SSH-C48Q
Top-of-Rack Omni-Path Switch

Management GUI User’s Manual

Revison 1.0a

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WARNING: HANDLING OF LEAD SOLDER MATERIALS USED IN THIS PRODUCT MAY EXPOSE YOU TO LEAD, A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS AND OTHER REPRODUCTIVE HARM.

SSH-C48Q Management GUI User's Manual
Release Date: February 17, 2017

Preface

This manual is part of the documentation set for the Supermicro® Omni-Path Fabric (Supermicro® OP Fabric), which is an end-to-end solution consisting of adapters, edge switches, director switches and fabric management and development tools.

The Supermicro® OP Fabric delivers a platform for the next generation of High-Performance Computing (HPC) systems that is designed to cost-effectively meet the scale, density, and reliability requirements of large-scale HPC clusters.

Both the Supermicro® OP Fabric and standard InfiniBand* are able to send Internet Protocol (IP) traffic over the fabric, or *IPoFabric*. In this document, however, it is referred to as *IP over IB* or *IPoIB*. From a software point of view, IPoFabric and IPoIB behave the same way and, in fact, use the same `ib_ipoib` driver to send IP traffic over the ib0 and/or ib1 ports.

Intended Audience

The intended audience for the Supermicro® Omni-Path (Supermicro® OP) document set is network administrators and other qualified personnel.

Documentation Conventions

This guide uses the following documentation conventions:

- *Note:* provides additional information.
- ***Caution:*** indicates the presence of a hazard that has the potential of causing damage to data or equipment.
- ***Warning:*** indicates the presence of a hazard that has the potential of causing personal injury.
- Text in blue font indicates a hyperlink (jump) to a figure, table, or section in this guide. Links to Web sites are also shown in blue. For example:

  See License Agreements for more information.

  For more information, visit www.supermicro.com.
- Text in **bold** font indicates user interface elements such as a menu items, buttons, check boxes, or column headings. For example:

  Click the **Start** button, point to **Programs**, point to **Accessories**, and then click **Command Prompt**.
- Text in `Courier` font indicates a file name, directory path, or command line text. For example:

  Enter the following command: `sh ./install.bin`
- Key names and key strokes are shown in underlined bold uppercase letters. For example:

  Press **CTRL+P** and then press the **UP ARROW** key.
- Text in *italics* indicates terms, emphasis, variables, or document titles. For example:

Table of Contents

Introduction

This manual describes the Supermicro® Omni-Path Fabric Chassis Viewer graphical user interface (GUI), which enables configuration and administration of the Supermicro® Omni-Path Switch family.

This manual is organized as follows:

- This section provides an overview of the GUI, including accessing Chassis Viewer, displaying the home page, and a tour of different system views.
- Configuration and Monitoring describes the configuration and administration tasks.

Overview

The Supermicro® Omni-Path Fabric Chassis Viewer is browser-based device management software. Chassis Viewer provides the primary management interface for the Supermicro® Omni-Path Switch family, allowing you to perform management, configuration, and monitoring tasks.

The Chassis Viewer runs on the firmware of the Supermicro® Omni-Path Switch family. The browser must be on a workstation that has IP connectivity to the LAN port (RJ-45 connector) on the switch.

Chassis Viewer manages:

- The switch chassis
- Logging and monitoring functionality

Accessing Chassis Viewer

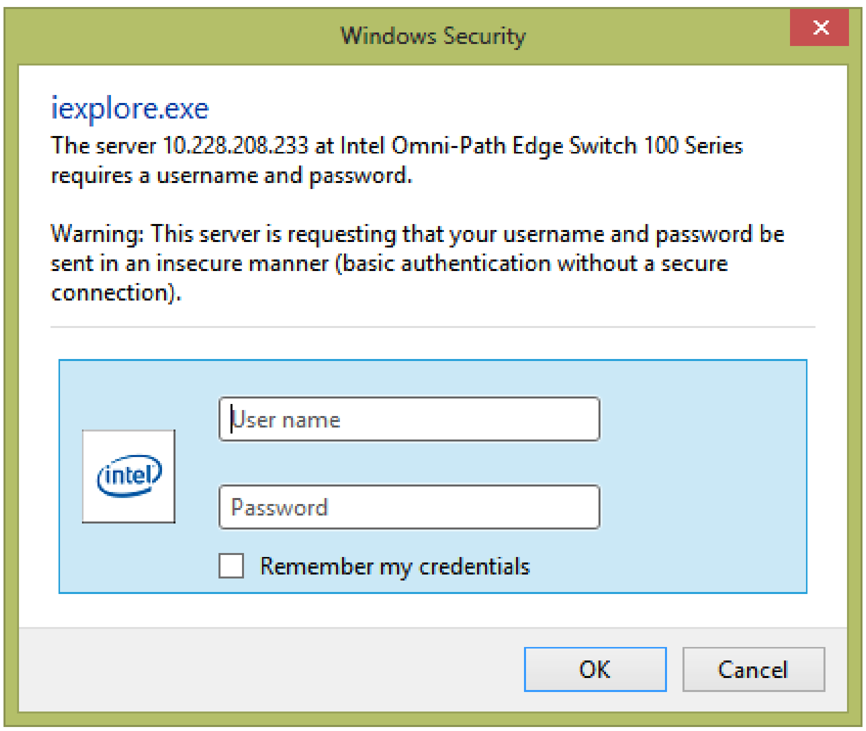
TASK

1. To access Chassis Viewer, point a browser to the IP address of the switch.

   STEP RESULT: **NOTE:** The default IP address is 192.168.100.9 and the default netmask is 255.255.255.0.

2. If user authentication is enabled, a **User Authentication** window is displayed.

   STEP RESULT:



Enter the user name and password. Default values are:

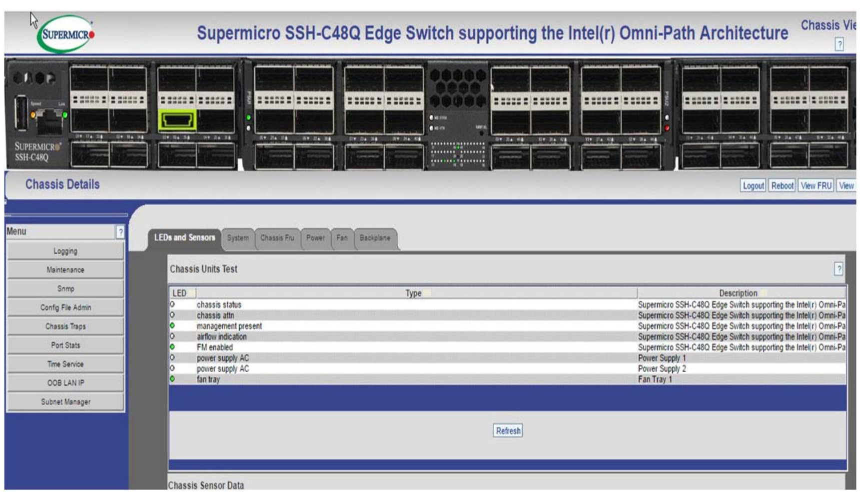
- User name: `admin`
- Password: `adminpass`

The Chassis Viewer home page is displayed.

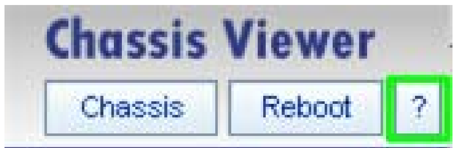
Home Page

The Chassis Viewer home page provides a high-level overview of the switch. This area is the starting point for more detailed information for the chassis and components (fans and power supplies), leaf modules, spine modules, and management module. The selected component provides hyperlinks to related menus and information where you can perform configuration and monitoring tasks.

Figure 1: Supermicro® OP Edge Switch 100 Family Home Page



The **? (HELP)** button displays online help. Each help window provides a high-level, topic-specific description.

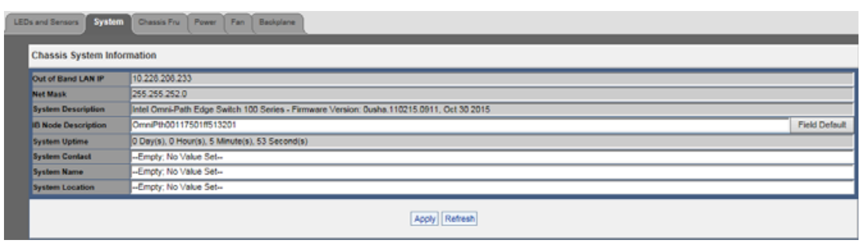


Component Details Area

The **Component Details Area** has three major sections:

- Details Header
- Information area
- Menu

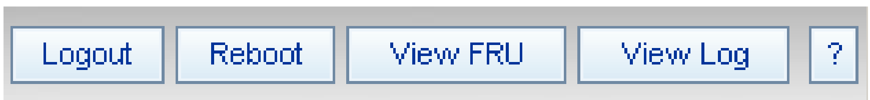
Figure 2: Component Details Area for Supermicro SSH-C48Q



Details Header

The **Details Header** allows you to execute command tasks for each hardware component.

Figure 3: Details Header



The Details Header contains the following buttons:

- **Logout**

  *NOTE: The **Logout** button is only displayed if you have set the User Authentication parameter to **Login Enabled** through the HTTP Session Configuration submenu. For more information, see HTTP/CLI Session Configuration.*

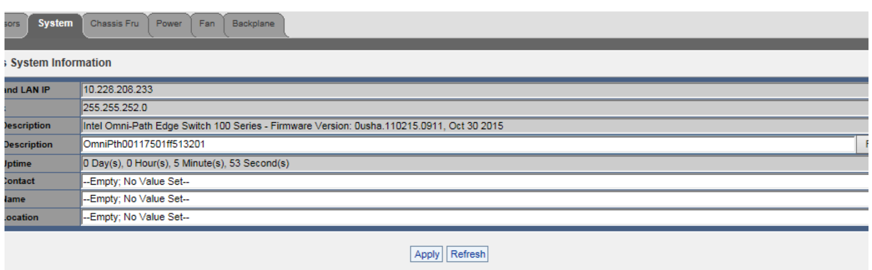
- **Reboot**
- **View FRU** [View Field Replaceable Unit (FRU) Information]
- **View Log**
- **Home** (Supermicro® OP Director Switch 100 Family only)
- **? / Help**

Chassis View Component Information Area

The **Chassis View Component Information Area** allows you to monitor important information for each specific hardware component, as well as important system information. The information area is comprised of two different fields:

- White fields allow you to add or modify applicable general and system information that is specific to your environment.
- Gray fields are tied to live data from the selected hardware component as well as live system information.

Figure 4: Chassis View Component Information Area



Modifying Switch Component Information

Use the following procedure to modify the fields for switch components:

1) Select the applicable tab: **LED and Sensors**, **System**, **Chassis FRU**, **Power**, **Fan**, or **Backplane**.

2) Click on the row to be modified.

3) In the text boxes, enter information for your network environment.

4) To save, click the **Apply** button at the bottom of the window.

Rebooting Switches

Rebooting the Supermicro SSH-C48Q Switch

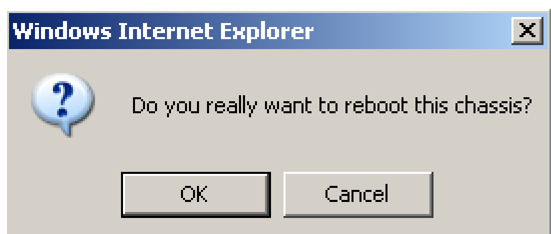
TASK

1. From the Chassis Details Header, click **Reboot**.

   STEP RESULT:

2. A confirmation window is displayed. Click **OK** to reboot.

   STEP RESULT:



The following rebooting status window is displayed.

Chassis View Component Information Area Tabs

The tabs along the top of the information area present information about the following components:

- LED and sensor information
- Overall system information
- Switch Field Replaceable Unit (FRU) Information
- Power supply information
- Fan information
- Switch backplane information

Table 1 provides details on all the tabs in the Chassis View Component Information Area.

Figure 5: Chassis View Component Information Area, Showing LEDs and Sensors Tab

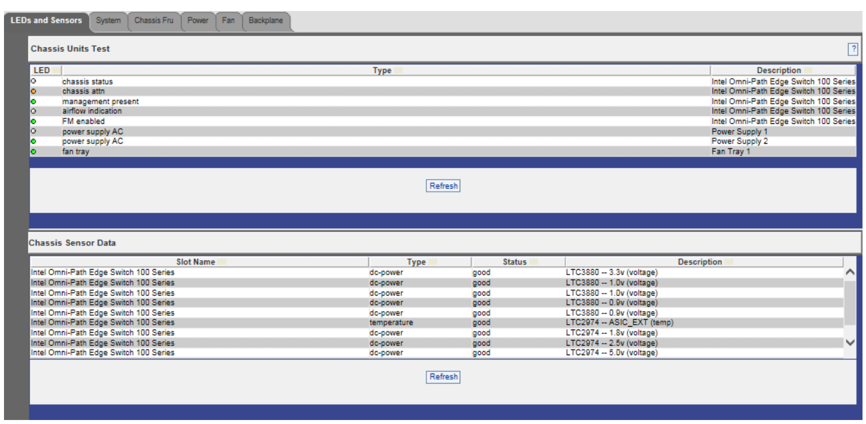


Table 1: Chassis View Tabs and Descriptions

Tab/Information	Description
LEDs and Sensors Tab	
Chassis Units Test	Displays switch component LED information for chassis status, fan, and power supplies. ***NOTE:*** *For a detailed explanation of physical LEDs on the hardware components, refer to the Supermicro SSH-C48Q Switch Installation Guide.*
Chassis Sensor Data	Slot-based temperature and AC-power sensor data for the internal switching complex.
System Tab	The **System** tab displays overall system information for the applicable switch chassis. This information includes the following items:
Out of Band LAN IP	The IP address of the switch. The IP address of the switch can be changed by the administrator.
Net Mask	The current net mask settings for the Chassis. The net mask of the chassis can be changed by the administrator.
System Description	A read-only textual description of the system.
IB Node Description	Assigned by the administrator, the node description is a fabric-applicable name that will be displayed within the Supermicro Fabric Chassis Viewer. To reset this field to the default setting, click the **Field Default** button. ***NOTE:*** *If this field has been changed since the last reboot of either management module, the next reboot will be treated as disruptive.*

Tab/Information	Description
System Uptime	The elapsed time since the master management module was re-initialized.
System Contact	The textual identification of the contact person and their contact information for this system, assigned by the administrator.
System Name	The name for the system, assigned by an administrator. One convention is to use the system's fully qualified domain name.
System Location	The location of the system, assigned by an administrator.
Apply Button	Saves any changes to memory.
Refresh Button	Refreshes all fields in the System tab.
Chassis FRU Tab	The **Chassis FRU** tab displays switch Field Replaceable Unit (FRU) information. This information includes the following items:
Type	The type of component.
Description	A description of the component, assigned by an administrator.
Alias Name	Name of the component, assigned by an administrator.
Serial Num	Component serial number

Tab/Information	Description
Detail	A button for each row that displays additional detail about the component. Additional details include: Part Number, Model, Version, Manufacturer Name, Product Name, Manufacturer Identification, and Manufactured Date (if available).
Apply Button	Saves any changes to memory.
Refresh Button	Refreshes all fields in the Chassis FRU tab.
Power Tab	The **Power** tab displays switch power supply information. This information includes the following items:
Description	A description of the component, assigned by an administrator.
Status	Displays the status of the component.
Part Num	Displays the part number of the component.
Detail	A button for each row that displays additional detail about the component. Additional details include: Description, Status, Part Number, Manufacturing Name, Product Name and Manufacturing ID.
Apply Button	Saves any changes made to memory.
Refresh Button	Refreshes all fields in the Power tab.
Fan Tab	The **Fan** tab displays switch fan information. For descriptions of the fields, see the Power Tab.

Tab/Information	Description
Backplane Tab	The **Backplane** tab displays switch backplane information. The Backplane details button includes the following information: • Description • Serial Number • Part Number • Model • Version • Manufacturing Name • Product Name • Manufacturing ID • Manufacturing Date Additionally, you can modify the **Description** field, adding information specific to your network environment.

Notes

Standardized Warning Statements

About Standardized Warning Statements

The following statements are industry standard warnings, provided to warn the user of situations which have the potential for bodily injury. Should you have questions or experience difficulty, contact Supermicro's Technical Support department for assistance. Only certified technicians should attempt to install or configure components.

Read this appendix in its entirety before installing or configuring components in the Supermicro chassis.

These warnings may also be found on our web site at http://www.supermicro.com/about/policies/safety_information.cfm.

Warning Definition

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.

警告の定義

この警告サインは危険を意味します。

人身事故につながる可能性がありますので、いずれの機器でも動作させる前に、

電気回路に含まれる危険性に注意して、標準的な事故防止策に精通して下さい。

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的声明号码找到此设备的安全性警告说明的翻译文本。

此警告符號代表危險。

您正處於可能身體可能會受損傷的工作環境中。在您使用任何設備之前，請注意觸電的危險，並且要熟悉預防事故發生的標準工作程序。請依照每一注意事項後的號碼找到相關的翻譯說明內容。

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.

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.

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.

תקנון הצהרות אזהרה

הצהרות הבאות הן אזהרות על פי תקני התעשייה, על מנת להזהיר את המשתמש מפני חבלה פיזית אפשרית. במידה ויש שאלות או היתקלות בבעיה כלשהי, יש ליצור קשר עם מחלקת תמיכה טכנית של סופרמיקרו. טכנאים מוסמכים בלבד רשאים להתקין או להגדיר את הרכיבים.

