

VadaTech MicroTCA

# Carrier Manager Web Interface Reference Manual

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May 20, 2009

Version 2.0



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## Revision History

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# 1 Overview

This document describes connecting to and using the VadaTech MicroTCA Carrier Manager Web Interface.

## 1.1 Applicable Products

- UTC001
- UTC003
- VT850

## 1.2 Document References

- [Intelligent Platform Management \(IPMI\) Interface Specification v2.0](#)
- [PICMG® 3.0 Revision 3.0 AdvancedTCA® Base Specification](#)
- [PICMG® AMC.0 R2.0 Advanced Mezzanine Card Base Specification](#)
- [PICMG Specification MTCA.0 R1.0 \(MicroTCA\)](#)
- [VadaTech MCH Software Management Manual](#)
- [VadaTech MicroTCA MCH Getting Started](#)
- [VadaTech MicroTCA Management Interface Specification](#)
- [VadaTech MicroTCA Carrier Manager Command Line Interface Reference Manual](#)

## 1.3 Acronyms Used in this Document

Acronym	Description
ATCA	Advanced Telecommunications Computing Architecture
CLI	Command Line Interface
CU	Cooling Unit
MC	Management Controller
MCH	MicroTCA Carrier Hub
MicroTCA	MicroTelecommunication Computing Architecture
PM	Power Module
SDR	Sensor Data Record / Sensor Data Record Repository

Table 1: Acronyms

## 2 MicroTCA Carrier Manager Web Interface

The MicroTCA Carrier Manager Web Interface supports a subset of the commands specified by the [VadaTech MicroTCA Carrier Command Line Interface Reference Manual](#). The Web Interface interacts with the CLI which is based on the IPMI 2.0, AdvancedTCA™ PICMG 3.0, and MicroTCA 1.0 specifications. Administrators can access the Web Interface through any modern web browser supporting javascript. The Web Interface, through the CLI, provides access to information about the current state of the Carrier, obtain information such as the FRU population, and monitor alarms, power management, current sensor values, and the overall health of the Carrier. The interface can also be used to update Carrier-configurable parameters.

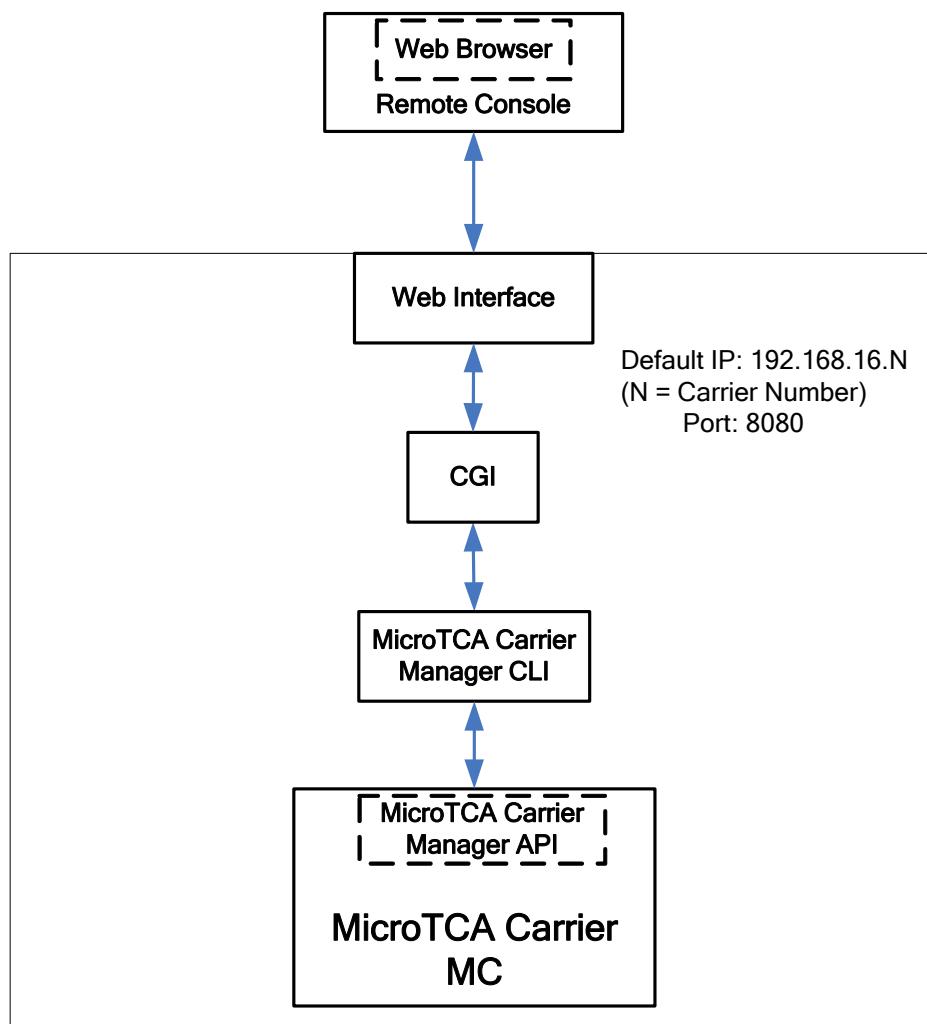


Figure 1: Web Interface

The Web Interface connects to the IP Address of the Carrier Manager and communicates with the CLI via the Common Gateway Interface (CGI). The CLI communicates with the

