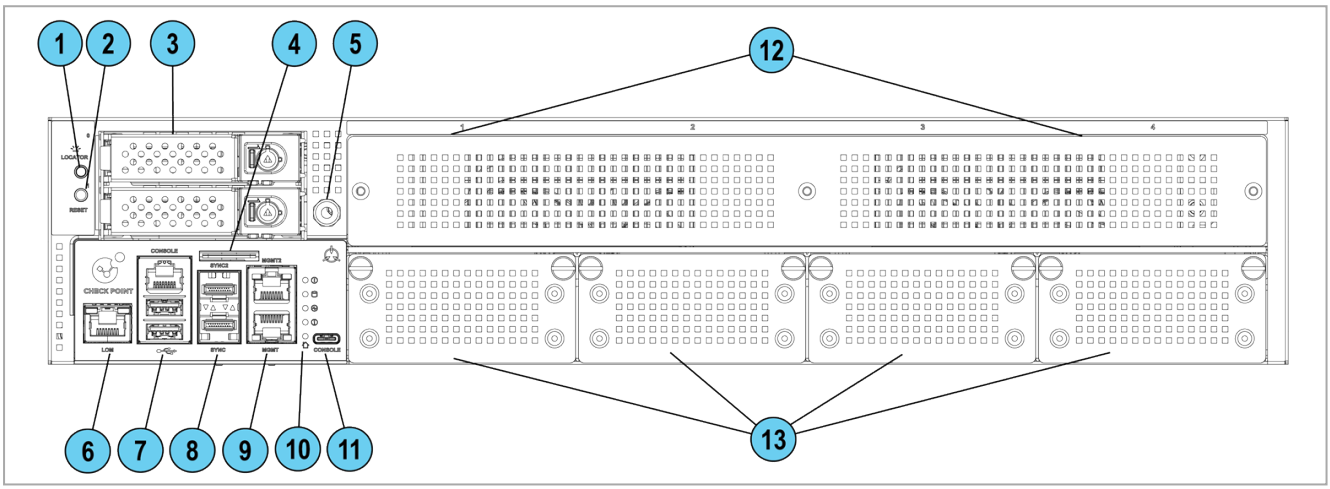
   If necessary, you can reboot the appliance with one storage device and install the new storage device later.

   The appliance automatically adds the new storage device to the RAID configuration.

