



Cisco 3365 Mobility Services Engine Installation Guide

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Preface

This preface describes the audience, organization, and conventions of the *Cisco MSE 3365 Installation Guide*. It also provides information about how to obtain related documentation.

Audience

This guide is for experienced network administrators who configure and maintain Cisco Mobility Services Engine.

Conventions

This document uses the following conventions for notes, cautions, and safety warnings. Notes and cautions contain important information that you should know.



Note

Means *reader take note*. Notes contain helpful suggestions or references to material that are not covered in the publication.



Caution

Means *reader be careful*. Cautions contain information about something you might do that could result in equipment damage or loss of data.

Safety warnings appear throughout this guide in procedures that, if performed incorrectly, can cause physical injuries. A warning symbol precedes each warning statement.



Warning

IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device. Statement 1071

SAVE THESE INSTRUCTIONS

Waarschuwing

BELANGRIJKE VEILIGHEIDSINSTRUCTIES

Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico's en dient u op de hoogte te zijn van de standaard praktijken om ongelukken te voorkomen. Gebruik het nummer van de verklaring onderaan de waarschuwing als u een vertaling van de waarschuwing die bij het apparaat wordt geleverd, wilt raadplegen.

BEWAAR DEZE INSTRUCTIES

Varoitus

TÄRKEITÄ TURVALLISUUSOHJEITA

Tämä varoitusmerkki merkitsee vaaraa. Tilanne voi aiheuttaa ruumiillisia vammoja. Ennen kuin käsittelet laitteistoa, huomioi sähköpiirien käsittelemiseen liittyvät riskit ja tutustu onnettomuuksien yleisiin ehkäisytapoihin. Turvallisuusvaroitusten käännökset löytyvät laitteen mukana toimitettujen käännettyjen turvallisuusvaroitusten joukosta varoitusten lopussa näkyvien lausuntonumeroiden avulla.

SÄILYTÄ NÄMÄ OHJEET

Attention

IMPORTANTES INFORMATIONS DE SÉCURITÉ

Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant entraîner des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers liés aux circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Pour prendre connaissance des traductions des avertissements figurant dans les consignes de sécurité traduites qui accompagnent cet appareil, référez-vous au numéro de l'instruction situé à la fin de chaque avertissement.

CONSERVEZ CES INFORMATIONS

Warnung

WICHTIGE SICHERHEITSHINWEISE

Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu Verletzungen führen kann. Machen Sie sich vor der Arbeit mit Geräten mit den Gefahren elektrischer Schaltungen und den üblichen Verfahren zur Vorbeugung vor Unfällen vertraut. Suchen Sie mit der am Ende jeder Warnung angegebenen Anweisungsnummer nach der jeweiligen Übersetzung in den übersetzten Sicherheitshinweisen, die zusammen mit diesem Gerät ausgeliefert wurden.

BEWAHREN SIE DIESE HINWEISE GUT AUF.

Avvertenza IMPORTANTI ISTRUZIONI SULLA SICUREZZA

Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. Prima di intervenire su qualsiasi apparecchiatura, occorre essere al corrente dei pericoli relativi ai circuiti elettrici e conoscere le procedure standard per la prevenzione di incidenti. Utilizzare il numero di istruzione presente alla fine di ciascuna avvertenza per individuare le traduzioni delle avvertenze riportate in questo documento.

CONSERVARE QUESTE ISTRUZIONI

Advarsel VIKTIGE SIKKERHETSINSTRUKSJONER

Dette advarselssymbolet betyr fare. Du er i en situasjon som kan føre til skade på person. Før du begynner å arbeide med noe av utstyret, må du være oppmerksom på farene forbundet med elektriske kretser, og kjenne til standardprosedyrer for å forhindre ulykker. Bruk nummeret i slutten av hver advarsel for å finne oversettelsen i de oversatte sikkerhetsadvarslene som fulgte med denne enheten.

TA VARE PÅ DISSE INSTRUKSJONENE

Aviso INSTRUÇÕES IMPORTANTES DE SEGURANÇA

Este símbolo de aviso significa perigo. Você está em uma situação que poderá ser causadora de lesões corporais. Antes de iniciar a utilização de qualquer equipamento, tenha conhecimento dos perigos envolvidos no manuseio de circuitos elétricos e familiarize-se com as práticas habituais de prevenção de acidentes. Utilize o número da instrução fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham este dispositivo.

GUARDE ESTAS INSTRUÇÕES

¡Advertencia! INSTRUCCIONES IMPORTANTES DE SEGURIDAD

Este símbolo de aviso indica peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considere los riesgos de la corriente eléctrica y familiarícese con los procedimientos estándar de prevención de accidentes. Al final de cada advertencia encontrará el número que le ayudará a encontrar el texto traducido en el apartado de traducciones que acompaña a este dispositivo.

GUARDE ESTAS INSTRUCCIONES

Varning! VIKTIGA SÄKERHETSANVISNINGAR

Denna varningssignal signalerar fara. Du befinner dig i en situation som kan leda till personskada. Innan du utför arbete på någon utrustning måste du vara medveten om farorna med elkretsar och känna till vanliga förfaranden för att förebygga olyckor. Använd det nummer som finns i slutet av varje varning för att hitta dess översättning i de översatta säkerhetsvarningar som medföljer denna anordning.

SPARA DESSA ANVISNINGAR

Figyelem

FONTOS BIZTONSÁGI ELOÍRÁSOK

Ez a figyelmeztető jel veszélyre utal. Sérülésveszélyt rejto helyzetben van. Mielott bármely berendezésen munkát végezte, legyen figyelemmel az elektromos áramkörök okozta kockázatokra, és ismerkedjen meg a szokásos balesetvédelmi eljárásokkal. A kiadványban szereplo figyelmeztetések fordítása a készülékhez mellékelte biztonsági figyelmeztetések között található; a fordítás az egyes figyelmeztetések végén látható szám alapján keresheto meg.

ORIZZE MEG EZEKET AZ UTASÍTÁSOKAT!

Предупреждение

ВАЖНЫЕ ИНСТРУКЦИИ ПО СОБЛЮДЕНИЮ ТЕХНИКИ БЕЗОПАСНОСТИ

Этот символ предупреждения обозначает опасность. То есть имеет место ситуация, в которой следует опасаться телесных повреждений. Перед эксплуатацией оборудования выясните, каким опасностям может подвергаться пользователь при использовании электрических цепей, и ознакомьтесь с правилами техники безопасности для предотвращения возможных несчастных случаев. Воспользуйтесь номером заявления, приведенным в конце каждого предупреждения, чтобы найти его переведенный вариант в переводе предупреждений по безопасности, прилагаемом к данному устройству.

СОХРАНИТЕ ЭТИ ИНСТРУКЦИИ

重要的安全性说明

此警告符号代表危险。您正处于可能受到严重伤害的工作环境中。在您使用设备开始工作之前，必须充分意识到触电的危险，并熟练掌握防止事故发生的标准工作程序。请根据每项警告结尾提供的声明号码来找到此设备的安全性警告说明的翻译文本。

请保存这些安全性说明

的标准工作程序。详

安全上の重要な注意事項

「危険」の意味です。人身事故を予防するための注意事項が記述されています。装置の取り扱い作業を行うときは、電気回路の危険性に注意し、一般的な事故防止策に留意してください。警告の各国語版は、各注意事項の番号を基に、装置に付属の「Translated Safety Warnings」を参照してください。

これらの注意事項を保管しておいてください。

주의

중요 안전 지침

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이 지시 사항을 보관하십시오.

Aviso INSTRUÇÕES IMPORTANTES DE SEGURANÇA

Este símbolo de aviso significa perigo. Você se encontra em uma situação em que há risco de lesões corporais. Antes de trabalhar com qualquer equipamento, esteja ciente dos riscos que envolvem os circuitos elétricos e familiarize-se com as práticas padrão de prevenção de acidentes. Use o número da declaração fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham o dispositivo.

GUARDE ESTAS INSTRUÇÕES

Advarsel VIGTIGE SIKKERHEDSANVISNINGER

Dette advarselssymbol betyder fare. Du befinder dig i en situation med risiko for legemesbeskadigelse. Før du begynder arbejde på udstyr, skal du være opmærksom på de involverede risici, der er ved elektriske kredsløb, og du skal sætte dig ind i standardprocedurer til undgåelse af ulykker. Brug erklæringsnummeret efter hver advarsel for at finde oversættelsen i de oversatte advarsler, der fulgte med denne enhed.

GEM DISSE ANVISNINGER

تحذير

إرشادات الأمان الهامة

يوضح رمز التحذير هذا وجود خطر. وهذا يعني أنك متواجد في مكان قد ينتج عنه التعرض للإصابات. قبل بدء العمل، احذر مخاطر التعرض للصدمات الكهربائية وكن على علم بالإجراءات القياسية للحيلولة دون وقوع أي حوادث. استخدم رقم البيان الموجود في آخر كل تحذير لتحديد مكان ترجمته داخل تحذيرات الأمان المترجمة التي تأتي مع الجهاز. قم بحفظ هذه الإرشادات

Upozorenje VAŽNE SIGURNOSNE NAPOMENE

Ovaj simbol upozorenja predstavlja opasnost. Nalazite se u situaciji koja može prouzročiti tjelesne ozljede. Prije rada s bilo kojim uređajem, morate razumjeti opasnosti vezane uz električne sklopove, te biti upoznati sa standardnim načinima izbjegavanja nesreća. U prevedenim sigurnosnim upozorenjima, priloženima uz uređaj, možete prema broju koji se nalazi uz pojedino upozorenje pronaći i njegov prijevod.

SAČUVAJTE OVE UPUTE

Upozornění DŮLEŽITÉ BEZPEČNOSTNÍ POKYNY

Tento upozorňující symbol označuje nebezpečí. Jste v situaci, která by mohla způsobit nebezpečí úrazu. Před prací na jakémkoliv vybavení si uvědomte nebezpečí související s elektrickými obvody a seznamte se se standardními opatřeními pro předcházení úrazům. Podle čísla na konci každého upozornění vyhledejte jeho překlad v přeložených bezpečnostních upozorněních, která jsou přiložena k zařízení.

USCHOVEJTE TYTO POKYNY

Προειδοποίηση ΣΗΜΑΝΤΙΚΕΣ ΟΔΗΓΙΕΣ ΑΣΦΑΛΕΙΑΣ

Αυτό το προειδοποιητικό σύμβολο σημαίνει κίνδυνο. Βρίσκεστε σε κατάσταση που μπορεί να προκαλέσει τραυματισμό. Πριν εργαστείτε σε οποιοδήποτε εξοπλισμό, να έχετε υπόψη σας τους κινδύνους που σχετίζονται με τα ηλεκτρικά κυκλώματα και να έχετε εξοικειωθεί με τις συνήθεις πρακτικές για την αποφυγή ατυχημάτων. Χρησιμοποιήστε τον αριθμό δήλωσης που παρέχεται στο τέλος κάθε προειδοποίησης, για να εντοπίσετε τη μετάφρασή της στις μεταφρασμένες προειδοποιήσεις ασφαλείας που συνοδεύουν τη συσκευή.

ΦΥΛΑΞΤΕ ΑΥΤΕΣ ΤΙΣ ΟΔΗΓΙΕΣ

הרהר

הוראות בטיחות חשובות

סימן אזהרה זה מסמל סכנה. אתה נמצא במצב העלול לגרום לפציעה. לפני שתעבוד עם ציוד כלשהו, עליך להיות מודע לסכנות הכרוכות במעגלים חשמליים ולהכיר את הנהלים המקובלים למניעת תאונות. השתמש במספר ההוראה המסופק בסופה של כל אזהרה כדי לאתר את התרגום באזהרות הבטיחות המתורגמות שמצורפות להתקן.

שמור הוראות אלה

Opomena

ВАЖНИ БЕЗБЕДНОСНИ НАПАТСТВИЈА

Симболот за предупредување значи опасност. Се наоѓате во ситуација што може да предизвика телесни повреди. Пред да работите со опремата, бидете свесни за ризикот што постои кај електричните кола и треба да ги познавате стандардните постапки за спречување на несреќни случаи. Искористете го бројот на изјавата што се наоѓа на крајот на секое предупредување за да го најдете неговиот период во преведените безбедносни предупредувања што се испорачани со уредот.

ЧУВАЈТЕ ГИ ОБИЕ НАПАТСТВИЈА

Ostrzeżenie

WAŻNE INSTRUKCJE DOTYCZĄCE BEZPIECZEŃSTWA

Ten symbol ostrzeżenia oznacza niebezpieczeństwo. Zachodzi sytuacja, która może powodować obrażenia ciała. Przed przystąpieniem do prac przy urządzeniach należy zapoznać się z zagrożeniami związanymi z układami elektrycznymi oraz ze standardowymi środkami zapobiegania wypadkom. Na końcu każdego ostrzeżenia podano numer, na podstawie którego można odszukać tłumaczenie tego ostrzeżenia w dołączonym do urządzenia dokumencie z tłumaczeniami ostrzeżeń.

NINIEJSZE INSTRUKCJE NALEŻY ZACHOWAĆ

Upozornenie

DÔLEŽITÉ BEZPEČNOSTNÉ POKYNY

Tento varovný symbol označuje nebezpečenstvo. Nachádzate sa v situácii s nebezpečenstvom úrazu. Pred prácou na akomkoľvek vybavení si uvedomte nebezpečenstvo súvisiace s elektrickými obvodmi a oboznámte sa so štandardnými opatreniami na predchádzanie úrazom. Podľa čísla na konci každého upozornenia vyhľadajte jeho preklad v preložených bezpečnostných upozorneniach, ktoré sú priložené k zariadeniu.

USCHOVAJTE SI TENTO NÁVOD

Opozorilo POMEMBNI VARNOSTNI NAPOTKI

Ta opozorilni simbol pomeni nevarnost. Nahajate se v situaciji, kjer lahko pride do telesnih poškodb. Preden pričnete z delom na napravi, se morate zavedati nevarnosti udara električnega toka, ter tudi poznati preventivne ukrepe za preprečevanje takšnih nevarnosti. Uporabite obrazložitevno številko na koncu posameznega opozorila, da najdete opis nevarnosti v priloženem varnostnem priročniku.

SHRANITE TE NAPOTKE!

警告 重要安全性指示
此警告符號代表危險，表示可能造成人身傷害。使用任何設備前，請留心電路相關危險，並熟悉避免意外的標準作法。您可以使用每項警告後的聲明編號，查詢本裝置隨附之安全性警告譯文中的翻譯。請妥善保留此指示

Related Documentation

For more information about the Mobility Services Engine and related products, see the following URL:
<http://www.cisco.com/c/en/us/support/wireless/mobility-services-engine/tsd-products-support-series-home.html>

Obtain Documentation and Submit a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation*.

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the [What's New in Cisco Product Documentation RSS feed](#). The RSS feeds are a free service.





Overview

This guide provides step-by-step instructions on how to physically install and power up the Cisco 3365 Mobility Services Engine (MSE). Details on running the automatic installation script is also provided.

This chapter contains the following sections:

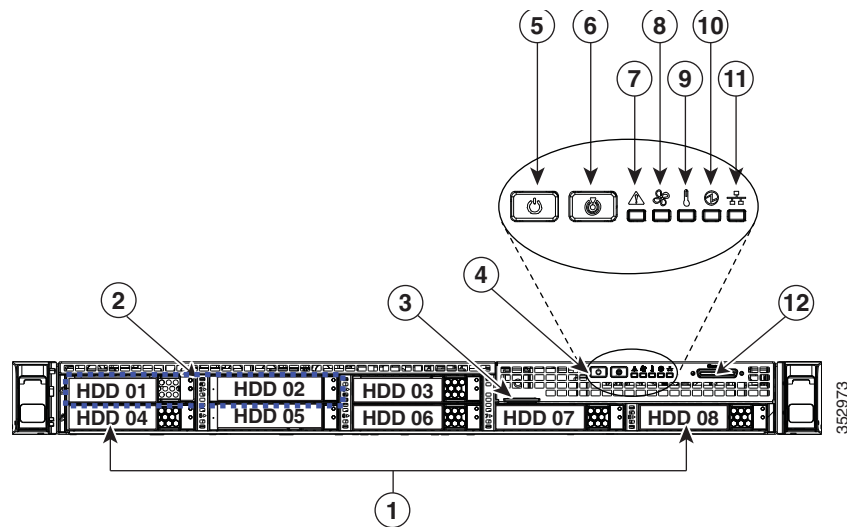
- [External Features Overview, page 1-1](#)
- [Status LEDs and Buttons, page 1-3](#)
- [General Warnings, Regulatory and Safety, page 1-8](#)

External Features Overview

The Cisco MSE 3365 comes with four Small form factor (SFF) drives. See [Figure 1-1](#).

Figure 1-1 shows the front panel of the Cisco MSE 3365.

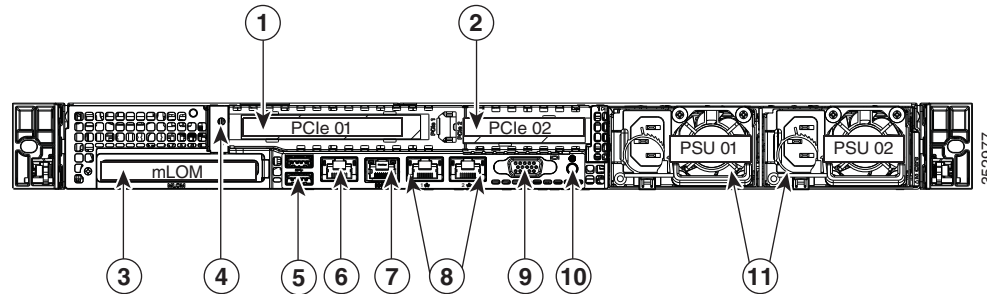
Figure 1-1 Cisco MSE 3365 Front Panel



1	Drive bays 1–8 support SAS/SATA drives)	7	System status LED
2	Drive bays 1 and 2 support SAS/SATA and NVMe PCIe solid state drives (SSDs)	8	Fan status LED
3	Pull-out asset tag	9	Temperature status LED
4	Operations panel buttons and LEDs	10	Power supply status LED
5	Power button/power status LED	11	Network link activity LED
6	Unit identification button/LED	12	KVM connector (used with KVM cable that provides two USB 2.0, one VGA, and one serial connector)

Figure 1-2 shows the rear panel of the Cisco MSE 3365.