יש לקרוא את הנספח במלואו לפני התקנת או הגדרת הרכיבים במארזי סופרמיקרו.

تحذير! هذا الرمز يعني خطر انك في حالة يمكن أن تتسبب في اصابة جسدية .
قبل أن تعمل على أي معدات،كن على علم بالمخاطر الناجمة عن الدوائر
الكهربائية
وكن على دراية بالممارسات الوقائية لمنع وقوع أي حوادث
استخدم رقم البيان المنصوص في نهاية كل تحذير للعثور ترجمتها

안전을 위한 주의사항

경고 !

이 경고 기호는 위험이 있음을 알려 줍니다 . 작업자의 신체에 부상을 야기 할 수 있는 상태에 있게 됩니다 . 모든 장비에 대한 작업을 수행하기 전에 전기회로와 관련된 위험요소들을 확인하시고 사전에 사고를 방지할 수 있도록 표준 작업절차를 준수해 주시기 바랍니다 .

해당 번역문을 찾기 위해 각 경고의 마지막 부분에 제공된 경고문 번호를 참조하십시오

BELANGRIJKE VEILIGHEIDSINSTRUCTIES

Dit waarschuwings symbool 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 een elektrische installatie betrokken risico's en dient u op de hoogte te zijn van de standaard procedures om ongelukken te voorkomen. Gebruik de nummers aan het eind van elke waarschuwing om deze te herleiden naar de desbetreffende locatie.

BEWAAR DEZE INSTRUCTIES

Installation Instructions

Warning!

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

設置手順書

システムを電源に接続する前に、設置手順書をお読み下さい。

警告

将此系统连接电源前，请先阅读安装说明。

警告

將系統與電源連接前，請先閱讀安裝說明。

Warnung

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

¡Advertencia!

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

Attention

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

יש לקרוא את הוראות התקנה לפני חיבור המערכת למקור מתח.

اقر إرشادات التركيب قبل توصيل النظام إلى مصدر للطاقة

시스템을 전원에 연결하기 전에 설치 안내를 읽어주십시오.

Waarschuwing

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

Circuit Breaker

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, 20 A.

サーキット・ブレーカー

この製品は、短絡（過電流）保護装置がある建物での設置を前提としています。

保護装置の定格が 250 V、20 A を超えないことを確認下さい。

警告

此产品的短路（过载电流）保护由建筑物的供电系统提供，确保短路保护设备的额定电流不大于 250V,20A。

警告

此產品的短路（過載電流）保護由建築物的供電系統提供，確保短路保護設備的額定電流不大於 250V,20A。

Warnung

Dieses Produkt ist darauf angewiesen, dass im Gebäude ein Kurzschluss- bzw. Überstromschutz installiert ist. Stellen Sie sicher, dass der Nennwert der Schutzvorrichtung nicht mehr als: 250 V, 20 A beträgt.

¡Advertencia!

Este equipo utiliza el sistema de protección contra cortocircuitos (o sobrecorrientes) del edificio. Asegúrese de que el dispositivo de protección no sea superior a: 250 V, 20 A.

Attention

Pour ce qui est de la protection contre les courts-circuits (surtension), ce produit dépend de l'installation électrique du local. Vérifiez que le courant nominal du dispositif de protection n'est pas supérieur à :250 V, 20 A.

מוצר זה מסתמך על הגנה המותקנת במבנים למניעת קצר חשמלי. יש לוודא כי
המכשיר המגן מפני הקצר החשמלי הוא לא יותר מ-250 V, 20 A

هذا المنتج يعتمد على معدات الحماية من الدوائرالقصيرة التي تم تثبيتها في المبنى
تأكد من أن تقييم الجهاز الوقائي ليس أكثر من: 20A, 250V

경고 !

이 제품은 전원의 단락 (과전류) 방지에 대해서 전적으로 건물의 관련 설비에 의존합니다 . 보호장치의 정격이 반드시 250V(볼트), 20A(암페어) 를 초과하지 않도록 해야 합니다 .

Waarschuwing

Dit product is afhankelijk van de kortsluitbeveiliging (overspanning) van uw electrische installatie. Controleer of het beveiligde aparaat niet groter gedimensioneerd is dan 220V, 20A.

Power Disconnection Warning

Warning!

The system must be disconnected from all sources of power and the power cord removed from the power supply module(s) before accessing the chassis interior to install or remove system components.

電源切断の警告

システムコンポーネントの取り付けまたは取り外しのために、シャーシー内部にアクセスするには、

システムの電源はすべてのソースから切断され、電源コードは電源モジュールから取り外す必要があります。

警告

在你打开机箱并安装或移除内部器件前，必须将系统完全断电，并移除电源线。

警告

在您打開機殼安裝或移除內部元件前，必須將系統完全斷電，並移除電源線。

Warnung

Das System muss von allen Quellen der Energie und vom Netzanschlusskabel getrennt sein, das von den Spg.Versorgungsteilmodulen entfernt wird, bevor es auf den Chassisinnenraum zurückgreift, um Systemsbestandteile anzubringen oder zu entfernen.

¡Advertencia!

El sistema debe ser disconnected de todas las fuentes de energía y del cable eléctrico quitado de los módulos de fuente de alimentación antes de tener acceso el interior del chasis para instalar o para quitar componentes de sistema.

Attention

Le système doit être débranché de toutes les sources de puissance ainsi que de son cordon d'alimentation secteur avant d'accéder à l'intérieur du chassis pour installer ou enlever des composants de systéme.

אזהרה מפני ניתוק חשמלי

אזהרה!
יש לנתק את המערכת מכל מקורות החשמל ויש להסיר את כבל החשמלי מהספק
לפני גישה לחלק הפנימי של המארז לצורך התקנת או הסרת רכיבים.

يجب فصل النظام من جميع مصادر الطاقة وإزالة سلك الكهرباء من وحدة امداد
الطاقة قبل
الوصول إلى المناطق الداخلية للهيكل لتثبيت أو إزالة مكونات الجهاز

경고!

시스템에 부품들을 장착하거나 제거하기 위해서는 섀시 내부에 접근하기 전에 반드시 전원 공급장치로부터 연결되어있는 모든 전원과 전기코드를 분리해주어야 합니다.

Waarschuwing

Voordat u toegang neemt tot het binnenwerk van de behuizing voor het installeren of verwijderen van systeem onderdelen, dient u alle spanningsbronnen en alle stroomkabels aangesloten op de voeding(en) van de behuizing te verwijderen.

Equipment Installation

Warning!

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

機器の設置

トレーニングを受け認定された人だけがこの装置の設置、交換、またはサービスを許可されています。

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

只有經過受訓且具資格人員才可安裝、更換與維修此設備。

Warnung

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

¡Advertencia!

Solamente el personal calificado debe instalar, reemplazar o utilizar este equipo.

Attention

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

אזהרה !
צוות מוסמך בלבד רשאי להתקין, להחליף את הציוד או לתת שירות עבור הציוד.

يجب أن يسمح فقط للموظفين المؤهلين والمدربين لتركيب واستبدال أو خدمة هذا الجهاز

경고 !

훈련을 받고 공인된 기술자만이 이 장비의 설치 , 교체 또는 서비스를 수행할 수 있습니다 .

Waarschuwing

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

Restricted Area

Warning!

This unit is intended for installation in restricted access areas. A restricted access area can be accessed only through the use of a special tool, lock and key, or other means of security. (This warning does not apply to workstations).

アクセス制限区域

このユニットは、アクセス制限区域に設置されることを想定しています。

アクセス制限区域は、特別なツール、鍵と錠前、その他のセキュリティの手段を用いてのみ出入りが可能です。

警告

此部件应安装在限制进出的场所，限制进出的场所指只能通过使用特殊工具、锁和钥匙或其它安全手段进出的场所。

警告

此裝置僅限安裝於進出管制區域，進出管制區域係指僅能以特殊工具、鎖頭及鑰匙或其他安全方式才能進入的區域。

Warnung

Diese Einheit ist zur Installation in Bereichen mit beschränktem Zutritt vorgesehen. Der Zutritt zu derartigen Bereichen ist nur mit einem Spezialwerkzeug, Schloss und Schlüssel oder einer sonstigen Sicherheitsvorkehrung möglich.

¡Advertencia!

Esta unidad ha sido diseñada para instalación en áreas de acceso restringido. Sólo puede obtenerse acceso a una de estas áreas mediante la utilización de una herramienta especial, cerradura con llave u otro medio de seguridad.

Attention

Cet appareil doit être installée dans des zones d'accès réservés. L'accès à une zone d'accès réservé n'est possible qu'en utilisant un outil spécial, un mécanisme de verrouillage et une clé, ou tout autre moyen de sécurité.

אזור עם גישה מוגבלת

!אזהרה

יש להתקין את היחידה באזורים שיש בהם הגבלת גישה. הגישה ניתנת בעזרת כלי אבטחה בלבד (מפתח, מנעול וכד׳).

تم تخصيص هذه الوحدة لتركيبها في مناطق محظورة .
يمكن الوصول إلى منطقة محظورة فقط من خلال استخدام أداة خاصة،
قفل ومفتاح أو أي وسيلة أخرى للألمان

경고 !

이 장치는 접근이 제한된 구역에 설치하도록 되어있습니다 . 특수도구 , 잠금 장치 및 키 , 또는 기타 보안 수단을 통해서만 접근 제한 구역에 들어갈 수 있습니다 .

Waarschuwing

Dit apparaat is bedoeld voor installatie in gebieden met een beperkte toegang. Toegang tot dergelijke gebieden kunnen alleen verkregen worden door gebruik te maken van speciaal gereedschap, slot en sleutel of andere veiligheidsmaatregelen.

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.

電池の取り扱い

電池交換が正しく行われなかった場合、破裂の危険性があります。交換する電池はメーカーが推奨する型、または同等のものを使用下さい。使用済電池は製造元の指示に従って処分して下さい。

警告

电池更换不当会有爆炸危险。请只使用同类电池或制造商推荐的功能相当的电池更换原有电池。请按制造商的说明处理废旧电池。

警告

電池更換不當會有爆炸危險。請使用製造商建議之相同或功能相當的電池更換原有電池。請按照製造商的說明指示處理廢棄舊電池。

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.

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.

¡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.

אזהרה !

קיימת סכנת פיצוץ של הסוללה במידה והוחלפה בדרך לא תקינה. יש להחליף את הסוללה בסוג התואם מחברת יצרן מומלצת.

סילוק הסוללות המשומשות יש לבצע לפי הוראות היצרן.

هناك خطر من انفجار في حالة استبدال البطارية بطريقة غير صحيحة فعليك
استبدال البطارية
فقط بنفس النوع أو ما يعادلها كما أوصت به الشركة المصنعة
تخلص من البطاريات المستعملة وفقا لتعليمات الشركة الصانعة

경고 !

배터리가 올바르게 교체되지 않으면 폭발의 위험이 있습니다 . 기존 배터리와 동일하거나 제조사에서 권장하는 동등한 종류의 배터리로만 교체해야 합니다 . 제조사의 안내에 따라 사용된 배터리를 처리하여 주십시오 .

Waarschuwing

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

Redundant Power Supplies

Warning!

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

冗長電源装置

このユニットは複数の電源装置が接続されている場合があります。

ユニットの電源を切るためには、すべての接続を取り外さなければなりません。

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

此裝置連接的電源可能不只一個，必須切斷所有電源才能停止對該裝置的供電。

Warnung

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

¡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.

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.

אם קיים יותר מספק אחד

אזהרה !

ליחדה יש יותר מחיבור אחד של ספק. יש להסיר את כל החיבורים על מנת לרוקן את היחידה.

قد يكون لهذا الجهاز عدة اتصالات بوحدات امداد الطاقة.
يجب إزالة كافة الاتصالات لعزل الوحدة عن الكهرباء

경고 !

이 장치에는 한 개 이상의 전원 공급 단자가 연결되어 있을 수 있습니다 . 이 장치에 전원을 차단하기 위해서는 모든 연결 단자를 제거해야만 합니다 .

Waarschuwing

Deze eenheid kan meer dan één stroomtoevoeraansluiting bevatten. Alle aansluitingen dienen verwijderd te worden om het apparaat stroomloos te maken

Backplane Voltage

Warning!

Hazardous voltage or energy is present on the backplane when the system is operating. Use caution when servicing.

バックプレーンの電圧

システムの稼働中は危険な電圧または電力が、バックプレーン上にかかっています。

修理する際には注意ください。

警告

当系统正在进行时，背板上有很危险的电压或能量，进行维修时务必小心。

警告

當系統正在進行時，背板上有危險的電壓或能量，進行維修時務必小心。

Warnung

Wenn das System in Betrieb ist, treten auf der Rückwandplatine gefährliche Spannungen oder Energien auf. Vorsicht bei der Wartung.

¡Advertencia!

Cuando el sistema está en funcionamiento, el voltaje del plano trasero es peligroso. Tenga cuidado cuando lo revise.

Attention

Lorsque le système est en fonctionnement, des tensions électriques circulent sur le fond de panier. Prendre des précautions lors de la maintenance.

מתח בפנל האחורי

!אזהרה

קיימת סכנת מתח בפנל האחורי בזמן תפעול המערכת. יש להיזהר במהלך העבודה.

هناك خطر من التيار الكهربائي أوالطاقة الموجودة على اللوحة
عندما يكون النظام يعمل كن حذرا عند خدمة هذا الجهاز

경고 !

시스템이 동작 중일 때 후면판 (Backplane) 에는 위험한 전압이나 에너지가 발생 합니다 . 서비스 작업 시 주의하십시오 .

Waarschuwing

Een gevaarlijke spanning of energie is aanwezig op de backplane wanneer het systeem in gebruik is. Voorzichtigheid is geboden tijdens het onderhoud.

Comply with Local and National Electrical Codes

Warning!

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

地方および国の電気規格に準拠

機器の取り付けはその地方および国の電気規格に準拠する必要があります。

警告

设备安装必须符合本地与本国电气法规。

警告

設備安裝必須符合本地與本國電氣法規。

Warnung

Die Installation der Geräte muss den Sicherheitsstandards entsprechen.

¡Advertencia!

La instalacion del equipo debe cumplir con las normas de electricidad locales y nacionales.

Attention

L'équipement doit être installé conformément aux normes électriques nationales et locales.

תיאום חוקי החשמל הארצי

! אזהרה

התקנת הציוד חייבת להיות תואמת לחוקי החשמל המקומיים והארציים.

تركيب المعدات الكهربائية يجب أن يمتثل للقوانين المحلية والوطنية المتعلقة بالكهرباء

경고!

현 지역 및 국가의 전기 규정에 따라 장비를 설치해야 합니다.

Waarschuwing

Bij installatie van de apparatuur moet worden voldaan aan de lokale en nationale elektriciteitsvoorschriften.

Product Disposal

Warning!

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

製品の廃棄

この製品を廃棄処分する場合、国の関係する全ての法律・条例に従い処理する必要があります。

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
本產品的廢棄處理應根據所有國家的法律和規章進行。

Warnung

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

¡Advertencia!

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

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.

סילוק המוצר

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

عند التخلص النهائي من هذا المنتج ينبغي التعامل معه وفقا لجميع القوانين واللوائح الوطنية

경고!

이 제품은 해당 국가의 관련 법규 및 규정에 따라 폐기되어야 합니다.

Waarschuwing

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

Hot Swap Fan Warning

Warning!

The fans might still be turning when you remove the fan assembly from the chassis. Keep fingers, screwdrivers, and other objects away from the openings in the fan assembly's housing.

ファン・ホットスワップの警告

シャーシから冷却ファン装置を取り外した際、ファンがまだ回転している可能性があります。ファンの開口部に、指、ドライバー、およびその他のものを近づけないで下さい。

警告

当您从机架移除风扇装置，风扇可能仍在转动。小心不要将手指、螺丝起子和其他物品太靠近风扇

警告

當您從機架移除風扇裝置，風扇可能仍在轉動。小心不要將手指、螺絲起子和其他物品太靠近風扇。

Warnung

Die Lüfter drehen sich u. U. noch, wenn die Lüfterbaugruppe aus dem Chassis genommen wird. Halten Sie Finger, Schraubendreher und andere Gegenstände von den Öffnungen des Lüftergehäuses entfernt.

¡Advertencia!

Los ventiladores podran dar vuelta cuando usted quite ell montaje del ventilador del chasis. Mandtenga los dedos, los destornilladores y todos los objetos lejos de las aberturas del ventilador

Attention

Il est possible que les ventilateurs soient toujours en rotation lorsque vous retirerez le bloc ventilateur du châssis. Prenez garde à ce que doigts, tournevis et autres objets soient éloignés du logement du bloc ventilateur.

! אזהרה

כאשר מסירים את חלקי המאוורר מהמארז, יתכן והמאווררים עדיין עובדים. יש להרחיק למרחק בטוח את האצבעות וכלי עבודה שונים מהפתחים בתוך המאוורר

من الممكن أن المراوح لا تزال تدورعند إزالة كتلة المروحة من الهيكل يجب إبقاء الأصابع ومفكات البراغي
وغيرها من الأشياء بعيدا عن الفتحات في كتلة المروحة.

경고 !

새시로부터 팬 조립품을 제거할 때 팬은 여전히 회전하고 있을 수 있습니다 . 팬 조립품 외관의 열려있는 부분들로부터 손가락 및 스크류드라이버 , 다른 물체들이 가까이 하지 않도록 배치해 주십시오 .