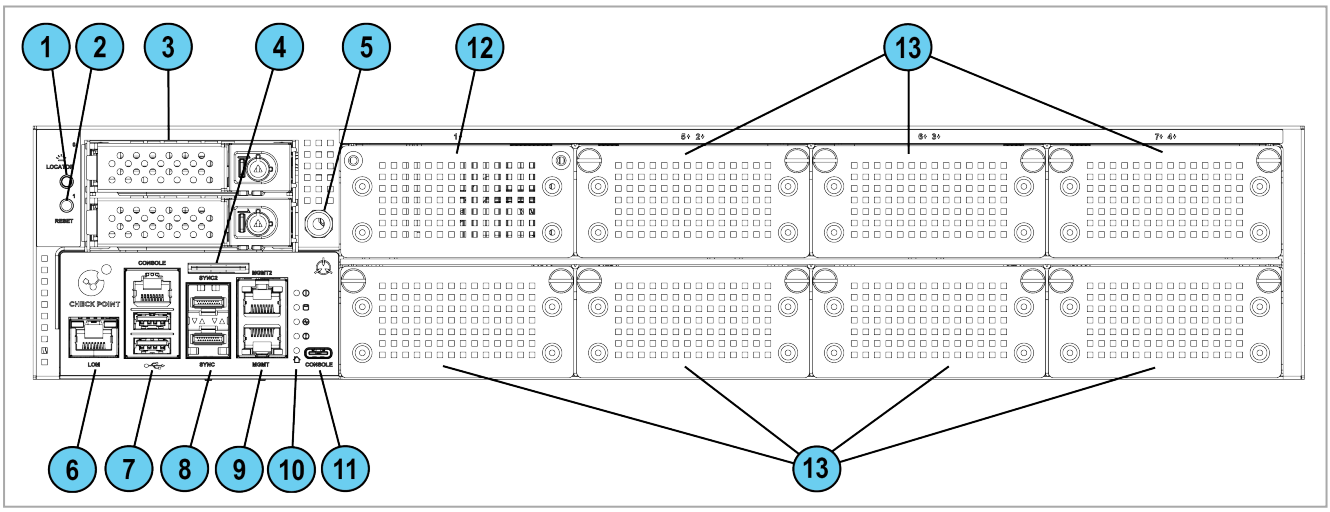
19000 / 29000 Appliances Hardware

Front Panel

19100 / 19200



29100 / 29200



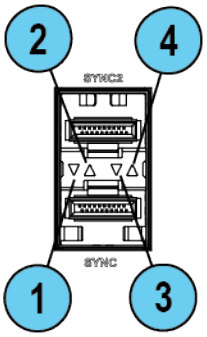
Item	Component	Description
1	Locator button	Turns the location beacon LED on and off in the appliance.
2	Reset	Insert a pin for 5 to 8 seconds to perform a hardware reset.

Item	Component	Description
3	2 Storage devices	■ Activity LED (on the left): • Off - No storage device activity • On (Amber rapid blinking) - Storage device activity • On (Amber slow blinking) - Storage device idle ■ Power LED (on the right): • Off - Storage device power is off • On (Green) - Storage device power is on
4	Service tag	A slide-out card that identifies the appliance and shows its serial number and MAC address. It also contains a QR code that you can scan to onboard the appliance and view documentation.
5	ESD grounding point	When you service the appliance, connect an ESD strap to this point.
6	LOM port	LOM (Lights Out Management) port to connect to the LOM Card. **Note** - In 19100 / 19200 / 29100 / 29200 **Base** appliances, LOM Card is optional.
7	RJ45 Console port and 2 USB 3.2 Gen 1x1 ports	RJ45 port for a serial connection to the appliance. The USB 3.2 Gen 1x1 ports are backwards compatible to USB 2.0.
8	2 Synchronization ports	Ports for cluster synchronization. Configuration options: ■ Use one of these ports - **Sync** or **Sync2**. ■ Create a bond on these two ports (**Sync** and **Sync2**) for sync redundancy. See *"Synchronization Port LEDs" on page 49*.
9	2 Management ports	Ports to manage the Gaia Operating System on this appliance. Configuration options: ■ Use one of these ports - **Mgmt** or **Mgmt2**. ■ Create a bond on these two ports (**Mgmt** and **Mgmt2**) for redundancy. See *"Management Port LEDs" on page 50*.

Item	Component	Description
10	System LEDs	See *"System LEDs" on page 51*.
11	USB Type-C port	For a serial connection to the appliance.
12	Unavailable expansion slot	Expansion slot not in use.
13	Expansion line cards	In the Gaia OS on the appliance, these interface names are assigned: **In 19100 / 19200:** ■ The bottom row of slots (from left to right): eth1-0X, eth2-0X, eth3-0X, and eth4-0X. **In 29100 / 29200:** ■ The top row of slots (from left to right): eth5-0X, eth6-0X, and eth7-0X. ■ The bottom row of slots (from left to right): eth1-0X, eth2-0X, eth3-0X, and eth4-0X. For port speed and port activity LED descriptions, see the relevant chapter in *Installing and Removing Line Cards*.

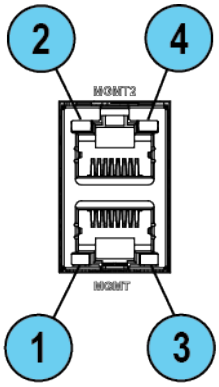
Front Panel LEDs

Synchronization Port LEDs



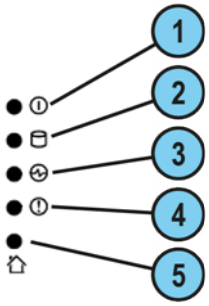
Item	Component	Description
1	Port activity LED (bottom port SYNC)	■ Off - No activity ■ On (Green) - Link exists ■ Blinking (Green) - Activity
2	Port activity LED (top port SYNC2)	
3	Link Speed LED (bottom port SYNC)	■ Off - 1 Gbit/s or lower data rate is selected ■ On (Amber) - 10 Gbit/s data rate is selected ■ On (Blue) - 25 Gbit/s data rate is selected
4	Link Speed LED (top port SYNC2)	