MicroTCA Carrier Management Controller (MC) Application Programming Interface (API), which communicates directly with the Carrier Manager.

For information on configuring network settings and setting up the system the first time, refer to the [VadaTech MicroTCA Management Interface Specification](#) and the [VadaTech MicroTCA MCH Getting Started](#) document.

**Note:** If a MicroTCA Shelf Manager is active on the same MCH as the Carrier Manager, the Web Interface defaults to the Shelf Web Interface. For information on how to use the Shelf Web Interface, refer to the [VadaTech MicroTCA Shelf Manager Web Interface Reference Manual](#).

## 2.1 Web Interface User Configuration

As shown in Figure 1, the Web Interface communicates directly with the CLI. To do this, the Web Interface uses the default CLI user information, which is the user with ID 2, username “carrier”, password “carrier”. This user is configured with administrative privileges.

## 3 Addressing

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Addressing for MicroTCA Carrier commands rely on knowledge of a FRU's access address (always 20h for the current Carrier Manager) and FRU ID, or knowledge of a FRU's site type and site number. For information on how this is determined, and where this information is located, see the [VadaTech MicroTCA Carrier Manager Command Line Interface Reference Manual](#).

## 4 Site Profile

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This section describes the web pages provided by the MicroTCA Carrier Manager web server. These pages directly invoke CLI commands, as detailed in the following sections. For more information on the CLI and the commands available through the CLI, refer to the [MicroTCA Carrier Manager Command Line Interface Reference Manual](#).

The web server is a configurable setting in the `/opt/vadatech/startup/vtipmi.conf` file. For information on configuring startup applications, refer to the [VadaTech MicroTCA MCH Getting Started](#) document.

When connected, the start page should appear similar to that shown in Figure 2. Variations on presentation of this page, and the pages described in the following subsections, will be browser-dependent.



Figure 2: Web Interface Start Page

Pages that include an input form to specify command parameters will be depicted in the sections below. If a page is not shown for a specified command, no form is associated with the command.

Note: descriptions of commands that use addressing to target a FRU will describe any and all non-OEM applicable target FRUs accepted by the command. For more information on the parameter(s) available for the associated CLI command, refer to the [MicroTCA Carrier Manager Command Line Interface Reference Manual](#).

## 4.1 System Management

This section covers the commands associated with System Management, as listed in the **System Management** menu.

### 4.1.1 FRU Population

Description: provide a summary of the FRUs installed in the Carrier, optionally filtered by a given Entity ID