Waarschuwing

Het is mogelijk dat de ventilator nog draait tijdens het verwijderen van het ventilatorsamenstel uit het chassis. Houd uw vingers, schroevendraaiers en eventuele andere voorwerpen uit de buurt van de openingen in de ventilatorbehuizing.

Power Cable and AC Adapter

Warning!

When installing the product, use the provided or designated connection cables, power cables and AC adapters. Using any other cables and adapters could cause a malfunction or a fire. Electrical Appliance and Material Safety Law prohibits the use of UL or CSA -certified cables (that have UL/CSA shown on the code) for any other electrical devices than products designated by Supermicro only.

電源コードと AC アダプター

製品を設置する場合、提供または指定された接続ケーブル、電源コードと AC アダプターを使用下さい。他のケーブルやアダプタを使用すると故障や火災の原因になることがあります。電気用品安全法は、UL または CSA 認定のケーブル (UL/CSE マークがコードに表記) を Supermicro が指定する製品以外に使用することを禁止しています。

警告

安装此产品时,请使用本身提供的或指定的连接线,电源线和电源适配器.使用其它线材或适配器可能会引起故障或火灾。除了 Supermicro 所指定的产品，电气用品和材料安全法律规定禁止使用未经 UL 或 CSA 认证的线材。(线材上会显示 UL/CSA 符号)。

警告

安裝此產品時，請使用本身提供的或指定的連接線，電源線和電源適配器．使用其它線材或適配器可能會引起故障或火災。除了 Supermicro 所指定的產品，電氣用品和材料安全法律規定禁止使用未經 UL 或 CSA 認證的線材。(線材上會顯示 UL/CSA 符號)。

Warnung

Bei der Installation des Produkts, die zur Verfügung gestellten oder benannt Anschlusskabel, Stromkabel und Netzteile. Verwendung anderer Kabel und Adapter kann zu einer Fehlfunktion oder ein Brand entstehen. Elektrische Geräte und Material Safety Law verbietet die Verwendung von UL-oder CSA-zertifizierte Kabel, UL oder CSA auf der Code für alle anderen elektrischen Geräte als Produkte von Supermicro nur bezeichnet gezeigt haben.

¡Advertencia!

Al instalar el producto, utilice los cables de conexión previstos o designados, los cables y adaptadores de CA. La utilización de otros cables y adaptadores podría ocasionar un mal funcionamiento o un incendio. Aparatos Eléctricos y la Ley de Seguridad del Material prohíbe el uso de UL o CSA cables certificados que tienen UL o CSA se muestra en el código de otros dispositivos eléctricos que los productos designados por Supermicro solamente.

Attention

Lors de l'installation du produit, utilisez les bables de connection fournis ou désigné. L'utilisation d'autres cables et adaptateurs peut provoquer un dysfonctionnement ou un incendie. Appareils électroménagers et de loi sur la sécurité Matériel interdit l'utilisation de UL ou CSA câbles certifiés qui ont UL ou CSA indiqué sur le code pour tous les autres appareils électriques que les produits désignés par Supermicro seulement.

חשמליים ומתאמי AC

אזהרה !
כאשר מתקינים את המוצר, יש להשתמש בכבלים, ספקים ומתאמים AC אשר נועדו וסופקו לשם כך. שימוש בכל כבל או מתאם אחר יכול לגרום לתקלה או קצר חשמלי. על פי חוקי שימוש במכשירי חשמל וחוקי בטיחות, קיים איסור להשתמש בכבלים המוסמכים ב- UL או ב- CSA (כשאר מופיע עליהם קוד של UL/CSA) עבור כל מוצר חשמלי אחר שלא צוין על ידי סופרקמיקרו בלבד.

عند تركيب الجهاز يجب استخدام كابلات التوصيل،والكابلات الكهربائية ومحولات التيار المتردد
التي . أن استخدام أي كابلات ومحولات أخرى يتسبب في حدوث عطل أو حريق.
تم توفيرها لك مع المنتج
الأجهزة الكهربائية ومواد قانون السلامة يحظر استخدام الكابلات CSA أو UL معتمدة من قبل
لأي أجهزة كهربائية أخرى غير المنتجات المعينة من قبل Supermicro
(التي تحمل علامة UL/CSA)

경고!

제품을 설치할 때에는 제공되거나 지정된 연결케이블과 전원케이블, AC어댑터를 사용해야 합니다. 그 밖의 다른 케이블들이나 어댑터들은 고장 또는 화재의 원인이 될 수 있습니다. 전기용품안전법 (Electrical Appliance and Material Safety Law)은 슈퍼마이크로에서 지정한 제품들 외에는 그 밖의 다른 전기 장치들을 위한 UL또는 CSA에서 인증한 케이블(전선 위에 UL/CSA가 표시)들의 사용을 금지합니다.

Waarschuwing

Bij het installeren van het product, gebruik de meegeleverde of aangewezen kabels, stroomkabels en adapters. Het gebruik van andere kabels en adapters kan leiden tot een storing of een brand. Elektrisch apparaat en veiligheidsinformatiebladen wet verbiedt het gebruik van UL of CSA gecertificeerde kabels die UL of CSA die op de code voor andere elektrische apparaten dan de producten die door Supermicro alleen.

Notes

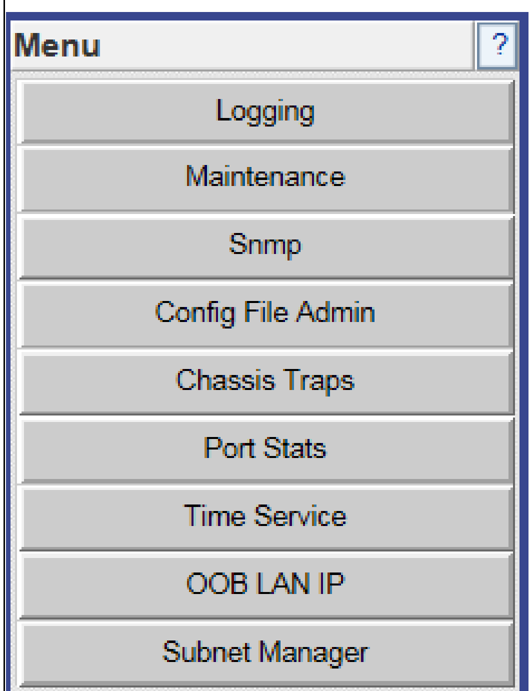
Configuration and Monitoring

This section provides detailed, task-oriented descriptions for using the Chassis Viewer for configuration and monitoring.

Chassis View Menu

The Chassis View Menu contains the options shown in the following table.

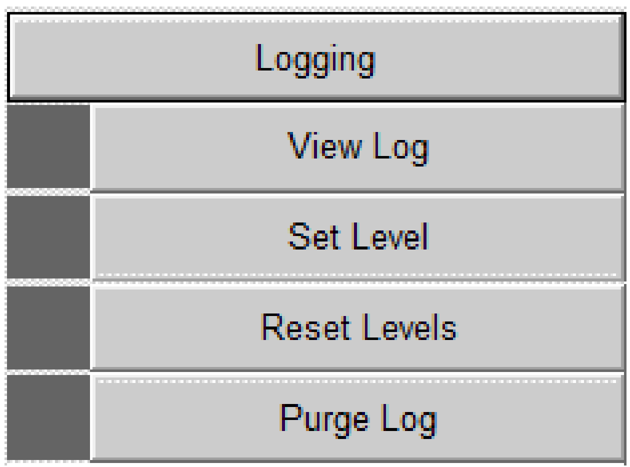
Table 1: Chassis View Menu Options

Menu Image	Description
	Logging Maintenance SNMP Configuration File Administration Chassis Traps Port Statistics Time Service OOB LAN IP Menu Subnet Manager Control

Logging

The Logging submenu allows you to view and purge the log message file.

Figure 1: Logging Submenu



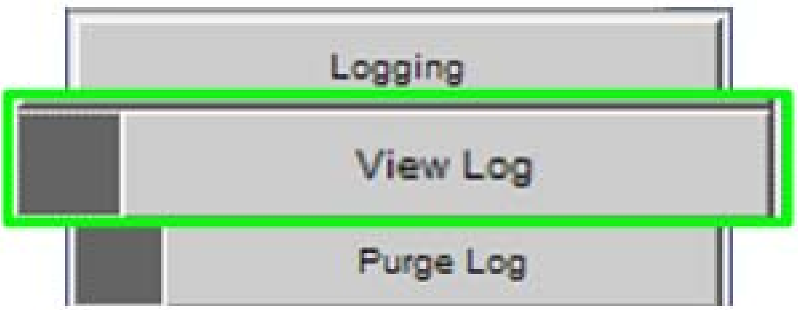
Viewing the Log

Each management module maintains a separate log. The **View Log** button allows you to view the message log.

To view the message log:

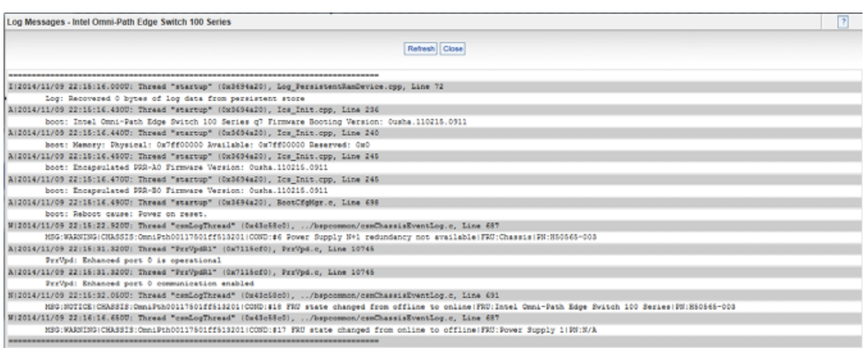
1) From the menu, select **Logging.**

The **View Log** button is displayed.



2) Click **View Log**.

The **Log Message** window is displayed.



To save a log message for further analysis, perform the following steps:

1) From the **Log Messages** window, select **Edit**, **Select All** (or **CTRL + A**).

2) Select **Edit**, **Copy** (or **CTRL + C**).

3) Open a text editing package, such as Notepad.

4) Select **Edit**, **Paste** (or **CTRL + V**).

5) Save as a plain text (`.txt`) file.

Set Level

To efficiently set up log filtering, enable only those levels that need to appear in the log. The levels are handled by two layers:

- Preset Layer. This layer allows you to select the levels of messages the switch will generate. If the level is selected here, it could be logged into Ram Device or the Syslog Device. Any unselected levels will not be logged to any device.

- Device Levels. This allows you to select the levels of log messages to be saved.

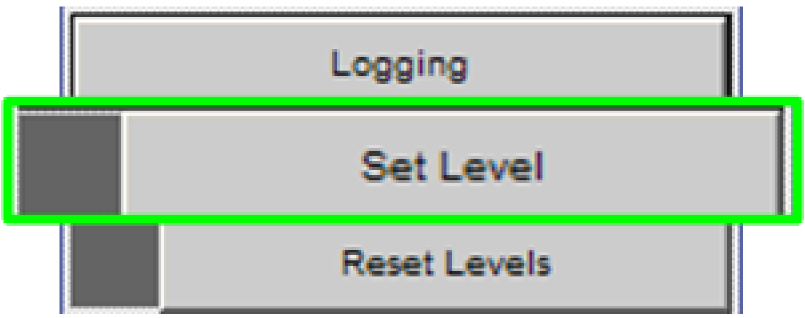
NOTE: *To save log message levels, select the log level in the Device tab and Preset tab.*

The Set Level button allows you to set log level configuration parameters for all software modules.

To set log levels:

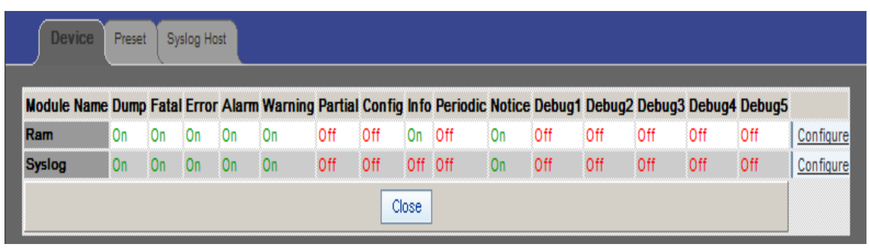
1) From the menu, select **Logging.**

The **Set Level** button is displayed.



2) Click **Set Level**.

3) The **Log System Configurator** window (**Device** tab) is displayed.

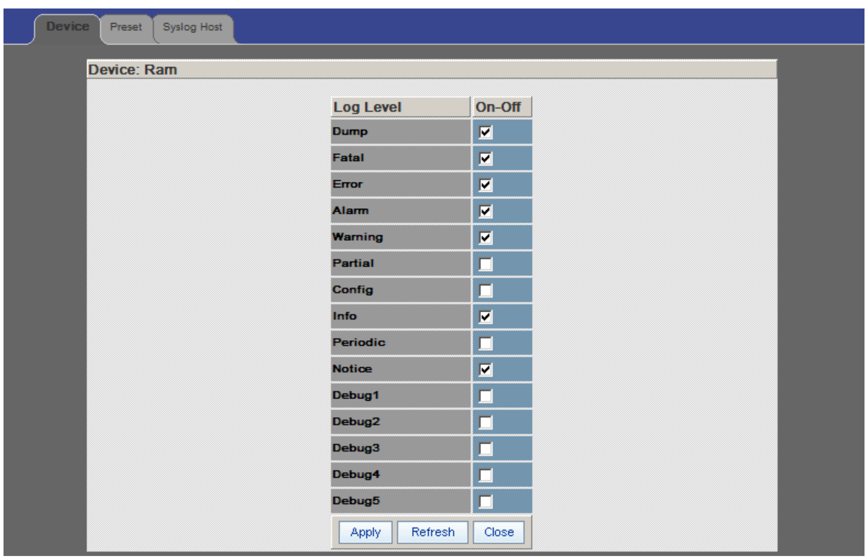


Device Tab

The **Device** tab presents current log level configuration settings for the following software modules:

- **RAM** – The circular log buffer contained in memory. To access the contents of this buffer, use the Chassis Viewer**View Log** button.
- **Syslog** – Messages that are sent to the syslog host specified on the Syslog tab.

From this window, you can change any of the log level settings for a specific software module by clicking on the **Configure** button, which displays a configuration window:



To change any Log Level settings:

1) Click the **On-Off** check box to the right of the setting.

2) Click the **Apply** button to save any changes.

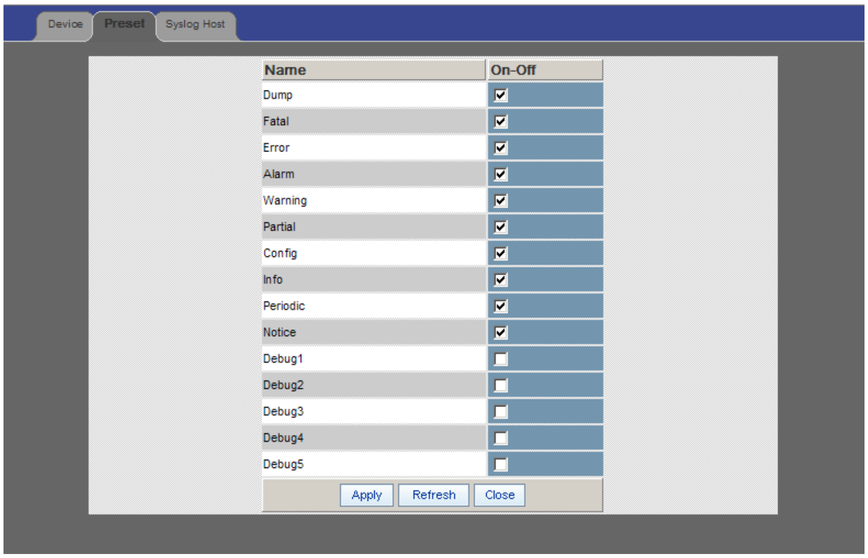
The following list describes each of the Log Level configuration parameters.

- **DUMP** – Indicates that a problem has caused the system to produce a system dump file. Supermicro recommends that you retrieve the dump that was produced. Support engineers may require the information contained in the dump file to diagnose the cause of the problem.
- **FATAL** – Indicates that a non-recoverable system problem has occurred. You should reboot the system or component and verify that the subsystem is fully functional to determine whether the fault has been corrected. If the problem persists, you should contact the supplier.
- **ERROR** – Indicates that a serious system error has occurred which might be recoverable. If the system exhibits any instability, you should reboot the system or component. If errors persist, you should immediately contact the supplier's technical support.
- **ALARM** – Indicates that a serious problem has occurred which degrades capacity or service. If the error is recoverable, you should correct the failure. If the alarm/failure persists, you should reboot the system at a convenient time. If the problem is still not cleared, you should contact the supplier.
- **WARNING** – Indicates that a recoverable problem has occurred. You do not need to take action.
- **PARTIAL** – When more information is available, Partial causes additional message-related details to be displayed.

- **CONFIGURATION** – An informational message indicating changes that a user has made to the system configuration. You do not need to take any action.
- **INFO** – Informational messages that occur during a system or component boot. You do not need to take any action.
- **PERIODIC** – An informational message containing periodic statistics. You do not need to take action.
- **NOTICE** – Notice is used for failures that could be a result of “frequent” user actions, such as a server reboot.

Preset Tab

The **Preset** tab allows you to quickly change log level settings for all software modules on the switch.