Management Port LEDs



Item	Component	Description
1	Port activity LED (bottom port MGMT)	■ Off - No activity ■ On (Green) - Link exists ■ Blinking (Green) - Activity
2	Port activity LED (top port MGMT2)	
3	Link Speed LED (bottom port MGMT)	■ Off ■ On (Green) - 1 Gbit/s data rate is selected ■ On (Amber) - 10 Gbit/s data rate is selected
4	Link Speed LED (top port MGMT2)	

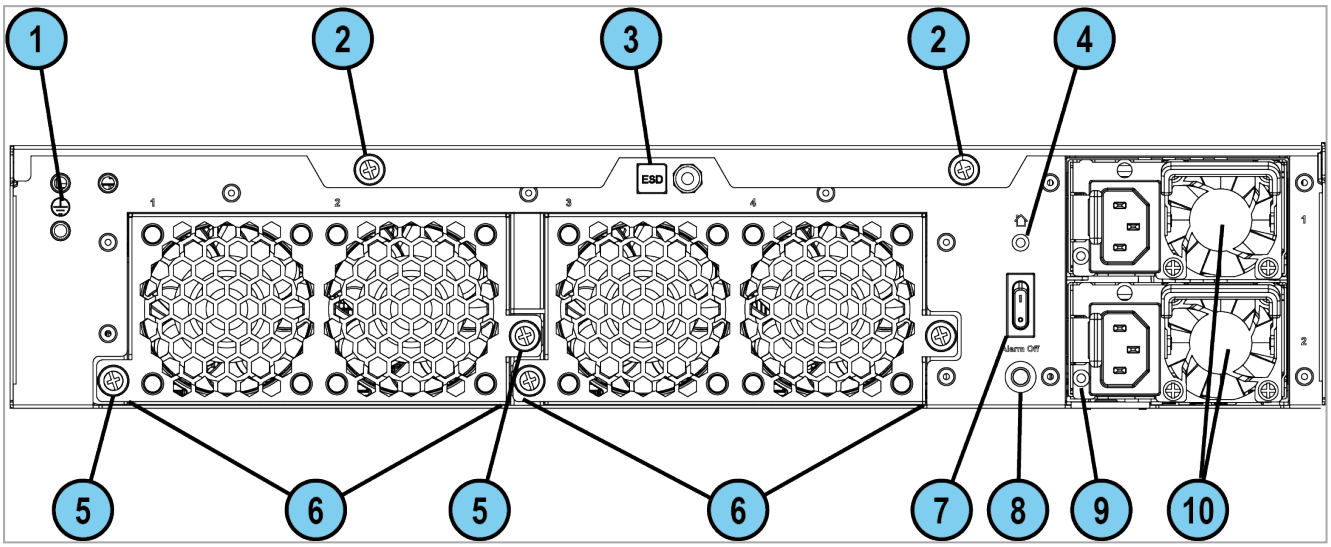
System LEDs



Item	Icon	Component	Description
1		System power	■ Off - Appliance power is off ■ On (Green) - Appliance power is on
2		Storage device activity	■ Off - No storage device activity ■ On (Amber) - Read/write activity
3		Power supply status	■ Off - No power/no status ■ Amber - Power supply fault detected ■ Green - All power supplies are functioning correctly
4		Alert	■ Off - No faults were detected ■ Blinking red - System fault was detected
5		Location beacon	■ Off - Location beacon is turned off ■ Blinking blue - Location beacon is turned on in **Gaia Portal** or **Gaia Clish** ■ Solid blue - Location beacon is turned on with the **Locator** button You can turn on / off the Location Beacon LED in these ways: ■ With the button on the front panel ■ With this Gaia Clish command: `set lcd location {on | off}`

Rear Panel

19100 / 19200 / 29100 / 29200



Item	Component	Description
1	Grounding lugs	Used to connect grounding.
2	Cover screws	Loosen screws to remove the cover of the appliance.
3	ESD grounding point	When servicing the appliance, connect an ESD strap to this point.
4	Location LED	■ Off - Location beacon is turned off ■ Blinking blue - Location beacon is turned on in **Gaia Portal** or **Gaia Clish** ■ Solid blue - Location beacon is turned on with the **Locator** button Note - Turn off the Location beacon LED the same way you turned it on.
5	Thumb screws for cooling fan unit	Loosen screws to remove the cooling fan unit from the appliance.