Figure 1-2 Cisco MSE 3365 Rear Panel



1	PCIe riser 1/slot 1 (not used)	7	Serial port (RJ-45 connector)
2	PCIe riser 2/slot 2 (not used)	8	Dual 1-Gb Ethernet ports (LAN1 and LAN2). Port 1 is normally used by the Cisco MSE (eth0) for communication with the Cisco Wireless LAN Controllers and Cisco Prime Infrastructure.
3	Modular LAN-on-motherboard (mLOM) card slot (not used)	9	VGA video port (DB-15)
4	Grounding-lug hole (for DC power supplies)	10	Rear unit identification button/LED
5	USB 3.0 ports (two)	11	Power supplies (two, redundant as 1+1)
6	1-Gb Ethernet dedicated management port		

Status LEDs and Buttons

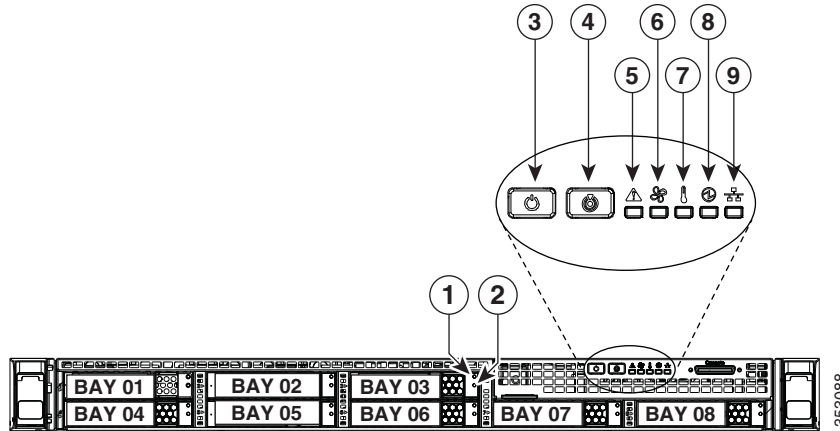
This section describes the location and meaning of LEDs and buttons and includes the following topics

- [Front Panel LEDs, page 1-3](#)
- [Rear Panel LEDs and Buttons, page 1-6](#)

Front Panel LEDs

Figure 1-3 shows the front panel LEDs. Table 1-1 defines the LED states.

Figure 1-3 Front Panel LEDs



1	Hard drive fault LED	6	Fan status LED
2	Hard drive activity LED	7	Temperature status LED
3	Power button/power status LED	8	Power supply status LED
4	Identification button/LED	9	Network link activity LED
5	System status LED		

Table 1-1 Front Panel LEDs, Definitions of States

LED Name	State
1 Hard drive fault	<ul style="list-style-type: none"> Off—The hard drive is operating properly. Amber—Drive fault detected. Amber, blinking—The device is rebuilding. Amber, blinking with one-second interval—Drive locate function activated.
2 Hard drive activity	<ul style="list-style-type: none"> Off—There is no hard drive in the hard drive tray (no access, no fault). Green—The hard drive is ready. Green, blinking—The hard drive is reading or writing data.
3 Power button/LED	<ul style="list-style-type: none"> Off—There is no AC power to the Cisco MSE 3365. Amber—Cisco MSE 3365 is in standby power mode. Power is supplied only to the Cisco IMC and some motherboard functions. Green—Cisco MSE 3365 is in main power mode. Power is supplied to all the MSE 3365 components.
4 Unit identification	<ul style="list-style-type: none"> Off—The unit identification function is not in use. Blue—The unit identification function is activated.

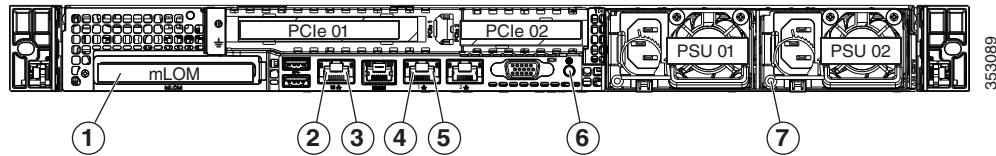
Table 1-1 Front Panel LEDs, Definitions of States (continued)

	LED Name	State
5	System status	<ul style="list-style-type: none"> • Green—Cisco MSE 3365 is running in normal operating condition. • Green, blinking—Cisco MSE 3365 is performing system initialization and memory check. • Amber, steady—Cisco MSE 3365 is in a degraded operational state. For example: <ul style="list-style-type: none"> – Power supply redundancy is lost. – CPUs are mismatched. – At least one CPU is faulty. – At least one DIMM is faulty. – At least one drive in a RAID configuration failed. • Amber, blinking—Cisco MSE 3365 is in a critical fault state. For example: <ul style="list-style-type: none"> – Boot failed. – Fatal CPU and/or bus error is detected. – Cisco MSE 3365 is in an over-temperature condition.
6	Fan status	<ul style="list-style-type: none"> • Green—All fan modules are operating properly. • Amber, steady—One or more fan modules breached the critical threshold. • Amber, blinking—One or more fan modules breached the non-recoverable threshold.
7	Temperature status	<ul style="list-style-type: none"> • Green—Cisco MSE 3365 is operating at normal temperature. • Amber, steady—One or more temperature sensors breached the critical threshold. • Amber, blinking—One or more temperature sensors breached the non-recoverable threshold.
8	Power supply status	<ul style="list-style-type: none"> • Green—All power supplies are operating normally. • Amber, steady—One or more power supplies are in a degraded operational state. • Amber, blinking—One or more power supplies are in a critical fault state.
9	Network link activity	<ul style="list-style-type: none"> • Off—The Ethernet link is idle. • Green—One or more Ethernet LOM ports are link-active, but there is no activity. • Green, blinking—One or more Ethernet LOM ports are link-active, with activity.

Rear Panel LEDs and Buttons

Figure 1-4 shows the rear panel LEDs and buttons. Table 1-2 defines the LED states.

Figure 1-4 Rear Panel LEDs and Buttons



1	Optional mLOM card LEDs. Note This LED is not applicable for Cisco MSE 3365.	5	1-Gb Ethernet link status LED
2	1-Gb Ethernet dedicated management link status LED	6	Rear unit identification button/LED
3	1-Gb Ethernet dedicated management link speed LED	7	Power supply status LED
4	1-Gb Ethernet link speed LED		

Table 1-2 Rear Panel LEDs, Definitions of States

LED Name	State
2 1-Gb Ethernet dedicated management link speed	<ul style="list-style-type: none"> Off—Link speed is 10 Mbps. Amber—Link speed is 100 Mbps. Green—Link speed is 1 Gbps.
3 1-Gb Ethernet dedicated management link status	<ul style="list-style-type: none"> Off—No link is present. Green—Link is active. Green, blinking—Traffic is present on the active link.
4 1-Gb Ethernet link speed	<ul style="list-style-type: none"> Off—Link speed is 10 Mbps. Amber—Link speed is 100 Mbps. Green—Link speed is 1 Gbps.
5 1-Gb Ethernet link status	<ul style="list-style-type: none"> Off—No link is present. Green—Link is active. Green, blinking—Traffic is present on the active link.

Table 1-2 *Rear Panel LEDs, Definitions of States (continued)*

	LED Name	State
6	Rear unit identification	<ul style="list-style-type: none">• Off—The unit identification LED is not in use.• Blue—The unit identification LED is activated.
7	Power supply status	AC power supplies: <ul style="list-style-type: none">• Off—No AC input (12 V main power off, 12 V standby power off).• Green, blinking—12 V main power off; 12 V standby power on.• Green, solid—12 V main power on; 12 V standby power on.• Amber, blinking—Warning detected but 12 V main power on.• Amber, solid—Critical error detected; 12 V main power off.

General Warnings, Regulatory and Safety

Conventions

Safety warnings appear throughout this guide in procedures that may harm you if performed incorrectly. A warning symbol precedes each warning statement. Specific warnings are included in the sections to which they apply.



Warning

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device. **Statement 1071 SAVE THESE INSTRUCTIONS**



Caution

Means reader be careful. In this situation, you might do something that could result in equipment damage or loss of data.

Warnings

The warnings below are general warnings that are applicable to the entire guide. Specific warnings are included in the sections to which they apply.



Warning

There is the danger of explosion if the battery is replaced incorrectly. Replace the battery only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. **Statement 1015**



Warning

This equipment must be grounded. Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available. **Statement 1024**



Warning

Read the installation instructions before connecting the system to the power source. **Statement 1004**



Warning

Only trained and qualified personnel should be allowed to install, replace, or service this equipment. **Statement 1030**



Warning

Ultimate disposal of this product should be handled according to all national laws and regulations. **Statement 1040**

Regulatory and Safety



Note Refer to [Appendix A](#) for translated safety information for the Cisco 3365 Mobility Services Engine.



Note Refer to [Appendix B](#) for regulatory information for the Cisco 3365 Mobility Services Engine.



Installation and Initial Configuration

This chapter describes how to initially install and configure your Cisco 3365 Mobility Services Engine.

This chapter contains these sections:

- [Unpacking and Inspecting the Cisco MSE 3365, page 2-2](#)
- [Preparing for Cisco MSE 3365 Installation, page 2-2](#)
- [Installing the Cisco MSE 3365 in a Rack, page 2-4](#)
- [Initial Setup, page 2-11](#)
- [NIC Modes, page 2-17](#)
- [Configuring the Mobility Services Engine, page 2-17](#)
- [Manually Stopping Mobility Services Engine Software, page 2-23](#)
- [Manually Restarting a Running Mobility Services Engine, page 2-24](#)
- [Updating Mobility Services Engine Software, page 2-24](#)
- [Recovering a Lost Root Password, page 2-26](#)



Note

For configuration details beyond initial installation, refer to the appropriate mobility services configuration guide at:

http://www.cisco.com/en/US/products/ps9742/tsd_products_support_series_home.html

Rack Warnings



Warning

To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety: (1) This unit should be mounted at the bottom of the rack if it is the only unit in the rack. (2) When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack. (3) If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack. Statement 1006.



Caution

To reduce the risk of personal injury or equipment damage when unloading a rack, at least two people are needed to safely unload the rack from the pallet.

**Caution**

To prevent damage, ensure that water or excessive moisture cannot get into the mobility services engine.

Unpacking and Inspecting the Cisco MSE 3365

**Caution**

When handling internal Cisco MSE 3365 components, wear an ESD strap and handle modules by the carrier edges only.

**Tip**

Keep the shipping container, in case the Cisco MSE 3365 requires shipping in the future.

**Note**

The chassis is thoroughly inspected before shipment. If any damage occurred during transportation or any items are missing, contact your customer service representative immediately.

To unpack the Cisco MSE 3365, follow these steps.

-
- Step 1** Remove the Cisco MSE 3365 from its cardboard container and save all packaging material.
- Step 2** Check for damage and report any discrepancies or damage to your customer service representative. Have the following information ready:
- Invoice number for shipper (see the packing slip)
 - Serial number of the damaged unit
 - Description of the damage
 - Effect of damage on the installation.
-

Preparing for Cisco MSE 3365 Installation

This section provides information about preparing for Cisco MSE 3365 installation, and it includes the following topics:

- [Installation Guidelines, page 2-3](#)
- [Rack Requirements, page 2-3](#)
- [Equipment Requirements, page 2-4](#)
- [Slide Rail Adjustment Range, page 2-4](#)

Installation Guidelines



Warning

To prevent the system from overheating, do not operate it in an area that exceeds the maximum recommended ambient temperature of: 40° C (104° F).

Statement 1047



Warning

The plug-socket combination must be accessible at all times, because it serves as the main disconnecting device.

Statement 1019



Warning

This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that the protective device is rated not greater than: 250 V, 15 A.

Statement 1005



Warning

Installation of the equipment must comply with local and national electrical codes.

Statement 1074



Caution

To ensure proper airflow it is necessary to rack the MSE 3365 using rail kits. Physically placing the units on top of one another or “stacking” without the use of the rail kits blocks the air vents on top of Cisco MSE 3365, which could result in overheating, higher fan speeds, and higher power consumption. We recommend that you mount your Cisco MSE 3365 on rail kits when you are installing them into the rack because these rails provide the minimal spacing required between the MSE 3365s. No additional spacing between Cisco MSE 3365s is required when you mount the units using rail kits.



Caution

Avoid UPS types that use ferroresonant technology.

When you are installing an MSE 3365, use the following guidelines:

- Plan your site configuration and prepare the site before installing the Cisco MSE 3365.
- Ensure that there is adequate space around Cisco MSE 3365 to allow for servicing the MSE 3365 and for adequate airflow. The airflow in the Cisco MSE 3365 is from front to back.
- Ensure that the air-conditioning meets the thermal requirements listed in the Cisco MSE 3365 Specifications.
- Ensure that the cabinet or rack meets the requirements listed in the “Rack Requirements” section.
- Ensure that the site power meets the power requirements listed in the Cisco MSE 3365 Specifications. If available, you can use an uninterruptible power supply (UPS) to protect against power failures.

Rack Requirements

This section provides the requirements for standard open racks:

The rack must be of the following type:

- A standard 19-in. (48.3-cm) wide, four-post EIA rack, with mounting posts that conform to English universal hole spacing, per section 1 of ANSI/EIA-310-D-1992.
- The rack post holes can be square 0.38-inch (9.6 mm), round 0.28-inch (7.1 mm), #12-24 UNC, or #10-32 UNC when you use the supplied slide rails.
- The minimum vertical rack space per Cisco MSE 3365 must be one RU, equal to 1.75 in. (44.45 mm).

Equipment Requirements

The slide rails shipped with the Cisco MSE 3365 do not require tools for installation.

Slide Rail Adjustment Range

The slide rails shipped with the Cisco MSE 3365 have an adjustment range of 24 to 36 inches (610 to 914 mm).

Installing the Cisco MSE 3365 in a Rack

This section contains the following sections:

- [Installing the Slide Rails, page 2-4](#)
- [Installing the Cable Management Arm \(Optional\), page 2-7](#)
- [Reversing the Cable Management Arm \(Optional\), page 2-8](#)

Installing the Slide Rails

This section describes how to install the Cisco MSE 3365 in a rack using the rack kits that are sold by Cisco.



Warning

To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:

This unit should be mounted at the bottom of the rack if it is the only unit in the rack.

When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.

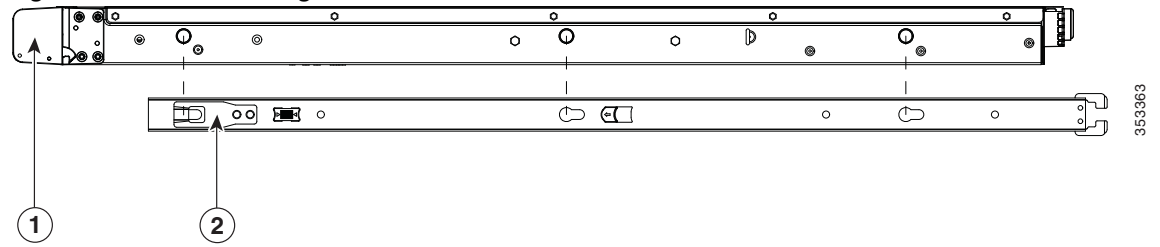
If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack.
Statement 1006

Step 1 Attach the inner rails to the sides of the Cisco MSE 3365:

1. Align an inner rail with one side of the Cisco MSE 3365 so that the three keyed slots in the rail align with the three pegs on the side of the Cisco MSE 3365 (see Figure 2-1).
2. Set the keyed slots over the pegs, and then slide the rail toward the front to lock it in place on the pegs. The front slot has a metal clip that locks over the front peg.

3. Install the second inner rail to the opposite side of the Cisco MSE 3365.

Figure 2-1 Attaching Inner Rail to Side of Cisco MSE 3365

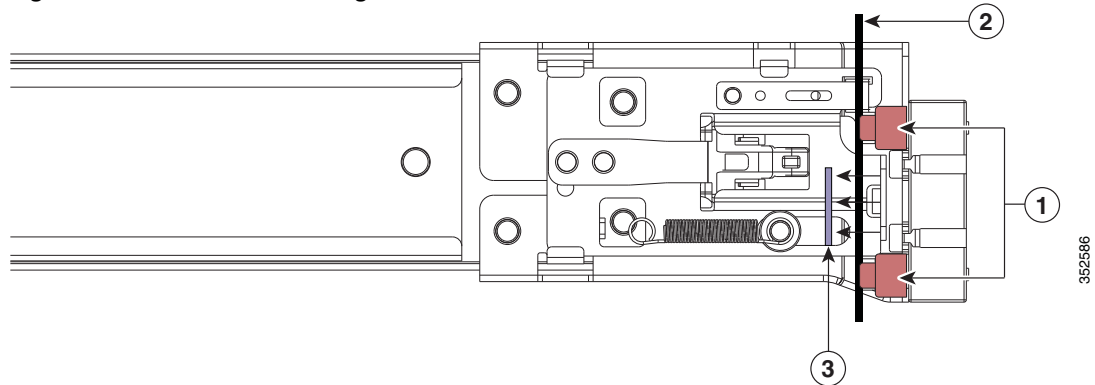


1	Front of Cisco MSE 3365	2	Locking clip on inner rail
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Step 2 Open the front securing plate on both slide-rail assemblies. The front end of the slide-rail assembly has a spring-loaded securing plate that must be open before you can insert the mounting pegs into the rack-post holes (see [Figure 2-2](#)).

On the *outside* of the assembly, push the green arrow button toward the rear to open the securing plate.

Figure 2-2 Front Securing Mechanism, Inside of Front End



1	Front mounting pegs	3	Securing plate shown pulled back to open position
2	Rack post		

Step 3 Install the outer slide rails into the rack:

- a. Align one slide-rail assembly front end with the front rack-post holes that you want to use.
The slide rail front-end wraps around the outside of the rack post and the mounting pegs enter the rack-post holes from the outside-front (see [Figure 2-2](#)).