To change the log level settings:

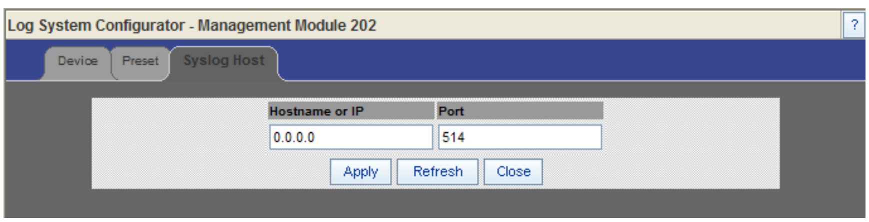
1) Click the **On-Off** check box to the right of the setting(s).

2) Click the **Apply** button to save any changes.

Syslog Host Tab

The **Syslog Host** tab allows you to configure logging messages to be sent to a syslog host through an IP address or domain name server (DNS) host name.

NOTE: *The switch only saves the in-memory log when it is able to gracefully shutdown and restore the log from the persistent state when it boots. Power cycling the switch, removing or resetting the management card, or any hardware failure that causes an ASYNC reboot does* ***not*** *persistently save the in-memory log. To avoid losing log information in the event of a hardware failure, follow the instructions in Configure Syslog on the Syslog Server.*



To set up the syslog host:

1) In the **Hostname or IP** text box, enter either the host name or IP address of the syslog host where the log files are to be saved.

   NOTE: *If the Host IP address is 0.0.0.0, no syslog host is configured.*

2) Click the **Apply** button to save the IP address.

Configure Syslog on the Syslog Server

To avoid losing log information in the event of a hardware failure, Supermicro recommends that you configure a syslog server as described in this section.

NOTE: ***T****o centralize logging for all switches in a fabric, you can configure each switch to point to the same syslog server, which has the syslog daemon (`syslogd`) running.*

TASK

1. Edit the */etc/sysconfig/syslog* file and ensure that the `-r` option is included in `SYSLOGD_OPTIONS`. This allows logging from a remote system.

   STEP RESULT: SYSLOGD_OPTIONS="-r -m 0"

2. Type `/etc/init.d/syslog restart`, and press **Enter**.

Reset Log Levels

The **Reset Levels** button resets the logging levels to their factory default values.

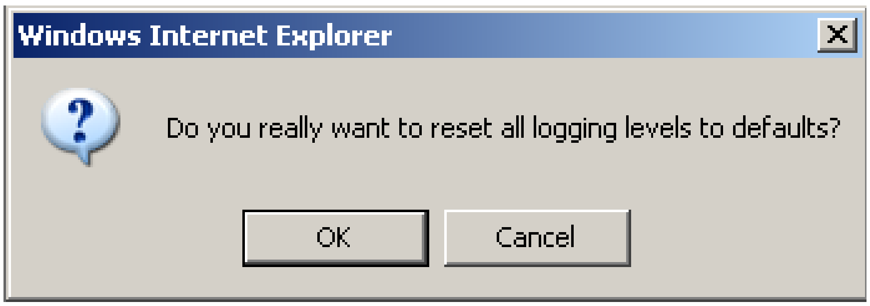
To reset the logging levels:

1) From the menu, select **Logging.**

   The **Reset Levels** button is displayed.

2) Click **Reset Levels**.

The **Reset Levels** window is displayed.



3) To reset the logging levels, click **OK**.

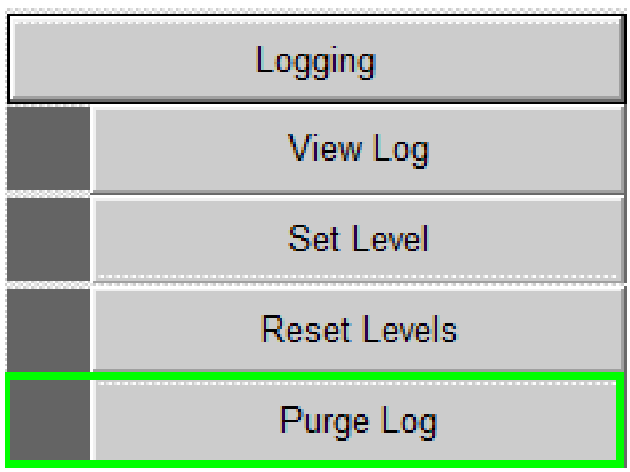
Purging the Log

The **Purge Log** button purges the RAM, clearing the log file(s).

To purge the log:

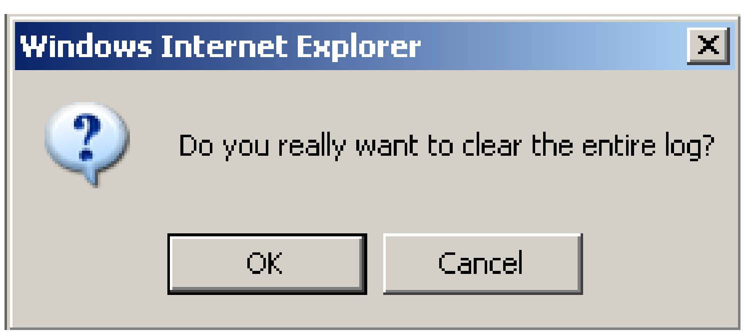
1) From the menu, click **Logging**.

   The **Purge Log** button is displayed.



2) Click **Purge Log**.

3) The **Purge Log** confirmation window is displayed.



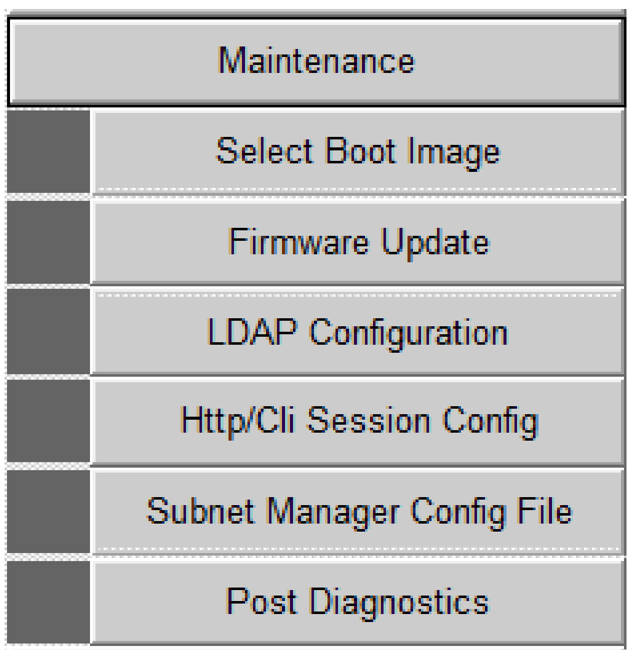
4) Click **OK**.

5) The message log file is now purged.

Maintenance

The **Maintenance** menu allows you to select an alternate firmware file for the switch, reboot the switch, set and configure authentications for the switch, and set HTTP and CLI session time out parameters, as well as set security requirements for the switch.

Figure 2: Maintenance Menu



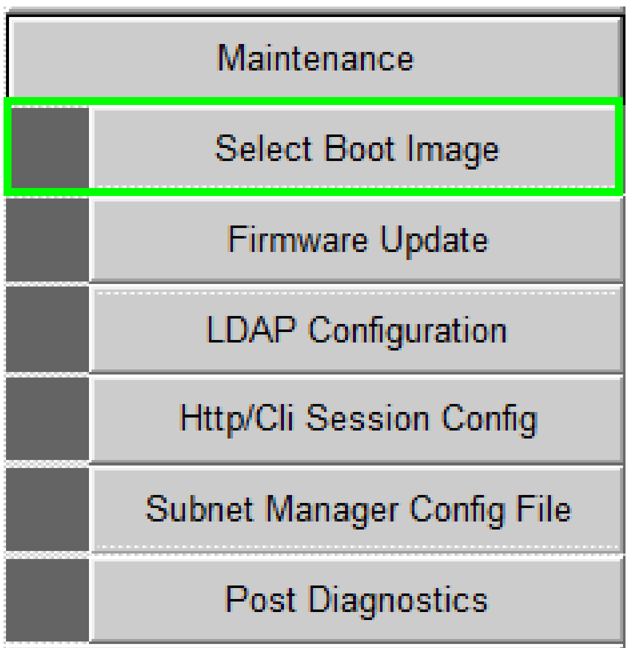
***Note:** For rebooting information, see Rebooting Switches.*

Select Boot Image

The **Select Boot Image** button allows you to choose an alternative boot image for the switch. To select a boot image:

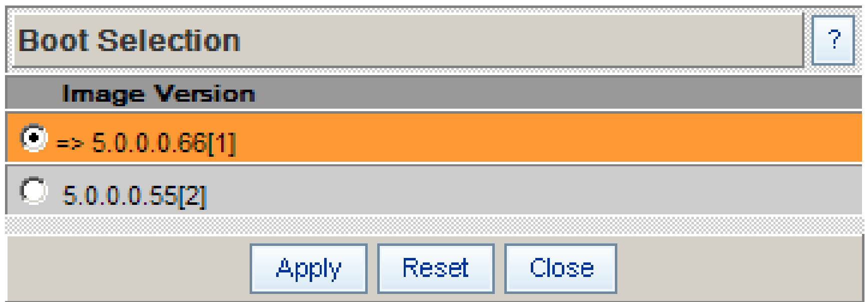
1) From the menu, select **Maintenance**.

The **Select Boot Image** button is displayed.

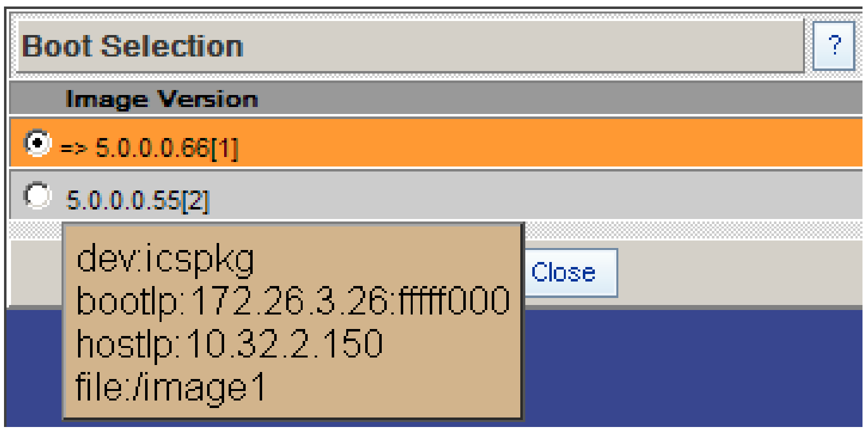


2) Click **Select Boot Image**.

The **Boot Image Selection** window is displayed.



You can view additional information about each file by mousing over either radio button in the **Boot Selection** window.



To choose a new boot image:

1) Click on a radio button of the new boot image.

2) Click **Apply**.

The image selected runs after the next reboot.

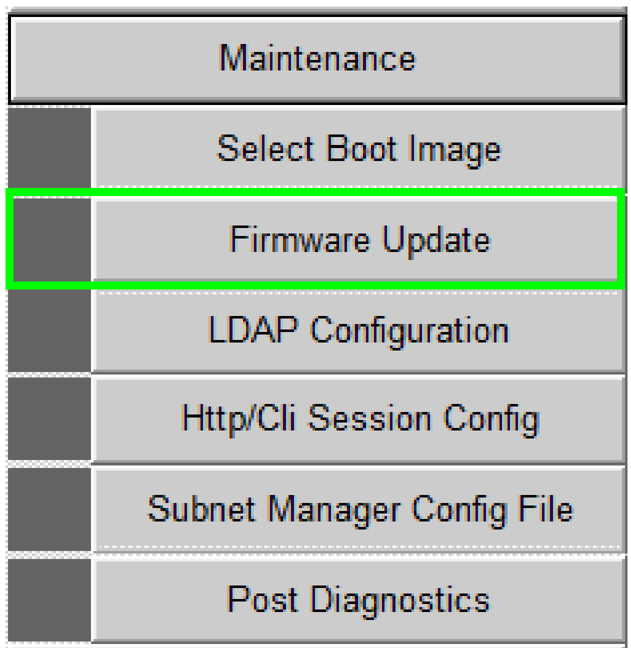
Firmware Update

The **Firmware Update** button allows you to select an alternate firmware file for the switch. These alternate files are reflected in the drop-down lists in the **Firmware Update** window.

To download firmware:

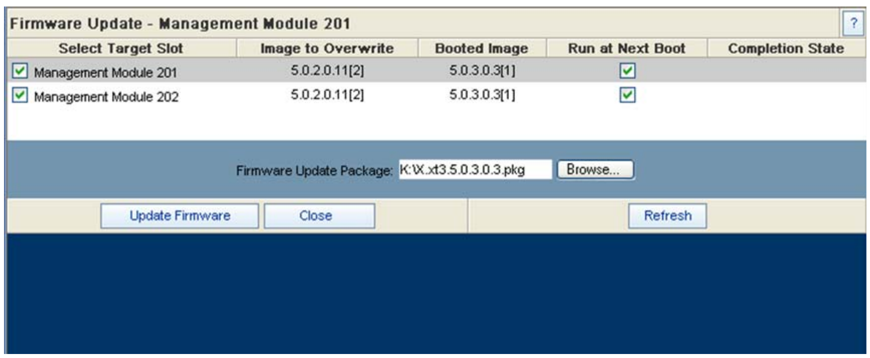
1) From the menu, select **Maintenance**.

   The **Firmware Update** button is displayed.



2) Click **Firmware Update**.

The **Firmware Update** window is displayed.



3) In the **Select Target Slot** column, select the hardware component to change its firmware.

NOTE: If there are multiple modules of the same type, you can select all slots that apply.

4) In the **Firmware Update Package:** text box, use the **Browse...** button to locate the path to the alternate firmware file.

*NOTE: Before using the **Browse...** button, make certain that the browser is tied to an FTP server where the firmware files reside (that is, if the firmware file does not reside on the local computer).*

5) To have the new image become active after the next reboot, make certain that the box(es) in the **Boot?** column are checked.

6) Click the **Update Firmware**button.

LDAP Configuration

The lightweight directory access protocol (LDAP) configuration feature allows you to set and configure authentication for the switch. The LDAP service resides on a server that has access to a usercode and password database.

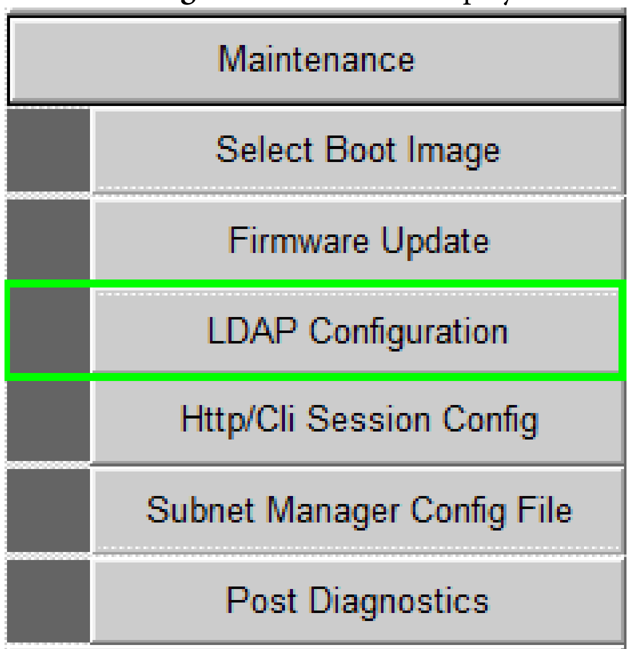
When a user attempts to login to either the Chassis Viewer GUI or the CLI, the LDAP client intercepts the login attempt and rather than authenticating internally, encrypts and packages the information in an LDAP packet and sends it to a pre-configured LDAP server over TCP/IP (i.e., the out-of-band LAN). The LDAP server receives the request, passes it on to the authentication services, and responds to the client with a yes or no, either allowing or denying the user access.

When LDAP is disabled, internal authentication becomes the default.

To set up LDAP authentication:

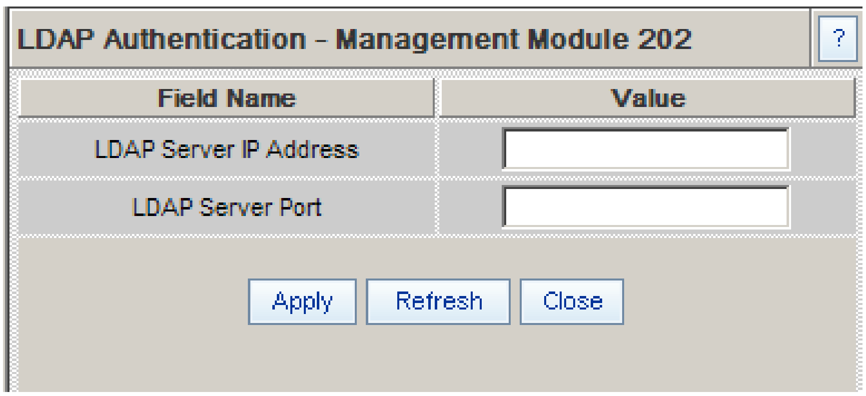
1) From the menu, select **Maintenance**.

The **LDAP Configuration** button is displayed.



2) Click **LDAP Configuration**.

The **LDAP Authentication** window is displayed.



3) In the **LDAP Server IP Address** box, enter the address of the applicable LDAP server.

4) In the **LDAP Server Port** box, enter the applicable server port number (the default is 389).