Item	Component	Description
6	Cooling fan units	Units are numbered from right to left: `1`, `2`, `3`, `4` in stacks of two (one inner and one outer) for a total of 8 fans. When checking the hardware sensors in the CLI, they are referred to as "**`Fan1_IN`**" and "**`FAN1_OUT`**", ..., "**`Fan4_IN`**" and "**`Fan4_OUT`**". See *"Cooling Fan Units Naming Convention" on the next page*.
7	Main power switch	When the appliance is turned off, turns the appliance on. When the appliance is turned on, pressing and releasing the switch starts an orderly shutdown process. Alternatively, holding the switch for 4 seconds forces a machine shut down.
8	Alarm Off button for power supply units	If a power supply cable is not connected to the outlet, an alarm sounds continuously. Press this button to turn off the alarm. Note that this button is functional immediately after powering up the appliance.
9	LED indicator for each power supply unit	■ Off - No power cord is connected to any of the PSUs in the appliance ■ Green - Appliance is turned on ■ Blinking green - Power cords are connected to all PSUs, but the appliance is turned off ■ Amber - No power cord is connected to the PSU, but other PSUs in the appliance are connected to a power cord ■ Blinking amber - Warning about a hardware issue (high temperature, high power, high current, slow fan) that may lead to an issue with the PSU ■ Blinking fast green - PSU in Firmware update
10	Power supply units	Power supply units (PSUs) that you can hot swap. Each PSU connects to an electric outlet. You can use the cable restraints to avoid accidental removal of the power supply cable. The PSUs are numbered from top to bottom in the OS as "**Power Supply #1**" (top) and "**Power Supply #2**" (bottom). See *"PSU Configuration and Monitoring" on page 58*.

Cooling Fan Units Naming Convention

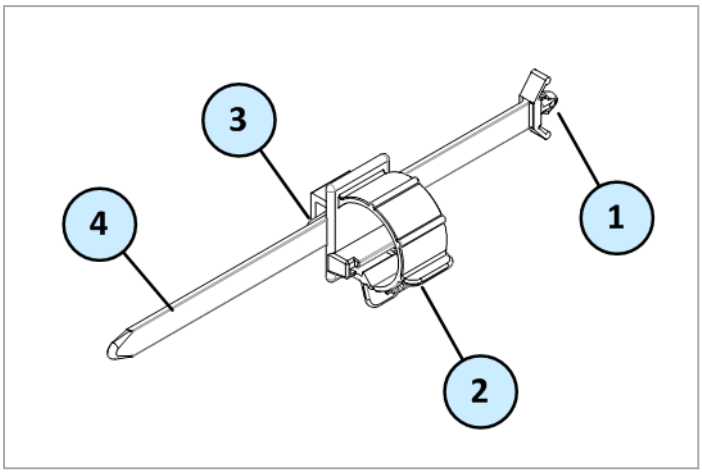
When you check the hardware sensors in the **Gaia Portal** or **Gaia Clish**, note that the cooling fans use a different naming convention.

Use this table to identify each of the 8 fans:

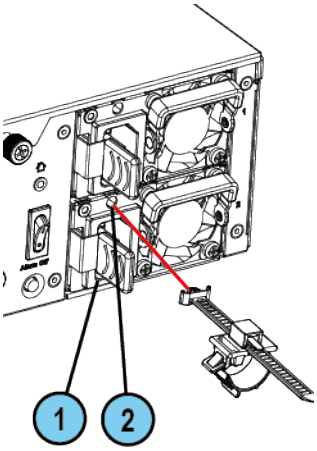
Gaia Portal	CLI
Fan 1 Inlet	Fan1_IN
Fan 1 Outlet	Fan1_OUT
Fan 2 Inlet	Fan2_IN
Fan 2 Outlet	Fan2_OUT
Fan 3 Inlet	Fan3_IN
Fan 3 Outlet	Fan4_OUT
Fan 4 Inlet	Fan4_IN
Fan 4 Outlet	Fan4_OUT

Installing the Power Cable Restraint

You can use the power cable restraint to prevent accidental removal of the power cable.