Note The rack post must be between the mounting pegs and the *open* securing plate.

- b. Push the mounting pegs into the rack-post holes from the outside-front.

- c. Press the securing plate release button, marked PUSH. The spring-loaded securing plate closes to lock the pegs in place.
- d. Adjust the slide-rail length, and then push the rear mounting pegs into the corresponding rear rack-post holes. The slide rail must be level front-to-rear.

The rear mounting pegs enter the rear rack-post holes from the inside of the rack post.

- e. Attach the second slide-rail assembly to the opposite side of the rack. Ensure that the two slide-rail assemblies are at the same height with each other and are level front-to-back.
- f. Pull the inner slide rails on each assembly out toward the rack front until they hit the internal stops and lock in place.

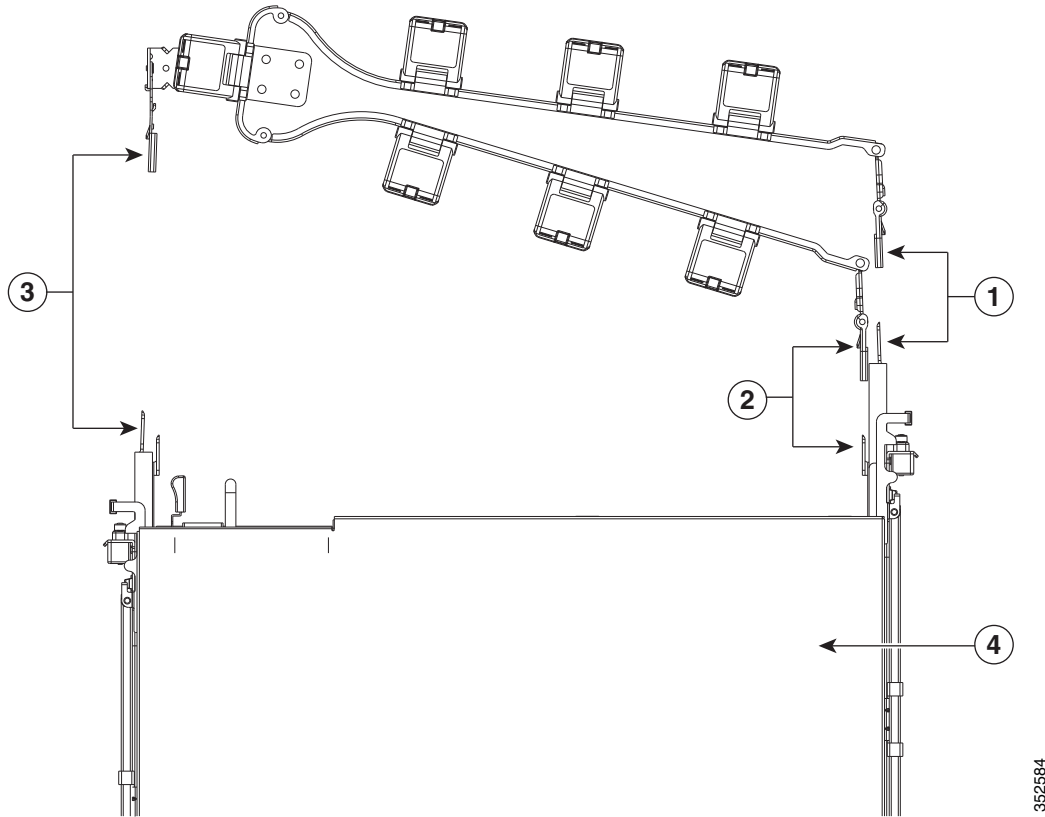
Installing the Cable Management Arm (Optional)



Note The CMA is reversible left to right. To reverse the CMA, see [Reversing the Cable Management Arm \(Optional\)](#), page 2-8 before installation.

-
- Step 1** With the Cisco MSE 3365 pushed fully into the rack, slide the CMA tab of the CMA arm that is farthest from the MSE 3365 onto the end of the stationary slide rail that is attached to the rack post (see [Figure 2-3](#)). Slide the tab over the end of the rail until it clicks and locks.
 - Step 2** Slide the CMA tab that is closest to the Cisco MSE 3365 over the end of the inner rail that is attached to the Cisco MSE 3365 (see [Figure 2-3](#)). Slide the tab over the end of the rail until it clicks and locks.
 - Step 3** Pull out the width-adjustment slider that is at the opposite end of the CMA assembly until it matches the width of your rack (see [Figure 2-3](#)).
 - Step 4** Slide the CMA tab that is at the end of the width-adjustment slider onto the end of the stationary slide rail that is attached to the rack post (see [Figure 2-3](#)). Slide the tab over the end of the rail until it clicks and locks.
 - Step 5** Open the hinged flap at the top of each plastic cable guide and route your cables through the cable guides as desired.

Figure 2-3 Attaching the Cable Management Arm to the Rear of the Slide Rails



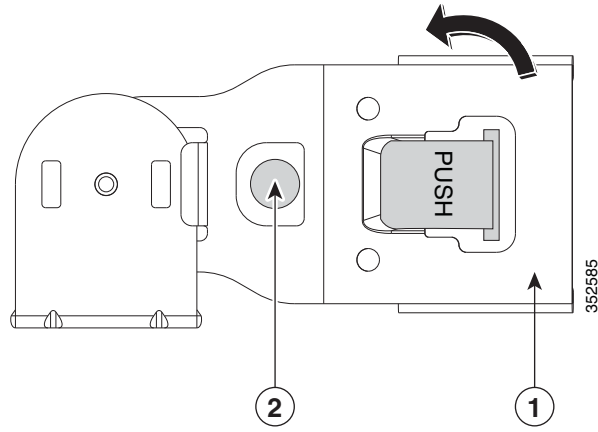
352584

1	CMA tab on arm farthest from the Cisco MSE 3365 and end of stationary outer slide rail	3	CMA tab on width-adjustment slider and end of stationary outer slide rail
2	CMA tab on arm closest to the Cisco MSE 3365 and end of inner slide rail attached to the Cisco MSE 3365	4	Rear of the Cisco MSE 3365

Reversing the Cable Management Arm (Optional)

- Step 1 Rotate the entire CMA assembly 180 degrees. The plastic cable guides must remain pointing upward.
- Step 2 Flip the tabs at the end of each CMA arm so that they point toward the rear of the Cisco MSE 3365.
- Step 3 Pivot the tab that is at the end of the width-adjustment slider. Depress and hold the metal button on the outside of the tab and pivot the tab 180 degrees so that it points toward the rear of the Cisco MSE 3365.

Figure 2-4 Reversing the CMA



1	CMA tab on end of width-adjustment slider	2	Metal button for rotating
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Step 4 Insert the Cisco MSE 3365 into the slide rails.



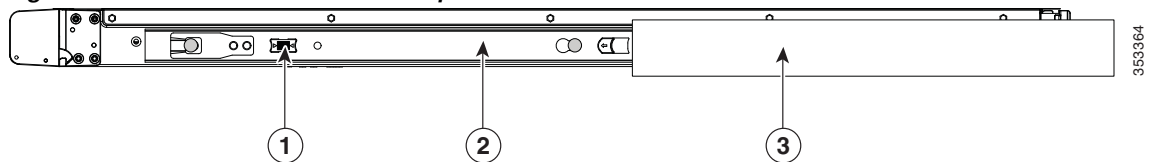
Caution

Cisco MSE 3365 weighs 38 lbs (17.20 kilograms). We recommend that you use a minimum of two people or a mechanical lift when lifting the Cisco MSE 3365. Attempting this procedure alone could result in personal injury or equipment damage.

- a. Align the rear of the inner rails that are attached to the Cisco MSE 3365 sides with the front ends of the empty slide rails on the rack.
- b. Push the inner rails into the slide rails on the rack until they stop at the internal stops.

Step 5 Slide the release clip toward the rear on both inner rails, and then continue pushing the Cisco MSE 3365 into the rack until its front slam latches engage with the rack posts.

Figure 2-5 Inner Rail Release Clip



1	Inner rail release clip	3	Outer rail attached to rack post
2	Inner rail attached to the Cisco MSE 3365 and inserted into outer rail		

Step 6 (Optional) Secure the Cisco MSE 3365 in the rack more permanently by using the two screws that are provided with the slide rails. Perform this step if you plan to move the rack with the Cisco MSE 3365 installed.

Step 7 With the Cisco MSE 3365 fully pushed into the slide rails, open the hinged slam latch lever on the front of the Cisco MSE 3365 and insert the screw through the hole that is under the lever. The screw threads into the static part of the rail on the rack post and prevents the Cisco MSE 3365 from being pulled out. Repeat for the opposite slam latch.

Initial Setup

Connecting and Powering On the Cisco MSE 3365 (Standalone Mode)

Cisco MSE 3365 can be setup using one of the following methods. You can use any procedure that meets your requirements. However, setting up the Cisco MSE 3365 for remote setup provides the most flexible option.

- Local setup—Use this procedure if you want to connect a keyboard and monitor the system for setup.
 - Use the KVM cable provided with the Cisco MSE 3365 or the ports on the rear of the Cisco MSE 3365. See [Local Connection Using KVM, page 2-11](#).
 - Use the local connection using Serial Console Interface. See [Local Connection using Serial Console, page 2-11](#).
- Remote setup—Use this procedure if you want to perform setup through your dedicated management LAN. See [Remote Connection Procedure, page 2-12](#).

Local Connection Using KVM

-
- Step 1** Attach a power cord to each power supply unit (PSU) in your Cisco MSE 3365, and then attach each power cord to a grounded AC power outlet. See [Physical Specifications, page A-1](#) for power specifications.
- Wait for approximately two minutes to let the server boot in standby power during the first bootup. You can verify system power status by looking at the system Power Status LED on the front panel (see [External Features Overview, page 1-1](#)). The system is in standby power mode when the LED is amber.
- Step 2** Connect a USB keyboard and VGA monitor to the Cisco MSE 3365 using one of the following methods:
- Connect a USB keyboard and VGA monitor to the corresponding connectors on the rear panel (see [External Features Overview, page 1-1](#)).
 - Connect the KVM cable to the KVM connector on the front panel (see [External Features Overview, page 1-1](#) for the connector location). Connect your USB keyboard and VGA monitor to the corresponding ports on the KVM connector.
- Step 3** Power up the Cisco MSE 3365 and watch the on-screen prompts. The Cisco MSE progresses through the boot-up procedure and then finally prompts for user login. At this time, you can use the default credentials (root/password) to login and configure the Cisco MSE. Note that in this mode, you may not be able to see every output coming from the Cisco MSE because limited output is sent to the directly connected monitor.
-

Local Connection using Serial Console

In this mode, all operations are performed through the serial console interface.

-
- Step 1** Connect a serial console cable (DB9 assembly) to the serial port on the KVM cable. The KVM cable is attached to the KVM connector on the front of the Cisco MSE 3365 (see [Figure 1-1](#)).

- Step 2** Connect the other end of the serial console cable to a terminal emulator application. Set the terminal emulator to:
- 9600 baud
 - 8 data bits
 - no flow control
 - 1 stop bit
 - no parity
- Step 3** Power up the Cisco MSE 3365 and watch the output on the serial console. Finally, when prompted, login and proceed with Cisco MSE 3365 setup.

**Note**

You may also use the serial port on the rear of the unit for serial console access, instead of the port on the KVM cable. However, the serial port on the rear of the MSE 3365 is a RJ-45 connector and not a DB 9-connector (see [Figure 1-2](#)).

Remote Connection Procedure

In this setup, the Cisco Integrated Management Controller (CIMC) is used to access the Cisco MSE 3365. A dedicated IP address is assigned to the CIMC and the management port on the rear of the unit is used for CIMC access.

- Step 1** Attach a power cord to each power supply unit (PSU) in your Cisco MSE 3365, and then attach the other end of the power cord to a grounded AC power outlet. See [Physical Specifications, page A-1](#) for power specifications.

Wait for approximately two minutes to let the Cisco MSE 3365 boot in standby power during the first bootup.

You can verify system power status by looking at the system Power Status LED on the front panel (see [External Features Overview, page 1-1](#)). The system is in standby power mode when the LED is amber.

- Step 2** Plug your management Ethernet cable into the dedicated management port on the rear panel (see [External Features Overview, page 1-1](#)).

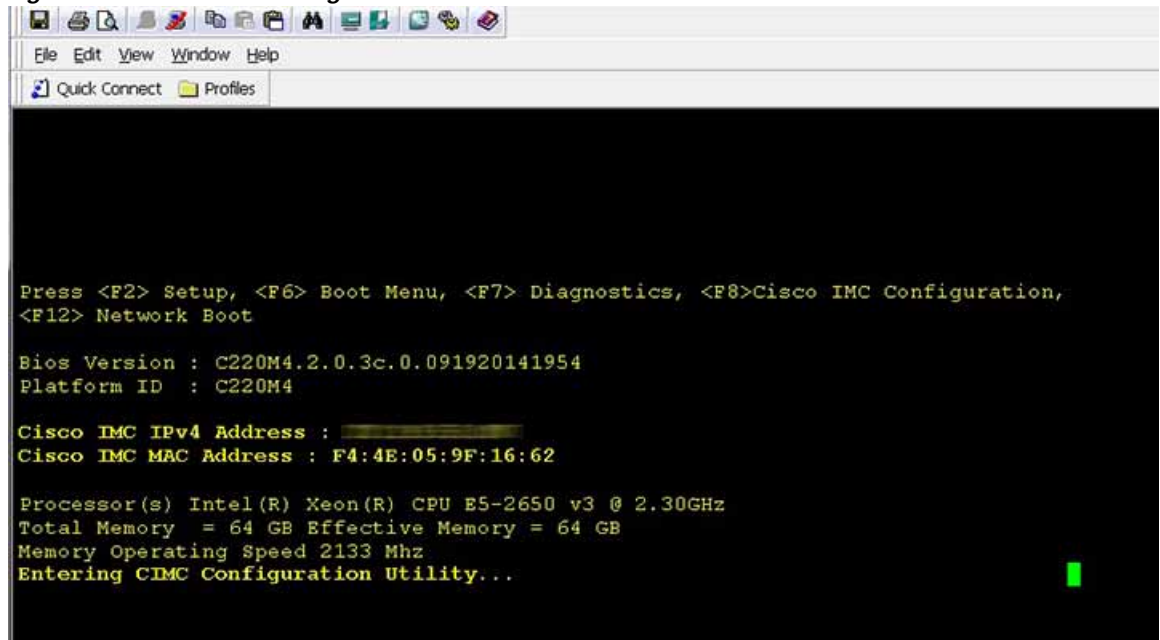
**Note**

The management port (and the management port IP address) should not be confused with the Cisco MSE 3365 IP address. The management port is strictly used for setup and monitoring of the Cisco 3365 and not for regular MSE traffic flow.

**Note**

Just to perform the one-time CIMC setup, connect a keyboard and monitor (or use the serial console connection) and then power up the Cisco MSE 3365. As the Cisco MSE 3365 boots up, press F8 and enter the CIMC configuration mode (see [Figure 2-6](#)).

Figure 2-6 CIMC Configuration Mode



CIMC Configuration Utility Setup

- Step 1** Once you are in the Cisco Integrated Management Controller (CIMC) configuration screen, you need to assign an IP address for the CIMC management port and configure the attributes (see [Figure 2-7](#)).

Figure 2-7 CIMC Utility Setup

```

Cisco IMC Configuration Utility Version 2.0 Cisco Systems, Inc.
*****
NIC Properties
NIC mode
Dedicated: [X]
Shared LOM: [ ]
Cisco Card:
Riser1: [ ]
Riser2: [ ]
MLom: [ ]
Shared LOM Ext: [ ]
NIC redundancy
None: [X]
Active-standby: [ ]
Active-active: [ ]
VLAN (Advanced)
VLAN enabled: [ ]
VLAN ID: 1
Priority: 0
IP (Basic)
IPV4: [X] IPV6: [ ]
DHCP enabled [ ]
CIMC IP:
Prefix/Subnet:
Gateway:
Pref DNS Server:
*****
<Up/Down>Selection <F10>Save <Space>Enable/Disable <F5>Refresh <ESC>Exit
<F1>Additional settings

```

Cisco MSE 3365 ships with NIC mode as Dedicated, meaning that only the management port is used for CIMC communication.

For quick and simple access to CIMC, just configure the IP address, gateway, and subnet mask. No other configuration is required.

The static IPv4 and IPv6 settings include the following:

- The Cisco Integrated Management Controller (CIMC) IP address.
- The prefix/subnet.

For IPv6, valid values are 1–127.

- The gateway.

For IPv6, if you do not know the gateway, you can set it as none by entering :: (two colons).

- The preferred DNS server address.

For IPv6, you can set this as none by entering :: (two colons).

Step 2 (Optional) Use this utility to make VLAN settings.

Step 3 Press **F1** to go to the second settings window, then continue with the next step.

From the second window, you can press **F2** to switch back to the first window.

Step 4 (Optional) Set a hostname for the server.

Step 5 (Optional) Enable dynamic DNS and set a dynamic DNS (DDNS) domain.

Step 6 (Optional) If you check the Factory Default check box, the server reverts to the factory defaults.

Step 7 (Optional) Set a default user password.

Step 8 (Optional) Enable auto-negotiation of port settings or set the port speed and duplex mode manually.



Note Auto-negotiation is applicable only when you use the Dedicated NIC mode. Auto-negotiation sets the port speed and duplex mode automatically based on the switch port to which the server is connected. If you disable auto-negotiation, you must set the port speed and duplex mode manually.

Step 9 (Optional) Reset port profiles and the port name.

Step 10 Press **F5** to refresh the settings that you made. You might have to wait about 45 seconds until the new settings appear and the message, “Network settings configured” is displayed before you reboot the server in the next step.

Step 11 Press **F10** to save your settings and reboot the server.



Note If you chose to enable DHCP, the dynamically assigned IP and MAC addresses are displayed on the console screen during bootup.

Cisco Integrated Management Controller

Use a browser and the IP address of the Cisco Integrated Management Controller (CIMC) to connect to the Cisco Integrated Management Controller (CIMC) interface. The IP address is based upon the settings that you made (either a static address or the address assigned by your DHCP server).