5) Click **Apply**.

HTTP/CLI Session Configuration

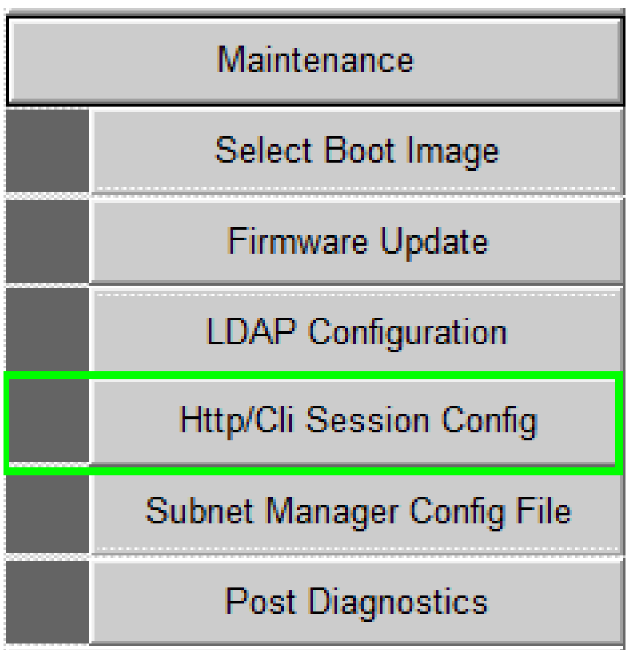
The hyper text transfer protocol (HTTP) and command line interface (CLI) session configuration feature allows you to set HTTP and CLI session time out parameters, as well as set security requirements for the switch.

The session time out duration is the length of time that a session remains active if there is no GUI activity. If a session is inactive for a time exceeding the time out duration, you are logged out.

To modify the HTTP and CLI configurations:

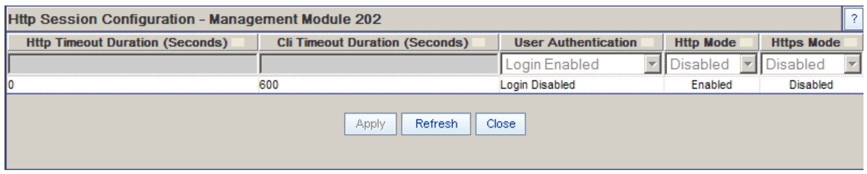
1) From the menu, select **Maintenance**.

The **HTTP/CLI Session Config** button is displayed.



2) Click **HTTP/CLI Session Config**.

The **HTTP/CLI Session Configuration** window is displayed.

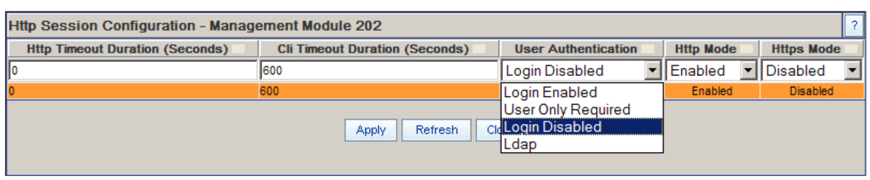


3) To modify the session time out duration (in seconds), click on the existing configuration. The row changes to orange.

4) In the **HTTP Timeout Duration** field, enter the new timeout duration, in seconds. The default is 0 seconds (no timeout).

5) In the **CLI Timeout Duration** field, enter the new timeout duration, in seconds. The default is 600 seconds.

6) To change the **User Authentication** parameter, click on the **User Authentication** list.

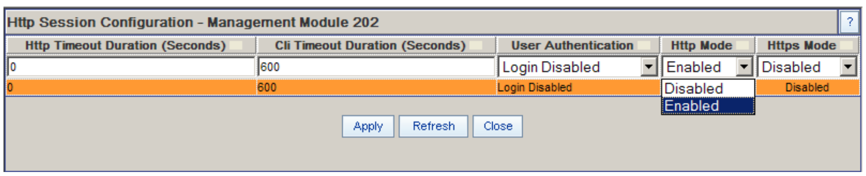


7) Select the preferred user authentication method.

- **Login Enabled** - Username and Password must be entered, and must match what is in the database of the local switch.
- **User Only Required** - According to the local switch database, a valid username must be entered. A password is not required.

- **Login Disabled** - Does not require username or password.
- **LDAP** - Use an LDAP server. If the user name/password validation fails to complete successfully, check the database of the local switch.

8) To change the **HTTP Mode** parameter, click on the **HTTP Mode** list.



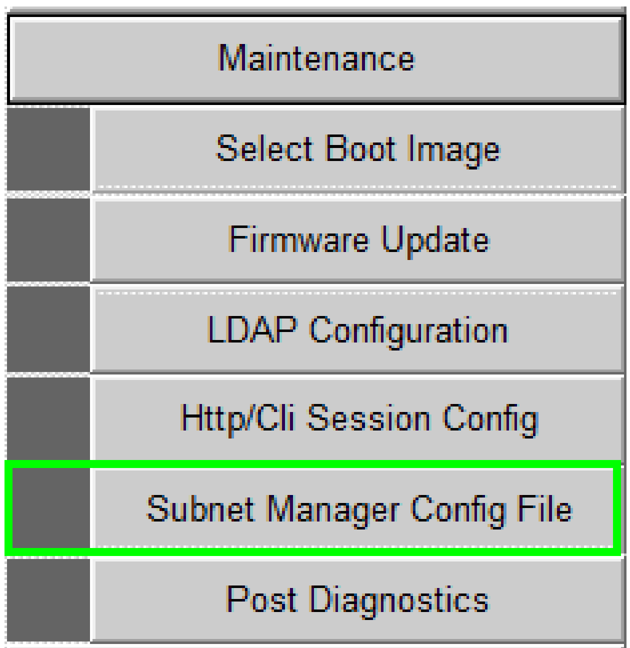
9) Select **Enabled** or **Disabled**.

10) Click **Apply**.

Subnet Manager Configuration File

The **Subnet Manager Configuration File** window allows you to upload and download Supermicro® Omni-Path Fabric Suite Fabric Manager embedded subnet manager files, as well as start and restart all applicable master and standby subnet managers using the new file.

This window is accessible from the Maintenance menu as shown in the following screenshot, as well as the Configuration File Administration menu. For details, refer to: Subnet Manager Configuration File.

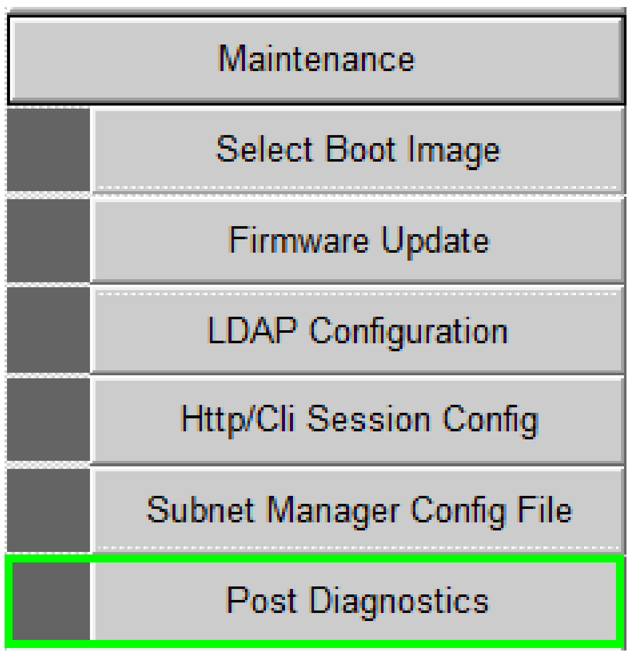


Post Diagnostics

The Post Diagnostic feature allows you to choose tests for various switch components that can be run in real time. These are tests that are not run during the power-on phase.

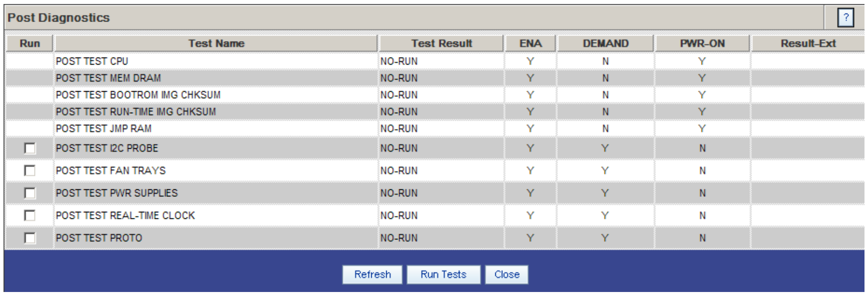
1) From the menu, select **Maintenance**.

   The **Post Diagnostics** button is displayed.



2) Click **Post Diagnostics**.

3) The **Post Diagnostics** window is displayed.



Run	Test Name	Test Result	ENA	DEMAND	PWR-ON	Result-Ext
	POST TEST CPU	NO-RUN	Y	N	Y	
	POST TEST MEM DRAM	NO-RUN	Y	N	Y	
	POST TEST BOOTROM IMG CHKSUM	NO-RUN	Y	N	Y	
	POST TEST RUN-TIME IMG CHKSUM	NO-RUN	Y	N	Y	
	POST TEST JMP RAM	NO-RUN	Y	N	Y	
☐	POST TEST I2C PROBE	NO-RUN	Y	Y	N	
☐	POST TEST FAN TRAYS	NO-RUN	Y	Y	N	
☐	POST TEST PWR SUPPLIES	NO-RUN	Y	Y	N	
☐	POST TEST REAL-TIME CLOCK	NO-RUN	Y	Y	N	
☐	POST TEST PROTO	NO-RUN	Y	Y	N	

4) Select the test(s) to be run and click **Run Tests**.

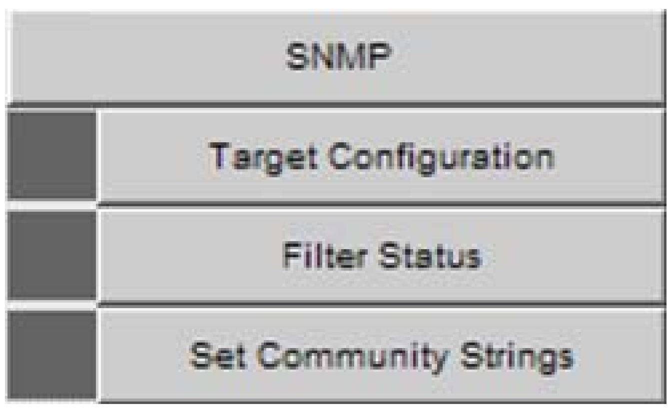
The test results are displayed in the **Test Result** column. Additional information is posted to the **Result-Ext** column.

POST TEST RUN-TIME IMG CHKSUM	NO-RUN	Y	N	Y	
POST TEST JMP RAM	NO-RUN	Y	N	Y	
POST TEST I2C PROBE	NO-RUN	Y	Y	N	
POST TEST FAN TRAYS	FAIL	Y	Y	N	Fans (2) < minimum (4)
POST TEST PWR SUPPLIES	NO-RUN	Y	Y	N	
POST TEST REAL-TIME CLOCK	NO-RUN	Y	Y	N	

SNMP

The **SNMP** submenu allows you to view and modify SNMP trap configuration information.

Figure 3: SNMP Submenu



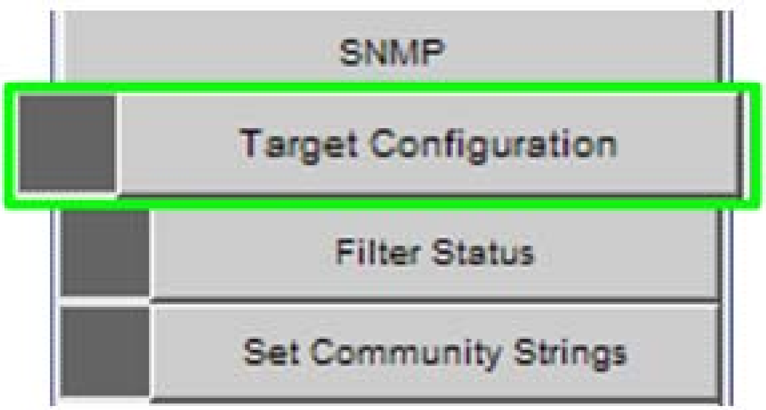
Target Configuration

The **Target Configuration** button displays the **SNMP Target Configuration** window, allowing you to view and edit existing SNMP trap destinations.

To display the **Target Configuration** window:

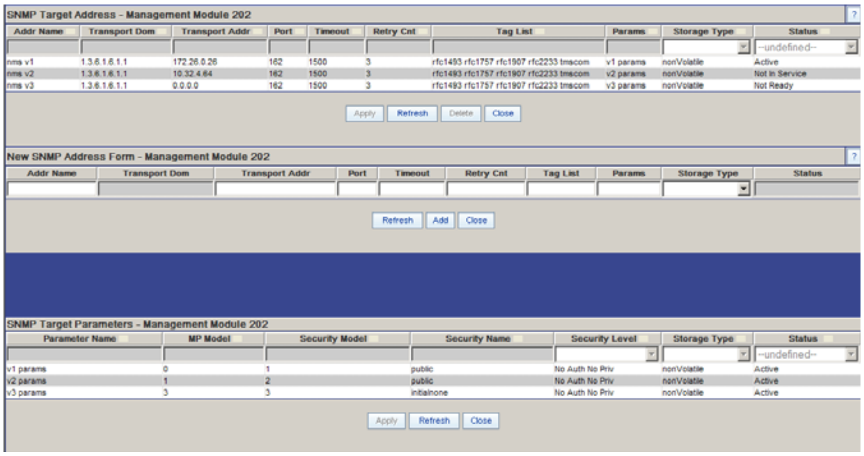
1) From the menu, select **SNMP**.

   The **Target Configuration** button is displayed.



2) Select **Target Configuration**.

The **SNMP Target Configuration** window is displayed.



The top section of the window, **SNMP Target Addresses**, allows you to determine what type of SNMP traps are sent, and where they are sent. The rows provide an area for specifying multiple trap destinations. The middle section, **SNMP Address Form**, allows you to record new SNMP address information for the applicable module. The bottom section of the window, **SNMP Target Parameters**, allows you to configure each trap destination with version, optional security information, and filtering mechanisms.

The **Apply** button applies the current settings to either the **SNMP Target Addresses** or **SNMP Target Parameters section**. The **Add** button saves changes made to the **SNMP Address Form** section.

NOTE: *The **Target Configuration** window is used for viewing and modifying existing SNMP target entries. It is not used for creating new target entries.*

Creating a New Target Entry

To create a new target entry, use the following CLI command:

```
snmpTargetAddr add -n name -a addr [-p port] [-t
timeout] [-r retry_count] [-l
tag_list] [-v parameters] [-s storage_type]
```

For example, to add a trap target with the IP address 192.168.0.123 that accepts SNMP v2c style traps:

```
snmpTargetAddr add -n traphost1 -a 192.168.0.123 -v "v2
params"
```

Or, to add the same target except using SNMP v1 traps:

```
snmpTargetAddr add -n traphost1 -a 192.168.0.123 -v "v1
params"
```

Target Configuration Window Field Descriptions

Descriptions for each field in the **Target Configuration** window are listed in the following table.

Table 2: SNMP Target Configuration Fields

Name	Description
SNMP Target Addresses	
Address Name	Specifies a unique, administrator-defined name the system uses to identify a row.
Transport Domain	Specifies the transport type of the address contained in the snmpTargetAddrTAddress object (e.g., 1.3.6.1.6.1.1 = udp, 1.3.6.1.4.1.1977.200.1 = tcp).

Name	Description
Transport Address	Specifies the IP address in dotted decimal format. ***NOTE:*** *The combination of the Transport Domain and the Transport Address determines the trap destination.*
Port	Specifies the TCP or UDP port where the SNMP trap is sent.
Timeout	Specifies the time (in milliseconds) that the trap sender waits on a response before re-sending the trap.
Retry Count	Specifies the number of attempts to be made to send the trap after a timeout condition occurs. ***NOTE:*** *Timeout and Retry Count are SNMP v2.c and above (not applicable for v1 traps).*
Tag List	Specifies which traps should be sent to this particular destination. ***NOTE: R****FC2233 specifies the link up/down traps. Including RFC2233 in the Tag List specifies that the trap receiver gets link up/down traps.*
Parameters	Specifies a mapping to an entry in the SNMP Target Parameters table, determining the version of SNMP to use.
Storage Type	Determines whether or not the entry is saved for each reboot of the switch. • *Nonvolatile* means that the value is saved, and remains after each subsequent reboot. • *Volatile* or *Other* indicates it is not saved.