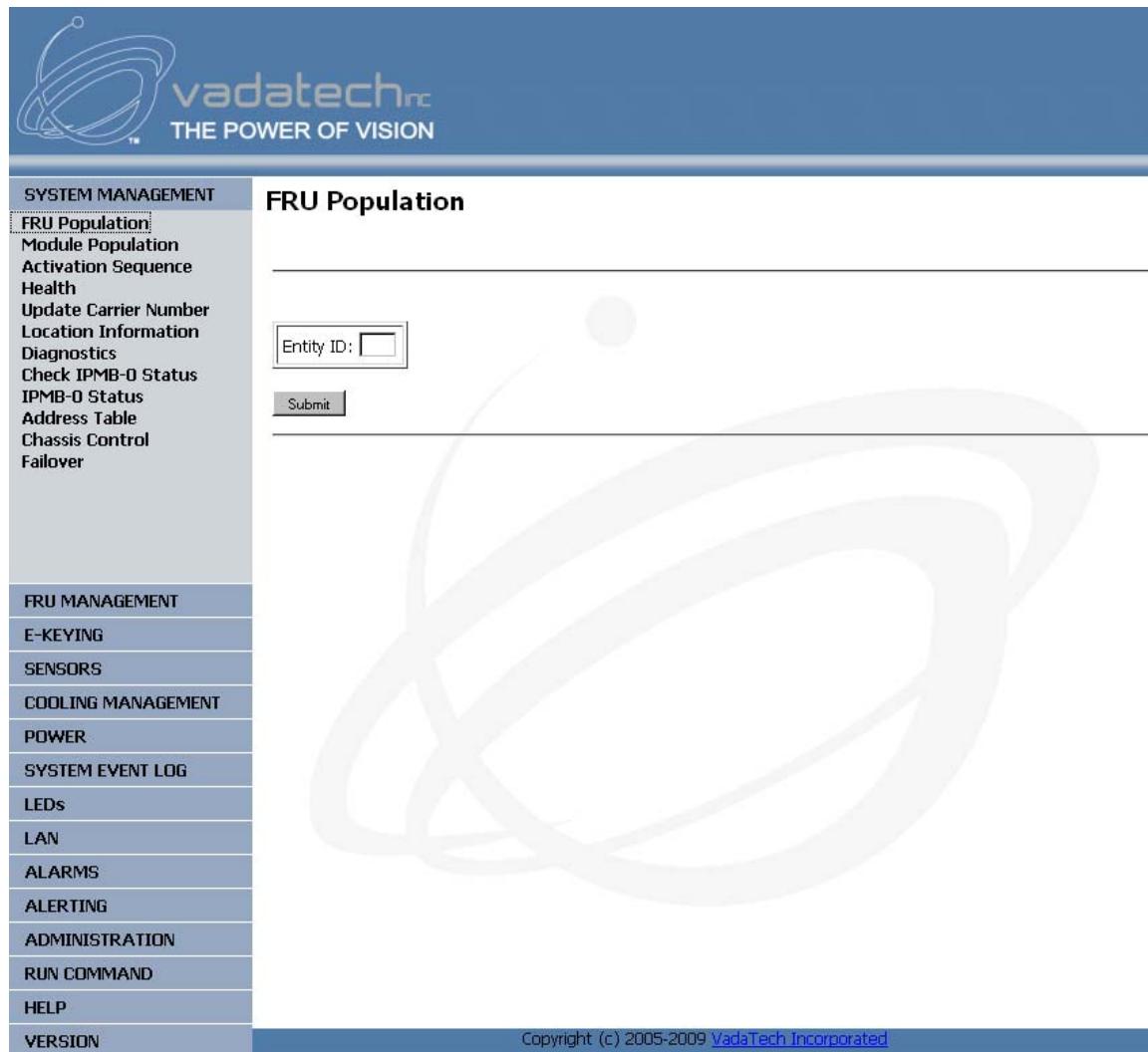


Figure 3: FRU Population

Associated CLI Command(s): `list_frus_present`

**Applicable Target FRUs:**

Entity	Entity ID
MCH	C2h
AMC	C1h
CU	1Eh
PM	0Ah
OEM	DAh – DFh

Table 2: FRU Population applicable target FRUs

## 4.1.2 Module Population

Description: display a summary of the Modules installed in the Carrier  
Associated CLI Command(s): `list_modules_present`

### 4.1.3 Activation Sequence

Description: display the FRU activation sequence from the Carrier's FRU Information  
Associated CLI Command(s): `get_fru_activation_sequence`

#### 4.1.4 Health

Description: display a summary of the alarm statuses of all the FRUs installed in the Carrier

Associated CLI Command(s): `get_health`

## 4.1.5 Update Carrier Number

Description: update the Carrier number of the current Carrier

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A navigation menu on the left includes "SYSTEM MANAGEMENT" (with "Update Carrier Number" selected), "FRU MANAGEMENT", "E-KEYING", "SENSORS", "COOLING MANAGEMENT", "POWER", "SYSTEM EVENT LOG", "LEDs", "LAN", "ALARMS", "ALERTING", "ADMINISTRATION", "RUN COMMAND", "HELP", and "VERSION". The main content area is titled "Update Carrier Number" and contains a form with a "Carrier Number:" input field and a "Submit" button. A watermark of a stylized eye is visible in the background of the content area. At the bottom right of the content area is the copyright notice "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 4: Update Carrier Number

Associated CLI Command(s): `set_carrier_number`

## 4.1.6 Location Information

Description: display location information for a given FRU

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". The left sidebar contains a navigation menu with the following items:

- SYSTEM MANAGEMENT
  - FRU Population
  - Module Population
  - Activation Sequence
  - Health
  - Update Carrier Number
  - Location Information** (selected)
  - Diagnostics
  - Check IPMB-0 Status
  - IPMB-0 Status
  - Address Table
  - Chassis Control
  - Failover
- FRU MANAGEMENT
- E-KEYING
- SENSORS
- COOLING MANAGEMENT
- POWER
- SYSTEM EVENT LOG
- LEDs
- LAN
- ALARMS
- ALERTING
- ADMINISTRATION
- RUN COMMAND
- HELP
- VERSION

The main content area is titled "Location Information". It features a search form with fields for "IPMB Address" (with a dropdown menu), "FRU ID", "Select a Type" (dropdown menu), and "Site Number". Below the form is a "Submit" button. The bottom right corner of the interface includes a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 5: Location Information

Associated CLI Command(s): `get_location_info`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Numbers</b>
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 3: Location Information applicable target FRUs

## 4.1.7 Diagnostics

Description: run system diagnostics and display the results for all FRUs (default) or a given FRU within the Carrier

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A left sidebar contains a navigation menu with sections like SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The main content area is titled "Diagnostics". It features a search form with fields for IPMB Address, FRU ID, Select a Type, Site Number, and a Verbose checkbox, along with a "Submit" button. A watermark of a stylized eye is visible in the background of the main content area.