Note The default username for the server is *admin*. The default password is *password*.

Once the CIMC dedicated IP address is configured and the changes are saved, you can access the CIMC interface using a web browser. You must connect to <https://CIMC-IP/> and login with the default credentials (admin/password).

From the CIMC web interface, you can launch the KVM console and gain access to the serial console and interact with the MSE 3365.

Accessing the CIMC Interface over SSH

You can also use an ssh session to access the Cisco Integrated Management Controller (CIMC) serial console. This is called Serial-Over-LAN (SOL).

Follow these steps to enable SOL:

Step 1 SSH ip-address-of-cimc-l admin

Step 2 Login using the credentials of CIMC

Step 3 Once you are connected to CIMC through ssh, enter the following commands:

- # scope sol
- Server /sol #set enabled yes

- Server /sol *# **set baud-rate 115200**
- Server /sol *# **commit**
- Server /sol # **show**
Enabled Baud Rate (bps)

yes 115200

Now you should be able to connect to SOL. You must perform the above steps only once.

Step 4 To connect to the serial console, enter the following command:

```
Server# connect host
```

Now you are on the serial console of the Cisco MSE 3365.

NIC Modes

The Cisco MSE 3365 has the following NIC mode setting:

- **Dedicated**—The dedicated management port is used to access Cisco Integrated Management Controller (CIMC). This is the default mode the Cisco MSE 3365 is shipped with. You must configure the IP address for CIMC access.

Configuring the Mobility Services Engine

Minimal configuration is done for the mobility services engine as part of installation using the console. All configuration beyond the initial setup using the automatic installation is done with Cisco Prime Infrastructure.



Note

You must change the default root password during initial configuration of the mobility services engine to ensure optimum network security.

- You are prompted to change the password during the automatic setup script.
- You can also change the password using the Linux command, **passwd**.

Step 5 The first time you power up the Cisco MSE 3365, you will be prompted to run the setup script and configure the Cisco MSE

```
-----
Cisco Mobility Services Engine
```

```
mse login: root
password: password
Last login: Mon Mar 9 04:11:50 on tty1
```

[Configuration starts as soon as you log in]

```
Would you like to setup initial parameters using menu options (yes/no) [yes]:
```

[Press Enter to use the default values (yes) to use the Menu options]

```
Please select a configuration option below and enter the
requested information. You may exit setup at any time by
typing <Ctrl+C>.
```

```
You will be prompted to choose whether you wish to configure a
parameter, skip it, or reset it to its initial default value.
Skipping a parameter will leave it unchanged from its current
value.
```

```
Please note that the following parameters are mandatory and must be configured at lease
once.
```

```
-> Hostname
-> Network interface eth0
-> Timezone settings
-> Root password
-> NTP settings
```

```

-> Prime Infrastructure password

You must select option 24 to verify and apply any changes made during this session.
-----

PRESS <ENTER> TO CONTIBNUE:

-----

Configure MSE:

1) Hostname *
2) Network Interface eth0 settings *
3) Timezone settings *
4) Root password *
5) NTP settings *
6) Prime Infrastructure configuration
7) Display current configuration
8) Domain
9) High availability role
10) Network interface eth1 settings
11) DNS settings
12) Future restart time
13) Remote syslog setting
14) Host access control settings
15) Audit rules
16) Login banner
17) System console restrictions
18) SSH root access
19) Single user password check
20) Login and password settings
21) GRUB password
22) Root access control
23) Auto start MSE on system boot up
24) ## Verify and apply changes ##

```

**Note**

It is highly recommended that all relevant items be configured during initial setup to ensure optimum operation of the mobility services engine in your network. The hostname and either the Ethernet-0 (eth0) or the Ethernet-1 (eth1) port must always be configured during the automatic installation.

You can rerun the automatic installation script at any time to add or change parameters using this command:

```
[root@mse]# /opt/mse/setup/setup.sh.
```

There is no need to re-enter values that you do not want to change during one of these updates.

**Note**

If you do not want to configure an item, enter **skip** and you are prompted for the next configuration step. Any setting skipped is retained and not modified.

**Note**

Minimal configuration is done for the mobility services engine as part of installation using the console. All configurations beyond the initial setup using the automatic installation is done with the Cisco Prime Infrastructure.

Step 6 Configure the hostname

```
Please enter your choice [1 - 24]: 1
```

```
Current Hostname=[mse]
```

```
Configure Hostname? (Y)es/(S)kip/(U)se default [Skip]: y
```

The host name should be a unique name that can identify the device on the network. The hostname should start with a letter, end with a letter or number, and contain only letters, numbers, and dashes.

```
Enter a Host name [mse]:
```

Step 7 Configure eth0 network settings

```

Please enter your choice [1 - 24]: 2

Current eth0 interface IP address=[10.0.0.1]
Current eth0 interface netmask=[255.0.0.0]
Current IPv4 gateway address=[172.20.104.123]
Configure eth0 interface parameters? (Y)es/(S)kip/(U)se default [Skip]:y

Enter an IP address for first ethernet interface of this machine.

Enter eth0 IP address [10.0.0.2]:

Enter the network mask for IP address 172.21.105.126

Enter network mask [255.255.255.224]:

Enter the default gateway address for this machine.

Note that the default gateway must be reachable from
the first ethernet interface.

Enter default gateway address [172.20.104.123]:

```

Step 8 Configure the DNS Settings:

```

Please enter your choice [1 - 24]: 11

Domain Name Service (DNS) Setup

Enable DNS (yes/no) [no]: y
Default DNS server 1=[8.8.8.8]
Enter primary DNS server IP address:
DNS server address must be in the form #.#.#.#, where # is 0 to 255 or hexadecimal :
separated v6 address

Enter primary DNS server IP address [8.8.8.8]:
Enter backup DNS server IP address (or none) [none]:

```

Step 9 Configure the Timezone settings:**Note**

UTC must be used when you are configuring for wIPS. For other services, you must use the same time zone as the controllers.

```

Please enter your choice [1 - 24]: 3

Current Timezone=[America/New_York]
Configure Timezone? (Y)es/(S)kip/(U)se default [Skip]: y

Enter the current date and time.

Please identify a location so that time zone rules can be set correctly.
Please select a continent or ocean.
1) Africa
2) Americas
3) Antarctica
4) Arctic Ocean
5) Asia
6) Atlantic Ocean
7) Australia
8) Europe
9) Indian Ocean
10) Pacific Ocean
11) UTC - I want to use Coordinated Universal Time.

```

#? 2

Please select a country.

- | | |
|------------------------|-----------------------------|
| 1) Anguilla | 27) Honduras |
| 2) Antigua & Barbuda | 28) Jamaica |
| 3) Argentina | 29) Martinique |
| 4) Aruba | 30) Mexico |
| 5) Bahamas | 31) Montserrat |
| 6) Barbados | 32) Netherlands Antilles |
| 7) Belize | 33) Nicaragua |
| 8) Bolivia | 34) Panama |
| 9) Brazil | 35) Paraguay |
| 10) Canada | 36) Peru |
| 11) Cayman Islands | 37) Puerto Rico |
| 12) Chile | 38) St Barthelemy |
| 13) Colombia | 39) St Kitts & Nevis |
| 14) Costa Rica | 40) St Lucia |
| 15) Cuba | 41) St Martin (French part) |
| 16) Dominica | 42) St Pierre & Miquelon |
| 17) Dominican Republic | 43) St Vincent |
| 18) Ecuador | 44) Suriname |
| 19) El Salvador | 45) Trinidad & Tobago |
| 20) French Guiana | 46) Turks & Caicos Is |
| 21) Greenland | 47) United States |
| 22) Grenada | 48) Uruguay |
| 23) Guadeloupe | 49) Venezuela |
| 24) Guatemala | 50) Virgin Islands (UK) |
| 25) Guyana | 51) Virgin Islands (US) |
| 26) Haiti | |

#? 47

Please select one of the following time zone regions.

- 1) Eastern Time
- 2) Eastern Time - Michigan - most locations
- 3) Eastern Time - Kentucky - Louisville area
- 4) Eastern Time - Kentucky - Wayne County
- 5) Eastern Time - Indiana - most locations
- 6) Eastern Time - Indiana - Daviess, Dubois, Knox & Martin Counties
- 7) Eastern Time - Indiana - Pulaski County
- 8) Eastern Time - Indiana - Crawford County
- 9) Eastern Time - Indiana - Pike County
- 10) Eastern Time - Indiana - Switzerland County
- 11) Central Time
- 12) Central Time - Indiana - Perry County
- 13) Central Time - Indiana - Starke County
- 14) Central Time - Michigan - Dickinson, Gogebic, Iron & Menominee Counties
- 15) Central Time - North Dakota - Oliver County
- 16) Central Time - North Dakota - Morton County (except Mandan area)
- 17) Mountain Time
- 18) Mountain Time - south Idaho & east Oregon
- 19) Mountain Time - Navajo
- 20) Mountain Standard Time - Arizona
- 21) Pacific Time
- 22) Alaska Time
- 23) Alaska Time - Alaska panhandle
- 24) Alaska Time - Alaska panhandle neck
- 25) Alaska Time - west Alaska
- 26) Aleutian Islands
- 27) Hawaii

#? 21

The following information has been given:

United States
Pacific Time

```
Therefore TZ='America/Los_Angeles' will be used.
Local time is now:      Sun Apr  6 18:45:27 PDT 2014.
Universal Time is now: Mon Apr  7 01:45:27 UTC 2014.
Is the above information OK?
1) Yes
2) No
#? 1
```

Step 10 Configure the Root password:

Note If you do not set the root password, a warning message is displayed when you apply the settings.

```
Please enter your choice [1 - 24]: 4
```

```
Root password has not been configured
Configure root password? (Y)es/(S)kip/(U)se default [Skip]:
Changing password for user root.
```

You can now choose the new password.

A valid password should be a mix of upper and lower case letters, digits, and other characters. You can use an 8 character long password with characters from all of these classes. An upper case letter that begins the password and a digit that ends it do not count towards the number of character classes used.

Enter new password:

Step 11 Configure the NTP Setup

```
Please enter your choice [1 - 24]: 5
```

Network Time Protocol (NTP) Setup.

If you choose to enable NTP, the system time will be configured from NTP servers that you select. Otherwise, you will be prompted to enter the current date and time.

NTP is currently disabled.

```
Configure NTP related parameters? (Y)es/(S)kip/(U)se default [Skip]: y
```

Enter whether or not you would like to set up the Network Time Protocol (NTP) for this machine.

If you choose to enable NTP, the system time will be configured from NTP servers that you select. Otherwise, you will be prompted to enter the current date and time.

```
Enable NTP (yes/no) [no]: y
```

```
Default NTP server 1=[time.nist.gov]
```

```
Enter NTP server name or address:
```

NTP server address must be in the form #.#.#.3, where # is 0 to 255 hexadecimal : separated v6 address.

```
Enter NTP server name or [time.nist.gov]:
```

```
Enter another NTP server IP address (or none) [none]:
```

```
Configure NTP Authentication ? (Y)es/(S)kip/(U)se default [Skip]: y
```

```
Enter NTP Auth key Number [1]:
```

```
Enter NTP Auth key Value (String) [Secret]:
```

```
Do you want to continue (yes/no) [no]: y
```

Step 12 Configure the Prime Infrastructure password:



Note If you do not set the password, a warning message appears when you apply the settings. The default PI communication password is *admin*.

Please enter your choice [1 - 24]: **6**

Cisco Prime Infrastructure communication password has not been configured.
Configure Prime Infrastructure password? (Y)es/(S)kip/(U)se default [Yes]:

Enter a password for the admin user.

The admin user is used by the Prime Infrastructure and other northbound systems to authenticate their SOAP/XML session with the server. Once this password is updated, it must correspondingly be updated on the NCS page for MSE General Parameters so that the Prime Infrastructure can communicate with the MSE.

Enter Prime Infrastructure password:

Step 13 Verify the setup information and apply the changes:

Please enter your choice [1 - 24]: **24**

Please verify the following setup information.

-----BEGIN-----

```

Hostname=mse8-0
Eth0 IP address= , Eth0 network mask=255.255.254.0
Time zone=America/Los_Angeles
Enable DNS=yes, DNS servers=8.8.8.8
Enable NTP=yes, NTP servers=time.nist.gov
Time zone=America/Los_Angeles
Root password is changed.
Cisco Prime Infrastructure password is changed.

```

-----END-----

You may enter "yes" to proceed with configuration, "no" to make more changes.

Configuration Changed

Is the above information correct (yes or no): **yes**

Checking mandatory configuration information...

Setup will now attempt to apply the configuration.

Restarting network services with new settings.

Shutting down interface eth0:

The system is minimally configured right now. It is strongly recommended that you run the setup script under /opt/mse/setup/setup.sh command to configure all appliance related parameters immediately after installation is complete.

PRESS <ENTER> TO EXIT THE INSTALLER:

[root@mse8-0 installers]# reboot

Stopping MSE Platform

Flushing firewall rules: [OK]

Setting chains to policy ACCEPT: nat filter [OK]

```

Unloading iptables modules:                                     [ok]

Broadcast message from root (pts/0) (Tue Apr29 14:15:27:2014):

The system is going down for reboot NOW:

```



Note The next time you log in using root, only the Linux shell prompt appears and not the setup script. You can rerun the setup script at any time to change settings by logging in as *root* and running **/opt/mse/setup/setup.sh**.

Step 14 Log in and configure the MSE to automatically launch after boot up.

```

Cisco Mobility Service Engine
mse8-0 login:
Passsword:

```

Step 15 To configure the MSE to automatically launch after boot up, enter the following command:

```
[root@mse8-0]# chkconfig msed on
```



Note You can also enable the Cisco MSE to start automatically after boot up using Option 23 in the setup script wizard.

Step 16 To verify the status of MSE software, enter the following command:

```
[root@mse8-0] # service msed status
```

Step 17 Reboot using the following command:

```
[root@mse8-0]# reboot
```

Step 18 To start the MSE service manually, enter the following command:

```
[root@mse8-0]# service msed start
```

The setup script generates a log file that can be found at **/opt/mse/setup/setup.log**.

Manually Stopping Mobility Services Engine Software

The mobility services engine software automatically runs after initial configuration and after each reboot.

Follow these steps to manually stop and restart the software:

-
- Step 1** To stop the software, enter **/etc/init.d/msed stop** or use the **service msed stop** command.
 - Step 2** To check status, enter **/etc/init.d/msed status** or use the **service msed status** command
 - Step 3** To start the software, enter **/etc/init.d/msed start** or use the **service msed start** command.
-

Manually Restarting a Running Mobility Services Engine

To restart a running mobility services engine, enter `/etc/init.d/mseed restart`.

Updating Mobility Services Engine Software

You can update the mobility services engine using the Cisco Prime Infrastructure by manually downloading the software using a console port connected to the mobility services engine.



Note

If MSE is unreachable on Cisco Prime Infrastructure soon after an upgrade, you must reboot the MSE using this command as root user on the MSE: `reboot`



Note

For the latest Cisco Prime Infrastructure and Cisco Mobility Services Engine compatibility and installation notes for a given release, refer to the appropriate release note at the following link: http://www.cisco.com/en/US/products/ps9742/tsd_products_support_series_home.html

Before downloading and updating software on the mobility services engine, note the following:

- The mobility services engine (server) image is compressed. The software image automatically decompresses during its download from Cisco Prime Infrastructure.
- Approximately 5 minutes is required for the newly loaded mobility services engine software version to appear on the Cisco Prime Infrastructure. Choose **Services > Mobility Services** from the Cisco Prime Infrastructure user interface.

Downloading Software Using the Cisco Prime Infrastructure

To download software to a mobility services engine, follow these steps:

- Step 1** Verify that you can ping the mobility services engine from the Prime Infrastructure server or an external FTP server, whichever you are going to use for the application code download
- Step 2** Choose **Services > Mobility Services Engine**.
- Step 3** Click the name of the MSE to which you want to download software.
- Step 4** Choose **System > Maintenance > Download Software** from the left sidebar menu.
- Step 5** To download software, do one of the following:
- Step 6** To download software listed in the Prime Infrastructure directory, select the **Select from uploaded images to transfer into the Server** radio button. Choose a binary image from the drop-down list.
- Step 7** Prime Infrastructure downloads the binary image to the FTP server directory you specified during the Prime Infrastructure installation.
- Step 8** To use downloaded software available locally or over the network, select the **Browse a new software image to transfer into the Server** radio button, and click **Choose File**. Locate the file, and click **Open**.
- Step 9** Click **Download** to send the software to the `/opt/installers` directory on the MSE.
- Step 10** After the image is transferred to the MSE, log in to the MSE command-line interface.

Step 11 Run the installer image from the `/opt/installers` directory by entering the following command:

```
/opt/installers/CISCO-MSE-L-K9-x-x-x-x-64bit.bin
```

where, `x-x-x-x` is the version of the image you downloaded (for example, `CISCO-MSE-L-K9-8-0-110-10-64bit.bin`)

Step 12 To run the software, enter the `/etc/init.d/msed start` command.



Note

To stop the software, enter the `/etc/init.d/msed stop` command, and to check status, enter the `/etc/init.d/msed status` command.

Manually Downloading Software

If you do not want to automatically update the mobility services engine software using Cisco Prime Infrastructure, follow these steps to upgrade the software manually using a local (console) or remote (SSH) connection.

Step 1 Transfer the new mobility services engine image onto the hard drive.

- a. Log in as root and use the binary setting to send the software image from an external FTP server root directory.

The image format is similar to the following and changes with each release:

```
CISCO-MSE-L-K9-x-x-x-x-64bit.bin.tar.gz
```



Note

The mobility services engine image is compressed at this point.



Note

If you are using Cisco Prime Infrastructure as the ftp server, the default login name for stp server is `stp-user`.