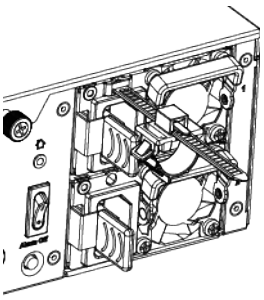
Item	Description
1	Restraint anchor
2	Cable loop
3	Restraint strip tab
4	Restraint strip



Item	Description
1	Power supply inlet
2	Restraint strip slot

To install the power cable restraint:

1. If a power cable is connected to the power supply inlet, disconnect it.
2. Find the restraint strip slot on top of the power supply inlet.
3. Make sure that the cable loop on the restraint faces the power supply inlet.
4. Insert the restraint strip anchor into the slot until it snaps and locks.
5. Connect the power cable to the power supply inlet.
6. Pull the restraint tab to the side to move the cable loop on the restraint strip.
7. Move the cable loop until you can wrap it around the power cable as shown in the next figure.
8. Insert the open side of the cable loop into the loop slot until it is tight against the power cable.
9. Make sure the cable loop is secured and the power cable cannot be removed.



Lights Out Management

The Check Point Lights Out Management (LOM) card lets you use a dedicated management channel to remotely control Check Point appliances. Lights Out Management can also work when the appliance is turned off or does not respond. However, the appliance must be connected to a power source.

For more information about Lights Out Management, see the *Lights Out Management (LOM) HTML5-based Card Administration Guide*.

Dual Redundant BIOS

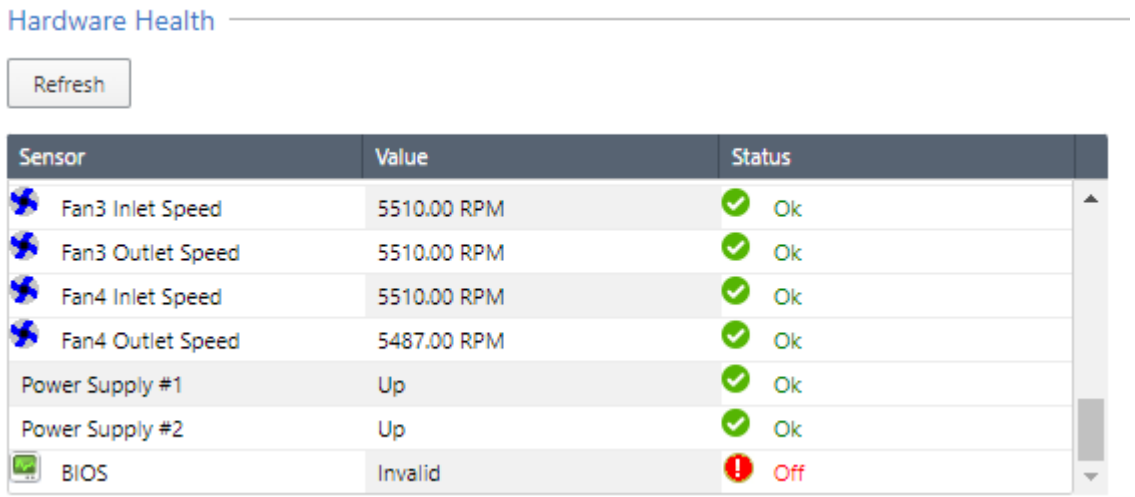
To ensure resilience in the event of a BIOS failure, 19100 / 19200 / 29100 / 29200 Appliances are equipped with dual redundant BIOS images.

If an appliance encounters a BIOS failure, it boots up from a recovery, read-only BIOS image that enables full functionality of the appliance.