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Figure 6: Diagnostics

Associated CLI Command(s): `get_diagnostics`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Numbers</b>
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 4: Diagnostics applicable target FRUs

#### 4.1.8 Check IPMB-0 Status

Description: display the IPMB-0 sensor statuses for the Carrier  
Associated CLI Command(s): `check_ipmb0_status`

#### 4.1.9 IPMB-0 Status

Description: display the IPMB-0 sensor readings for Carrier IPMB-0 sensors  
Associated CLI Command(s): `get_ipmb0_status`

#### 4.1.10 Address Table

Description: display the Carrier address table information for a given site type or all (default) site types

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top, there is a logo for 'vadatech inc' with the tagline 'THE POWER OF VISION'. Below the logo is a navigation menu on the left side with the following categories and links:

- SYSTEM MANAGEMENT**
  - FRU Population
  - Module Population
  - Activation Sequence
  - Health
  - Update Carrier Number
  - Location Information
  - Diagnostics
  - Check IPMB-0 Status
  - IPMB-0 Status
  - Address Table** (highlighted)
  - Chassis Control
  - Failover
- FRU MANAGEMENT**
- E-KEYING**
- SENSORS**
- COOLING MANAGEMENT**
- POWER**
- SYSTEM EVENT LOG**
- LEDs**
- LAN**
- ALARMS**
- ALERTING**
- ADMINISTRATION**
- RUN COMMAND**
- HELP**
- VERSION**

The main content area is titled 'Address Table'. It contains a dropdown menu labeled 'Select a Type' and a 'Submit' button. The background features a large, faint watermark of a stylized eye.

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Figure 7: Address Table

Associated CLI Command(s): `get_address_table`

**Applicable Target Site Types:**

Entity	Site Type
MCH	0Ah
AMC	07h
CU	04h
PM	0Bh

Table 5: Address Table applicable target site types

#### 4.1.11 Chassis Control

Description: change the power state of the Carrier or issue a diagnostic interrupt

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". The left sidebar contains a navigation menu with the following items: SYSTEM MANAGEMENT (FRU Population, Module Population, Activation Sequence, Health, Update Carrier Number, Location Information, Diagnostics, Check IPMB-0 Status, IPMB-0 Status, Address Table, Chassis Control, Failover); FRU MANAGEMENT; E-KEYING; SENSORS; COOLING MANAGEMENT; POWER; SYSTEM EVENT LOG; LEDs; LAN; ALARMS; ALERTING; ADMINISTRATION; RUN COMMAND; HELP; and VERSION. The "Chassis Control" item is highlighted in the SYSTEM MANAGEMENT section. The main content area is titled "Chassis Control" and contains a form with a list of options: Power Down (radio button selected), Power Up, Hard Reset, Diagnostic Interrupt, and Soft Shutdown. Below the list is a "Submit" button. At the bottom of the page is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 8: Chassis Control

Associated CLI Command(s): `chassis_control`

## 4.1.12 Failover

Description: transfer control of the MicroTCA Carrier from the active MCH to the backup MCH