Your entries should look like this example:

```
# cd /opt/installers
# ftp <FTP Server IP address>
Name: <login>
Password: <password>
binary
get CISCO-MSE-L-K9-x-x-x-x-64bit.bin.tar.gz
<CTRL-Z>
#
```

- b. Verify that the image (`CISCO-MSE-L-K9-x-x-x-x-64bit.bin.tar.gz`) is in the `MSE/opt/installers` directory.
- c. To decompress (unzip) the image file, enter the following command:

```
tar zxvf CISCO-MSE-L-K9-x-x-x-x-64bit.bin.tar.gz
```

The decompression yields 3 files:

```
CISCO-MSE-L-K9-x-x-x-x-64bit.bin
```

```
MSE_PUB.pem
```

```
signhash.bin
```

- d. Make sure that the CISCO-MSE-L-K9-x-x-x-x.bin.tar.gz file has execute permissions for the root user. If not, enter the following command:

```
chmod 755 CISCO-MSE-L-K9-x-x-x-x.bin
```

Step 2 Manually stop the MSE.

Step 3 Log in as root and enter the following command to start the installation procedure. Pay attention to the messages and answer prompts appropriately.

```
/opt/installers/CISCO-MSE-L-K9-x-x-x-x.bin
```

Step 4 Once the installation is complete, reboot the Cisco MSE:

```
# reboot
```

Recovering a Lost Root Password

To recover a lost or forgotten root password for a mobility services engine, follow these steps.



Note

You must be connected to the Cisco MSE 3365 through Serial Console connection (either direct Serial console or Serial Console over LAN). The procedure will not work if you are using the KVM console launched from the Cisco Integrated Management Controller (CIMC).

Step 1 When the GRUB screen comes up, press **Esc** to enter the boot menu.



Caution

If you forget the GRUB password, you cannot login and you will need to contact TAC to arrange for an RMA.

The following screen is displayed. See [\(Figure 2-8\)](#).

Figure 2-8 Screen 1

```

GNU GRUB  version 0.97  (620K lower / 1820600K upper memory)

-----

root (hd0,0)
kernel /vmlinuz-2.6.32-504.el6.x86_64 ro root=UUID=1f6be69b-3c7a-4328>
initrd /initramfs-2.6.32-504.el6.x86_64.img

-----

Use the ^ and v keys to select which entry is highlighted.
Press 'b' to boot, 'e' to edit the selected command in the
boot sequence, 'c' for a command-line, 'o' to open a new line
after ('O' for before) the selected line, 'd' to remove the
selected line, or escape to go back to the main menu.

```

- Step 2** Press **e** to edit.
- Step 3** Navigate to the line beginning with “kernel,” and press **e**.
- Step 4** At the end of the line, type a space followed by `single console =ttyS0`. See (Figure 2-9).

Figure 2-9 Screen 2

```

[ Minimal BASH-like line editing is supported.  For the first word, TAB
lists possible command completions.  Anywhere else TAB lists the possible
completions of a device/filename.  ESC at any time cancels.  ENTER
at any time accepts your changes.]

<9b-3c7a-4328-94cb-58f3ec9ec5f1 single console=ttyS0

```

- Step 5** Press **Enter** to save this change.
- Step 6** Press **b** to begin boot sequence.
- Step 7** At the end of the boot sequence, a shell prompt appears.



Note The shell prompt does not appear if you set up a single-user mode password.

- Step 8** Enter the `passwd` command to change the root password.
- Step 9** Enter and confirm the new password.

Step 10 Restart the machine.



Note Ensure that you remember the root password and only change the password if it is absolutely necessary.



Maintaining the Cisco MSE 3365

This chapter provides information about how to install or replace hardware components, and it includes the following sections:

- [Replacing Power Supplies, page 3-1](#)
- [Installing or Replacing Cisco MSE 3365 Components, page 3-4](#)

Replacing Power Supplies

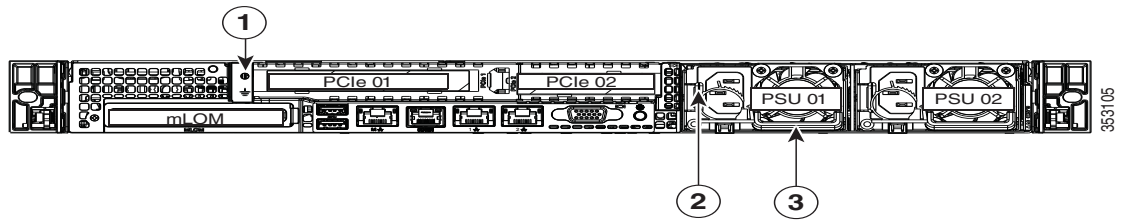
Cisco MSE 3365 ships with two power supplies. A replacement power supply (Part number MSE-PSU1-770W) can be obtained from Cisco to replace a failed power supply.

Cisco MSE 3365 also supports cold redundancy. Depending on the power being drawn by the server, one power supply might actively provide all power to the system while the remaining power supply is put into a standby state. For example, if you have two supplies connected to AC power, but the power consumption can be satisfied by power supply 1, then power supply 2 is put into a standby state.

- See [Power Specifications, page A-3](#) for more information about the power supplies.
- See [Rear Panel LEDs and Buttons, page 1-6](#) for information about the power supply LEDs.

-
- Step 1** Remove the power supply that you are replacing (see [Figure 3-1](#)):
- Remove the power cord from the power supply that you are replacing.
 - Grasp the power supply handle while pinching the release lever toward the handle.
 - Pull the power supply out of the bay.
- Step 2** Install a new power supply:
- Grasp the power supply handle and insert the new power supply into the empty bay.
 - Push the power supply into the bay until the release lever locks.
 - Connect the power cord to the new power supply.

Figure 3-1 Removing and Replacing Power Supplies



1	Power supply release lever	2	Power supply handle
---	----------------------------	---	---------------------

Preparing for Cisco MSE 3365 Component Installation

This section describes how to prepare for component installation, and it includes the following topics:

- [Serial Number Location, page 3-3](#)
- [Hot-Swap Replacement, page 3-3](#)

Serial Number Location

The serial number for the server is printed on a label on the top of the server, near the front.

Hot-Swap Replacement

Some components can be removed and replaced without powering off and removing AC power from the server.

- Hot-swap replacement—You do not have to precondition or shut down the component (or shut down the Cisco MSE) before you remove it. This applies to the following components.
 - Disk drives
 - Power supplies

Installing or Replacing Cisco MSE 3365 Components



Warning

Blank faceplates and cover panels serve three important functions: they prevent exposure to hazardous voltages and currents inside the chassis; they contain electromagnetic interference (EMI) that might disrupt other equipment; and they direct the flow of cooling air through the chassis. Do not operate the system unless all cards, faceplates, front covers, and rear covers are in place.

Statement 1029



Caution

When handling server components, wear an ESD strap to avoid damage.



Tip

You can press the unit identification button on the front panel or rear panel to turn on a flashing unit identification LED on the front and rear panels of the server. This button allows you to locate the specific server that you are servicing when you go to the opposite side of the rack. You can also activate these LEDs remotely by using the Cisco IMC interface. See the [Status LEDs and Buttons, page 1-3](#) for locations of these LEDs.

This section describes how to install and replace server components, and it includes the following topics:

- [Replacing Hard Drives, page 3-4](#)
- [Drive Replacement Procedure, page 3-4](#)

Replacing Hard Drives

To replace a failed hard drive, you must first obtain a replacement drive from Cisco. The part number for a replacement drive for the Cisco MSE 3365 is MSE-A03-D600GA2.

Drive Replacement Procedure



Tip

You do not have to shut down or power off the server to replace SA/SATA hard drives or solid state drives because they are hot-swappable.

Step 1

Remove the drive that you are replacing or remove a blank drive tray from the bay:

- a. Press the release button on the face of the drive tray. See [Figure 3-2](#).
- b. Grasp and open the ejector lever and then pull the drive tray out of the slot.
- c. If you are replacing an existing drive, remove the four drive-tray screws that secure the drive to the tray and then lift the drive out of the tray.

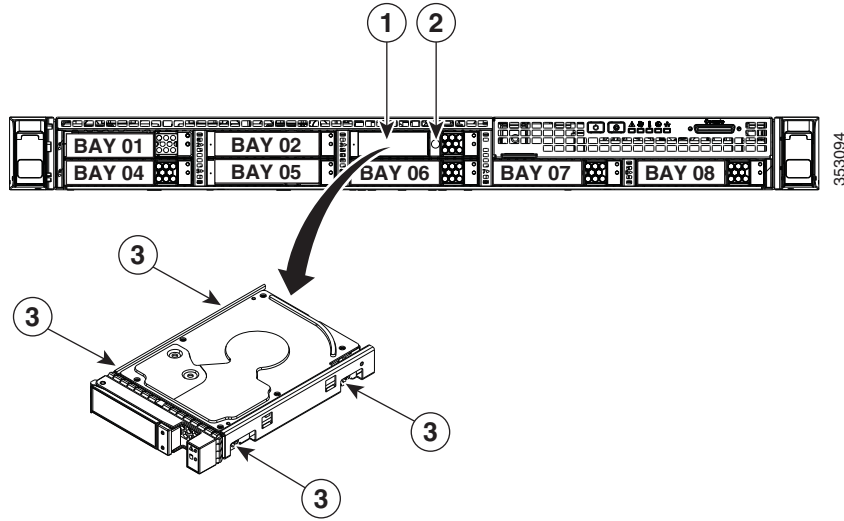
Step 2

Install a new drive:

- a. Place a new drive in the empty drive tray and install the four drive-tray screws.
- b. With the ejector lever on the drive tray open, insert the drive tray into the empty drive bay.

- c. Push the tray into the slot until it touches the backplane, and then close the ejector lever to lock the drive in place.

Figure 3-2 Replacing Hard Drives



1	Ejector lever	3	Drive tray securing screws (4)
2	Release button		-



Technical Specifications

This appendix lists the technical specifications for the Cisco MSE 3365 and includes the following sections:

- [Physical Specifications, page A-1](#)
- [Environmental Specifications, page A-2](#)
- [Power Specifications, page A-3](#)

Physical Specifications

[Table A-1](#) lists the physical specifications for the Cisco MSE 3365.

Table A-1 *Physical Specifications*

Description	Specification
Height	1.7 in. (4.3 cm)
Width	16.9 in. (42.9 cm)
Depth	29.8 in. (75.8 cm)
Weight	38 lbs (17.20 Kilograms)

Environmental Specifications

Table A-2 lists the environmental specifications for the Cisco MSE 3365.

Table A-2 *Environmental Specifications*

Description	Specification
Temperature, operating	41 to 95°F (5 to 35°C) Derate the maximum temperature by 1°C per every 305 meters of altitude above sea level.
Temperature, non-operating (when the Cisco MSE 3365 is stored or transported)	-40 to 149°F (-40 to 65°C)
Humidity (RH), noncondensing	10 to 90%
Altitude, operating	0 to 10,000 feet
Altitude, non-operating (when the Cisco MSE 3365 is stored or transported)	0 to 40,000 feet
Sound power level Measure A-weighted per ISO7779 LwAd (Bels) Operation at 73°F (23°C)	5.4
Sound pressure level Measure A-weighted per ISO7779 LpAm (dBA) Operation at 73°F (23°C)	37

Power Specifications

The power specifications for the power supply options are listed in the following sections:

- [770 W AC Power Supply, page A-3](#)



Note

Do not mix power supply types in the server. Both power supplies must be identical.

770 W AC Power Supply

[Table A-3](#) lists the specifications for each 770 W AC power supply.

Table A-3 *Power Supply Specifications*

Description	Specification
AC input voltage range	90 to 264 VAC (self-ranging, 100 to 264 VAC nominal)
AC input frequency	Range: 47 to 63 Hz (single phase, 50 to 60Hz nominal)
AC line input current (steady state)	1.55 A peak at 115 VAC 0.87 A peak at 208 VAC
Maximum output power for each power supply	770 W
Power supply output voltage	Main power: 12 VDC Standby power: 12 VDC



Safety Considerations and Translated Safety Warnings

This appendix lists safety notices for the Cisco 3365 Mobility Services Engine.

The following safety considerations and safety warnings appear in this appendix:

- [Safety Considerations, page B-2](#)
- [Warning Definition, page B-2](#)
- [More Than One Power Supply, page B-5](#)
- [Installation Instructions, page B-7](#)
- [Ground Conductor Warning, page B-9](#)
- [Chassis Warning for Rack-Mounting and Servicing, page B-11](#)
- [Equipment Installation Warning, page B-20](#)
- [Battery Handling, page B-23](#)
- [Product Disposal, page B-25](#)
- [Power Cable and AC Adapter, page B-27](#)

Safety Considerations

Keep these guidelines in mind when installing mobility services engine:

- Verify that the ambient temperature remains between 10 and 35° C (50 and 95° F), taking into account the elevated temperatures that occur when they are installed in a rack.
- When multiple mobility services engines are mounted in an equipment rack, be sure that the power source is sufficiently rated to safely run all of the equipment in the rack.
- Verify the integrity of the ground before installing mobility services engines in an equipment rack.

Warning Definition



Warning

IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device. Statement 1071

SAVE THESE INSTRUCTIONS

Waarschuwing

BELANGRIJKE VEILIGHEIDSINSTRUCTIES

Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico's en dient u op de hoogte te zijn van de standaard praktijken om ongelukken te voorkomen. Gebruik het nummer van de verklaring onderaan de waarschuwing als u een vertaling van de waarschuwing die bij het apparaat wordt geleverd, wilt raadplegen.

BEWAAR DEZE INSTRUCTIES

Varoitus

TÄRKEITÄ TURVALLISUUSOHJEITA

Tämä varoitusmerkki merkitsee vaaraa. Tilanne voi aiheuttaa ruumiillisia vammoja. Ennen kuin käsittelet laitteistoa, huomioi sähköpiirien käsittelemiseen liittyvät riskit ja tutustu onnettomuuksien yleisiin ehkäisytapoihin. Turvallisuusvaroitusten käännökset löytyvät laitteen mukana toimitettujen käännettyjen turvallisuusvaroitusten joukosta varoitusten lopussa näkyvien lausuntonumeroiden avulla.

SÄILYTÄ NÄMÄ OHJEET

Attention	<p>IMPORTANTES INFORMATIONS DE SÉCURITÉ</p> <p>Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant entraîner des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers liés aux circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Pour prendre connaissance des traductions des avertissements figurant dans les consignes de sécurité traduites qui accompagnent cet appareil, référez-vous au numéro de l'instruction situé à la fin de chaque avertissement.</p> <p>CONSERVEZ CES INFORMATIONS</p>
Warnung	<p>WICHTIGE SICHERHEITSHINWEISE</p> <p>Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu Verletzungen führen kann. Machen Sie sich vor der Arbeit mit Geräten mit den Gefahren elektrischer Schaltungen und den üblichen Verfahren zur Vorbeugung vor Unfällen vertraut. Suchen Sie mit der am Ende jeder Warnung angegebenen Anweisungsnummer nach der jeweiligen Übersetzung in den übersetzten Sicherheitshinweisen, die zusammen mit diesem Gerät ausgeliefert wurden.</p> <p>BEWAHREN SIE DIESE HINWEISE GUT AUF.</p>
Avvertenza	<p>IMPORTANTI ISTRUZIONI SULLA SICUREZZA</p> <p>Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. Prima di intervenire su qualsiasi apparecchiatura, occorre essere al corrente dei pericoli relativi ai circuiti elettrici e conoscere le procedure standard per la prevenzione di incidenti. Utilizzare il numero di istruzione presente alla fine di ciascuna avvertenza per individuare le traduzioni delle avvertenze riportate in questo documento.</p> <p>CONSERVARE QUESTE ISTRUZIONI</p>
Advarsel	<p>VIKTIGE SIKKERHETSINSTRUKSJONER</p> <p>Dette advarselssymbolet betyr fare. Du er i en situasjon som kan føre til skade på person. Før du begynner å arbeide med noe av utstyret, må du være oppmerksom på farene forbundet med elektriske kretser, og kjenne til standardprosedyrer for å forhindre ulykker. Bruk nummeret i slutten av hver advarsel for å finne oversettelsen i de oversatte sikkerhetsadvarslene som fulgte med denne enheten.</p> <p>TA VARE PÅ DISSE INSTRUKSJONENE</p>
Aviso	<p>INSTRUÇÕES IMPORTANTES DE SEGURANÇA</p> <p>Este símbolo de aviso significa perigo. Você está em uma situação que poderá ser causadora de lesões corporais. Antes de iniciar a utilização de qualquer equipamento, tenha conhecimento dos perigos envolvidos no manuseio de circuitos elétricos e familiarize-se com as práticas habituais de prevenção de acidentes. Utilize o número da instrução fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham este dispositivo.</p> <p>GUARDE ESTAS INSTRUÇÕES</p>

¡Advertencia! INSTRUCCIONES IMPORTANTES DE SEGURIDAD

Este símbolo de aviso indica peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considere los riesgos de la corriente eléctrica y familiarícese con los procedimientos estándar de prevención de accidentes. Al final de cada advertencia encontrará el número que le ayudará a encontrar el texto traducido en el apartado de traducciones que acompaña a este dispositivo.

GUARDE ESTAS INSTRUCCIONES

Varning! VIKTIGA SÄKERHETSANVISNINGAR

Denna varningssignal signalerar fara. Du befinner dig i en situation som kan leda till personskada. Innan du utför arbete på någon utrustning måste du vara medveten om farorna med elkretsar och känna till vanliga förfaranden för att förebygga olyckor. Använd det nummer som finns i slutet av varje varning för att hitta dess översättning i de översatta säkerhetsvarningar som medföljer denna anordning.

SPARA DESSA ANVISNINGAR

Figyelem FONTOS BIZTONSÁGI ELOÍRÁSOK

Ez a figyelmeztető jel veszélyre utal. Sérülésveszélyt rejtő helyzetben van. Mielőtt bármely berendezésen munkát végezte, legyen figyelemmel az elektromos áramkörök okozta kockázatokra, és ismerkedjen meg a szokásos balesetvédelmi eljárásokkal. A kiadványban szereplő figyelmeztetések fordítása a készülékhez mellékelte biztonsági figyelmeztetések között található; a fordítás az egyes figyelmeztetések végén látható szám alapján kereshető meg.

ORIZZE MEG EZEKET AZ UTASÍTÁSOKAT!