These notifications appear in the event of a BIOS failure:

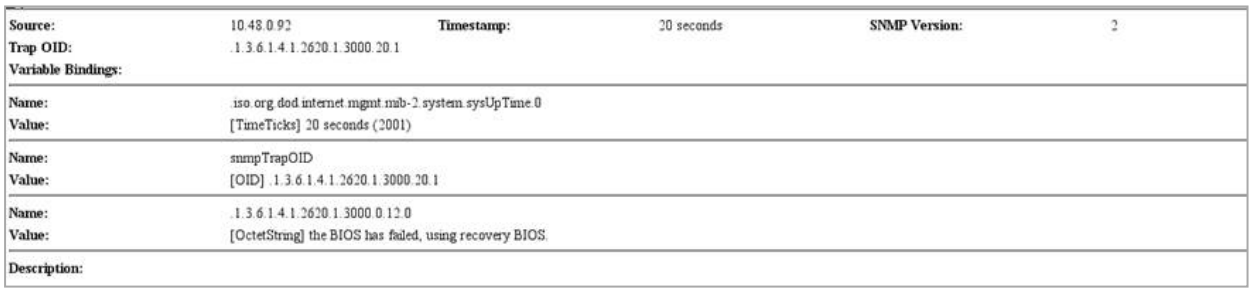
- The appliance's Alert LED on the front panel blinks red.
- The **Gaia Portal** > **Maintenance** > **Hardware Health** page shows that the BIOS sensor is **Invalid** and its status is **Off**.

  Example (from a 29100 appliance):



- An SNMP trap message is sent (if the `biosFailure` trap was configured in the **Gaia Portal** or **Gaia Clish**).

  Example:



To recover from a BIOS failure, see sk108517 or contact *Check Point Support*. The appliance is fully functional until the BIOS recovery is completed. Note that it can take a few minutes for it to boot in BIOS recovery mode.

PSU Configuration and Monitoring

These are the supported PSU configurations for the appliance models and PSU types:

PSU Type	19100 Base 19100 Plus 19200 Base 19200 Plus 29100 Base 29100 Plus 29200 Base 29200 Plus
AC /DC PSU	2 PSUs

Important - All PSUs on an appliance must be of the same type: either all AC or all DC.

When a PSU functions correctly:

- The PSU LED is green
- The Alert LED is not blinking due to a PSU issue (though it might still be blinking due to other errors)
- There is no SNMP alarm

When a PSU does not function correctly:

- The PSU LED is amber
- The Alert LED is blinking due to a PSU issue
- An SNMP alarm is sent.

To monitor the PSUs in the CLI:

1. Connect to the command line on the appliance.
2. Log in to **Gaia Clish**.
3. Run:

   ```
   show sysenv ps
   ```

   Example output from a 29100 appliance:

   ```
   Hardware Information

   Name              Value   Unit      Type    Status   Maximum   Minimum
   Power Supply #1   Up      Up/Down   Power   0        Up        Down
   Power Supply #2   Up      Up/Down   Power   0        Up        Down
   ```

   Where:

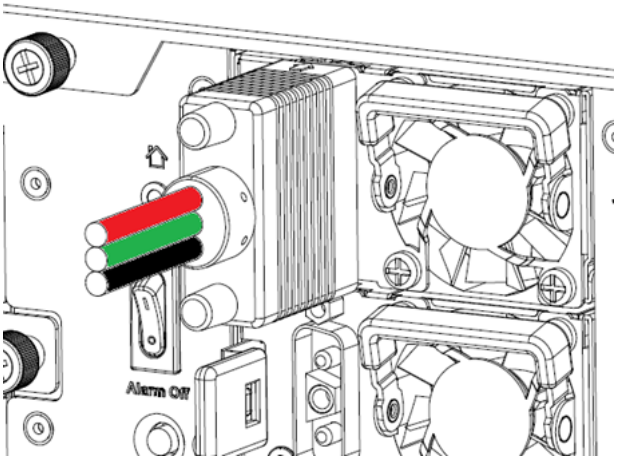
Column	Description
`Name`	**Power Supply #1** - The PSU in the top PSU slot. **Power Supply #2** - The PSU in the bottom PSU slot.
`Value`	**Up** - The PSU slot contains a PSU and is up. **Down** - The PSU slot contains a PSU but it is not connected to a power source. **Empty** - There is nothing in the PSU slot.
`Unit`	**Up/Down** - PSUs are either Up or Down.
`Type`	**Power** - The sensor type is "power supply".
`Status`	**0** - No problems found. **1** - Error.
`Maximum` `Minimum`	The maximum and minimum thresholds. PSUs are only measured as **Up** or **Down**.

