

Hybrid Mesh Network Security

07 September 2026

CHECK POINT FIREWALL 3900 APPLIANCES

T91, T92, and T93

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 3900 Appliances Getting Started Guide
For more about this release, see the home page.

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Revision History

Date	Description
07 September 2026	Updated *"Configuring 3900 Appliances" on page 32*
11 June 2026	Updated *"Introduction" on page 23*
14 August 2025	Updated *"Front and Rear Panel Port LEDs" on page 47*
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Safety and Environmental 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.

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:

- 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 processor chips or memory modules, avoid touching their pins or 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.
- Under no circumstances should the lithium battery cell used to power the real-time clock be allowed to short. The battery cell may heat up under these conditions and present a burn hazard.

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.

- 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.
- Do not operate the processor without a thermal solution. Damage to the processor can occur in seconds.
- Class 1 laser product warning - A totally enclosed laser system containing a class 1 laser.

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.

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.



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.

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.

Avant de manipuler une appliance ou ses blocs d'alimentations, l'éteindre et débrancher son câble électrique.

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:

- 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.
- Lorsque vous manipulez des processeurs ou des modules mémoire, évitez de toucher leurs broches ou les pistes de contact dorées.
- 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.
- Il ne faut jamais court-circuiter la pile au lithium qui alimente l'horloge temps-réel. Elle risque de s'échauffer et de causer des brûlures.

  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.

- 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.
- Ne pas faire fonctionner le processeur sans refroidissement. Le processeur peut être endommagé en quelques secondes.
- Produit laser de classe 1: un système laser totalement clos et contenant un laser de classe 1.

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'air 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 surtensions et sur le câblage électrique. Dans ce contexte, il faut tenir compte des informations mentionnées par l'étiquette apposée sur l'équipement.
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

Tout changement ou modification qui n'ont pas été approuvés formellement par le titutlaire de l'appareil, pourrait annuler le droit d'utiliser 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.



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.

Hinweise zu Sicherheit, Umwelt und elektronischen Emissionen

Lesen Sie die folgenden Warnungen, bevor Sie Einstellungen vornehmen oder das Gerät verwenden.

Warnhinweis - Die Lüftungsschlitze müssen frei gehalten werden. Der Mindestabstand beträgt 0,5 Zoll (1,27 cm).

Schalten Sie das Gerät ab und ziehen Sie den Stecker, bevor Sie ein Gestell anbringen oder entfernen oder wenn Sie in der Nähe der Stromzufuhr arbeiten.

Es ist wichtig, dabei sorgfältig vorzugehen, um Schäden an den Systemplatinen zu vermeiden. Die folgenden Maßnahmen reichen in der Regel aus, um Ihre Anlage vor elektrostatischer Entladung zu schützen:

- Tragen Sie eine geeignete Erdungsmanschette gegen die statische Entladung, wenn Sie die Platine berühren.
- Berühren Sie einen geerdeten metallischen Gegenstand, bevor Sie die Platine aus der antistatischen Schutzhülle nehmen.
- Berühren Sie die Platine nur an den Rändern. Berühren Sie nicht die Komponenten, zugehörigen Chips, Speichermodule oder goldenen Kontakte.
- Wenn Sie mit Prozessor-Chips oder Speichermodulen arbeiten, berühren Sie nicht die Pins oder die goldenen Einsteckstellen am Rand der Platine.
- Wenn die Systemplatine des Kommunikationsgerätes nicht verwendet oder angebracht wird, verstauen Sie sie wieder in der antistatischen Schutzhülle. Einige der Schaltkreise auf der Systemplatine werden unter Umständen auch dann betrieben, wenn die Stromzufuhr unterbrochen wurde.
- An der Lithiumbatteriezelle, die den Absolutzeitgeber betreibt, sollte unter keinen Umständen ein Kurzschluss möglich sein. In diesem Fall könnte sich die Batteriezelle erhitzen und eine Verbrennungsgefahr darstellen.

Warnhinweis - EXPLOSIONSGEFAHR BEI NICHT ORDNUNGSGEM?SS EINGESETZTER BATTERIE. NUR GEM?SS HERSTELLEREMPFEHLUNGEN DURCH GLEICHEN ODER ?QUIVALENTEN TYP ERSETZEN. GEBRAUCHTE BATTERIEN GEM?SS HERSTELLERANWEISUNGEN ENTSORGEN.

- Trennen Sie die Stromversorgung der Systemplatine von der entsprechenden Stromquelle, bevor Sie Kabel ein- bzw. ausstecken oder Komponenten der Systemplatine entfernen. Wenn Sie dies nicht befolgen, können Personen verletzt und die Anlage beschädigt werden.

- Schließen Sie die Lithiumbatterie nicht kurz; dies kann zur Überhitzung der Batterie und bei Berühren zu Verbrennungen führen.
- Betreiben Sie den Prozessor nur mit einer geeigneten Lösung für die Wärmekontrolle. Der Prozessor kann innerhalb von wenigen Sekunden beschädigt werden.
- Produktwarnung Laserklasse 1 – ein vollständig geschlossenes Lasersystem mit einem Laser der Klasse 1.

Anleitung zur Rackmontage

Die nachfolgende Anleitung zur Rackmontage ist Teil der Installationsanleitung:

1. Erhöhte Betriebsumgebung – Wenn das Gerät in einer geschlossenen Rackbaugruppe oder in einer Rackbaugruppe mit mehreren Einheiten installiert wird, ist die Umgebungsbetriebstemperatur des Racks unter Umständen höher als die Raumtemperatur. Deshalb sollte darauf geachtet werden, die Anlage in einer Umgebung zu installieren, die mit der vom Hersteller angegebenen Maximaltemperatur kompatibel ist.
2. Verringerter Luftstrom – Die Anlage sollte so in das Rack installiert werden, dass der für einen sicheren Betrieb der Anlage benötigte Luftstrom nicht beeinträchtigt wird.
3. Mechanische Ladung – Die Anlage sollte so im Rack installiert werden, dass keine Gefahr durch ungleichmäßig verteilte mechanische Ladung besteht.
4. Systemüberlastung – Es muss darauf geachtet werden, wie die Anlage an den Versorgungskreis angeschlossen ist, und wie sich eine Überlastung des Systems auf den Überstromschutz und die Versorgungskabel auswirken könnte. Bei diesem Thema sollte auf ein angemessenes Typenschild der Anlage geachtet werden.
5. Zuverlässige Erdung – Die rackmontierte Anlage muss sicher geerdet werden. Besondere Vorsicht ist bei Versorgungsanschlüssen geboten, die nicht direkt mit dem Netzstromkreis verbunden sind (z. B. beim Verwenden von Mehrfachsteckdosen).

Für Kalifornien:

Perchloratmaterial – Evtl. spezielle Handhabung erforderlich. Siehe http://www.dtsc.ca.gov/hazardouswaste/perchlorate

Der vorhergehende Hinweis gilt in Übereinstimmung mit dem „California Code of Regulations“ Titel 22, Abschnitt 4.5, Kapitel 33. Best Management Practices für Perchloratmaterialien. Dieses Produkt und/oder Teile davon umfassen eine Lithium-Mangandioxid-Batterie, die eine perchlorate Substanz enthält.