Предупреждение ВАЖНЫЕ ИНСТРУКЦИИ ПО СОБЛЮДЕНИЮ ТЕХНИКИ БЕЗОПАСНОСТИ

Этот символ предупреждения обозначает опасность. То есть имеет место ситуация, в которой следует опасаться телесных повреждений. Перед эксплуатацией оборудования выясните, каким опасностям может подвергаться пользователь при использовании электрических цепей, и ознакомьтесь с правилами техники безопасности для предотвращения возможных несчастных случаев. Воспользуйтесь номером заявления, приведенным в конце каждого предупреждения, чтобы найти его переведенный вариант в переводе предупреждений по безопасности, прилагаемом к данному устройству.

СОХРАНИТЕ ЭТИ ИНСТРУКЦИИ

警告 重要的安全性说明

此警告符号代表危险。您正处于可能受到严重伤害的工作环境中。在您使用设备开始工作之前，必须充分意识到触电的危险，并熟练掌握防止事故发生的标准工作程序。请根据每项警告结尾提供的声明号码来找到此设备的安全性警告说明的翻译文本。

请保存这些安全性说明

警告 安全上の重要な注意事項

「危険」の意味です。人身事故を予防するための注意事項が記述されています。装置の取り扱い作業を行うときは、電気回路の危険性に注意し、一般的な事故防止策に留意してください。警告の各国語版は、各注意事項の番号を基に、装置に付属の「Translated Safety Warnings」を参照してください。

これらの注意事項を保管しておいてください。

More Than One Power Supply

**Warning**

This unit might have more than one power supply connection. All connections must be removed to de-energize the unit. Statement 1028

Waarschuwing

Deze eenheid kan meer dan één stroomtoevoeraansluiting bevatten. Alle aansluitingen dienen ontkoppeld te worden om de eenheid te ontcrachten.

Varoitus

Tässä laitteessa voi olla useampia kuin yksi virtakytkentä. Kaikki liitännät on irrotettava, jotta jännite poistetaan laitteesta.

Attention

Cette unité peut avoir plus d'une connexion d'alimentation. Pour supprimer toute tension et tout courant électrique de l'unité, toutes les connexions d'alimentation doivent être débranchées.

Warnung

Dieses Gerät kann mehr als eine Stromzufuhr haben. Um sicherzustellen, dass der Einheit kein Strom zugeführt wird, müssen alle Verbindungen entfernt werden.

Avvertenza

Questa unità può avere più di una connessione all'alimentazione elettrica. Tutte le connessioni devono essere staccate per togliere la corrente dall'unità.

Advarsel

Denne enheten kan ha mer enn én strømtilførselskobling. Alle koblinger må fjernes fra enheten for å utkoble all strøm.

Aviso

Esta unidade poderá ter mais de uma conexão de fonte de energia. Todas as conexões devem ser removidas para desligar a unidade.

¡Advertencia!

Puede que esta unidad tenga más de una conexión para fuentes de alimentación. Para cortar por completo el suministro de energía, deben desconectarse todas las conexiones.

Varning! Denna enhet har eventuellt mer än en strömförsörjningsanslutning. Alla anslutningar måste tas bort för att göra enheten strömlös.

Előfordulhat, hogy a készülék többszörösen van csatlakoztatva az áramforráshoz. A készülék áramtalanításához mindegyik csatlakozást meg kell szüntetni.

Предупреждение В данном устройстве может использоваться несколько подключений к электросети. Чтобы обесточить устройство, необходимо отключить все эти подключения.

警告 此部件连接的电源可能不止一个。必须将所有电源断开才能停止给该部件供电。

警告 この装置には、複数の電源が接続されている場合があります。装置の電源を完全にオフにするには、すべての電源を切断する必要があります。

주의 본 장치에는 2개 이상의 전원 공급 연결 단자가 있을 수 있습니다. 이 장치의 전원을 차단하려면 모든 연결 단자를 제거해야 합니다.

Aviso Esta unidade pode ter mais de uma conexão de fonte de alimentação. Todas as conexões devem ser removidas para interromper a alimentação da unidade.

Advarsel Denne enhed har muligvis mere end en strømforsyningstilslutning. Alle tilslutninger skal fjernes for at aflade strømmen fra enheden.

تحذير قد تتضمن هذه الوحدة أكثر من اتصال بمورد الطاقة. يجب فصل كافة التوصيلات حتى يمكن إفراغ طاقة الوحدة.

Upozorenje Uređaj može imati više priključaka za izvore napajanja. Za potpuno isključivanje napajanja potrebno je iskopčati sve priključke.

Upozornění Toto zařízení může být připojeno k více než jednomu zdroji napájení. Aby se zařízení zcela odpojilo od proudu, musí být odpojeno od všech zdrojů napájení.

Προειδοποίηση Αυτή η συσκευή ίσως να έχει περισσότερες συνδέσεις τροφοδοσίας. Για να απενεργοποιηθεί η συσκευή, πρέπει να αφαιρεθούν όλες οι συνδέσεις.

אזהרה ייתכן שביחידה זו קיים יותר מחיבור אחד לספק כוח. יש להסיר את כל החיבורים כדי להפסיק את אספקת המתח ליחידה.

Уредот може да има повеќе од еден приклучок за напојување. Сите приклучоци мора да се извадат за да се прекине доводот на енергија во уредот.

Ostrzeżenie To urządzenie może mieć podłączone więcej niż jedno źródło zasilania. Aby całkowicie odciąć dopływ energii do urządzenia, należy odłączyć wszystkie źródła zasilania.

Upozornenie Toto zariadenie môže byť pripojené k viac ako jednému zdroju napájania. Aby sa zariadenie odpojilo od prúdu, musí byť odpojené od všetkých zdrojov.

警告 本裝置可能有一個以上的供電連線。必須移除所有連線才能將裝置斷電。

Installation Instructions



Warning

Read the installation instructions before connecting the system to the power source. Statement 1004

Waarschuwing Raadpleeg de installatie-instructies voordat u het systeem op de voedingsbron aansluit.

Varoitus Lue asennusohjeet ennen järjestelmän yhdistämistä virtalähteeseen.

Attention Avant de brancher le système sur la source d'alimentation, consulter les directives d'installation.

Warnung Vor dem Anschließen des Systems an die Stromquelle die Installationsanweisungen lesen.

Avvertenza Consultare le istruzioni di installazione prima di collegare il sistema all'alimentatore.

Advarsel Les installasjonsinstruksjonene før systemet kobles til strømkilden.

Aviso Leia as instruções de instalação antes de ligar o sistema à fonte de energia.

¡Advertencia! Lea las instrucciones de instalación antes de conectar el sistema a la red de alimentación.

Varning! Läs installationsanvisningarna innan du kopplar systemet till strömförsörjningsenheten.

Figyelem Mielőtt áramforráshoz csatlakoztatná a rendszert, olvassa el az üzembe helyezési útmutatót!

Предупреждение Перед подключением устройства к источнику электропитания ознакомьтесь с данной инструкцией по установке.

警告 在將系統與電源連接之前，請仔細閱讀安裝說明。

警告 必ず設置手順を読んでから、システムを電源に接続してください。

주의 시스템을 전원에 연결하기 전에 설치 지침을 읽으십시오.

Aviso Leia as instruções de instalação antes de conectar o sistema à fonte de energia.

Upozornění Před připojením systému k elektrické síti si prostudujte pokyny k instalaci.

אזהרה יש לקרוא את הוראות ההתקנה לפני חיבור המערכת למקור המתח.

Ostrzeżenie Przed podłączeniem systemu do źródła zasilania należy przeczytać instrukcje dotyczące instalacji.

Upozornenie Pred pripojením systému k napájacímu zdroju si prečítajte inštalčné pokyny.

Opozorilo Preden sistem priključite, preberite navodila za priključitev.

警告 將系統連接供電系統前，請先閱讀安裝指南。

Figyelem Mielőtt áramforráshoz csatlakoztatná a rendszert, olvassa el az üzembe helyezési útmutatót!

Предупреждение Перед подключением устройства к источнику электропитания ознакомьтесь с данной инструкцией по установке.

警告 在将系统与电源连接之前，请仔细阅读安装说明。

警告 必ず設置手順を読んでから、システムを電源に接続してください。

주의 시스템을 전원에 연결하기 전에 설치 지침을 읽으십시오.

Aviso Leia as instruções de instalação antes de conectar o sistema à fonte de energia.

Upozornění Před připojením systému k elektrické síti si prostudujte pokyny k instalaci.

אזהרה יש לקרוא את הוראות ההתקנה לפני חיבור המערכת למקור המתח.

Ostrzeżenie Przed podłączeniem systemu do źródła zasilania należy przeczytać instrukcje dotyczące instalacji.

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Opozorilo Preden sistem priključite, preberite navodila za priključitev.

警告 將系統連接供電系統前，請先閱讀安裝指南。

Ground Conductor Warning



Warning

This equipment must be grounded. Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available. Statement 1024

Waarschuwing

Deze apparatuur dient geaard te zijn. De aardingsleiding mag nooit buiten werking worden gesteld en de apparatuur mag nooit bediend worden zonder dat er een op de juiste wijze geïnstalleerde aardingsleiding aanwezig is. Neem contact op met de bevoegde instantie voor elektrische inspecties of met een elektricien als u er niet zeker van bent dat er voor passende aarding gezorgd is.

Varoitus

Laitteiden on oltava maadoitettuja. Älä koskaan ohita maajohdinta tai käytä laitteita ilman oikein asennettua maajohdinta. Ota yhteys sähkö tarkastusviranomaiseen tai sähköasentajaan, jos olet epävarma maadoituksen sopivuudesta.

Attention

Cet équipement doit être mis à la masse. Ne jamais rendre inopérant le conducteur de masse ni utiliser l'équipement sans un conducteur de masse adéquatement installé. En cas de doute sur la mise à la masse appropriée disponible, s'adresser à l'organisme responsable de la sécurité électrique ou à un électricien.

Warnung

Dieses Gerät muss geerdet sein. Auf keinen Fall den Erdungsleiter unwirksam machen oder das Gerät ohne einen sachgerecht installierten Erdungsleiter verwenden. Wenn Sie sich nicht sicher sind, ob eine sachgerechte Erdung vorhanden ist, wenden Sie sich an die zuständige Inspektionsbehörde oder einen Elektriker.

Avvertenza

Questa apparecchiatura deve essere dotata di messa a terra. Non escludere mai il conduttore di protezione né usare l'apparecchiatura in assenza di un conduttore di protezione installato in modo corretto. Se non si è certi della disponibilità di un adeguato collegamento di messa a terra, richiedere un controllo elettrico presso le autorità competenti o rivolgersi a un elettricista.

Advarsel

Dette utstyret må jordes. Omgå aldri jordingslederen og bruk aldri utstyret uten riktig montert jordingsleder. Ta kontakt med fagfolk innen elektrisk inspeksjon eller med en elektriker hvis du er usikker på om det finnes velegnet jordning.

Aviso

Este equipamento deve ser aterrado. Nunca anule o fio terra nem opere o equipamento sem um aterramento adequadamente instalado. Em caso de dúvida com relação ao sistema de aterramento disponível, entre em contato com os serviços locais de inspeção elétrica ou um eletricista qualificado.

¡Advertencia! Este equipo debe estar conectado a tierra. No inhabilite el conductor de tierra ni haga funcionar el equipo si no hay un conductor de tierra instalado correctamente. Póngase en contacto con la autoridad correspondiente de inspección eléctrica o con un electricista si no está seguro de que haya una conexión a tierra adecuada.

Varning! Denna utrustning måste jordas. Koppla aldrig från jordledningen och använd aldrig utrustningen utan en på lämpligt sätt installerad jordledning. Om det föreligger osäkerhet huruvida lämplig jordning finns skall elektrisk besiktningsauktoritet eller elektriker kontaktas.

Figyelem **A berendezés csak megfelelő védőföldeléssel működtethető. Ne iktassa ki a földelés csatlakozóját, és ne üzemeltesse a berendezést szabályosan felszerelt földelő vezeték nélkül! Ha nem biztos benne, hogy megfelelő földelés áll rendelkezésbe, forduljon a helyi elektromos hatóságokhoz vagy egy villanyszerelőhöz.**

Предупреждение Данное устройство должно быть заземлено. Никогда не отключайте провод заземления и не пользуйтесь оборудованием при отсутствии правильно подключенного провода заземления. За сведениями об имеющихся возможностях заземления обратитесь к соответствующим контролирующим организациям по энергоснабжению или к инженеру-электрику.

警告 此设备必须接地。切勿使接地导体失效，或者在没有正确安装接地导体的情况下操作该设备。如果您不能肯定接地导体是否正常发挥作用，请咨询有关电路检测方面的权威人士或电工。

警告 この装置はアース接続する必要があります。アース導体を破損しないよう注意し、アース導体を正しく取り付けないまま装置を稼働させないでください。アース接続が適正であるかどうか分からない場合には、電気検査機関または電気技術者に相談してください。

Figyelem **A berendezés csak megfelelő védőföldeléssel működtethető. Ne iktassa ki a földelés csatlakozóját, és ne üzemeltesse a berendezést szabályosan felszerelt földelő vezeték nélkül! Ha nem biztos benne, hogy megfelelő földelés áll rendelkezésbe, forduljon a helyi elektromos hatóságokhoz vagy egy villanyszerelőhöz.**

Предупреждение Данное устройство должно быть заземлено. Никогда не отключайте провод заземления и не пользуйтесь оборудованием при отсутствии правильно подключенного провода заземления. За сведениями об имеющихся возможностях заземления обратитесь к соответствующим контролирующим организациям по энергоснабжению или к инженеру-электрику.

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Chassis Warning for Rack-Mounting and Servicing



Warning

To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety: Statement 1006

- This unit should be mounted at the bottom of the rack if it is the only unit in the rack.
- When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.
- If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack.

Waarschuwing

Om lichamelijk letsel te voorkomen wanneer u dit toestel in een rek monteert of het daar een servicebeurt geeft, moet u speciale voorzorgsmaatregelen nemen om ervoor te zorgen dat het toestel stabiel blijft. De onderstaande richtlijnen worden verstrekt om uw veiligheid te verzekeren:

- Dit toestel dient onderaan in het rek gemonteerd te worden als het toestel het enige in het rek is.
- Wanneer u dit toestel in een gedeeltelijk gevuld rek monteert, dient u het rek van onderen naar boven te laden met het zwaarste onderdeel onderaan in het rek.
- Als het rek voorzien is van stabiliseringshulpmiddelen, dient u de stabilisatoren te monteren voordat u het toestel in het rek monteert of het daar een servicebeurt geeft.

Varoitus

Kun laite asetetaan telineeseen tai huolletaan sen ollessa telineessä, on noudatettava erityisiä varotoimia järjestelmän vakavuuden säilyttämiseksi, jotta vältetään loukkaantumiselta. Noudata seuraavia turvallisuusohjeita:

- Jos telineessä ei ole muita laitteita, aseta laite telineen alaosaan.
- Jos laite asetetaan osaksi täytettyyn telineeseen, aloita kuormittaminen sen alaosasta kaikkein raskaimmalla esineellä ja siirry sitten sen yläosaan.
- Jos telinettä varten on vakaimet, asenna ne ennen laitteen asettamista telineeseen tai sen huoltamista siinä.

- Attention** Pour éviter toute blessure corporelle pendant les opérations de montage ou de réparation de cette unité en casier, il convient de prendre des précautions spéciales afin de maintenir la stabilité du système. Les directives ci-dessous sont destinées à assurer la protection du personnel:
- Si cette unité constitue la seule unité montée en casier, elle doit être placée dans le bas.
 - Si cette unité est montée dans un casier partiellement rempli, charger le casier de bas en haut en plaçant l'élément le plus lourd dans le bas.
 - Si le casier est équipé de dispositifs stabilisateurs, installer les stabilisateurs avant de monter ou de réparer l'unité en casier.
- Warnung** Zur Vermeidung von Körperverletzung beim Anbringen oder Warten dieser Einheit in einem Gestell müssen Sie besondere Vorkehrungen treffen, um sicherzustellen, daß das System stabil bleibt. Die folgenden Richtlinien sollen zur Gewährleistung Ihrer Sicherheit dienen:
- Wenn diese Einheit die einzige im Gestell ist, sollte sie unten im Gestell angebracht werden.
 - Bei Anbringung dieser Einheit in einem zum Teil gefüllten Gestell ist das Gestell von unten nach oben zu laden, wobei das schwerste Bauteil unten im Gestell anzubringen ist.
 - Wird das Gestell mit Stabilisierungszubehör geliefert, sind zuerst die Stabilisatoren zu installieren, bevor Sie die Einheit im Gestell anbringen oder sie warten.
- Avvertenza** Per evitare infortuni fisici durante il montaggio o la manutenzione di questa unità in un supporto, occorre osservare speciali precauzioni per garantire che il sistema rimanga stabile. Le seguenti direttive vengono fornite per garantire la sicurezza personale:
- Questa unità deve venire montata sul fondo del supporto, se si tratta dell'unica unità da montare nel supporto.
 - Quando questa unità viene montata in un supporto parzialmente pieno, caricare il supporto dal basso all'alto, con il componente più pesante sistemato sul fondo del supporto.
 - Se il supporto è dotato di dispositivi stabilizzanti, installare tali dispositivi prima di montare o di procedere alla manutenzione dell'unità nel supporto.
- Advarsel** Unngå fysiske skader under montering eller reparasjonsarbeid på denne enheten når den befinner seg i et kabinett. Vær nøye med at systemet er stabilt. Følgende retningslinjer er gitt for å verne om sikkerheten:
- Denne enheten bør monteres nederst i kabinettet hvis dette er den eneste enheten i kabinettet.
 - Ved montering av denne enheten i et kabinett som er delvis fylt, skal kabinettet lastes fra bunnen og opp med den tyngste komponenten nederst i kabinettet.
 - Hvis kabinettet er utstyrt med stabiliseringsutstyr, skal stabilisatorene installeres før montering eller utføring av reparasjonsarbeid på enheten i kabinettet.
- Aviso** Para se prevenir contra danos corporais ao montar ou reparar esta unidade numa estante, deverá tomar precauções especiais para se certificar de que o sistema possui um suporte estável. As seguintes directrizes ajudá-lo-ão a efectuar o seu trabalho com segurança:
- Esta unidade deverá ser montada na parte inferior da estante, caso seja esta a única unidade a ser montada.
 - Ao montar esta unidade numa estante parcialmente ocupada, coloque os itens mais pesados na parte inferior da estante, arrumando-os de baixo para cima.
 - Se a estante possuir um dispositivo de estabilização, instale-o antes de montar ou reparar a unidade.