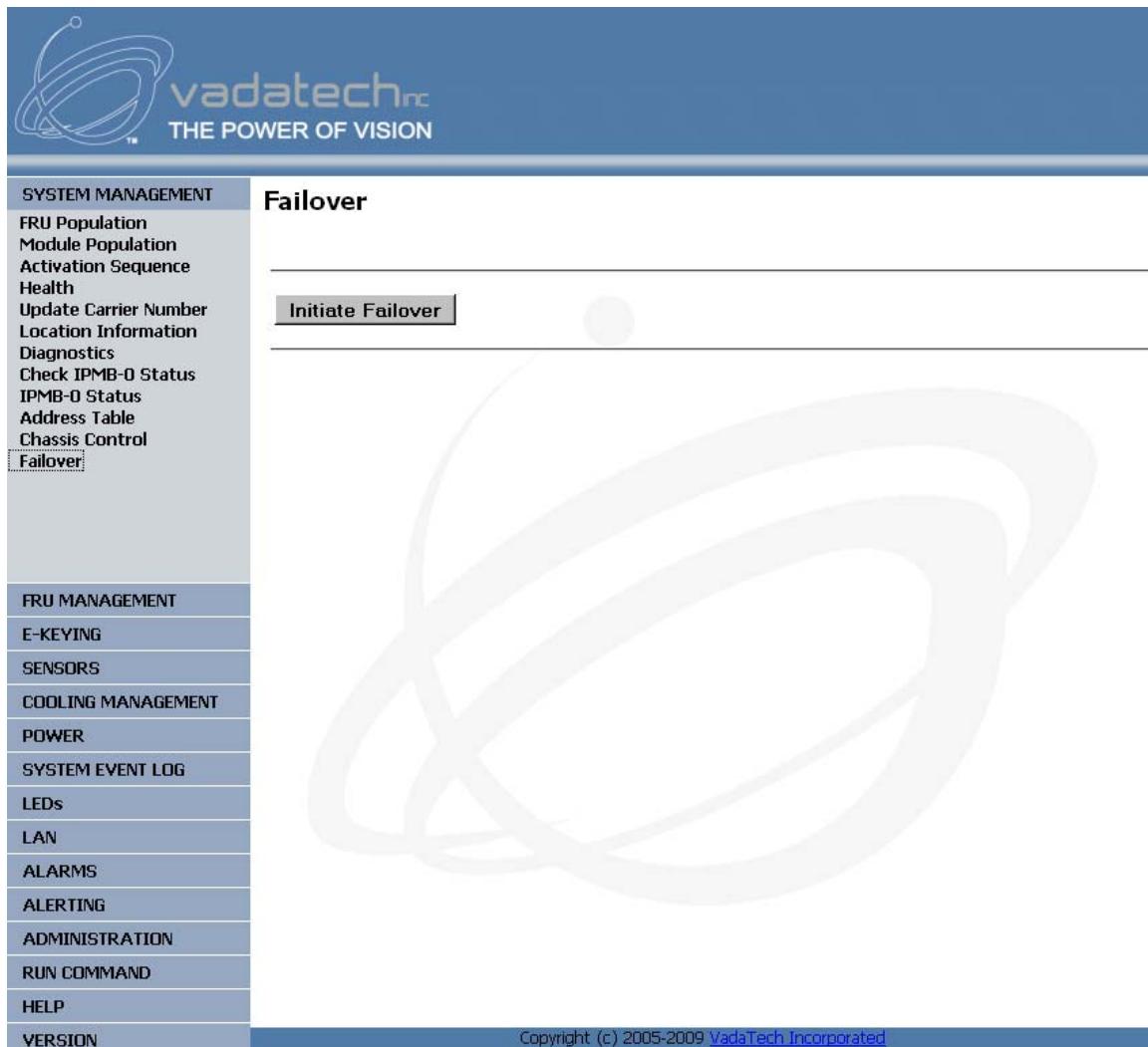


Figure 9: Failover

Associated CLI Command(s): `failover`

## 4.2 FRU Management

This section covers the commands associated with FRU management, as listed in the **FRU Management** menu.

### 4.2.1 FRU Hotswap

Description: activate, deactivate, or extract a given FRU, bringing the FRU to the M4 state, M1 state, or removing it entirely, respectively

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top header features the VadaTech logo and the tagline "THE POWER OF VISION". The left sidebar contains a navigation menu with the following categories and sub-options:

- SYSTEM MANAGEMENT
- FRU MANAGEMENT
  - FRU Hotswap
  - FRU State
  - FRU Address Information
  - List FRU Inventory Devices
  - Read FRU Inventory
  - FRU Control
  - List SDR Records
  - List Device SDR Records
  - Get FRU Power Levels
  - Set FRU Power Levels
  - Update FRU Version
  - FRU Temperature
  - FRU Activation Policy
  - Module Information
  - Device ID
  - Get Event Receiver
  - Set Event Receiver
- E-KEYING
- SENSORS
- COOLING MANAGEMENT
- POWER
- SYSTEM EVENT LOG
- LEDs
- LAN
- ALARMS
- ALERTING
- ADMINISTRATION
- RUN COMMAND
- HELP
- VERSION

The main content area is titled "FRU Hotswap". It includes a form with the following fields:

- A dropdown menu labeled "Select an Action".
- Input fields for "IPMB Address" and "FRU ID".
- A separator labeled "--OR--".
- A dropdown menu labeled "Select a Type".
- An input field for "Site Number".
- A "Submit" button.