Name	Description
Status	Indicates the current status of the row. The row may be in one of three states: • **Active** • **Not in service** • **Not Ready** *NOTE: A status of **not in service** indicates that the current row is not used in the event a trap is generated by the system. Toggling a trap to not in service, which temporarily suspends trap forwarding, may be useful to keep values intact.*
SNMP Target Parameters *NOTE: Changes can only be made to rows that have a status of **not in service**.*	
Parameter Name	Specifies a mapping to an entry in the SNMP Target Parameters table, determining the version of SNMP to use.
MP Model	Specifies the Message Processing Model to be used when generating SNMP messages for entry. Values for this field are 0 for SNMP v1, 1 for SNMP v2 and 3 for SNMP v3.
Security Model	Specifies the Security Model to be used when generating SNMP messages using this entry. Values for this field are 1 for SNMP v1, 2 for SNMP v2, or 3 for SNMP v3.
Security Name	Specifies the entity for whom SNMP messages are generated. *NOTE: This is equivalent to the community string in an SNMP get.*

Name	Description
Security Level	One of three options: • *NoAuthNoPriv*: No Authentication, no privacy. • *AuthNoPriv*: Authentication, no privacy. • *AuthPriv*: Authentication and privacy
Storage Type	Specifies whether or not the entry is saved for each reboot of the switch. • *Nonvolatile* means that the value is saved, and remains after each subsequent reboot. • *Volatile* or *Other* indicates it is not saved.
Status	Indicates the current status of the row. The row may be in one of three states: • **Active** • **Not in service** • **Not Ready** ***NOTE: A*** *status of* ***not in service*** *indicates that the current row is not used in the event a trap is generated by the system. Toggling a trap to* ***not in service****, which temporarily suspends trap forwarding, may be useful to keep values intact.*

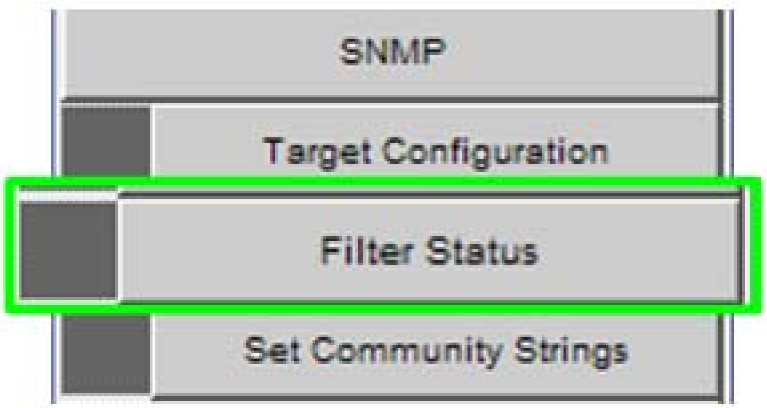
Filter Status

The **SNMP Filter Status** window allows you to view parameters for RFC 2273 (SNMP-NOTIFICATION-MIB).

To view **SNMP filter status**:

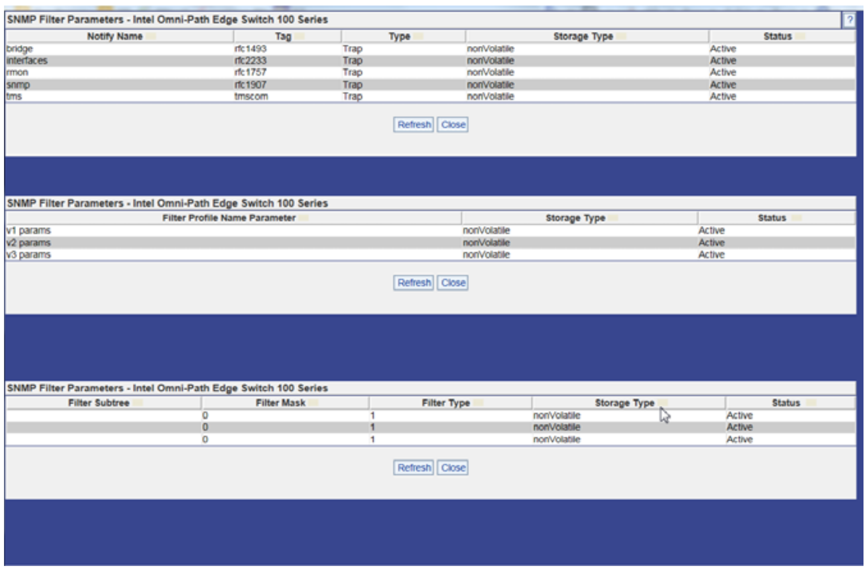
1) From the menu, select **SNMP**

The **Filter Status** button is displayed.



2) Click **Filter Status**.

The **SNMP Filter Status** window is displayed.



Set Community Strings

The **Set Community Strings** window allows you to set two SNMP community names:

- Read Only Community Name
- Read/Write Community Name

To set the Community Strings:

1) From the menu, select **SNMP**.

   The **Set Community Strings** button is displayed.

2) Click **Set Community Strings**.

The **Set Community Strings window** is displayed.

- The first field, **Read Only Comm. Name** is the community string that when specified in an SNMP client, allows read-only access to SNMP fields exported by the SNMP server.

- The second field, **Read/Write Comm. Name** is the community string that when specified in an SNMP client, allows read and write access to SNMP fields exported by the SNMP server.

3) In each text box, enter a meaningful name (for example, **public** and **private**), and click on **Apply**.

Configuration File Administration

The **Config File Admin** menu allows you to perform various administrative tasks related to the configuration files for each module populating the switch.

Figure 4: Configuration File Administration Menu

Administer

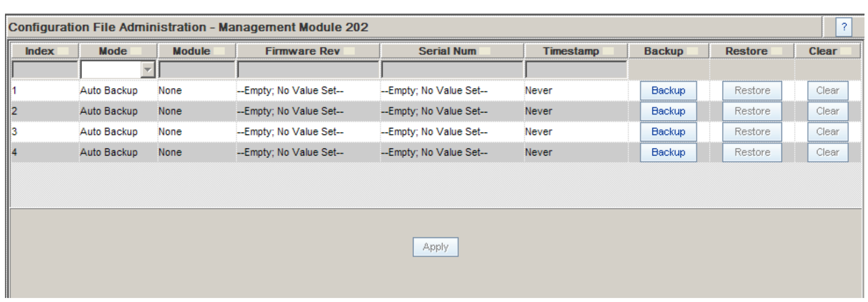
The **Administer** window allows you to set backup and restore scenarios for the configuration file of applicable switch modules.

1) From the **Chassis View** menu, select **Config File Admin**.

   The **Administer** button is displayed.

2) Click **Administer**.

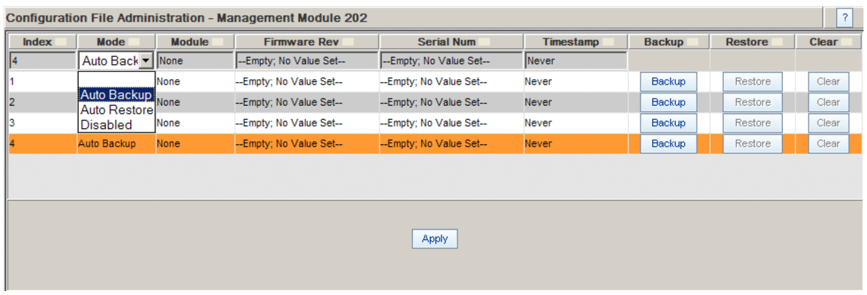
   The **Configuration File Administration** window is displayed.



3) Click on the module to be modified.

The row changes to orange.

4) In the **Mode** column, click the drop-down and select the configuration file administration mode for a module.



The mode options include the following:

- **Disabled**

  Following an Auto Restore of a configuration file to a module, the system sets the module mode to **Disabled**. This allows you to verify that the configuration file is correct, before returning the module to Auto Backup mode. In the **Disabled** mode, use the **Backup** and **Restore** buttons to either back up or restore a configuration file.

- **Auto Backup**

  All configuration changes to a module are automatically backed up.

- **Auto Restore**

  The most recent configuration file is restored to a module inserted into a specific Chassis slot. This is useful as a prerequisite to hot swapping a module.

*NOTE: The **Clear** button deletes the configuration file from the switch.*

5) To save, click **Apply**.

Host Upload/Download

The **Host Up/Download** window allows you to:

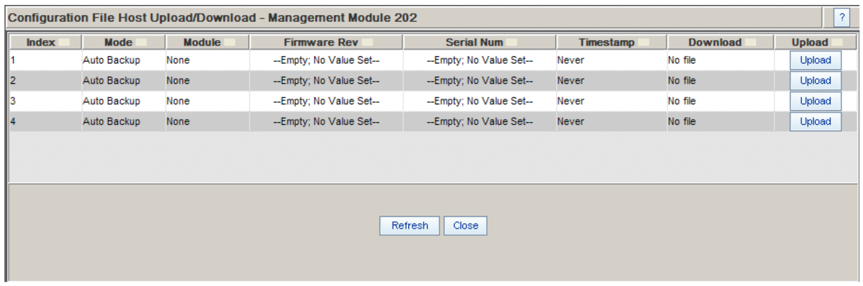
- Upload configuration files from a server.
- Download saved configuration files from the switch to a server.

1) From the **Chassis View** menu, select **Config File Admin**.

   The **Host Up/Down button** is displayed.

2) Click **Host Up/Down**.

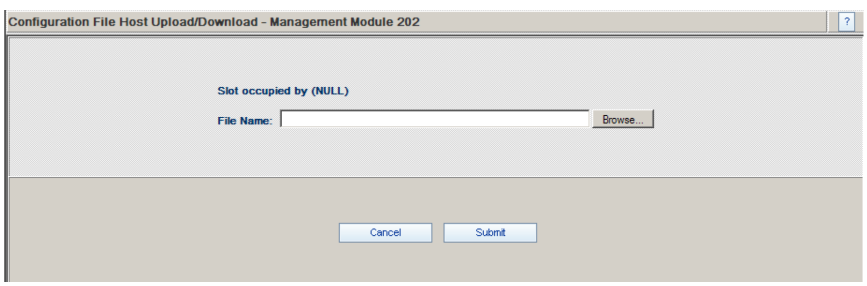
The **Configuration File Upload/Download** window is displayed.



To upload a configuration file from a server to the switch:

1) For a selected module, click the **Upload** button.

The **Upload** window is displayed.



2) Type the path to the desired server location, or click **Browse** to locate the correct path.

3) Click Submit.

To download a configuration file from the switch to a server:

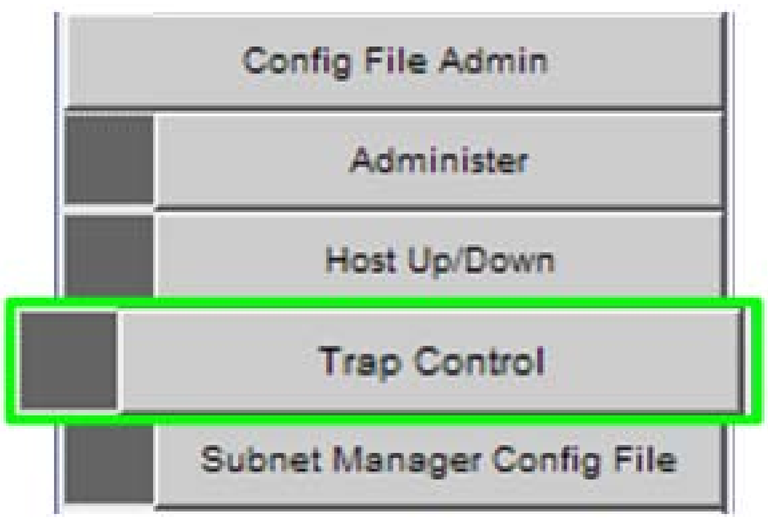
1) For a selected module, click the **Download** button. The **File Download** window is displayed.
2) Click **Save**.
3) In the **Save As** window, locate the correct path to the desired server location, and click **Save**.

Trap Control

The **Trap Control** window allows you to set default trap scenarios related to configuration files.

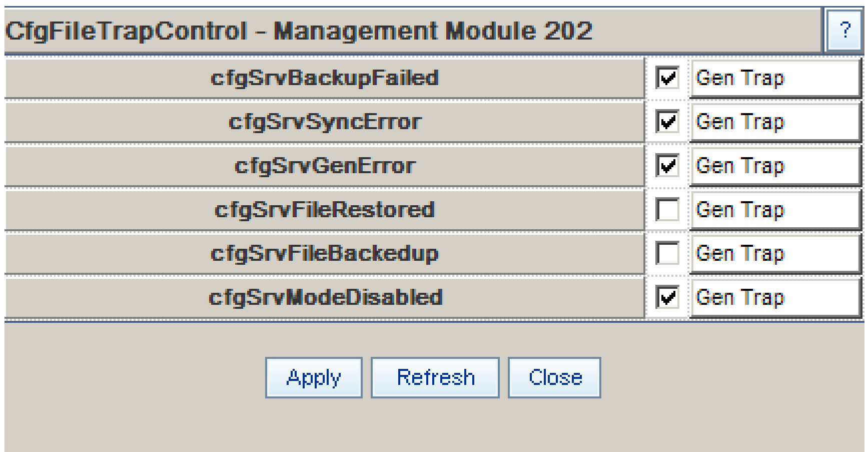
1) From the **Chassis View** menu, select **Config File Admin**.

   The **Trap Control** button is displayed.



2) Click **Trap Control**.

The **Trap Control** window is displayed.



3) Select or deselect the desired trap(s).

*NOTE: To generate an immediate trap, click the applicable **Gen Trap** button.*

4) To save settings, click on **Apply**.

*NOTE: If the trap is not selected, the **Gen Trap** button does not generate a trap.*

Definitions for each configuration file trap are listed in the following table.

Table 3: Configuration File Traps

Name	Description
cfgSrvBackupFailed	The server was instructed to back up a file for a particular slot, which failed.

Name	Description
cfgSrvSyncError	Synchronization to the slave Management Module failed. The problem should be resolved and attempted manually.
cfgSrvGenError	A general error has occurred.
cfgSrvFileRestored	The configuration files have been restored to a particular slot.
cfgSrvFileBackedup	The configuration files have been successfully backed up for a particular slot.
cfgSrvModeDisabled	An event has occurred that has caused the slot mode to be set to disabled. You should resolve the error and reset the mode to the proper value for the affected slot.

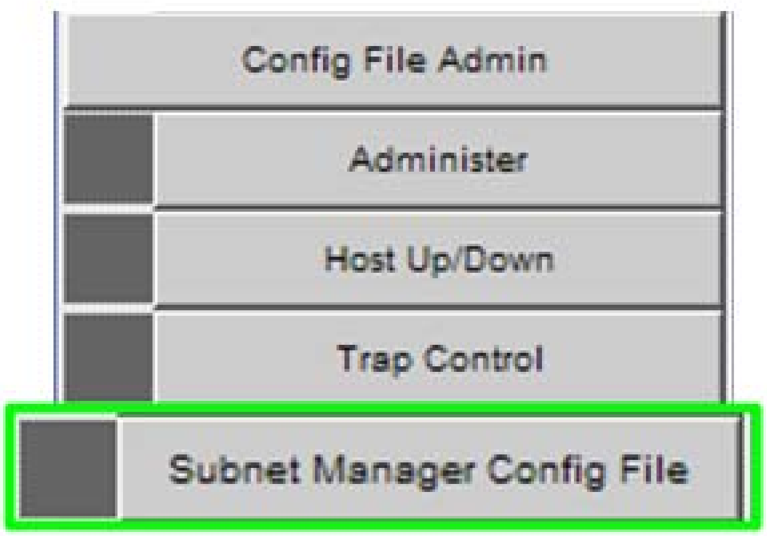
NOTE: *The screen shot shows the default settings for this window. You should not change the default settings unless instructed by Supermicro Customer Support.*

Subnet Manager Configuration File

The **Subnet Manager Configuration File** window allows you to upload and download Intel® Omni-Path Fabric Suite Fabric Manager embedded subnet manager files, as well as start and restart all applicable master and standby subnet managers using the new file.

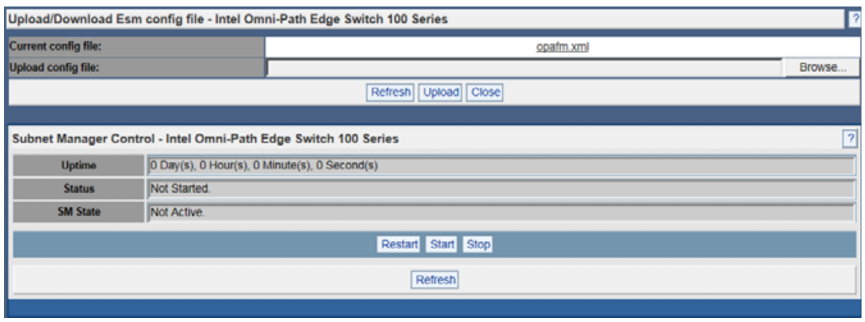
1) From the **Chassis View** menu, select **Config File Admin**.

The **Subnet Manager Config File** button is displayed.



2) Click **Subnet Manager Config File**.

The **Subnet Manager Configuration** window is displayed.



3) In the Upload Config File text box: enter the path to the alternate embedded subnet manager file (*opafm.xml*). If the path is not known, you can use the **Browse...** button to locate it.

4) Once the new file is located, click the **Upload** button.

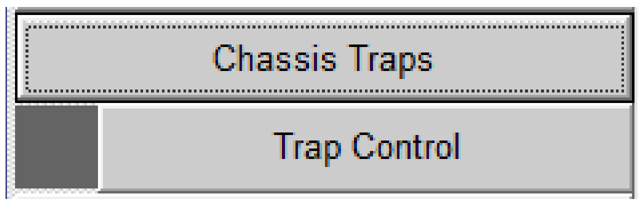
5) In the **Subnet Manager Control** window for the master subnet manager, click **Stop, Refresh**, then **Restart** to have the new file become active.

6) If applicable in the **Subnet Manager Control** window for the slave subnet manager, click **Refresh** to have the new file become active.

Chassis Traps

The **Chassis Trap Control** window allows you to set default trap scenarios related to the switch.