- ¡Advertencia!** Para evitar lesiones durante el montaje de este equipo sobre un bastidor, o posteriormente durante su mantenimiento, se debe poner mucho cuidado en que el sistema quede bien estable. Para garantizar su seguridad, proceda según las siguientes instrucciones:
- Colocar el equipo en la parte inferior del bastidor, cuando sea la única unidad en el mismo.
 - Cuando este equipo se vaya a instalar en un bastidor parcialmente ocupado, comenzar la instalación desde la parte inferior hacia la superior colocando el equipo más pesado en la parte inferior.
 - Si el bastidor dispone de dispositivos estabilizadores, instalar éstos antes de montar o proceder al mantenimiento del equipo instalado en el bastidor.
- Varning!** För att undvika kroppsskada när du installerar eller utför underhållsarbete på denna enhet på en ställning måste du vidta särskilda försiktighetsåtgärder för att försäkra dig om att systemet står stadigt. Följande riktlinjer ges för att trygga din säkerhet:
- Om denna enhet är den enda enheten på ställningen skall den installeras längst ned på ställningen.
 - Om denna enhet installeras på en delvis fylld ställning skall ställningen fyllas nedifrån och upp, med de tyngsta enheterna längst ned på ställningen.
 - Om ställningen är försedd med stabiliseringsdon skall dessa monteras fast innan enheten installeras eller underhålls på ställningen.
- Figyelem** **A készülék rackbe történő beszerelése és karbantartása során bekövetkező sérülések elkerülése végett speciális óvintézkedésekkel meg kell őrizni a rendszer stabilitását. A személyes biztonsága érdekében tartsa be a következő szabályokat:**
- **Ha a rackben csak ez az egy készülék található, a rack aljába kell beszerelni.**
 - **Ha nincs teljesen tele az a rack, amelybe beszerelik a készüléket, alulról fölfelé haladva tölts fel a racket úgy, hogy a legnehezebb készülék kerüljön a rack aljába.**
 - **Ha stabilizáló eszközök is tartoznak a rackhez, szerelje fel a stabilizátorokat, mielőtt beszerelné az egységet a rackbe, vagy karbantartást végezne rajta.**
- Предупреждение** Во избежание травм при монтаже и обслуживании устройства в стойке следует принять особые меры предосторожности, чтобы убедиться в устойчивости оборудования. Для обеспечения безопасности работ необходимо соблюдать следующие правила.
- Если в стойке находится одно устройство, оно должно быть установлено в нижней части.
 - При монтаже устройств в частично заполненную стойку устанавливайте оборудование снизу вверх, размещая наиболее тяжелые устройства в нижней части.
 - Если стойка снабжена приспособлениями для стабилизации, их необходимо установить до начала монтажа или обслуживания оборудования.
- 警告** 为避免在机架中安装或维修该部件时使身体受伤，您必须采取特殊的预防措施确保系统固定。以下是确保安全的原则：
- 如果此部件是机架中唯一的部件，应将其安装在机架的底部。
 - 如果在部分装满的机架中安装此部件，请按从下往上的顺序安装各个部件，并且最重的组件应安装在机架的底部。
 - 如果机架配有固定装置，请先装好固定装置，然后再在机架中安装或维修部件。
- 警告** この装置をラックに設置したり保守作業を行ったりするときは、人身事故を防ぐため、システムが安定しているかどうかを十分に確認する必要があります。次の注意事項に従ってください。
- ラックにこの装置を単独で設置する場合は、ラックの一番下に設置します。
 - ラックに別の装置がすでに設置されている場合は、最も重量のある装置を一番下にして、重い順に下から上へ設置します。
 - ラックに安定器具が付属している場合は、その安定器具を取り付けてから、装置をラックに設置するか、またはラック内の装置の保守作業を行ってください。

- 주의** 이 장치를 랙에 장착하거나 서비스할 때 신체 부상을 방지하려면, 시스템이 안정된 상태를 유지하도록 특별히 주의해야 합니다. 사용자의 안전을 위해 다음 지침 사항을 준수하십시오.
- 이 장치가 랙에 장착되는 유일한 것일 경우, 랙의 맨 아래 부분에 장착되어야 합니다.
 - 부분적으로 차 있는 랙에 이 장치를 장착할 경우, 가장 무거운 장치를 랙의 맨 아래 부분부터 차례로 장착하십시오.
 - 안정기가 랙과 함께 제공되는 경우, 이 안정기를 설치한 후 이 장치를 랙에 장착하거나 서비스하십시오.

Aviso Para evitar lesões corporais ao montar ou dar manutenção a esta unidade em um rack, é necessário tomar todas as precauções para garantir a estabilidade do sistema. As seguintes orientações são fornecidas para garantir a sua segurança:

- Se esta for a única unidade, ela deverá ser montada na parte inferior do rack.
- Ao montar esta unidade em um rack parcialmente preenchido, carregue-o de baixo para cima com o componente mais pesado em sua parte inferior.
- Se o rack contiver dispositivos estabilizadores, instale-os antes de montar ou dar manutenção à unidade existente.

Advarsel For at forhindre legemesbeskadigelse ved montering eller service af denne enhed i et rack, skal du sikre at systemet står stabilt. Følgende retningslinjer er også for din sikkerheds skyld:

- Enheden skal monteres i bunden af dit rack, hvis det er den eneste enhed i racket.
- Ved montering af denne enhed i et delvist fyldt rack, skal enhederne installeres fra bunden og opad med den tungeste enhed nederst.
- Hvis racket leveres med stabiliseringsenheder, skal disse installeres for enheden monteres eller serviceres i racket.

تحذير

لتجنب حدوث أي إصابات عند تركيب هذه الوحدة، يجب اتباع بعض الاحتياطات لضمان عمل النظام بشكل سليم. يتم ذكر الإرشادات التالية لضمان الأمان.

يجب تركيب هذه الوحدة في الجزء السفلي من الدولاب المتضمن قضبان إذا كانت هذه الوحدة هي الوحدة الوحيدة في الدولاب الذي يحتوي على قضبان.

عند تركيب هذه الوحدة في دولاب شبه ممتلئ، قم برفع الدولاب من الجزء السفلي لأعلى بحيث يكون الجزء الأثقل وزناً أسفل الدولاب.

إذا كان الدولاب المتضمن قضباناً يحتوي على أجهزة حفظ التوازن، قم بتثبيت هذه الأجهزة قبل تركيب الوحدة في الدولاب.

Upozorenje Kako ne bi došlo do tjelesnih ozljeda kod postavljanja ili servisiranja uređaja na polici, potrebno je poduzeti mjere predostrožnosti kako bi sustav uvijek bio stabilan. Sigurnost se može osigurati poštivanjem sljedećih smjernica:

- Ovaj uređaj treba ugraditi na dno police, ukoliko je to jedini uređaj na polici.
- Kod ugradnje uređaja u policu na kojoj se već nalaze drugi uređaji, policu treba opremiti počevši od dna, te tako da se na dno stave najteži dijelovi.
- Ukoliko su na polici ugrađeni stabilizatori, njih montirajte prije ugradnje ili servisiranja uređaja na polici.

Upozornění	<p>Abyste předešli poranění osob při montáži nebo opravě zařízení v montážním rámu, musíte dodržovat zvláštní preventivní opatření pro zajištění udržení stability systému. Pro zajištění bezpečnosti obsluhy jsou určeny následující zásady:</p> <ul style="list-style-type: none"> • Pokud je toto zařízení jedinou jednotkou v montážním rámu, musí být namontováno na nejnižší místo rámu. • Pokud je toto zařízení montováno do částečně obsazeného montážního rámu, obsazujte montážní rám ve směru zdola nahoru tak, aby byla nejtěžší součást nejnižší. • Pokud je montážní rám vybaven stabilizačními zařízeními, nainstalujte stabilizátory ještě před montáží nebo opravou zařízení v montážním rámu.
Προειδοποίηση	<p>Για να αποφύγετε τον τραυματισμό κατά την τοποθέτηση ή τη συντήρηση αυτής της συσκευής σε αρθρωτό σύστημα, πρέπει να λάβετε ειδικές προφυλάξεις για να διασφαλίσετε τη σταθερότητα του συστήματος. Οι παρακάτω οδηγίες παρέχονται για να εξασφαλίσουν την ασφάλειά σας:</p> <ul style="list-style-type: none"> • Αυτή η συσκευή πρέπει να τοποθετείται στο κάτω μέρος του αρθρωτού συστήματος αν είναι η μοναδική συσκευή σε αυτό. • Όταν τοποθετείτε αυτήν τη συσκευή σε εν μέρει γεμάτο αρθρωτό σύστημα, τοποθετήστε συσκευές στο αρθρωτό σύστημα από κάτω προς τα επάνω, με τη βαρύτερη συσκευή στο κάτω μέρος του συστήματος. • Εάν το αρθρωτό σύστημα διαθέτει διατάξεις σταθεροποίησης, τοποθετήστε τους σταθεροποιητές πριν τοποθετήσετε ή συντηρήσετε τη συσκευή στο αρθρωτό σύστημα.
אזהרה	<p>כדי למנוע פציעה בעת הרכבת יחידה זו במעמד או טיפול בה, עליך לנקוט אמצעי זהירות מיוחדים כדי להבטיח את יציבות המערכת. הקווים המנחים הבאים ניתנים על מנת להבטיח את ביטחונך:</p> <ul style="list-style-type: none"> • אם יחידה זו היא יחידה בודדת במעמד, יש להרכיב את היחידה בחלקו התחתון של המעמד. • בעת הרכבת יחידה זו במעמד המלא בחלקו, טען את המעמד החל בחלק התחתון וכלפי מעלה כאשר הרכיב הכבד ביותר נמצא בחלקו התחתון של המעמד. • אם המעמד מסופק עם התקני ייצוב, התקן את המייצבים לפני הרכבה היחידה במעמד או טיפול בה.
Opomena	<p>За да се не повредите кога го монтирате или го сервисирате уредот на полица, мора да бидете особено претпазливи за да ја обезбедите стабилноста на системот. Следите напатствија се дадени за да ја осигураат Вашата безбедност:</p> <ul style="list-style-type: none"> • Уредот треба да се монтира најдолу на полицата ако е единствен уред на полицата. • Кога го монтирате уредот на делумно пополнета полица, полнете ја полицата од дното кон врвот со најтешката компонента на дното на полицата. • Ако полицата има стабилизаторски делови, наместете ги стабилизаторите пред да го монтирате или сервисирате уредот на полицата.

- Ostrzeżenie** Aby zapobiec urazom podczas montażu lub serwisowania tego urządzenia w stojaku, należy zastosować szczególne środki ostrożności w celu zapewnienia stabilności układu. Poniżej przedstawiono wskazówki, których przestrzeganie zapewni bezpieczeństwo:
- Jeśli urządzenie to jest jedynym urządzeniem w stojaku, powinno być zamontowane na dole.
 - W przypadku montażu urządzenia w częściowo zapełnionym stojaku należy instalować kolejne urządzenia od najniższego do najwyższego, przy czym element najcięższy powinien być zamontowany najniżej w stojaku.
 - Jeśli stojak jest wyposażony w elementy stabilizujące, należy zamontować stabilizatory przed przystąpieniem do montażu lub serwisowania urządzeń w stojaku.
- Upozornenie** Aby ste predišli poraneniu osôb pri montáži alebo oprave zariadenia v montážnom ráme, musíte dodržiavať zvláštne preventívne opatrenia na zaistenie udržania stability systému. Na zaistenie bezpečnosti obsluhy sú určené nasledujúce zásady:
- Pokiaľ je toto zariadenie jedinou jednotkou v montážnom ráme, musí byť namontované na najnižšie miesto v ráme.
 - Pokiaľ je toto zariadenie montované do čiastočne obsadeného montážneho rámu, obsadzujte montážny rám v smere zdola nahor tak, aby bola najťažšia súčasť najnižšie.
 - Pokiaľ je montážny rám vybavený stabilizačnými zariadeniami, nainštalujte stabilizátory ešte pred montážou alebo opravou zariadenia v montážnom ráme.
-

Figyelem A készülék rackbe történő beszerelése és karbantartása során bekövetkező sérülések elkerülése végett speciális óvintézkedésekkel meg kell őrizni a rendszer stabilitását. A személyes biztonsága érdekében tartsa be a következő szabályokat:

- Ha a rackben csak ez az egy készülék található, a rack aljába kell beszerelni.
- Ha nincs teljesen tele az a rack, amelybe beszerelik a készüléket, alulról fölfelé haladva töltsse fel a racket úgy, hogy a legnehezebb készülék kerüljön a rack aljába.
- Ha stabilizáló eszközök is tartoznak a rackhez, szerelje fel a stabilizátorokat, mielőtt beszerelné az egységet a rackbe, vagy karbantartást végezne rajta.

Предупреждение Во избежание травм при монтаже и обслуживании устройства в стойке следует принять особые меры предосторожности, чтобы убедиться в устойчивости оборудования. Для обеспечения безопасности работ необходимо соблюдать следующие правила.

- Если в стойке находится одно устройство, оно должно быть установлено в нижней части.
- При монтаже устройств в частично заполненную стойку устанавливайте оборудование снизу вверх, размещая наиболее тяжелые устройства в нижней части.
- Если стойка снабжена приспособлениями для стабилизации, их необходимо установить до начала монтажа или обслуживания оборудования.

警告 为避免在机架中安装或维修该部件时使身体受伤，您必须采取特殊的预防措施确保系统固定。以下是确保安全的原则：

- 如果此部件是机架中唯一的部件，应将其安装在机架的底部。
- 如果在部分装满的机架中安装此部件，请按从下往上的顺序安装各个部件，并且最重的组件应安装在机架的底部。
- 如果机架配有固定装置，请先装好固定装置，然后再在机架中安装或维修部件。

警告 この装置をラックに設置したり保守作業を行ったりするときは、人身事故を防ぐため、システムが安定しているかどうかを十分に確認する必要があります。次の注意事項に従ってください。

- ラックにこの装置を単独で設置する場合は、ラックの一番下に設置します。
- ラックに別の装置がすでに設置されている場合は、最も重量のある装置を一番下にして、重い順に下から上へ設置します。
- ラックに安定器具が付属している場合は、その安定器具を取り付けてから、装置をラックに設置するか、またはラック内の装置の保守作業を行ってください。

- 주의** 이 장치를 랙에 장착하거나 서비스할 때 신체 부상을 방지하려면, 시스템이 안정된 상태를 유지하도록 특별히 주의해야 합니다. 사용자의 안전을 위해 다음 지침 사항을 준수하십시오.
- 이 장치가 랙에 장착되는 유일한 것일 경우, 랙의 맨 아래 부분에 장착되어야 합니다.
 - 부분적으로 차 있는 랙에 이 장치를 장착할 경우, 가장 무거운 장치를 랙의 맨 아래 부분부터 차례로 장착하십시오.
 - 안정기가 랙과 함께 제공되는 경우, 이 안정기를 설치한 후 이 장치를 랙에 장착하거나 서비스하십시오.

تحذير لتجنب حدوث أي إصابات عند تركيب هذه الوحدة، يجب اتباع بعض الاحتياطات لضمان عمل النظام بشكل سليم. يتم ذكر الإرشادات التالية لضمان الأمان.

يجب تركيب هذه الوحدة في الجزء السفلي من الدولاب المتضمن قضبان إذا كانت هذه الوحدة هي الوحدة الوحيدة في الدولاب الذي يحتوي على قضبان.

عند تركيب هذه الوحدة في دولاب شبه ممتلئ، قم برفع الدولاب من الجزء السفلي لأعلى بحيث يكون الجزء الأثقل وزناً أسفل الدولاب.

إذا كان الدولاب المتضمن قضباناً يحتوي على أجهزة حفظ التوازن، قم بتثبيت هذه الأجهزة قبل تركيب الوحدة في الدولاب.

- Upozorenje** Kako ne bi došlo do tjelesnih ozljeda kod postavljanja ili servisiranja uređaja na polici, potrebno je poduzeti mjere predostrožnosti kako bi sustav uvijek bio stabilan. Sigurnost se može osigurati poštivanjem sljedećih smjernica:
- Ovaj uređaj treba ugraditi na dno police, ukoliko je to jedini uređaj na polici.
 - Kod ugradnje uređaja u policu na kojoj se već nalaze drugi uređaji, policu treba opremiti počevši od dna, te tako da se na dno stave najteži dijelovi.
 - Ukoliko su na polici ugrađeni stabilizatori, njih montirajte prije ugradnje ili servisiranja uređaja na polici.

- Upozornění** Abyste předešli poranění osob při montáži nebo opravě zařízení v montážním rámu, musíte dodržovat zvláštní preventivní opatření pro zajištění udržení stability systému. Pro zajištění bezpečnosti obsluhy jsou určeny následující zásady:
- Pokud je toto zařízení jedinou jednotkou v montážním rámu, musí být namontováno na nejnižší místo rámu.
 - Pokud je toto zařízení montováno do částečně obsazeného montážního rámu, obsazujte montážní rám ve směru zdola nahoru tak, aby byla nejtěžší součást nejnižší.
 - Pokud je montážní rám vybaven stabilizačními zařízeními, nainstalujte stabilizátory ještě před montáží nebo opravou zařízení v montážním rámu.