At the bottom of the page, a copyright notice reads "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 10: FRU Hotswap

Associated CLI Command(s):    **activate**  
                                 **deactivate**  
                                 **set\_fru\_extracted**

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Type	Site Number
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 6: FRU hotswap applicable target FRUs

## 4.2.2 FRU State

Description: display the hotswap information for a given FRU

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the slogan "THE POWER OF VISION". A vertical sidebar on the left contains a menu with the following items: SYSTEM MANAGEMENT, FRU MANAGEMENT, FRU Hotswap, FRU State (which is selected and highlighted in blue), FRU Address Information, List FRU Inventory Devices, Read FRU Inventory, FRU Control, List SDR Records, List Device SDR Records, Get FRU Power Levels, Set FRU Power Levels, Update FRU Version, FRU Temperature, FRU Activation Policy, Module Information, Device ID, Get Event Receiver, Set Event Receiver, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The main content area is titled "FRU State". It features a search form with fields for "IPMB Address" (with two input boxes), "Select a Type" (a dropdown menu), "FRU ID" (with one input box), "--OR--" (text), and "Site Number" (with one input box). Below the search form is a "Submit" button. At the bottom of the page, a copyright notice reads "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 11: FRU State

Associated CLI Command(s): `get_fru_state`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Number</b>
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 7: FRU State applicable target FRUs

### 4.2.3 FRU Address Information

Description: display a given FRU's addressing information

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the slogan "THE POWER OF VISION". The left sidebar contains a vertical menu with the following categories and sub-options:

- SYSTEM MANAGEMENT
- FRU MANAGEMENT
  - FRU Hotswap
  - FRU State
  - FRU Address Information** (highlighted)
  - List FRU Inventory Devices
  - Read FRU Inventory
  - FRU Control
  - List SDR Records
  - List Device SDR Records
  - Get FRU Power Levels
  - Set FRU Power Levels
  - Update FRU Version
  - FRU Temperature
  - FRU Activation Policy
  - Module Information
  - Device ID
  - Get Event Receiver
  - Set Event Receiver
- E-KEYING
- SENSORS
- COOLING MANAGEMENT
- POWER
- SYSTEM EVENT LOG
- LEDs
- LAN
- ALARMS
- ALERTING
- ADMINISTRATION
- RUN COMMAND
- HELP
- VERSION

The main content area is titled "FRU Address Information". It features a search form with fields for "IPMB Address" (two input boxes), "Select a Type" (a dropdown menu), "FRU ID" (one input box), "--OR--" (text), and "Site Number" (one input box). Below the form is a "Submit" button. At the bottom of the page, a copyright notice reads "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 12: FRU Address Information

Associated CLI Command(s): `get_address_info`

**Applicable Target FRUs:**

Entity	Access Address	Slave Address	FRU ID(s)	Site Type	Site Numbers
Carrier Manager	20h	20h	0	N/A	N/A
MCH	20h	10h – 12h	3 - 4	0Ah	1 – 2
AMC	20h	72h – 90h	5 – 16	07h	1 – 12
CU	20h	A8h – AAh	40 - 41	04h	1 – 2
PM	20h	C2h – C8h	50 - 53	0Bh	1 – 4

Table 8: FRU Address Information applicable target FRUs

#### 4.2.4 List FRU Inventory Devices

Description: display a list of all the FRU Inventory Devices located in the Carrier

Associated CLI Command(s): `list_fru_storages`

## 4.2.5 Read FRU Inventory

Description: display content from a given FRU's FRU Inventory Device

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the slogan "THE POWER OF VISION". The left sidebar contains a hierarchical menu of management functions. The main content area is titled "Read FRU Inventory". It features several input fields: "IPMB Address" and "FRU ID" (both with dropdown menus), "Select a Type" (dropdown menu), and "Site Number" (input field). Below these are "Filter By" checkboxes for "Board Info", "Chassis Info", "Product Info", and "Multi Record Area". A large scrollable dropdown menu lists various OEM and Module Current Requirement options. At the bottom of the form are checkboxes for "Dump Raw" and "Submit". The footer contains copyright information: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 13: Read FRU Inventory

Associated CLI Command(s): `read_fru_storage`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Number(s)</b>
Carrier Manager	20h	0	N/A	N/A
Physical Shelf FRU Info 1	20h	1	N/A	N/A
Physical Shelf FRU Info 2	20h	2	N/A	N/A
Logical Carrier FRU Info	20h	253	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 9: Read FRU Inventory Device applicable target FRUs

## 4.2.6 FRU Control

Description: control a given FRU's payload

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the slogan "THE POWER OF VISION". The left sidebar contains a hierarchical menu with sections like SYSTEM MANAGEMENT, FRU MANAGEMENT, COOLING MANAGEMENT, POWER, and HELP. The main content area is titled "FRU Control". It features a form with fields for IPMB Address, FRU ID, and Site Number, along with dropdown menus for selecting a type and performing various actions. A list of reset options is provided, with "Cold Reset" selected. A "Submit" button is at the bottom of the form. The footer contains copyright information: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 14: FRU Control

Associated CLI Command(s): `fru_control`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Number</b>
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 10: FRU Control applicable target FRUs

#### 4.2.7 List SDRs

Description: display a list of SDRs in the Carrier SDR Repository  
Associated CLI Command(s): `list_sdr`