DC Power Connections

When your appliance uses a DC PSU, make sure to follow these instructions.

To connect DC power wires to a DC PSU connector:

1. Connect the GREEN wire to the ground terminal.
2. Connect the RED wire to the 36-46/46-72V pin on the DC power source.
3. Connect the BLACK wire to the return pin on the DC power source.



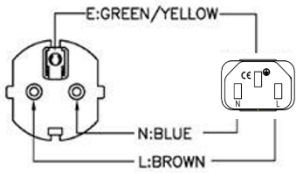
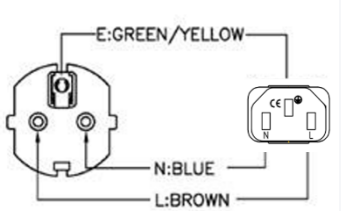
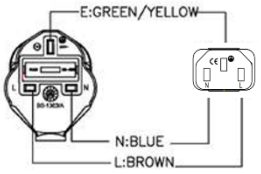
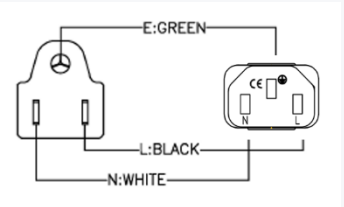
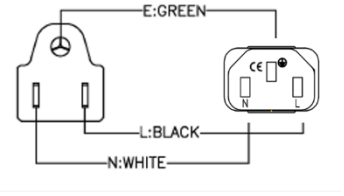
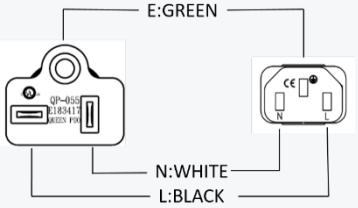
For further instructions, refer to the *Installing and Removing DC Power Supply Units* guide.

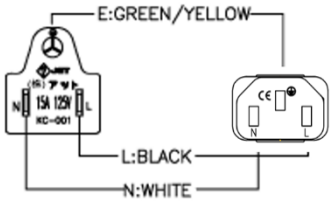
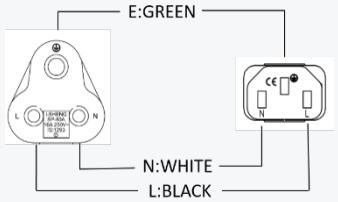
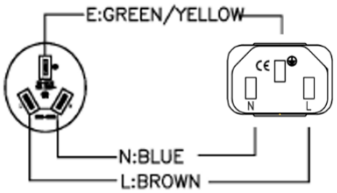
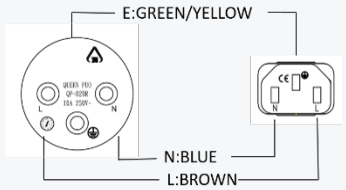
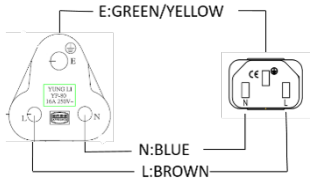
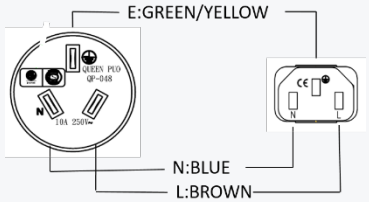
Important - This product must be powered by a UL Listed DC power source, rated 36-46/46-72Vdc, 35/40A minimum, Tmax=40°C, and the maximum operating altitude of 5000m.
The wire requirements: 8 AWG, 40A minimum, 72V minimum.

AC Power Cords

The supplied AC power cords are specific to the geographical region.

These are some of the available power cords.