Προειδοποίηση	<p>Για να αποφύγετε τον τραυματισμό κατά την τοποθέτηση ή τη συντήρηση αυτής της συσκευής σε αρθρωτό σύστημα, πρέπει να λάβετε ειδικές προφυλάξεις για να διασφαλίσετε τη σταθερότητα του συστήματος. Οι παρακάτω οδηγίες παρέχονται για να εξασφαλίσουν την ασφάλειά σας:</p> <ul style="list-style-type: none"> • Αυτή η συσκευή πρέπει να τοποθετείται στο κάτω μέρος του αρθρωτού συστήματος αν είναι η μοναδική συσκευή σε αυτό. • Όταν τοποθετείτε αυτήν τη συσκευή σε εν μέρει γεμάτο αρθρωτό σύστημα, τοποθετήστε συσκευές στο αρθρωτό σύστημα από κάτω προς τα επάνω, με τη βαρύτερη συσκευή στο κάτω μέρος του συστήματος. • Εάν το αρθρωτό σύστημα διαθέτει διατάξεις σταθεροποίησης, τοποθετήστε τους σταθεροποιητές πριν τοποθετήσετε ή συντηρήσετε τη συσκευή στο αρθρωτό σύστημα.
אזהרה	<p>כדי למנוע פציעה בעת הרכבת יחידה זו במעמד או טיפול בה, עליך לנקוט אמצעי זהירות מיוחדים כדי להבטיח את יציבות המערכת. הקווים המנחים הבאים ניתנים על מנת להבטיח את ביטחונך:</p> <ul style="list-style-type: none"> • אם יחידה זו היא יחידה בודדת במעמד, יש להרכיב את היחידה בחלקו התחתון של המעמד. • בעת הרכבת יחידה זו במעמד המלא בחלקו, טען את המעמד החל בחלק התחתון וכלפי מעלה כאשר הרכיב הכבד ביותר נמצא בחלקו התחתון של המעמד. • אם המעמד מסופק עם התקני ייצוב, התקן את המייצבים לפני הרכבה היחידה במעמד או טיפול בה.
Opomena	<p>За да се не повредите кога го монтирате или го сервисирате уредот на полица, мора да бидете особено претпазливи за да ја обезбедите стабилноста на системот. Следите напатствија се дадени за да ја осигураат Вашата безбедност:</p> <ul style="list-style-type: none"> • Уредот треба да се монтира најдолу на полицата ако е единствен уред на полицата. • Кога го монтирате уредот на делумно пополнета полица, полнете ја полицата од дното кон врвот со најтешката компонента на дното на полицата. • Ако полицата има стабилизаторски делови, наместете ги стабилизаторите пред да го монтирате или сервисирате уредот на полицата.

- Ostrzeżenie** Aby zapobiec urazom podczas montażu lub serwisowania tego urządzenia w stojaku, należy zastosować szczególne środki ostrożności w celu zapewnienia stabilności układu. Poniżej przedstawiono wskazówki, których przestrzeganie zapewni bezpieczeństwo:
- Jeśli urządzenie to jest jedynym urządzeniem w stojaku, powinno być zamontowane na dole.
 - W przypadku montażu urządzenia w częściowo zapełnionym stojaku należy instalować kolejne urządzenia od najniższego do najwyższego, przy czym element najcięższy powinien być zamontowany najniżej w stojaku.
 - Jeśli stojak jest wyposażony w elementy stabilizujące, należy zamontować stabilizatory przed przystąpieniem do montażu lub serwisowania urządzeń w stojaku.
- Upozornenie** Aby ste predišli poraneniu osôb pri montáži alebo oprave zariadenia v montážnom ráme, musíte dodržiavať zvláštne preventívne opatrenia na zaistenie udržania stability systému. Na zaistenie bezpečnosti obsluhy sú určené nasledujúce zásady:
- Pokiaľ je toto zariadenie jedinou jednotkou v montážnom ráme, musí byť namontované na najnižšie miesto v ráme.
 - Pokiaľ je toto zariadenie montované do čiastočne obsadeného montážneho rámu, obsadzujte montážny rám v smere zdola nahor tak, aby bola najťažšia súčasť najnižšie.
 - Pokiaľ je montážny rám vybavený stabilizačnými zariadeniami, nainštalujte stabilizátory ešte pred montážou alebo opravou zariadenia v montážnom ráme.

Equipment Installation Warning



Warning

Only trained and qualified personnel should be allowed to install, replace, or service this equipment. Statement 1030

Waarschuwing

Deze apparatuur mag alleen worden geïnstalleerd, vervangen of hersteld door bevoegd geschoold personeel.

Varoitus

Tämän laitteen saa asentaa, vaihtaa tai huoltaa ainoastaan koulutettu ja laitteen tunteva henkilökunta.

Attention

Il est vivement recommandé de confier l'installation, le remplacement et la maintenance de ces équipements à des personnels qualifiés et expérimentés.

Warnung

Das Installieren, Ersetzen oder Bedienen dieser Ausrüstung sollte nur geschultem, qualifiziertem Personal gestattet werden.

Avvertenza	Questo apparato può essere installato, sostituito o mantenuto unicamente da un personale competente.
Advarsel	Bare opplært og kvalifisert personell skal foreta installasjoner, utskiftninger eller service på dette utstyret.
Aviso	Apenas pessoal treinado e qualificado deve ser autorizado a instalar, substituir ou fazer a revisão deste equipamento.
¡Advertencia!	Solamente el personal calificado debe instalar, reemplazar o utilizar este equipo.
Varning!	Endast utbildad och kvalificerad personal bör få tillåtelse att installera, byta ut eller reparera denna utrustning.
Figyelem	A berendezést csak szakképzett személyek helyezhetik üzembe, cserélhetik és tarthatják karban.
Предупреждение	Установку, замену и обслуживание этого оборудования может осуществлять только специально обученный квалифицированный персонал.
警告	只有经过培训且具有资格的人员才能进行此设备的安装、更换和维修。
警告	この装置の設置、交換、保守は、訓練を受けた相応の資格のある人が行ってください。
주의	교육을 받고 자격을 갖춘 사람만 이 장비를 설치, 교체, 또는 서비스를 수행해야 합니다.
Aviso	Somente uma equipe treinada e qualificada tem permissão para instalar, substituir ou dar manutenção a este equipamento.
Advarsel	Kun uddannede personer må installere, udskifte komponenter i eller servicere dette udstyr.
تحذير	يسمح للفنيين المتخصصين فقط بتركيب المعدة أو استبدالها أو إجراء الصيانة عليها.
Upozorenje	Uređaj smije ugrađivati, mijenjati i servisirati samo za to obučeno i osposobljeno servisno osoblje.
Upozornění	Instalaci, výměnu nebo opravu tohoto zařízení směji provádět pouze proškolené a kvalifikované osoby.
Προειδοποίηση	Η τοποθέτηση, η αντικατάσταση και η συντήρηση του εξοπλισμού επιτρέπεται να γίνονται μόνο από καταρτισμένο προσωπικό με τα κατάλληλα προσόντα.
אזהרה	

Equipment Installation Warning

Оророна	Местењето, заменувањето и сервисирањето на оваа опрема треба да му биде дозволено само на обучен и квалификуван персонал.
Ostrzeżenie	Do instalacji, wymiany i serwisowania tych urządzeń mogą być dopuszczone wyłącznie osoby wykwalifikowane i przeszkolone.
Upozornenie	Inštaláciu, výmenu alebo opravu tohto zariadenia smú vykonávať iba vyškolené a kvalifikované osoby.
<hr/>	
Figyelem	A berendezést csak szakképzett személyek helyezhetik üzembe, cserélhetik és tarthatják karban.
Предупреждение	Установку, замену и обслуживание этого оборудования может осуществлять только специально обученный квалифицированный персонал.
警告	只有经过培训且具有资格的人员才能进行此设备的安装、更换和维修。
警告	この装置の設置、交換、保守は、訓練を受けた相応の資格のある人が行ってください。
주의	교육을 받고 자격을 갖춘 사람만 이 장비를 설치, 교체, 또는 서비스를 수행해야 합니다.
تحذير	يسمح للفنيين المتخصصين فقط بتركيب المعدة أو استبدالها أو إجراء الصيانة عليها.
Upozorenje	Uređaj smije ugrađivati, mijenjati i servisirati samo za to obučeno i osposobljeno servisno osoblje.
Upozornění	Instalaci, výměnu nebo opravu tohoto zařízení smějí provádět pouze proškolené a kvalifikované osoby.
Προειδοποίηση	Η τοποθέτηση, η αντικατάσταση και η συντήρηση του εξοπλισμού επιτρέπεται να γίνονται μόνο από καταρτισμένο προσωπικό με τα κατάλληλα προσόντα.
התראה	
Оророна	Местењето, заменувањето и сервисирањето на оваа опрема треба да му биде дозволено само на обучен и квалификуван персонал.

- Ostrzeżenie** Do instalacji, wymiany i serwisowania tych urządzeń mogą być dopuszczone wyłącznie osoby wykwalifikowane i przeszkolone.
- Upozornenie** Inštaláciu, výmenu alebo opravu tohto zariadenia smú vykonávať iba vyškolené a kvalifikované osoby.
-

Battery Handling



Warning

There is the danger of explosion if the battery is replaced incorrectly. Replace the battery only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. Statement 1015

Waarschuwing

Er is ontploffingsgevaar als de batterij verkeerd vervangen wordt. Vervang de batterij slechts met hetzelfde of een equivalent type dat door de fabrikant aanbevolen is. Gebruikte batterijen dienen overeenkomstig fabrieksvoorschriften weggegooid te worden.

Varoitus

Räjähdyksen vaara, jos akku on vaihdettu väärään akkuun. Käytä vaihtamiseen ainoastaan samantai vastaavantyyppistä akkua, joka on valmistajan suosittelema. Hävitä käytetyt akut valmistajan ohjeiden mukaan.

Attention

Danger d'explosion si la pile n'est pas remplacée correctement. Ne la remplacer que par une pile de type semblable ou équivalent, recommandée par le fabricant. Jeter les piles usagées conformément aux instructions du fabricant.

Warnung

Bei Einsetzen einer falschen Batterie besteht Explosionsgefahr. Ersetzen Sie die Batterie nur durch den gleichen oder vom Hersteller empfohlenen Batterietyp. Entsorgen Sie die benutzten Batterien nach den Anweisungen des Herstellers.

Avvertenza

Pericolo di esplosione se la batteria non è installata correttamente. Sostituire solo con una di tipo uguale o equivalente, consigliata dal produttore. Eliminare le batterie usate secondo le istruzioni del produttore.

Advarsel

Det kan være fare for eksplosjon hvis batteriet skiftes på feil måte. Skift kun med samme eller tilsvarende type som er anbefalt av produsenten. Kasser brukte batterier i henhold til produsentens instruksjoner.

Aviso

Existe perigo de explosão se a bateria for substituída incorrectamente. Substitua a bateria por uma bateria igual ou de um tipo equivalente recomendado pelo fabricante. Destrua as baterias usadas conforme as instruções do fabricante.

¡Advertencia!

Existe peligro de explosión si la batería se reemplaza de manera incorrecta. Reemplazar la batería exclusivamente con el mismo tipo o el equivalente recomendado por el fabricante. Desechar las baterías gastadas según las instrucciones del fabricante.

Battery Handling

Varning! Explosionsfara vid felaktigt batteribyte. Ersätt endast batteriet med samma batterityp som rekommenderas av tillverkaren eller motsvarande. Följ tillverkarens anvisningar vid kassering av använda batterier.

Figyelem **Robbanásveszélyt idézhet elő, ha helytelenül cserélik ki az akkumulátort. Csak a gyártó által javasolttal megegyező vagy azzal egyenértékű típusúra cserélje ki az akkumulátort! A használt akkumulátorok kidobásakor tartsa be a gyártó előírásait!**

Предупреждение При неправильной замене батареи возможен взрыв. Для замены следует использовать батарею того же или аналогичного типа, рекомендованного изготовителем. Утилизацию батареи необходимо производить в соответствии с указаниями изготовителя.

警告 電池更換不當會有爆炸危險。請只用同類電池或製造商推薦的功能相當的電池更換原有電池。請按製造商的說明處理廢舊電池。

警告 不適切なバッテリーに交換すると、爆発の危険性があります。製造元が推奨するものと同じまたは同等のバッテリーだけを使用してください。使用済みのバッテリーは、製造元が指示する方法に従って処分してください。

警告 電池替換錯誤可能會發生爆炸。僅限以製造商建議的同樣或同款電池替換，並遵照製造商的指示處理使用過的電池。

Figyelem **Robbanásveszélyt idézhet elő, ha helytelenül cserélik ki az akkumulátort. Csak a gyártó által javasolttal megegyező vagy azzal egyenértékű típusúra cserélje ki az akkumulátort! A használt akkumulátorok kidobásakor tartsa be a gyártó előírásait!**

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Product Disposal


Warning

Ultimate disposal of this product should be handled according to all national laws and regulations.
Statement 1040

Waarschuwing

Het uiteindelijke wegruimen van dit product dient te geschieden in overeenstemming met alle nationale wetten en reglementen.

Varoitus

Tämä tuote on hävitettävä kansallisten lakien ja määräysten mukaisesti.

Attention

La mise au rebut ou le recyclage de ce produit sont généralement soumis à des lois et/ou directives de respect de l'environnement. Renseignez-vous auprès de l'organisme compétent.

Warnung

Die Entsorgung dieses Produkts sollte gemäß allen Bestimmungen und Gesetzen des Landes erfolgen.

Avvertenza

Lo smaltimento di questo prodotto deve essere eseguito secondo le leggi e regolazioni locali.

Advarsel

Endelig kassering av dette produktet skal være i henhold til alle relevante nasjonale lover og bestemmelser.

Aviso

Deitar fora este produto em conformidade com todas as leis e regulamentos nacionais.

¡Advertencia!

Al deshacerse por completo de este producto debe seguir todas las leyes y reglamentos nacionales.

Varning!

Vid deponering hanteras produkten enligt gällande lagar och bestämmelser.

Figyelem

A készülék végső elhelyezéséről az adott országban érvényes törvények és előírások szerint kell intézkedni.

Предупреждение

Окончательная установка данного изделия должна выполняться в соответствии со всеми региональными и местными правилами и нормами.

警告

本产品的废弃处理应根据所有国家的法律和规章进行。

警告

この製品を廃棄処分する際は、各国の法律および規制に従って取り扱ってください。

주의

시스템을 전원에 연결하기 전에 설치 지침을 읽으십시오.

Aviso

O descarte definitivo deste produto deve estar de acordo com todas as leis e regulamentações nacionais.

Advarsel

Endelig bortskaffelse af dette produkt skal ske i henhold til gældende love og regler.

Product Disposal

تحذير عند التخلص من المنتج يجب اتباع القوانين والتشريعات المحلية.

Upozorenje Zbrinjavanje ovoga proizvoda u otpad treba provesti u skladu s važećim zakonima i odredbama.

Upozornění **Upozornění: Likvidace tohoto výrobku musí být provedena podle platných zákonů a předpisů.**

Προειδοποίηση Η τελική απόρριψη αυτού του προϊόντος πρέπει να γίνεται σύμφωνα με όλους τους εθνικούς νόμους και κανονισμούς.

אזהרה סילוק סופי של מוצר זה חייב להיות בהתאם להנחיות ולחוקי המדינה.

Opomena Крајното фрлање на овој производ треба да се изврши во согласност со сите национални закони и прописи.

Ostrzeżenie **Ostateczna likwidacja tego urządzenia po jego wycofaniu z eksploatacji powinna odbywać się zgodnie z przepisami krajowymi.**

Upozornenie **Upozornenie Likvidácia tohto výrobku musí byť vykonaná podľa platných zákonov a predpisov.**

Opozorilo **Uničenje izdelka, ki ni več uporaben, mora potekati po državnih zakonih in predpisih.**

警告 本產品的最終處理必須遵照國家/地區的所有法律與法規。

Figyelem **A készülék végső elhelyezéséről az adott országban érvényes törvények és előírások szerint kell intézkedni.**

Предупреждение Окончательная установка данного изделия должна выполняться в соответствии со всеми региональными и местными правилами и нормами.

警告 本產品的廢棄處理應根據所有國家的法律和規章進行。

警告 この製品を廃棄処分する際は、各国の法律および規制に従って取り扱ってください。

주의 해당 국가의 관련 법규 및 규정에 따라 이 장치를 폐기해야 합니다.

تحذير	عند التخلص من المنتج يجب اتباع القوانين والتشريعات المحلية.
Upozorenje	Zbrinjavanje ovoga proizvoda u otpad treba provesti u skladu s važećim zakonima i odredbama.
Upozornění	Upozornění: Likvidace tohoto výrobku musí být provedena podle platných zákonů a předpisů.
Προειδοποίηση	Η τελική απόρριψη αυτού του προϊόντος πρέπει να γίνεται σύμφωνα με όλους τους εθνικούς νόμους και κανονισμούς.
אזהרה	סילוק סופי של מוצר זה חייב להיות בהתאם להנחיות ולחוקי המדינה.
Opomena	Krajnoto frplaње na ovoj proizvod treba da se izvrši vo soglasnost so site nacionalni zakoni i propisi.
Ostrzeżenie	Ostateczna likwidacja tego urządzenia po jego wycofaniu z eksploatacji powinna odbywać się zgodnie z przepisami krajowymi.
Upozornenie	Upozornenie Likvidácia tohto výrobku musí byť vykonaná podľa platných zákonov a predpisov.
Opozorilo	Uničenje izdelka, ki ni več uporaben, mora potekati po državnih zakonih in predpisih.
警告	本產品的最終處理必須遵照國家/地區的所有法律與法規。

Power Cable and AC Adapter

接続ケーブル、電源コード、ACアダプタなどの部品は、必ず添付品または指定品をご使用ください。添付品・指定品以外の部品をご使用になると故障や動作不良、火災の原因となります。また、電気用品安全法により、当該法の認定（PSEとコードに表記）でなくUL認定（ULとコードに表記）の電源ケーブルは弊社が指定する製品以外の電気機器には使用できないためご注意ください。

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Regulatory Information

This appendix provides regulatory information for the Cisco 3365 Mobility Services Engine.

FCC Statement for Cisco 3365 Series Mobility Services Engine

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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Declaration of Conformity with Regard to the EU Directive 1999/5/EC (R&TTE Directive)

This declaration is only valid for configurations (combinations of software, firmware and hardware) provided and/or supported by Cisco Systems. The use software or firmware not supported/provided by Cisco Systems may result that the equipment is no longer compliant with the regulatory requirements.

Statement 191—VCCI Class A Warning for Japan



Warning

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

警告

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