Proposition 65, Chemikalien

Chemikalien, die vom US-Bundesstaat Kalifornien gemäß den Anforderungen des „California Safe Drinking Water and Toxic Enforcement Act“ von 1986 (California Health & Safety Code s. 25249.5 ff., „Proposition 65“) als mögliche Ursache für Krebs oder eine fortpflanzungsgefährdende Toxizität eingestuft werden (siehe http://www.calepa.ca.gov)

WARNUNG:

Im Kabel dieses Produktes befindet sich Blei; diese Chemikalie wird vom US-Bundesstaat Kalifornien als mögliche Ursache für Krebs, Geburtsfehler oder Einschränkungen der Fortpflanzungsfähigkeit eingestuft. Waschen Sie sich anschließend die Hände.

Vorsicht

Alle Änderungen oder Modifikationen die nicht ausdrücklich vom Lizenzgeber dieses Gerätes genehmigt wurden, können zum Erlöschen der Betriebserlaubnis des Benutzers für das betreffende Gerät führen.

Benutzerinformationen:

Die Betriebs- oder Gebrauchsanleitung eines beabsichtigten oder unbeabsichtigten Radiators dienen dazu, den Benutzer vor Änderungen oder Umrüstungen zu warnen, die nicht ausdrücklich von der zuständigen Stelle für Konformität genehmigt wurden, da diese zu einem Entzug der Betriebserlaubnis für diese Anlage führen können. Wenn das Handbuch nur in anderer als gedruckter Form zur Verfügung steht, zum Beispiel auf einer Computerfestplatte oder über das Internet, ist die gemäß diesem Abschnitt erforderliche Information im Handbuch möglicherweise in dieser alternativen Form enthalten, sofern vom Benutzer erwartet werden kann, dass er auf Informationen dieser Form Zugriff hat.



Produktentsorgung

Dieses Symbol auf dem Produkt oder dessen Verpackung gibt an, dass das Produkt nicht zusammen mit Restmüll entsorgt werden darf. Es obliegt daher 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 Umwelt bei und gewährleistet, dass die Geräte auf eine Art und Weise recycelt werden, die keine Gefährdung für die Gesundheit des Menschen und der Umwelt darstellt. Weitere Informationen darüber, wo Sie alte Elektrogeräte zum Recyceln abgeben können, erhalten Sie bei den örtlichen Behörden, den Wertstoffhöfen oder dort, wo Sie das Gerät erworben haben.

Compliance Information

This section contains declaration of conformity, compliance, and related regulatory information.

3920 Declaration of Conformity

Manufacturer's Name:	Check Point Software Technologies Ltd.
Manufacturer's Address:	5 Shlomo Kaplan Street, Tel Aviv 67897, Israel
Regulated Model Number:	T91
Marketing Model	SG 3920
Date and Place of Issue	April 2025, Tel Aviv, Israel

Certification	Type
EN 55032 : 2015+A11:2020 BS EN 55032: 2015+A11:2020 EN IEC 61000-3-2 : 2019+A1:2021 BS EN IEC 61000-3-2 : 2019+A1:2021 EN 61000-3-3 : 2013+A1:2019+A2:2021+AC:2022-01 BS EN 61000-3-3 : 2013+A1:2019+A2:2021 EN 55035 : 2017+A11:2020 BS EN 55035: 2017+A11:2020 IEC 61000-4-2 : 2008 IEC 61000-4-3 : 2020 IEC 61000-4-4 : 2012 IEC 61000-4-5 : 2014+A1:2017 IEC 61000-4-6 : 2023 IEC 61000-4-8 : 2009 IEC 61000-4-11 : 2020+COR1:2020 47 CFR FCC Part 15 Subpart B ICES-003 Issue 7 : October 2020 ANSI C63.4 : 2014 VCCI-CISPR 32 : 2017 AS/NZS CISPR 32 : 2015+A1:2020	**EMI (Electromagnetic Interference) and EMC (Electromagnetic Compatibility)**

Certification	Type
CE LVD EN62368-1 CB IEC /EN62368-1 2nd and 3rd edition. AS/NZS 62368.1:2022 CSA C22.2 No. 62368-1:2019 GB 4943.1-2022 EN IEC 62368-1:2020+A11:2020, BS EN IEC 62368-1:2020+A11:2020 J62368-1 (2023) National standard SASO-IEC 62368-1:2020 UL 62368-1:2019 KC 62368-1 (2021-08) UL62368-1	**Electrical Safety**

Testing labs

Prodigy Technology Consultant Co., Ltd.	No. 12, Gong 7th Rd., Linkou District, New Taipei City 24450, Taiwan Chinese Taipei
SGS Taiwan Ltd.	Electromagnetic Compatibility LaboratoryNo.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan

3950 Declaration of Conformity

Manufacturer's Name:	Check Point Software Technologies Ltd.
Manufacturer's Address:	5 Shlomo Kaplan Street, Tel Aviv 67897, Israel
Regulated Model Number:	T92
Marketing Model:	SG 3950
Date and Place of Issue	April 2025, Tel Aviv, Israel

Certification	Type
EN 55032:2015/A11:2020, Class B EN 55035:2017/A11:2020 EN IEC 61000-3-2:2019/A1:2021 EN 61000-3-3:2013/A2:2021 AS/NZS CISPR 32:2015 AMD 1:2020 BS EN 55032:2015+A11:2020, Class B BS EN 55035:2017+A11:2020 BS EN IEC 61000-3-2:2019+A1:2021 BS EN 61000-3-3:2013+A2:2021 IEC 61000-4-2 Ed. 2.0:2008 IEC 61000-4-3 Ed. 4.0:2020 IEC 61000-4-4 Ed. 3.0:2012 IEC 61000-4-5 Ed. 3.1:2017 IEC 61000-4-6 Ed. 5.0:2023 IEC 61000-4-8 Ed. 2.0:2009 IEC 61000-4-11 Ed. 3.0:2020 47 CFR FCC Part 15 Subpart B ICES-003 Issue 7 : October 2020 ANSI C63.4 : 2014 VCCI-CISPR 32 : 2017	**EMI (Electromagnetic Interference) and EMC (Electromagnetic Compatibility)**

Certification	Type
CE LVD EN62368-1 CB IEC /EN62368-1 2nd and 3rd edition. AS/NZS 62368.1:2022 CSA C22.2 No. 62368-1:2019 GB 4943.1-2022 EN IEC 62368-1:2020+A11:2020, BS EN IEC 62368-1:2020+A11:2020 J62368-1 (2023) National standard SASO-IEC 62368-1:2020 UL 62368-1:2019 KC 62368-1 (2021-08) UL62368-1	**Electrical Safety**

Testing labs

Prodigy Technology Consultant Co., Ltd.	No. 12, Gong 7th Rd., Linkou District, New Taipei City 24450, Taiwan Chinese Taipei
DEKRA Testing and Certification Co., Ltd.	No. 85, Wenlin St., Linkou Dist., New Taipei City, 244017, Taiwan.