Region	Plug	Connector	Cable	Diagram
EU	QP-004, 16A 250V~	QP-007, 10A 250V~	HO5VV-F 3G 0.75mm^2	
Australia	QP-003, 10A 250V~	QP-007, 10A 250V~	HO5VV-F 3G 0.75mm^2	
UK	QP-026, 10A 250V~	QP-007, 10A 250V~	HO5VV-F 3G 0.75mm^2	
US	QP-02, 10A 125V~	QP-007, 10A 125V~	SJT 18AWG 3C 105ºC	
US	QP-02, 15A 125V~	QP-007, 15A 125V~	SJT 14AWG 3C 105ºC	
US	QP-055, 15A 125V~	QP-007, 15A 125V~	SJT 14AWG 3C 105ºC	

Region	Plug	Connector	Cable	Diagram
Japan	QP-005, 10A 250V~	QP-007, 10A 250V~	HO5VV-F 3G 0.75mm^2	
India	QP-013, 16A 250V~	QP-007, 10A 250V~	3INR 3G 0.75mm^2	
China	QP-012, 10A 250V~	QP-007, 10A 250V~	VCTF 3G 2mm^2	
Israel	QP-029R, 16A 250V~	QP-007, 10A 250V~	HO5VV-F 3G 0.75mm^2	
South Africa	YP-80, 16A 250V~	QP-007, 10A 250V~	HO5VV-F 3G 0.75mm^2	
Argentina	QP-048, 10A 250V~	QP-007, 10A 250V~	HO5VV-F 3G 0.75mm^2	

Replacing and Upgrading Components

The appliances have parts that you can easily replace to minimize downtime.

There are also components that you can install to upgrade the appliance.

These parts and components can be used with the appliance:

- Telescopic rails
- Line cards
- Transceivers
- AC and DC power supply units
- Storage devices
- System memory
- Cooling fan units
- Lights Out Management - In 19100 Base / 19200 Base / 29100 Base / 29200 Base appliances, the LOM Card is optional.

For more information about how to install these parts and components, see the appliance Home Page sk180520.

Warning - Unless directed to do so by Check Point Software Technologies Ltd., you are prohibited by warranty and support agreements to replace any parts.

Restoring Factory Defaults

If necessary, restore the appliance to its factory default settings.

Important - If you restore factory defaults, note that all information on the appliance is deleted.

Restoring in Gaia Portal

To restore an appliance in Gaia Portal:

1. In your web browser, connect to the management IP address:

   ```
   https://<IP Address of Appliance>
   ```

2. Log in to the **Gaia Portal** with the administrator username and password.
3. In the left navigation tree, click **Maintenance** > **Factory Defaults**.

   The **Factory Defaults** window opens. The image installed on the appliance is shown.
4. Click **Apply**.

   The appliance reboots and begins the installation process of the selected version.

Restoring from the Boot Menu

To restore the appliance from the Boot Menu:

1. Connect the supplied serial cable's RJ45 or USB type-C connector to the console port on the front of the appliance.
2. From the computer, open a terminal emulation program such as PuTTY or Microsoft HyperTerminal.
3. Configure the terminal emulation program:
   - In PuTTY select the **Serial** connection type.
   - In the HyperTerminal **Connect To** window, select a port from the **Connect using** list.
4. Define the serial port settings:

   9600 BPS, 8 bits, no parity, 1 stop bit
5. From the **Flow control** list, select **None**.

6. Connect to the appliance.
7. Reboot or turn on the appliance.

   The appliance initializes and status messages appear in the terminal emulation program.
8. When the message "**Press any key to see the boot menu**" appears, you have approximately four seconds to hit any key to activate the **Boot** menu.
9. From the **Boot** menu, select the relevant **Reset to factory defaults** image.
10. Press **Enter**.

    The appliance initializes and status messages appear in the terminal emulation program.

Restoring in Gaia Clish

To restore the appliance in Gaia Clish:

1. Connect to the command line on the appliance.
2. Log in to **Gaia Clish**.
3. Run:

   ```
   set fcd revert<SPACE><TAB>
   ```

   ```
   set fcd revert <Name of Default Image>
   ```
4. Follow the instructions on the screen.
5. Reboot the appliance:

   ```
   reboot
   ```

Support

For additional technical information about Check Point products, consult the *Check Point Support Center*.