Figure 5: Chassis Traps Menu

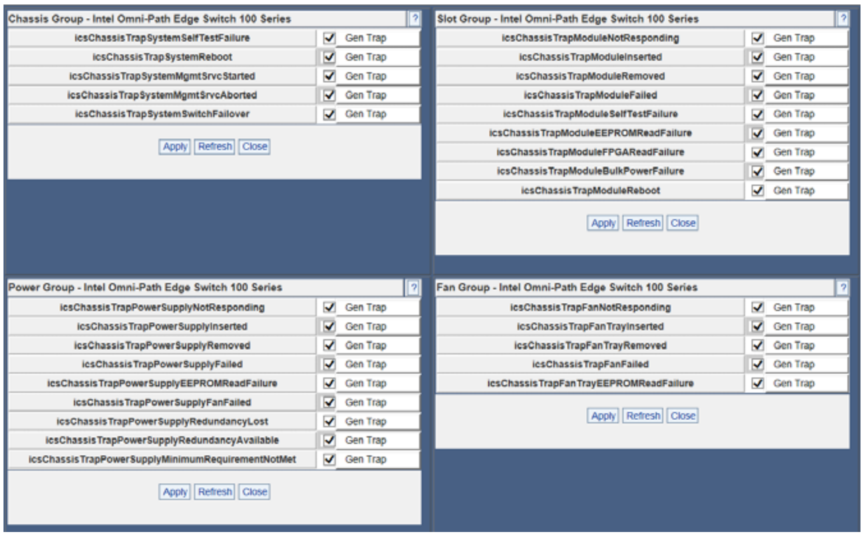


1) From the **Chassis View** menu, select **Chassis Traps**.

The **Trap Control** button is displayed.

2) Click **Trap Control**.

The **Chassis Trap Control** window is displayed.



3) Select or deselect the desired trap(s).

*NOTE: To generate an immediate trap, click the applicable **Gen Trap** button.*

4) To save settings, click on **Apply**.

Definitions for each chassis trap are listed in the following table.

Table 4: Chassis Traps

Name	Description
Chassis Group	
icsChassisTrapSystemSelfTestFailure	The chassis failed one or more of its self-test(s).
icsChassisTrapSystemReboot	The chassis is in the process of rebooting.
icsChassisTrapSystemMgmtSrvcStarted	The internal service used to support the management of the chassis is operational.
icsChassisTrapSystemMgmtSrvcAborted	The internal service used to support the management of the chassis has terminated abnormally.
icsChassisTrapSystemSwitchFailover	There was a fail over from one switch in the chassis to the other.
Slot Group	
icsChassisTrapModuleNotResponding	A module is not responding to HEARTBEAT poll requests, that are issued by the internal chassis management service.
icsChassisTrapModuleInserted	A module was inserted into the chassis.
icsChassisTrapModuleRemoved	A module was removed from the chassis.

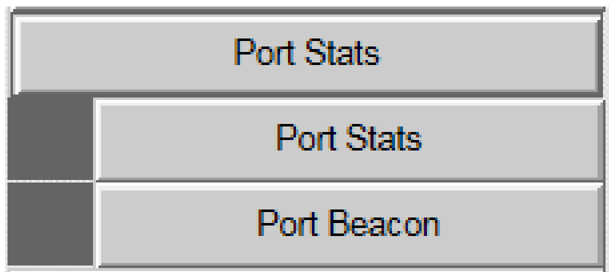
Name	Description
icsChassisTrapModuleFailed	A module has failed and is not operational.
icsChassisTrapModuleSelfTestFailure	The module failed one or more of its self tests.
icsChassisTrapModuleEEPROMReadFailure	An error condition was encountered when reading the EEPROM of the module.
icsChassisTrapModuleFPGAReadFailure	An error condition was encountered when reading the Field-Programmable Gate Array (FPGA) of the module.
icsChassisTrapModuleBulkPowerFailure	The bulk power used by a module has failed within the chassis.
icsChassisTrapModuleReboot	The module is in the process of rebooting.
Power Group	
icsChassisTrapPowerSupplyNotResponding	A power supply is not responding to HEARTBEAT poll requests that are issued by the internal chassis management service.
icsChassisTrapPowerSupplyInserted	A power supply was inserted into the chassis.
icsChassisTrapPowerSupplyRemoved	A power supply was removed from the chassis.
icsChassisTrapPowerSupplyFailed	A power supply has failed and is not operational.

Name	Description
icsChassisTrapPowerSupplyEEPROMReadFailure	An error condition was encountered when reading the EEPROM of the power supply.
icsChassisTrapPowerSupplyFanFailed	A power supply fan has failed and is not operational.
Fan Group	
icsChassisTrapFanNotResponding	A fan is not responding to HEARTBEAT poll requests that are issued by the internal chassis management service.
icsChassisTrapFanTrayInserted	A fan was inserted into the chassis.
icsChassisTrapFanTrayRemoved	A fan was removed from the chassis.
icsChassisTrapFanFailed	A fan has failed and is not operational.
icsChassisTrapFanTrayEEPROMReadFailure	An error condition was encountered when reading the EEPROM of the fan tray.

Port Statistics

The **Chassis View Port Stats** menu provides information for all of the external and internal ports of the switch.

Figure 6: Port Stats Menu

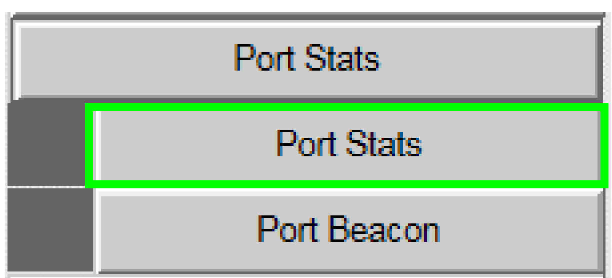


View Port Statistics

To view port statistical information, do the following:

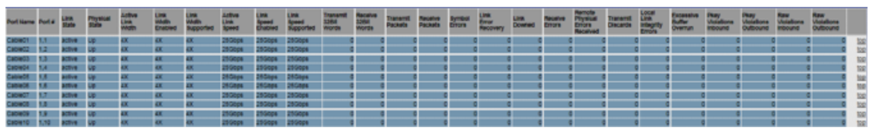
1) From the **Chassis View** menu, click **Port Stats**.

The **Port Stats** button is displayed.



2) Click **Port Stats**.

The **Port Statistics** window is displayed.



Understanding Port Naming Conventions

This section explains the conventions used in the **Port Name** column.

On Supermicro SSH-C48Q Switch systems, an example **portName** is: **Cable01**, that is Cable Port 1.

Port Statistics Field Descriptions

The following table contains port statistics fields and descriptions.

Table 5: Port Statistics Fields and Descriptions

Field	Description
Link State	Indicates whether the link associated with the physical port is up or down. Possible values are **no state change**, **down**, **init**, **armed**, **active**, and **unknown**.
Physical State	Indicates whether the internal connection to the port is up or down. Possible values are **No State Change**, **Sleep**, **Polling**, **Disabled**, **Training, Up**, and **Error Recovery**.

Field	Description
Active Link Width	Indicates the number of full duplex serial links that are currently being used on a port. The current bandwidth capability of a port is determined by multiplying this value by the Active Link Speed of this port.
Link Width Enabled	Indicates the allowed link width(s) that a port can arbitrate to. Normally, this defaults to the Link Width Supported value, but can be overridden by the subnet manager.
Link Width Supported	Indicates the link width in terms of multipliers of full duplex serial links supported by the port.
Active Link Speed	Indicates the speed of the full duplex serial link.
Link Speed Enabled	Indicates the allowed link speed(s) that a port can arbitrate to. Normally this defaults to the Link Speed Supported value, but can be overridden by the subnet manager.
Link Speed Supported	Supported link speed of the port.
Transmit 32 Bit Words	Number of 32-bit data words transmitted by the port, not including flow control and VCRC data.
Receive 32 Bit Words	Number of 32-bit data words received by the port, not including flow control and VCRC data.
Transmit Packets	Number of data packets transmitted by the port, not including flow control packets.
Receive Packets	Number of data packets received by the port, not including flow control packets.

Field	Description
Symbol Errors	Number of times a 8B10B encoding violation, or a disparity violation was detected. If multiple errors are detected simultaneously (in more than one lane), the counter only increments by one. The value of the counter is not incremented past 65535. The Performance Manager may reset and/or consolidate the results of this counter.
Link Error Recovery	Indicates the number of times the link error recovery process happened successfully. The value of the counter is not incremented past 65535. The Performance Manager may reset and/or consolidate the results of this counter.
Link Downed	Number of times the link error recovery process failed. The value of the counter is not incremented past 65535. The Performance Manager may reset and/or consolidate the results of this counter.
Receive Errors	Number of errors received on the port.
Remote Physical Errors Received	Indicates bit errors on a link other than the physically attached link.
Transmit Discards	Number of port transmit discards.
Local Link Integrity Errors	Error caused by a marginal link. Depending upon the number of code violations, physical switch problems are detected at the physical layer. These errors are based on a count of local physical errors.
Excessive Buffer Overrun	Error detected when the Overrun Errors threshold is exceeded by the number of consecutive flow control update periods with at least one overrun error in each period given in the PortInfo attribute.

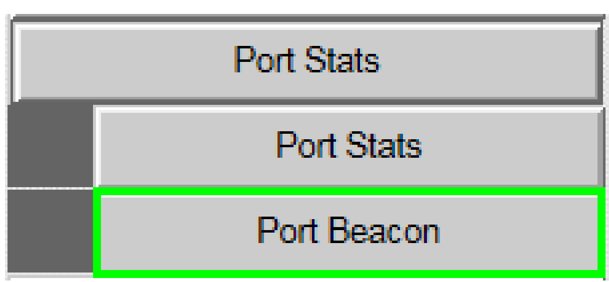
Field	Description
Pkey Violations Inbound	Indicates the number of times an invalid partition key (PKey) was received. PKeys support an advanced feature for logically partitioning a physical subnet into logical access domains.
Pkey Violations Outbound	Indicates the number of times an invalid PKey was sent. PKeys support an advanced feature for logically partitioning a physical subnet into logical access domains.
Raw Violations Inbound	Number of times raw inbound packet discarded.
Raw Violations Outbound	Number of times raw outbound packet was discarded.

Port Beacon

The Port Beacon feature allows you to enable port LEDs to flash, assisting you in locating a port.

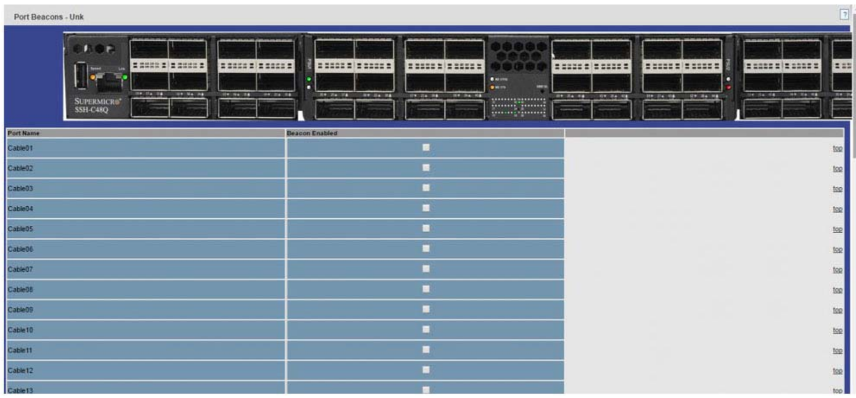
1) From the Chassis menu, click **Port Stats**.

   The **Port Beacon** button is displayed.



2) Click **Port Beacon**.

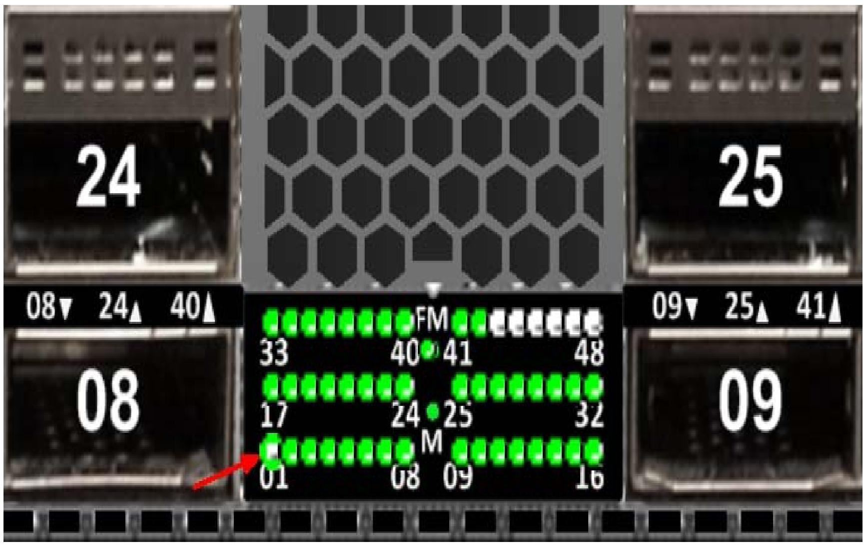
The **Port Beacon** window is displayed.



3) For the desired port, select the **Beacon Enabled** check box.

4) Click **Apply**.

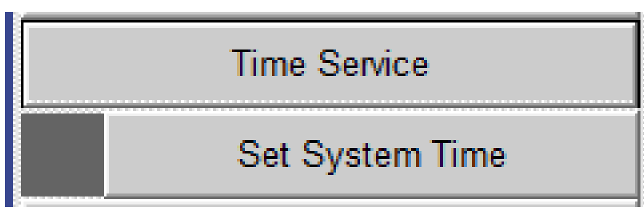
The physical port's LED blinks. In Chassis Viewer, the Link Status LED for the port is highlighted. The arrow in the following screen shot points to the highlighted Port 1.



Time Service

The **System Time Information** window allows you to set the system time using either network time protocol (NTP) or manual overrides.

Figure 7: Time Service Menu



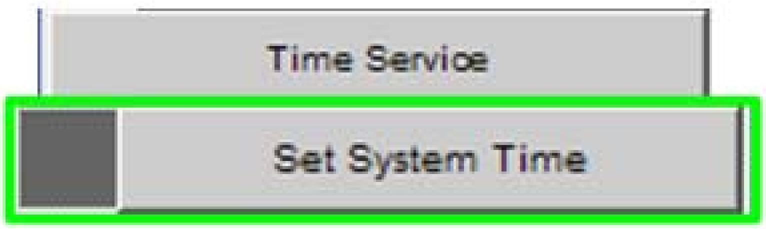
Setting System Time

To set the system time:

TASK

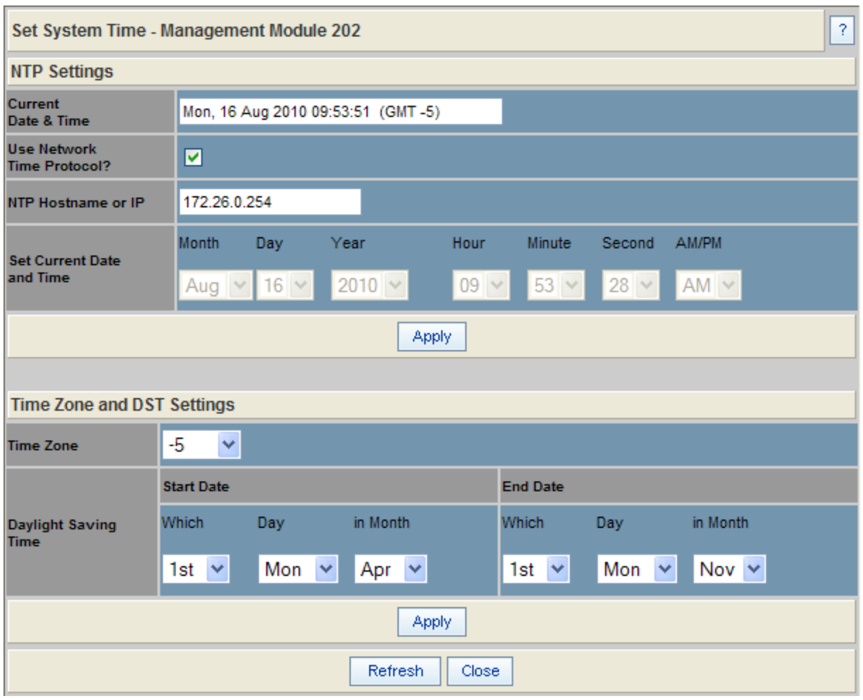
1. From the menu, select **Time Service**.

   STEP RESULT: The **Set System Time** button is displayed.



2. Click **Set System Time**.

STEP RESULT: The **System Time Information** window is displayed.