3970 / 3980 Declaration of Conformity

Manufacturer's Name:	Check Point Software Technologies Ltd.
Manufacturer's Address:	5 Shlomo Kaplan Street, Tel Aviv 67897, Israel
Regulated Model Number:	T93
Marketing Model:	SG 3970 / SG 3980
Date and Place of Issue	April 2025, Tel Aviv, Israel

Certification	Type
EN 55032:2015/A11:2020, Class B EN 55035:2017/A11:2020 EN IEC 61000-3-2:2019/A1:2021 EN 61000-3-3:2013/A2:2021 AS/NZS CISPR 32:2015 AMD 1:2020 BS EN 55032:2015+A11:2020, Class B BS EN 55035:2017+A11:2020 BS EN IEC 61000-3-2:2019+A1:2021 BS EN 61000-3-3:2013+A2:2021 IEC 61000-4-2 Ed. 2.0:2008 IEC 61000-4-3 Ed. 4.0:2020 IEC 61000-4-4 Ed. 3.0:2012 IEC 61000-4-5 Ed. 3.1:2017 IEC 61000-4-6 Ed. 5.0:2023 IEC 61000-4-8 Ed. 2.0:2009 IEC 61000-4-11 Ed. 3.0:2020 47 CFR FCC Part 15 Subpart B ICES-003 Issue 7 : October 2020 ANSI C63.4 : 2014 VCCI-CISPR 32 : 2017	**EMI (Electromagnetic Interference) and EMC (Electromagnetic Compatibility)**

Certification	Type
CE LVD EN62368-1 CB IEC /EN62368-1 2nd and 3rd edition. AS/NZS 62368.1:2022 CSA C22.2 No. 62368-1:2019 GB 4943.1-2022 EN IEC 62368-1:2020+A11:2020, BS EN IEC 62368-1:2020+A11:2020 J62368-1 (2023) National standard SASO-IEC 62368-1:2020 UL 62368-1:2019 KC 62368-1 (2021-08) UL62368-1	**Electrical Safety**

Testing labs

Prodigy Technology Consultant Co., Ltd.	No. 12, Gong 7th Rd., Linkou District, New Taipei City 24450, Taiwan Chinese Taipei
DEKRA Testing and Certification Co., Ltd.	No. 85, Wenlin St., Linkou Dist., New Taipei City, 244017, Taiwan.

CE – Electromagnetic Compatibility (EMC) Directive Compliance Statement

This product/s complies with the **Electromagnetic Compatibility Directive 2014/30/EU** of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to electromagnetic compatibility.

The equipment has been designed and tested to ensure that it does not emit electromagnetic disturbances and is not unduly affected by external electromagnetic interference, thereby ensuring that it performs as intended within its electromagnetic environment.

This device has been assessed to meet the essential requirements and other relevant provisions.

CE – Low Voltage Directive (LVD) Compliance Statement

This product/ complies with the **requirements of the Low Voltage Directive 2014/35/EU** of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits. The equipment has been designed and manufactured to ensure that it operates safely within its intended use and does not endanger the health or safety of persons, domestic animals, or property when properly installed, maintained, and used in applications for which it was intended.

This device also conforms to the essential requirements and other relevant provisions of applicable EU directives, including RoHS Directive 2011/65/EU (and amendments, such as EU 2015/863).

FCC Statement – Part 15, Subpart B (Unintentional Radiators)

This equipment has been tested and found to comply with the limits for a **Class B 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 into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

ISED Class B Digital Apparatus Statement

This Class B digital apparatus complies with **Canadian CAN ICES-003(B)/NMB-003(B)**.

Cet appareil numérique de la classe B est conforme à la norme **CAN ICES-003(B)/NMB-003 (B) du Canada**.

VCCI Class B Compliance Statement (Japan)

This is a **Class B** product based on the standard of the **Voluntary Control Council for Interference (VCCI)** for information technology equipment. This product is designed to minimize electromagnetic interference and can be used in a home environment. However, if this equipment is used in a residential environment, radio interference may occur. If this happens, the user may need to take corrective actions, such as repositioning the device or changing its settings to reduce interference.

Japanese (日本語):
この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づく**クラスB情報技術装置**です。
この装置は家庭環境で使用されることを前提としており、家庭内で使用した場合、ラジオやテレビ受信機に電波障害を引き起こすことがあります。
その場合は、ユーザーが適切な対応（位置調整や設定変更など）を行う必要がある場合があります。

Introduction

Welcome

Congratulations on your new 3900 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.

Limitations

Deployment Configuration limitations

- The 3900 Security Gateway Appliance do not support the Standalone configuration.
- The 3900 Security Gateway Appliance do not support the Maestro configuration.

Data Loss Prevention limitations

- On the 3900 Security Gateway Appliance, the Data Loss Prevention (DLP) Software Blade does not support email inspection and enforcement. Inspection of HTTP, HTTPS, and FTP is supported.

Threat Emulation limitations

- On the 3900 Security Gateway Appliance, the Threat Emulation Software Blade does not support Local Emulation.

Hardware Diagnostics limitations

- On the 3900 Security Gateway Appliance, the "Network test" in "HW Diagnostics" (in the Boot Menu) is not supported.

Network Interfaces limitations

- On the 3900 Security Gateway Appliance, changing the value of any of these parameters on one of the interfaces will change this value on all switch interfaces: `rx-ringsize`, `tx-ringsize`, `mq`. This may briefly interrupt the traffic through the interfaces.
- These internal interfaces "`eth-cpuport`" and "`eth-switch`" do not have an IP address.
- You cannot change any settings on these internal interfaces "`eth-cpuport`" and "`eth-switch`".
- Gaia Portal and Gaia Clish do not show these internal interfaces "`eth-cpuport`" and "`eth-switch`".

Zero Touch Configuration limitations

On the 3900 Security Gateway Appliances, the LED of the Network Port that should receive IP address from DHCP for Zero Touch configuration does not blink.

The Power LED limitations

- On the 3900 Security Gateway Appliance, the Power LED and other LEDs remain lit even after running shutdown or halt command. To shut down the appliance completely, you must also use the power switch.

Transceivers (model-specific) limitations

- On the Check Point Firewall 3920 model, the 1 GbE SFP port (eth9) does not support the transceiver CPAC-TR-1SX-D.
- On the Check Point Firewall 3920 model, the 1 GbE SFP port (eth9) does not support the transceiver CPAC-TR-1T-D.
- In the Check Point Firewall 3920 model, you must use only 10 Gbps transceivers in the interfaces eth10 and eth11. In the Check Point Firewall 3970and Check Point Firewall 3980 models, you must use only 10 Gbps transceivers in the interfaces from eth27, eth28, eth29, and eth30. When replacing a 1Gbps transceiver with a 10Gbps transceiver, and the reverse, you must reboot the appliance.

Port Speed (model-specific) limitations

- On the Check Point Firewall 3950, 3970, 3980 models, the 2.5 GbE RJ45 ports operate with the auto-negotiation enabled at the speeds of 1 Gbps and faster. This may lead to a mismatch between user-configured speeds and the actual speed.

3900 Appliances Overview

The 3900 Security Gateway Appliance series is built to protect branch offices from both known and unknown threats with Anti-Virus, Anti-Bot, SandBlast Threat Emulation (Sandboxing), and SandBlast Threat Extraction technologies.

The Check Point 3900 Security Gateway appliance series combines the most comprehensive security protections to safeguard your branch and small office deployments.

The 3000 Security Gateway Appliance series is available in a compact desktop form factor, whereas the latest 3900 generation also offers a 1U form factor.

This powerful Security Gateway Appliance is optimized to deliver real-world Threat Prevention to secure your critical assets and environments.

The latest 3900 Appliances, 3920, 3950, 3970, and 3980, come with a first-year subscription to the full SandBlast Prevention suite.

Security Appliance	Form Factor	In this document
Check Point Firewall 3920 Appliance	Desktop	3920
Check Point Firewall 3950 Appliance	Desktop	3950
Check Point Firewall 3970 Appliance	1U	3970
Check Point Firewall 3980 Appliance	1U	3980

3900 Appliances Shipping Carton Contents

This section describes the shipping carton contents.