## 4.2.8 List Device SDR Records

Description: display a list of device SDRs in a given SDR repository

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A vertical navigation menu on the left includes categories like SYSTEM MANAGEMENT, FRU MANAGEMENT, COOLING MANAGEMENT, POWER, and HELP. Under the "List Device SDR Records" section in the menu, the "List Device SDR Records" option is selected. The main content area is titled "List Device SDR Records". It contains search fields for IPMB Address, FRU ID, Select a Type, and Site Number, with an "OR" operator between address and ID. A "Submit" button is at the bottom of the search form. The footer contains copyright information: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 15: List Device SDR Records

Associated CLI Command(s): `list_device_sdr`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Numbers</b>
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 11: List Device SDRs applicable target FRUs

## 4.2.9 Get FRU Power Levels

Description: display the power level for a given FRU

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top, there is a logo for 'vadatech inc' with the tagline 'THE POWER OF VISION'. A navigation menu on the left includes categories like SYSTEM MANAGEMENT, FRU MANAGEMENT, COOLING MANAGEMENT, POWER, and HELP. Under the 'FRU MANAGEMENT' category, 'Get FRU Power Levels' is highlighted. The main content area is titled 'Get FRU Power Levels'. It contains a search form with fields for 'IPMB Address' (with two input boxes), a dropdown menu 'Select a Type', and another dropdown menu 'FRU ID'. Below these is a 'Site Number' field and a 'Submit' button. A large watermark of a stylized eye is visible in the background of the form area.

Figure 16: Get FRU Power Levels

Associated CLI Command(s): `get_fru_power_levels`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Number</b>
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 12: Get FRU Power Levels applicable target FRUs

## 4.2.10 Set FRU Power Levels

Description: set a given FRU's power level

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the slogan "THE POWER OF VISION". The left sidebar contains a hierarchical menu of system management options, with "Set FRU Power Levels" highlighted. The main content area is titled "Set FRU Power Levels" and features a form with fields for IPMB Address, FRU ID, Select a Type, Site Number, and Power Level, along with a "Submit" button. A copyright notice at the bottom states "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 17: Set FRU Power Levels

Associated CLI Command(s): `set_fru_power_levels`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Number</b>
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 13: Set FRU Power Levels applicable target FRUs

## 4.2.11 Update FRU Version

Description: change the version number in the Product Info Area for a given FRU

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the slogan "THE POWER OF VISION". The left sidebar contains a hierarchical menu with sections like SYSTEM MANAGEMENT, FRU MANAGEMENT, COOLING MANAGEMENT, POWER, etc. The "Update FRU Version" option is highlighted under the FRU MANAGEMENT section. The main content area is titled "Update FRU Version". It features a search form with fields for IPMB Address, FRU ID, Select a Type, Site Number, and a "Version" input field. A "Submit" button is located below the form. A watermark of a stylized eye is visible in the background of the page.

Figure 18: Update FRU Version

Associated CLI Command(s): `update_fru_version`

**Applicable Target FRUs:**

Entity	Access Address	FRU ID(s)	Site Type	Site Number
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 14: Update FRU Version applicable target FRUs

## 4.2.12 FRU Temperature

Description: display the status of all temperature sensors for a given FRU

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the slogan "THE POWER OF VISION". The left sidebar contains a hierarchical menu with the following categories and sub-options:

- SYSTEM MANAGEMENT
- FRU MANAGEMENT
  - FRU Hotswap
  - FRU State
  - FRU Address Information
  - List FRU Inventory Devices
  - Read FRU Inventory
  - FRU Control
  - List SDR Records
  - List Device SDR Records
  - Get FRU Power Levels
  - Set FRU Power Levels
  - Update FRU Version
  - FRU Temperature** (selected)
  - FRU Activation Policy
  - Module Information
  - Device ID
  - Get Event Receiver
  - Set Event Receiver
- E-KEYING
- SENSORS
- COOLING MANAGEMENT
- POWER
- SYSTEM EVENT LOG
- LEDs
- LAN
- ALARMS
- ALERTING
- ADMINISTRATION
- RUN COMMAND
- HELP
- VERSION

The main content area is titled "FRU Temperature". It features a search form with fields for IPMB Address, FRU ID, Select a Type, Site Number, and Threshold, along with a "Submit" button. At the bottom of the page, a copyright notice reads "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 19: FRU Temperature

Associated CLI Command(s): `get_fru_temperature`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Number</b>
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 15: FRU Temperature applicable target FRUs

## 4.2.13 FRU Activation Policy

Description: display the activation policy for a given FRU (default is Carrier Manager)