NOTE: *If using Network Time Protocol (NTP) and host names (instead of IP addresses), DNS information must first be set up using the CLI command* `dnsParamsSet`*. Remember to reboot the switch after executing this command.*

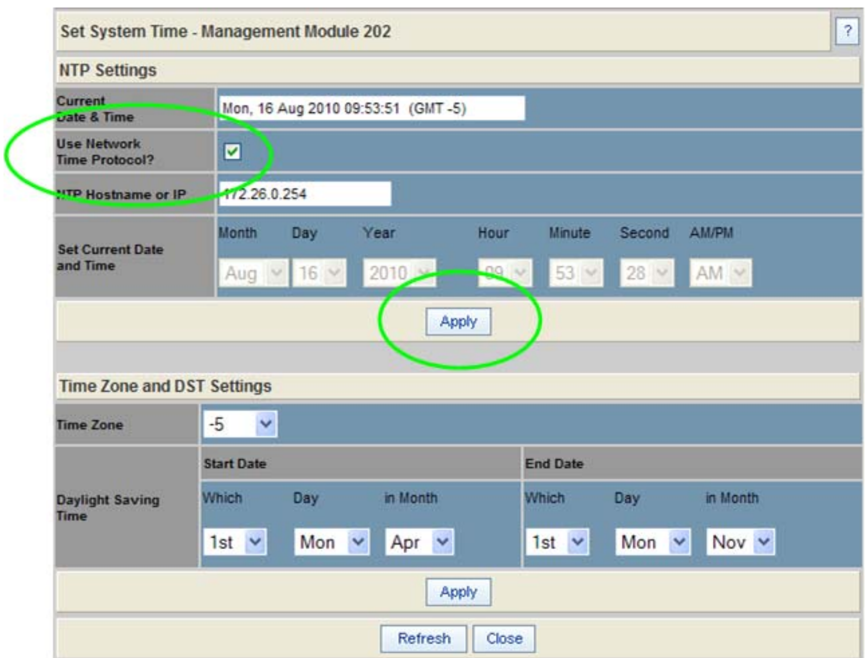
Using Network Time Protocol (NTP)

To use NTP:

TASK

1. Click the **Use Network Time Protocol?** check box.

   STEP RESULT:



2. Enter either the DNS host name or IP address for the NTP server.
3. To save, click on **Apply**.

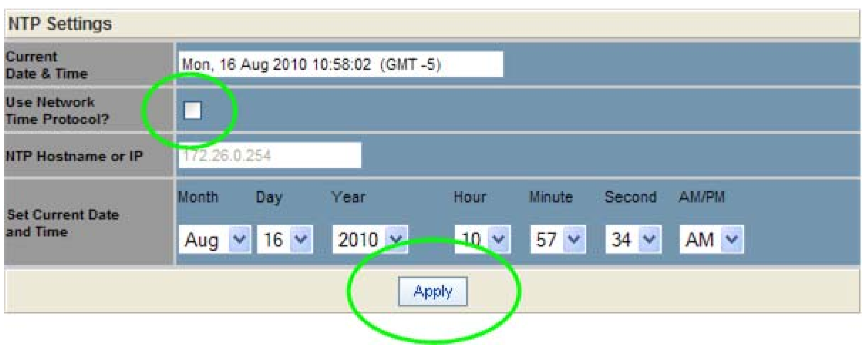
Manually Setting System Time

To manually set the system time:

TASK

1. Make sure the **Use Network Time Protocol?** check box is unchecked.

   STEP RESULT:



2. Set the current date and time using the drop-downs for **Month**, **Day**, and **Year** as well as **Hour**, **Minute**, **Seconds**, and **AM/PM**.
3. To save, click on **Apply**.

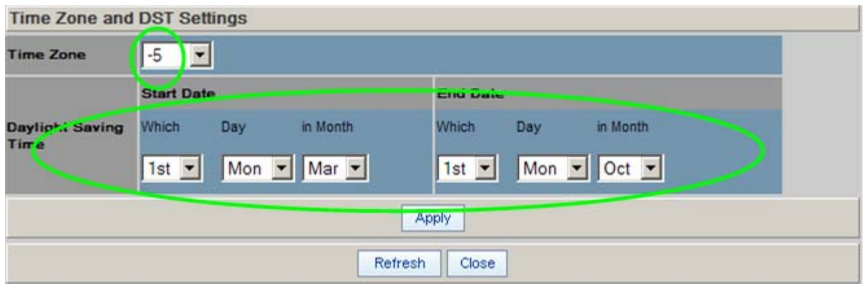
Setting Time Zone and Daylight Saving Time (DST)

To set time zone and daylight saving time (DST):

TASK

1. In the **Time Zone** drop-down, select the correct time zone based upon Greenwich Mean Time (GMT).

   STEP RESULT:



2. Using the **Which**, **Dandy in Month** drop-downs, set the start and end dates for daylight saving time.
3. To save, click on **Apply**.

Time Zone Tips

In the United States, the following time zones are in effect:

- Eastern Standard Time = GMT –5
- Central Standard Time = GMT –6
- Mountain Standard Time = GMT –7
- Pacific Standard Time = GMT -8

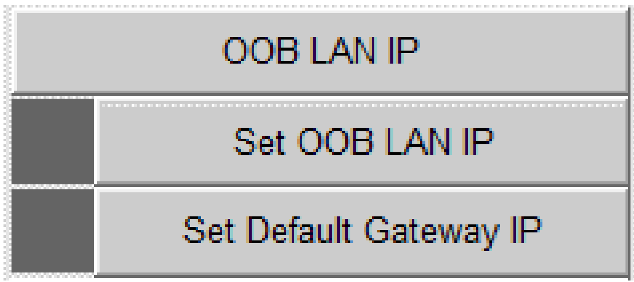
Daylight Saving Time Tips

For most of the United States, Daylight Saving Time (DST) begins at 2 a.m. on the second Sunday of March, and ends at 2 a.m. on the first Sunday in November.

For regions in the United States that do not observe DST, you should set the start and end dates in the **Which**, **Day**, and **in Month** settings to the **exact same date**.

OOB LAN IP Menu

Figure 8: OOB LAN IP Menu



Configuring the Switch OOB IP Address

To configure the Switch IP address:

1) From the menu, select **OOB LAN IP**

The **Set OOB LAN IP** button is displayed.

2) Click **Set OOB LAN IP**.

The **Set OOB LAN IP** window is displayed.

3) Click the **Out of Band LAN IP Address** text box.

4) Enter an applicable switch IP address.

5) Click the **Net Mask text** box.

6) Enter an applicable switch net mask.

7) Click **Apply**.

If using IPv6, you can manually enter an applicable static IPv6 address (in hexadecimal format address/prefix) in the **Out of Band LAN IP** text box.

8) To automatically configure and assign addresses from an IPv6 router, click the **Auto Config Enabled** radio button.

NOTE: *The IPv6 router must be configured to assign addresses using stateless address auto configuration.*

9) Click **Apply**.

Configuring the Switch Default Gateway IP Address

The **Set Default Gateway IP** window allows you to configure the IP address for the default gateway to route packets from the OOB management port to an external network.

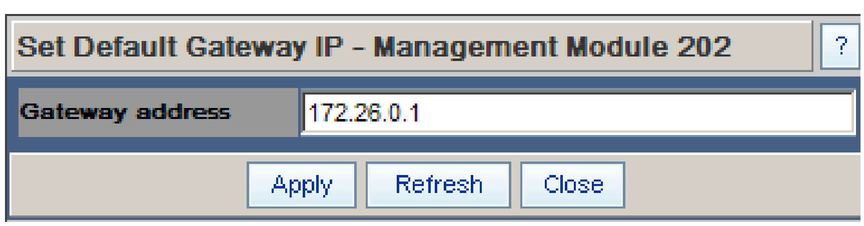
To configure the Switch default gateway IP address:

1) From the menu, select **OOB LAN IP**.

   The **Set Default Gateway IP** button is displayed.

2) Click **Set Default Gateway IP**.

   The **Set Default Gateway IP** window is displayed.



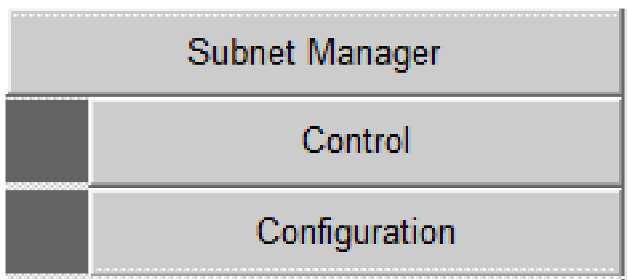
3) Click the **Gateway address** text box.
4) Type in the correct switch default gateway IP address.
5) Click **Apply**.

***NOTE:** If the DHCP option is selected, no gateway address is necessary.*

Subnet Manager Control

This section discusses the embedded version of the Fabric Manager.

Figure 9: Subnet Manager Control Button

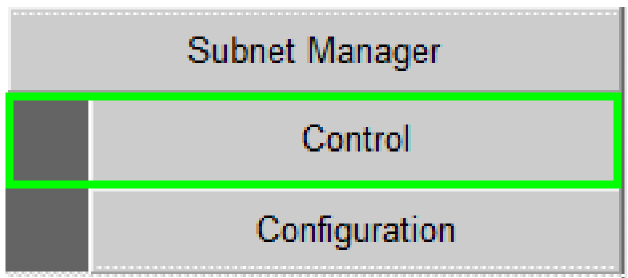


Accessing the Subnet Manager Control Window

The **Subnet Manager Control window** presents status information relating to the Supermicro Fabric Suite Fabric Manager and provides a mechanism for starting, restarting, and stopping the Fabric Manager.

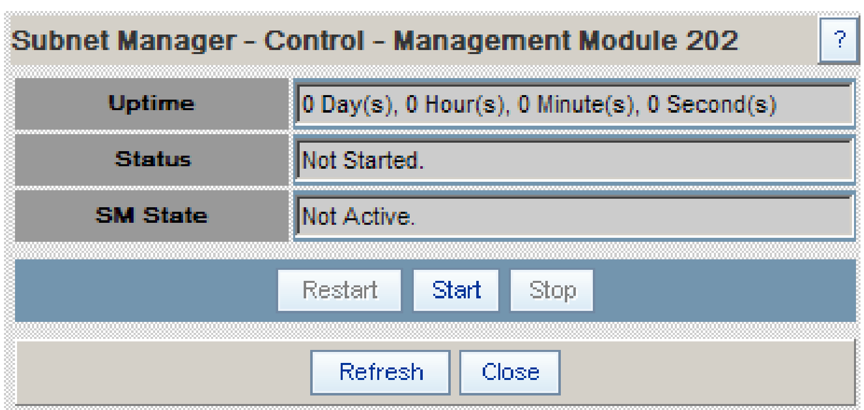
1) From the Management Module menu, click **Subnet Manager**.

   The **Control** button is displayed.



2) Click **Control**.

   The **Subnet Manager Control** window is displayed.



Starting the Fabric Manager

1) From the menu, click **Subnet Manager**.
2) Click-control. The **Subnet Manager Control** window is displayed.
3) To start the Fabric Manager, click **Start**.

   The system responds by displaying **Starting up** in the **Status** box of the **Subnet Manager Control** window.
4) To confirm that the Fabric Manager has started, click **Refresh**.

   Once the Fabric Manager is running, the system reports **Running** in the **Status** box and begins to increment the **Uptime** counter.
5) Click **Close**.

Restarting the Fabric Manager

1) From the menu, click **Subnet Manager**.
2) Click-control. The **Subnet Manager Control** window is displayed.
3) To restart the Fabric Manager, click **Restart**.

   The system responds by displaying **Shutting Down** in the **Status** box of the **Subnet Manager Control** window.
4) To confirm that the Fabric Manager has started, click **Refresh**.

   Once the Fabric Manager is running, the system reports **Running** in the **Status** box and begins to increment the **Uptime** counter.

5) Click **Close**.

Stopping the Fabric Manager

1) From the menu, click **Subnet Manager**.

2) Click **Control**. The **Subnet Manager Control** window is displayed.

3) To stop the Fabric Manager, click **Stop**.

   The system responds by displaying **Shutting Down** in the **Status** box of the **Subnet Manager Control** window.

4) To confirm that the Fabric Manager has shut down, click-refresh.

   Once the Fabric Manager has shut down, the system reports **Not Started in** the **Status** box of the **Subnet Manager Control** window.

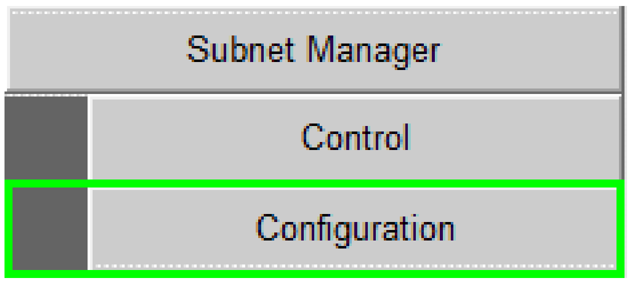
5) Click **Close**.

Automatically starting the Fabric Suite Fabric Manager

To enable the Fabric Manager to automatically start at boot time:

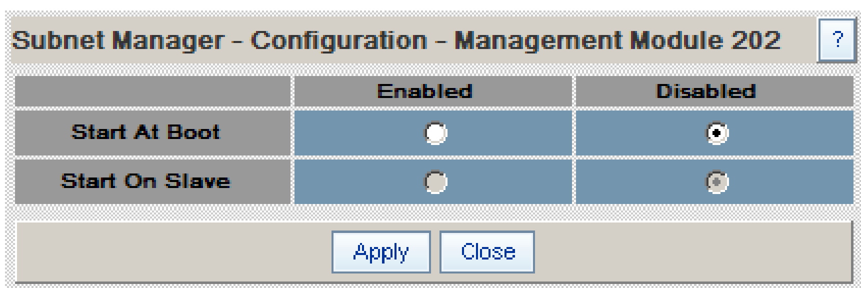
1) From the menu, select **Subnet Manager**.

   The **Configuration** button is displayed.



2) Click **Configuration**.

   The **Subnet Manager Configuration** window is displayed.



3) To configure the Fabric Manager to automatically start with each boot, click **Enabled**.

   *NOTE: If you want to manually activate the Fabric Manager, click **Disabled**.*

Notes

4) For switches in a redundant management configuration, set the **Start On Slave** option to **Disabled**.

   In the event that the Fabric Manager on the master Management Module is disabled, the Fabric Manager on the slave Management Module turns on automatically when it becomes the chassis management module.

5) Click **Apply**.

Traditional Chinese Version Safety Warnings

Additional Traditional Chinese Version warning statements are included here in this appendix.

安全警告 (注意這些警告標誌)

以下的警告標誌對於安全使用本設備非常重要，可以避免操作人員遭遇危險，以及財產受到任何損失。

錯誤使用本機器或忽視這本手冊，所引起的傷害或損失等級分類如下：

Warning! (警告) 此注意標誌提醒未能依照正確指示使用機器，可能導致生命危險 或造成嚴重傷害。

Caution (注意**)** 此注意標誌提醒未能依照正確指示使用機器，可能導致受傷或財產損失。

此標誌提示絕對不可做的動作。

此標誌提示一般性務必要採取的行為。

Warnings: (警告)

本機器必須用接地線與地面確實連接。 否則受到電擊或閃電時，將對您造成危險。 如果電源插座沒有接地端子，或是有無法接地情況，請務必洽詢 專業技術人員，妥善安裝這些設施。

1. 電源必須在 100V 至 240V 正負 10%之間
2. 使用額定合格開關來提供電源迴路。
3. 機器安裝愈接近電源插座愈好。
4. 移動機器必須由維護工程師來處理。

1. 勿使用多孔插座或延長線，否則可能造成溫度過高而引起火災。

2. 勿在電源線放置重物，否則可能引起火災或受到電擊。

3. 勿踏在電源線上，及勿損傷或任意處理電源線，
否則可能引起火災或 受到電擊。

4. 勿綁住或紮緊電源線，否則可能引起火災或受到電擊。

5. 勿將花瓶、花盆或盛水容器放在機器上，如果水滴濺出，可能引起火 災或受到電擊

1. 機器如果產生怪味或不正常聲響，必需立即關閉機器電源開關，然後 從插座取下插頭

2. 絕對不可以沾濕的手插拔插頭，否則可能受到電擊。

3. 插頭必須確實插妥在插座上，如果未能妥善插好，可能會引起火災。

4. 僅可使用機器所附電源插頭。

拔取電源線時，確實抓住插頭部位，否則導致插頭破裂可能引起火 災或受到電擊。

不可企圖拆解或擅自修改機器，否則可能引起火災或受到電擊。

不可將機器安裝在下列場所：

1. 濕氣高及多灰塵的地方。

2. 地板不穩的地方。如果機器傾倒，可能造成傷害。

關閉上機蓋時，千萬不可將手放在上機蓋與主機體之間。

1. 移動機器前，必須記住拔下插頭，
否則插頭可能受損而引起火災 或受到電擊。

2. 為安全起見，夜晚無人使用伺服器時，必須確實將它的電源關閉。

3. 連續假日長期無人使用伺服器時，必須確實將它的電源關閉。

4. 插座周圍必須淨空，以便隨時可以很輕易的拔下插頭。

警告使用者： 這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策

限用物質含有情況標示聲明書

Declaration of the Presence Condition of the Restricted Substances Marking

設備名稱：網路交換器 (Network Switch)　，型號（型式）：SSH-C48x, SSH-C48Q, SSH-C48QM,
Equipment name　Type designation (Type)

單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr^{+6})	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
機殼 (Chassis)	○	○	○	○	○	○
機殼風扇 (Chassis Fan)	–	○	○	○	○	○
線材 (Cable)	○	○	○	○	○	○
主機板 (Motherboard)	–	○	○	○	○	○
電源供應器 (Power Supply)	–	○	○	○	○	○
電源背板 (PDB)	–	○	○	○	○	○
附加卡 (Add-on Card)	–	○	○	○	○	○

備考1.〝超出0.1 wt %〞及〝超出0.01 wt %〞係指限用物質之百分比含量超出百分比含量基準值。
Note 1："Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2.〝○〞係指該項限用物質之百分比含量未超出百分比含量基準值。
Note 2："○" indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3.〝–〞係指該項限用物質為排除項目。
Note 3：The "–" indicates that the restricted substance corresponds to the exemption.