Legend

Item	Description	Quantity
Appliance	3920 / 3950	1
Accessory Kit	LAN cable (1.8m, RJ45 to RJ45, CAT6, shielded, STP)	1
	Console cable (1m, USB type-C to USB 2.0 type-A)	1
	Power adapter AC to 12VDC desktop, 60W	1
	Power adapter power cable- plug types per shipment destination	1
	Wall mount kit (2 screws, 2 anchor screws, and drilling hole location illustration sticker)	1
Documentation	Welcome to Check Point QR Page (with Safety instructions on the other side of the page)	1

Legend

Item	Description	Quantity
Appliance	3970 / 3980	1
Accessory Kit	LAN cable (1.8m, RJ45 to RJ45, CAT6, shielded, STP)	1
	Console cable (1m, USB type-C to USB – 2.0 type-A)	1
	Power cable - plug types per shipment destination	2
	Rack mount kit (2 ear mount brackets and 6 screws)	1
	Rack screws and nuts (4 screws and 4 nuts to attach the appliance to the rack posts)	8
	Power cable restraints	2
Documentation	Welcome to Check Point QR Page (with Safety instructions on the other side of the page)	1

Terminology

The following terms are used in this guide:

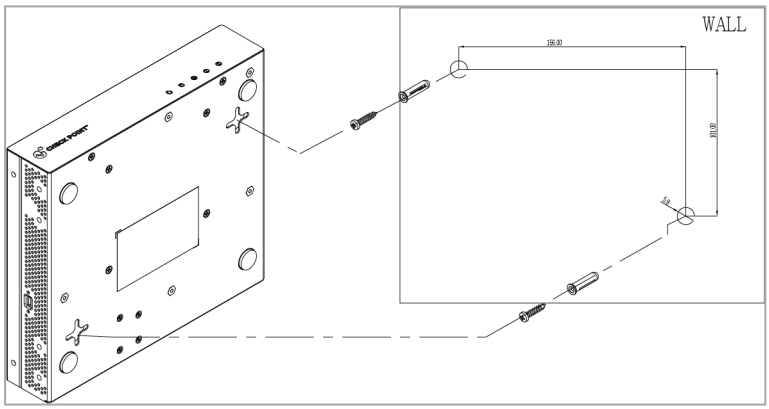
- **Security Gateway**: The security engine that enforces the organization's security policy and acts as a security enforcement point.
- **Security Policy**: The Policy created by the system administrator that regulates the flow of incoming and outgoing communication.
- **Security Management Server**: 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.
- **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 3900 Appliances

Mounting the 3920 / 3950 Appliance on a Wall

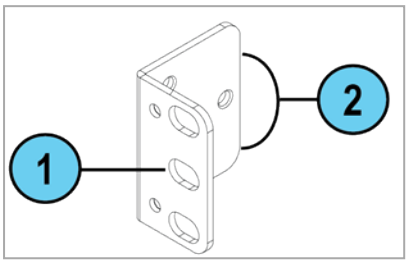
To mount the 3920 / 3950 appliance on a wall:

1. Prepare the wall mount kit accessories: screws, anchor screws, and wall mount sticker located in the appliance box.
2. Place the wall-mount sticker on the wall and drill two holes for the screws. Make sure the holes are aligned with the sticker's markings.
3. Insert the 2 screw anchors into the holes drilled in the wall.
4. Attach the 2 screws in the accessory kit to the wall. Make sure there is 2 - 3 mm space between the screw head and the wall.
5. Mount the appliance on the screws.



Mounting the 3970 / 3980 Appliance in a Rack

To mount the appliance in a rack, attach the ear mount brackets to the left and right sides of the front of the appliance, then fasten the brackets to the rack using rack post screws.

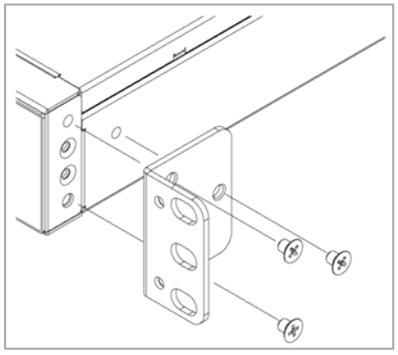


Legend

Item	Hardware Description	Use
1	Rack post mounting holes for the rack mounting screws	Locks the appliance into the rack when screws are fastened
2	Holes for ear mount bracket screws	Attaches the ear mount bracket to the appliance

To attach the ear mount brackets to the appliance:

1. Position the ear mount bracket on the side of the appliance near the front panel.
2. Secure the ear mount bracket using the three ear mount bracket screws from the accessory kit.



3. Do steps 1 -2 again for the other side of the appliance.

To install the appliance in the rack:

1. Secure the ear mount brackets to the rack post with the supplied rack screws and nuts.
2. Follow your rack mount instructions to complete the installation.

Mounting the 3920 / 3950 Appliance in a Rack

You can install a single 3920 / 3950 appliance in a 19" rack with ear bracket hardware (as an optional accessory instead of the supplied wall mount hardware).

See the *Rack Mounting Guide* for the procedure.

3900 Appliances Physical Specifications

These are the physical specifications of the Check Point 3900 appliances.

3920 Specifications

Item	Value
Regulated Model	T91
Width	8.268 in (21 cm)
Depth	7.638 in (19.4 cm)
Height	1.673 in (4.25 cm)
Maximum Operating Temperature	32°F - 104°F 0°C - 40°C
Electrical Specifications	100V (2.0A) - 240V (2.0A) 50-60 Hz

3950 Specifications

Item	Value
Regulated Model	T92
Width	8.268 in (21 cm)
Depth	8.264 in (20.99cm)
Height	1.673 in (4.25 cm)
Maximum Operating Temperature	32°F - 104°F 0°C - 40°C
Electrical Specifications	100V (2.0A) - 240V (2.0A) 50-60Hz

3970 / 3980 Specifications

Item	Value
Regulated Model	T93
Width	16.929 in (43 cm)
Depth	11.811 in (30 cm)
Height	1.74 in (4.42 cm)
Maximum Operating Temperature	32°F - 104°F 0°C - 40°C
Electrical Specifications	100V (3.15A) - 240V (3.15A) 50-60Hz

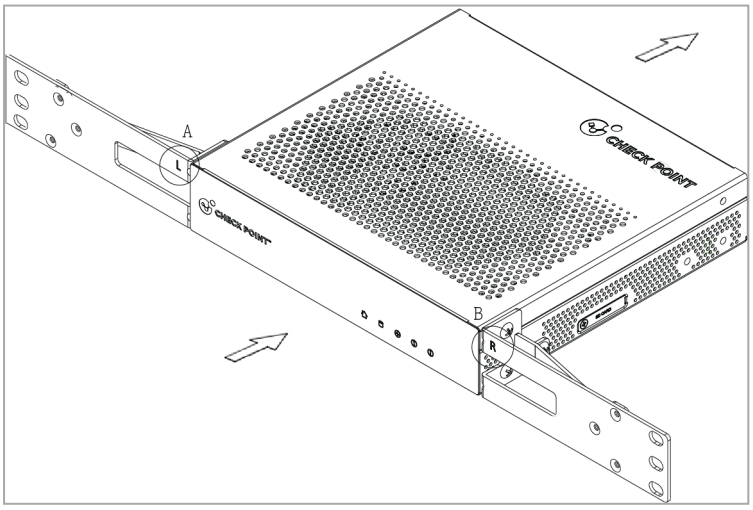
Appliance Air Vents

Make sure that the appliance air vents have sufficient airflow from front to rear when the 3920 / 3950 / 3970 / 3980 appliance is mounted in a rack.

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

The appliance and rack mountings have been tested in extreme conditions and do not block air flow to the appliance.

The air flow in 3900 appliances (appliance shown is 3920):



Configuring 3900 Appliances

Limitations

- The 3900 Security Gateway Appliance do not support the Maestro configuration.
- On the 3900 Security Gateway Appliance, the Data Loss Prevention (DLP) Software Blade does not support email inspection and enforcement. Inspection of HTTP, HTTPS, and FTP is supported.
- On the 3900 Security Gateway Appliances, the LED of the Network Port that should receive IP address from DHCP for Zero Touch configuration does not blink.
- On the 3900 Security Gateway Appliance, the Power LED and other LEDs remain lit even after running shutdown or halt command. To shut down the appliance completely, you must also use the power switch.

Initial Configuration

These are the initial configuration methods you can use. Select one:

- In 3920 and 3950 appliances, scan the QR code located on the bottom of the appliance and follow the instructions.
- In 3970 / 3980 appliances, scan the QR code that appears on the *"Service tag" on page 42* and follow the instructions.
- Scan the QR code on the "Welcome to Check Point" QR Page and follow the instructions that appear.
- Browse to *Welcome to Check Point's appliance setup*, select your appliance model from the list, and follow the instructions.
- Configure a single appliance or multiple appliances automatically with the Check Point Zero Touch service.

Starting the Appliance

Step 1: Connect Network Cables

Connect the required network cables to the appliance.

If you plan to use **Zero Touch provisioning** and the appliance must obtain an IP address from DHCP, connect the internet cable to the designated DHCP port for your appliance model.

Step 2: Connect the Power Source

3920 Appliance

1. Connect the power adapter cable to the power supply inlet on the rear panel.
2. Press the **Power** button.

The appliance starts.

3950 / 3970 / 3980 Appliances

1. Connect the power cables to the power supply inlets on the rear panel.
2. Press the **Power** switch.

The appliance starts.

Step 3: Wait for the Appliance to Boot

Allow the appliance to complete the startup process.

When the appliance is ready, continue with the initial configuration.

Step 4: Perform the Initial Configuration

Choose one of these methods:

- Scan the appliance QR code and follow the on-screen instructions.
- Scan the QR code on the **Welcome to Check Point** page.
- Open the **Welcome to Check Point appliance setup** portal and select your appliance model.
- Configure the appliance automatically with **Zero Touch**.

Step 5: Run the First Time Configuration Wizard

Use the **First Time Configuration Wizard** to:

1. Configure the management interface.
2. Assign network settings.
3. Define the gateway role.
4. Configure the SIC activation key.
5. Complete the basic Gaia configuration.

Step 6: Create the Security Gateway Object in SmartConsole

1. Connect SmartConsole to the Security Management Server.
2. Create a new **Security Gateway** object.
3. Enter the appliance IP address.
4. Establish SIC using the activation key configured during the First Time Configuration Wizard.
5. Configure the gateway topology.
6. Install the Security Policy.

Step 7: (Optional) Configure Additional Settings

Configure advanced settings using:

- Gaia Portal
- Gaia Clish
- SSH
- Serial console

Supported Sync Ports

Appliance	Supported Sync Ports
3920	eth9 (default), eth10, eth11
3950	eth11

Accessing the CLI

You can connect to the appliance CLI using:

- SSH to the management interface
- USB Type-C console cable
- RJ45 console cable (3970/3980 only)

Serial console settings:

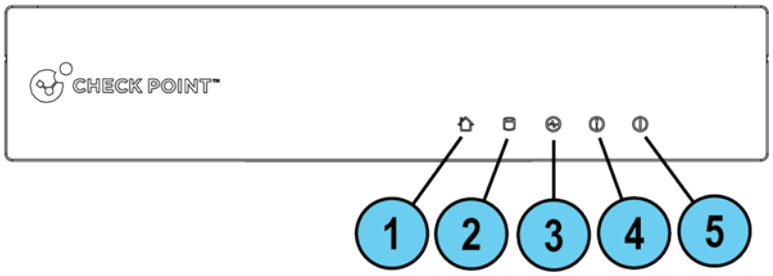
- Speed: **9600 bps**
- Data bits: **8**
- Parity: **None**
- Stop bits: **1**
- Flow Control: **None** (8N1)

Connect the appliance to a power source to turn on the appliance. When the appliance is ready, you can do the First Time Configuration Wizard to configure it. For more information, see the *Gaia Administration Guide* for your version - Configuring Gaia for the First Time.

3900 Appliances Hardware

Front Panel

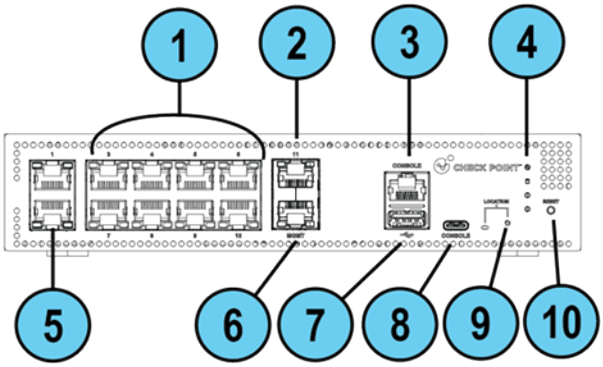
3920 Front Panel



Legend

Item	Component	Description	
1		Location LED	■ Off - Location beacon is turned off. ■ Blinking blue: • Location beacon is turned on in Gaia Portal or with the **Location** button on the rear panel. • During Zero Touch configuration.
2		Storage device activity	■ Off - No storage device activity. ■ On (Green) - Read/Write activity.
3		Power supply status	■ Off - No power / no status. ■ Amber - Power supply fault was detected. ■ Green - All power supplies are functioning.
4		Alert	■ Off - No faults were detected. ■ Blinking red - System fault was detected.
5		System power	■ Off - System power is off. ■ On (Green) - System power is on.

3950 Front Panel



Legend

Item	Component	Description
1	8 x 1 GbE RJ45 ports	In the Gaia OS on the appliance, these interfaces are assigned the names from `eth3` to `eth10`. **Important:** ▪ These are Pseudo Switch Ports. See *"Switch Ports" on page 51*. ▪ For Zero Touch, you use port #3 (`eth3`). ▪ The top row of ports (from left to right): `eth3`, `eth4`, `eth5`, and `eth6` ▪ The bottom row of ports (from left to right): `eth7`, `eth8`, `eth9`, and `eth10`
2	1 x 10 GbE RJ45 port	In the Gaia OS on the appliance, this interface is assigned the name `eth11`.
3	Console RJ45 port	For a serial connection to the appliance. See *"Configuring 3900 Appliances" on page 32*.

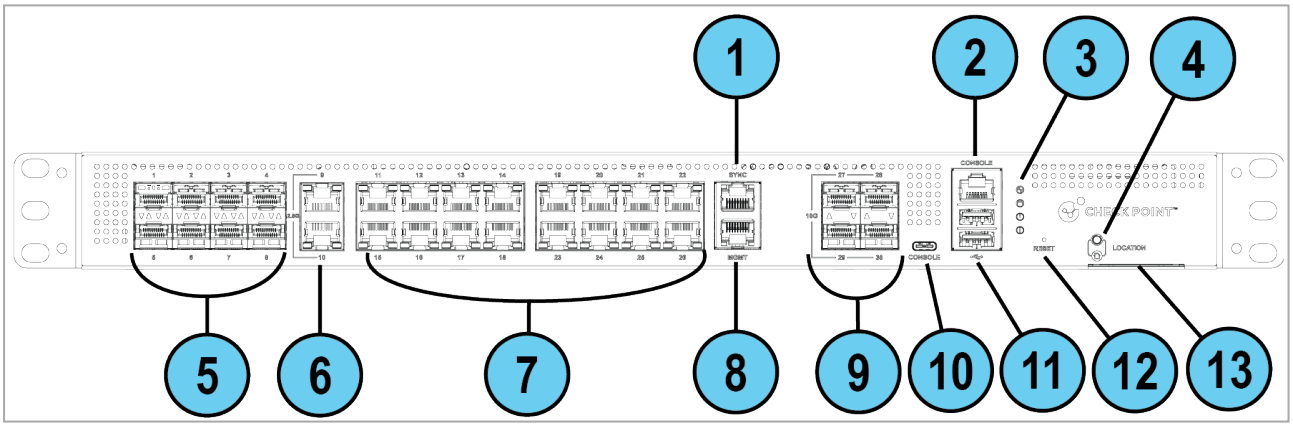
Legend (continued)

Item	Component	Description		
4	System LEDs		Power supply status	■ Off - No power / no status. ■ Amber - Power supply fault was detected. ■ Green - All power supplies are functioning.
			Storage device activity	■ Off - No storage device activity. ■ On (Green) - Read/Write activity.
			Alert	■ Off - No faults were detected. ■ Blinking red - System fault was detected.
			System power	■ Off - System power is off. ■ On (Green) - System power is on.
5	2 x 2.5 GbE RJ45 ports	In the Gaia OS on the appliance, these interfaces are assigned the names `eth1` (top) and `eth2` (bottom). **Important** - These are Pseudo Switch Ports. See *"Switch Ports" on page 51*.		
6	Management 10 GbE RJ45 port	For a connection to a remote management computer. In the Gaia OS on the appliance, this interface is assigned the name `Mgmt`.		
7	USB port	USB 3.0 port.		
8	Console port	USB Type-C console port for a serial connection to the appliance.		

Legend (continued)

Item	Component	Description		
9	Location LED and button		Location	■ Off - Location beacon is turned off. ■ Blinking blue: • Location beacon is turned on in Gaia Portal or with the **Location** button. • During Zero Touch configuration.
10	Reset	Insert a pin for 5 to 8 seconds to perform a hardware reset.		

3970 / 3980 Front Panel



Legend

Item	Component	Description
1	Synchronization 1 GbE RJ45 port	In a cluster configuration, use this port for synchronization with other cluster members. In the Gaia OS on the appliance, this interface is assigned the name `Sync`.
2	Console RJ45 port	For a serial connection to the appliance. See *"Configuring 3900 Appliances" on page 32*.

Legend (continued)

Item	Component	Description		
3	System LEDs		Power supply status	■ Off - No power / no status. ■ Amber - Power supply fault was detected. ■ Green - All power supplies are functioning.
			Storage device activity	■ Off - No storage device activity. ■ On (Green) - Read/Write activity.
			Alert	■ Off - No faults were detected. ■ Blinking red - System fault was detected.
			System power	■ Off - System power is off. ■ On (Green) - System power is on.
4	Location LED and button		Location	■ Off - Location beacon is turned off. ■ Blinking blue: • Location beacon is turned on in Gaia Portal or with the **Location** button. • During Zero Touch configuration.

Legend (continued)

Item	Component	Description
5	8 x 1 GbE SFP ports	In the Gaia OS on the appliance, these interfaces are assigned the names from `eth1` to `eth8`. **Important** - These are Pseudo Switch Ports. See *"Switch Ports" on page 51*. ■ The top row of ports (from left to right): `eth1`, `eth2`, `eth3`, and `eth4` ■ The bottom row of ports (from left to right): `eth5`, `eth6`, `eth7`, and `eth8`
6	2 x 2.5 GbE RJ45 ports	In the Gaia OS on the appliance, these interfaces are assigned the names from `eth9` and `eth10`. **Important** - These are Pseudo Switch Ports. See *"Switch Ports" on page 51*. ■ The top port: `eth9` ■ The bottom port: `eth10`
7	16 x 1 GbE RJ45 ports	In the Gaia OS on the appliance, these interfaces are assigned the names from `eth11` to `eth26`. **Important** - These are Pseudo Switch Ports. See *"Switch Ports" on page 51*. ■ The top row of ports (from left to right): `eth11`, `eth12`, `eth13`, `eth14`, `eth19`, `eth20`, `eth21`, and `eth22` ■ The bottom row of ports (from left to right): `eth15`, `eth16`, `eth17`, `eth18`, `eth23`, `eth24`, `eth25`, and `eth26` **Important** - For Zero Touch, you must use port #11 (`eth11`).
8	Management 1 GbE RJ45 port	For a connection to a remote management computer. In the Gaia OS on the appliance, this interface is assigned the name `Mgmt`.

Legend (continued)

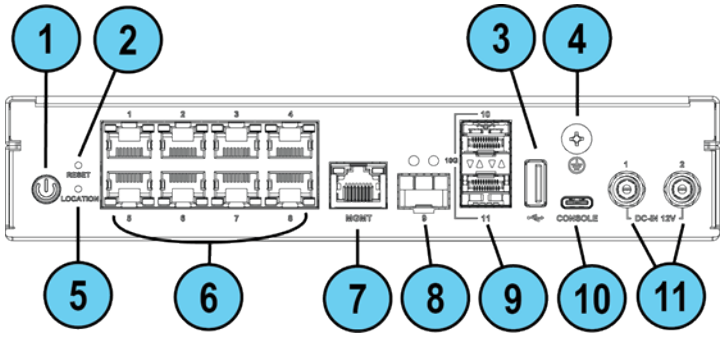
Item	Component	Description
9	4 x 10 GbE SFP+ ports	In the Gaia OS on the appliance, these interfaces are assigned the names from `eth27` to `eth30`. **Important** - These are Pseudo Switch Ports. See *"Switch Ports" on page 51*. ■ The top row of ports (from left to right): `eth27` and `eth28` ■ The bottom row of ports (from left to right): `eth29` and `eth30`
10	Console port	USB Type-C console port for a serial connection to the appliance.
11	USB ports	Two USB 3.0 ports.
12	Reset	Insert a pin for 5 to 8 seconds to perform a hardware reset.
13	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 view documentation and on-board the appliance.

Rear Panel

Limitations

- On the Check Point Firewall 3920 model, the 1 GbE SFP port (eth9) does not support the transceiver CPAC-TR-1SX-D.
- On the Check Point Firewall 3920 model, the 1 GbE SFP port (eth9) does not support the transceiver CPAC-TR-1T-D.
- In the Check Point Firewall 3920 model, you must use only 10 Gbps transceivers in the interfaces eth10 and eth11. In the Check Point Firewall 3970and Check Point Firewall 3980 models, you must use only 10 Gbps transceivers in the interfaces from eth27, eth28, eth29, and eth30. When replacing a 1Gbps transceiver with a 10Gbps transceiver, and the reverse, you must reboot the appliance.
- On the Check Point Firewall 3950, 3970, 3980 models, the 2.5 GbE RJ45 ports operate with the auto-negotiation enabled at the speeds of 1 Gbps and faster. This may lead to a mismatch between user-configured speeds and the actual speed.

3920 Rear Panel



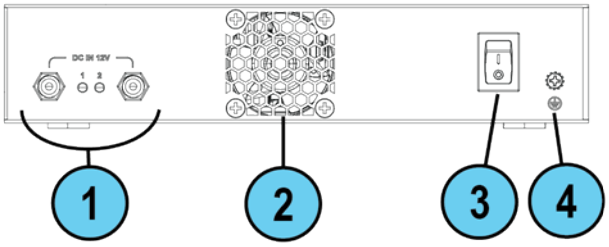
Legend

Item	Component	Description
1	Power button	Push to turn the appliance on or off.
2	Reset	Insert a pin for 5 to 8 seconds to perform a hardware reset.
3	USB port	USB 3.0 port.
4	Grounding screw	To connect the appliance to the ground.
5	Location	Insert a pin to turn on or turn off the Location LED on the front panel.

Legend (continued)

Item	Component	Description
6	8 x 1 GbE RJ45 ports	In the Gaia OS on the appliance, these interfaces are assigned the names `eth1` to `eth8`. **Important:** ▪ These are Pseudo Switch Ports. See *"Switch Ports" on page 51*. ▪ For Zero Touch, you must use port #1 (`eth1`). ▪ The top row of ports (from left to right): `eth1`, `eth2`, `eth3`, and `eth4` ▪ The bottom row of ports (from left to right): `eth5`, `eth6`, `eth7`, and `eth8`
7	Management 1 GbE RJ45 port	For an Ethernet connection to a remote management computer. In the Gaia OS on the appliance, this interface is assigned the name `Mgmt`.
8	1 GbE SFP port	In the Gaia OS on the appliance, this interface is assigned the name `eth9`
9	2 x 10 GbE SFP+ ports	In the Gaia OS on the appliance, these interfaces are assigned the names `eth10` and `eth11`. ▪ The top port: `eth10` ▪ The bottom port: `eth11`
10	Console port	USB Type-C console port for a serial connection to the appliance.
11	Power adapter sockets	Plug the power adapter cables here.

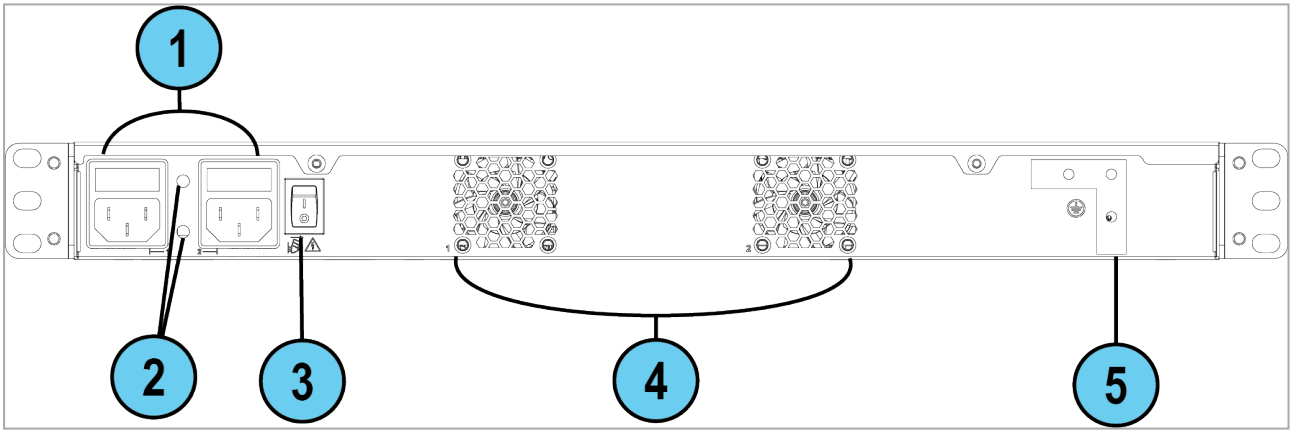
3950 Rear Panel



Legend

Item	Component	Description
1	Power adapter sockets	Plug the power adapter cables here. The sockets are numbered from left to right - 1 and 2.
2	Fixed cooling fan	
3	Main power switch	When the appliance is turned off, turns the appliance on. When the appliance is turned on, pressing and releasing the switch will start an orderly shutdown process. Alternatively, holding the switch for 4 seconds will force a machine shut down.
4	Grounding screw	To connect the appliance to the ground.

3970 / 3980 Rear Panel



Legend

Item	Component	Description
1	Power inlet	Connect the power cables to an electric outlet. The inlets are numbered from left to right - 1 and 2.
2	Restraint strip slot	You can use cable restraints to avoid accidental removal of the power cables.
3	Main power switch	When the appliance is turned off, turns the appliance on. When the appliance is turned on, pressing and releasing the switch will start an orderly shutdown process. Alternatively, holding the switch for 4 seconds will force a machine shut down.

Legend (continued)

Item	Component	Description
4	Fixed cooling fans	Numbered from left to right - 1 and 2.
5	Metal grounding plate	Used to connect the grounding lug.

Front and Rear Panel Port LEDs

For information on the front and rear panel port LEDs, see sk183375.

Grounding the 3920 and 3950 Appliances

Procedure to connect earth ground to the 3920 and 3950 appliances

1. Prepare the required grounding wire that complies with the local regulations.

   The minimum wire gauge is 18 AWG.

   One end of this grounding wire must connect to the ground in your environment.

   To the other end of this grounding, attach the applicable lug that matches the grounding screw on the appliance.
2. Place the ground lug attached to the ground cable over the protective grounding terminal.
3. Secure the grounding lug to the protective grounding terminal with a washer and screw.
4. Make sure the grounding wire does not touch or block access to other components.

Grounding the 3970 / 3980 Appliance

Procedure to connect earth ground to the 3970 / 3980 appliance

Before you start, make sure you have these items:

- A UL listed two-hole grounding lug, similar to Panduit LCD10-14A-L.
- Copper grounding wire 18 AWG (the insulation color must be green and yellow to meet the IEC/UL 62368-1 CL5.6.2.2 requirement or the insulation color must comply with your local electrical regulations).
- Grounding design that complies with the country or local electrical codes.
- A wire crimping tool suitable for the grounding lug type.
- A screwdriver suitable for the grounding screws.

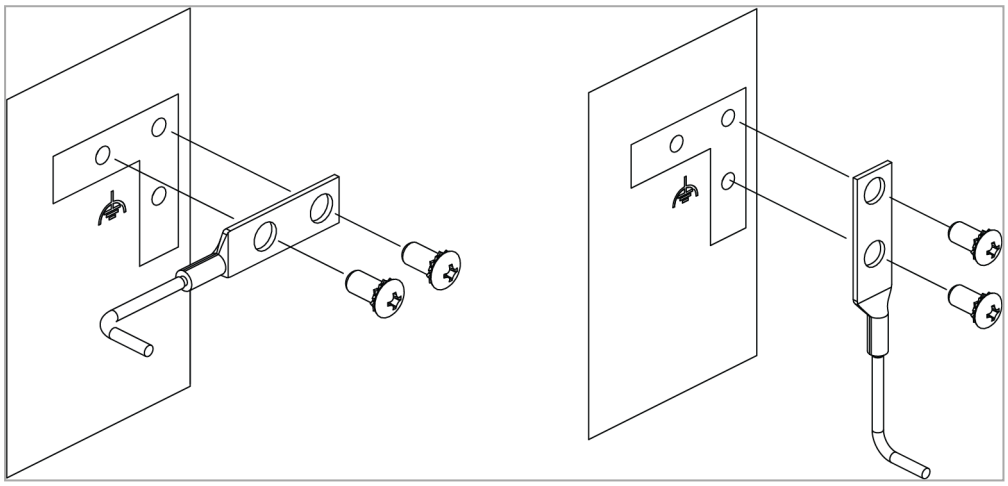
Prerequisites:

1. Insert the grounding wire in the lug (connector).
2. Use the crimping tool to crimp the lug onto the grounding wire.

3. Place the screwdriver near the appliance rear panel.

Procedure:

1. On the appliance rear panel, locate the metal grounding plate (on the far right).
2. Remove two screws from the metal grounding plate (depends on which direction you want to attach the grounding lug, vertically or horizontally).
3. Attach the grounding lug to the grounding plate.



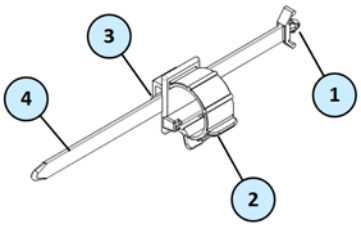
4. Make sure the two holes in the grounding lug are aligned with the corresponding holes in the grounding plate.
5. Insert the first grounding screw through one of the holes in the grounding lug so it goes into the corresponding hole in the grounding plate.
6. Use a screwdriver to tighten the first screw (maximum torque of 6 kgf×cm).
7. Insert the second grounding screw through the second hole in the grounding lug so it goes into the corresponding hole in the grounding plate.
8. Use a screwdriver to tighten the second screw (maximum torque of 6 kgf×cm).

Installing the Power Cable Restraint Strip in 3970 / 3980 Appliances

Procedure to install the power cable restraint strip on the 3970 / 3980 appliance

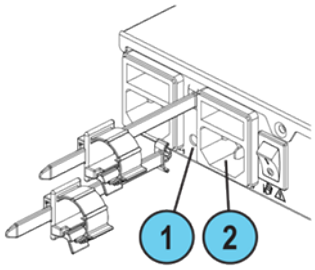
In 3970 / 3980 Appliances, the shipping carton contains two restraint strips.

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



Legend

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



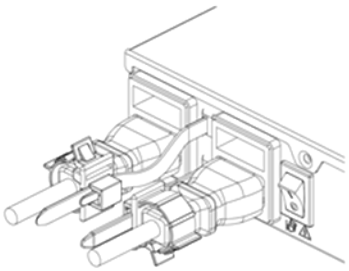
Legend

Item	Description
1	Restraint strip slot
2	Power supply inlet

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.

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.



Optional Hardware Components

Explanation

The 3900 Appliances have optional components that you can use with the appliance:

- Ear mounts for rack mounting - for 3920 and 3950 appliances
- AC Power Adapter - for 3920 and 3950 appliances
- Transceivers - for 3920 and 3970 / 3980 appliances

For more information about installing these hardware components, see sk183199.

Unless directed to do so by Check Point technical support, you are prohibited by warranty and support agreements from replacing any internal parts in the appliance.

Switch Ports

Limitations

- On the 3900 Security Gateway Appliance, changing the value of any of these parameters on one of the interfaces will change this value on all switch interfaces: `rx-ringsize`, `tx-ringsize`, `mq`. This may briefly interrupt the traffic through the interfaces.
- These internal interfaces "`eth-cpuport`" and "`eth-switch`" do not have an IP address.
- You cannot change any settings on these internal interfaces "`eth-cpuport`" and "`eth-switch`".
- Gaia Portal and Gaia Clish do not show these internal interfaces "`eth-cpuport`" and "`eth-switch`".

Explanation

The 3900 Appliances have two types of network ports:

- Regular physical ports.
- Switch ports.

Explanation about the regular physical ports:

- The regular (non-switch ports) connect to the CPU cores of the appliance directly.
- For the regular ports, the output of the Expert mode command "`ethtool -i <Name of Interface>`" shows:

```
driver: net_cn10k
version: DPDK <x.x.x>
```

- There are no changes in the traffic flow through the regular ports.

Explanation about the switch ports:

- The switch ports connect to the CPU cores of the appliance in this way:

  [Appliance Ports] <===> [CPU Port "`eth-cpuport`"] <===> [Master Port "`eth-switch`"] <===> [CPU Cores that run CoreXL and SecureXL]

- For the switch ports, the output of the Expert mode command "`ethtool -i <Name of Interface>`" shows:

```
driver: DSA Pseudo Ethernet
version: Version <x.x>
```

- In the Gaia OS, the internal CPU Port appears as the interface called "eth-cpuport" in the CPView tool and the Expert mode commands "ifconfig", "ethtool" and others.
- In the Gaia OS, the internal Master Port appears as the interface called "eth-switch" in the CPView tool and the Expert mode commands "ifconfig", "ethtool" and others.
- Gaia Portal and Gaia Clish do not show these internal interfaces "eth-cpuport" and "eth-switch".
- These internal interfaces "eth-cpuport" and "eth-switch" do not have an IP address.
- These internal interfaces "eth-cpuport" and "eth-switch" must always appear in various CLI outputs in the status "up" with the established link.
- You cannot change any settings on these internal interfaces "eth-cpuport" and "eth-switch".
- The CPView tool counts packets and bits through these internal interfaces "eth-cpuport" and "eth-switch" but excludes them from the "total" counters (on the **Network** > **Interfaces** > **Traffic** page).
- In some cases, the internal interface "eth-cpuport" may drop packets.

  For example, if the TX queue of an outgoing switch port is full.

  The CPView tool counts these drops and shows them on the **Network** > **Interfaces** > **Traffic** page > in the section **Errors and Drops**.
- In the output of the Expert mode command "ethtool -S" *<Name of Interface>*", the names of counters for the switch ports start with the string "sw_" (for example, "sw_rx_unicat_packets").
- Packet flow through a switch port:

  1. Traffic arrives at the appliance switch port.
  2. The switch port adds a Distributed Switch Architecture (DSA) tag to the packet.

     You can see this tag in traffic captured with the tools "tcpdump", "cppcap", and "fw monitor".
  3. The switch port forwards the packet with the DSA tag to the Master Port ("eth-switch") queue via the "eth-cpuport".

4. One of the CoreXL SND instances takes the packet from the queue, removes the DSA tag, and forwards it to a CoreXL Firewall instance.
5. The CoreXL Firewall instance forwards the first packet of a connection to Firewall (Slow (or F2F) path) for full inspection.
6. Based on the Firewall decision, the subsequent packets of the connection go through the applicable path (Fast, Medium, or Slow).
7. If the packet is allowed, SecureXL adds the applicable DSA tag to the packet and forwards the packet to the corresponding appliance port.

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 from Gaia Portal

Use the **Gaia Portal** to restore the appliance to the factory default settings.

To restore a Gaia appliance from the Gaia Portal:

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

   ```
   https://<IP Address of Management Port>
   ```

2. Log in to the **Gaia Portal** of the appliance 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 installs the selected version from scratch.

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 (3950 / 3970 / 3980) or rear of the appliance (3920).
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 are shown in the terminal emulation program.
8. When the message "**Press any key to see the boot menu**" is shown, 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 are shown in the terminal emulation program.

Restoring from Gaia Clish

To restore the appliance from 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 Image>
   ```

4. Follow the instructions on the screen.
5. Reboot

   ```
   <reboot>
   ```

Registration and Support

Registration

The appliance requires a product-specific Check Point license.

Connect to the Portal of the appliance (from **Advanced** mode, select **Maintenance > Licenses**) to find the MAC address that is required to obtain a license.

Alternatively, you can read the MAC address off the service tag on the appliance. Refer to *"Front Panel" on page 36*.

Support

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

Where To From Here?

You have the basics to get started. The next step is to get more advanced knowledge of your Check Point software.