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top header features the VadaTech logo and the tagline "THE POWER OF VISION". The left sidebar contains a vertical list of management options under "SYSTEM MANAGEMENT". The "FRU MANAGEMENT" section is expanded, listing various FRU-related commands. The "FRU Activation Policy" link is highlighted with a red box. The main content area is titled "FRU Activation Policy". It contains a search form with fields for "IPMB Address" (with two input boxes), a dropdown menu for "Select a Type", and another dropdown for "Site Number". Below the form is a "Submit" button. At the bottom of the page, a copyright notice reads "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 20: FRU Activation Policy

Associated CLI Command(s): `get_fru_activation_policy`

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Type	Site Numbers
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 16: FRU Activation Policy applicable target FRUs

## 4.2.14 Module Information

Description: display the configuration and hotswap information for a given Module

**Get Module Information**

---

IPMB Address:  --OR-- Select a Type

FRU ID:  Site Number:

Submit

---

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Figure 21: Module Information

Associated CLI Command(s): `get_module_info`

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Type	Site Numbers
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 17: Module Information applicable target FRUs



## 4.2.15 Device ID

Description: display a given FRU's device identifier information

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the slogan "THE POWER OF VISION". The left sidebar contains a hierarchical menu of management functions. The main content area is titled "Device ID" and contains a search form with fields for IPMB Address, FRU ID, Select a Type, and Site Number, along with an "OR" operator selector and a "Submit" button. A watermark of a stylized eye is visible in the background of the main content area.

SYSTEM MANAGEMENT	Device ID		
FRU MANAGEMENT			
FRU Hotswap			
FRU State			
FRU Address Information			
List FRU Inventory Devices			
Read FRU Inventory			
FRU Control			
List SDR Records			
List Device SDR Records			
Get FRU Power Levels			
Set FRU Power Levels			
Update FRU Version			
FRU Temperature			
FRU Activation Policy			
Module Information			
Device ID			
Get Event Receiver			
Set Event Receiver			
E-KEYING			
SENSORS			
COOLING MANAGEMENT			
POWER			
SYSTEM EVENT LOG			
LEDs			
LAN			
ALARMS			
ALERTING			
ADMINISTRATION			
RUN COMMAND			
HELP			
VERSION	Copyright (c) 2005-2009 <a href="#">VadaTech Incorporated</a>		

Figure 22: Device ID

Associated CLI Command(s): `get_device_id`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Number</b>
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 18: Device ID applicable target FRUs

## 4.2.16 Get Event Receiver

Description: display the location of the event receiver for a given FRU

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A vertical navigation menu on the left includes categories like SYSTEM MANAGEMENT, FRU MANAGEMENT, COOLING MANAGEMENT, POWER, and HELP. Under the "Get Event Receiver" section in the menu, "Get Event Receiver" is highlighted. The main content area has a title "Get Event Receiver" and a search form. The search form contains fields for "IPMB Address" (with two input boxes), a dropdown menu "Select a Type", a radio button group labeled "--OR--", a field for "FRU ID" (with one input box), and a field for "Site Number" (with one input box). Below the search form is a "Submit" button. A watermark of a stylized eye is visible in the background of the content area. At the bottom right of the page is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 23: Get Event Receiver

Associated CLI Command(s): `get_event_receiver`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Number</b>
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 19: Get Event Receiver applicable target FRUs

## 4.2.17 Set Event Receiver

Description: change the location of the event receiver for a given FRU

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the slogan "THE POWER OF VISION". The left sidebar contains a hierarchical menu with sections like SYSTEM MANAGEMENT, FRU MANAGEMENT, COOLING MANAGEMENT, POWER, and HELP. The "Set Event Receiver" option is highlighted in the "FRU MANAGEMENT" section. The main content area is titled "Set Event Receiver" and contains a form with fields for IPMB Address, FRU ID, Select a Type, Site Number, Receiver IPMB Address, and LUN, along with a "Submit" button. A copyright notice at the bottom states "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 24: Set Event Receiver

Associated CLI Command(s): `set_event_receiver`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Number</b>
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 20: Set Event Receiver applicable target FRUs

## 4.3 E-Keying

This section covers the commands associated with electronic keying, as listed in the **E-Keying** menu.

### 4.3.1 Carrier Point-To-Point

Description: display Carrier point-to-point connectivity information for the current Carrier  
Associated CLI Command(s): `get_carrier_ptp`

### 4.3.2 AMC Point-To-Point

Description: display AMC point-to-point connectivity information for a given AMC

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the tagline "THE POWER OF VISION". The left sidebar contains a vertical list of management categories: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The "AMC Point-To-Point" option under E-KEYING is currently selected. The main content area is titled "AMC Point-To-Point". It features a search form with fields for "IPMB Address" (with a dropdown menu for "Select a Type"), "FRU ID", "Site Type" (with a dropdown menu), and "Site Number". Below the form is a "Submit" button. At the bottom right of the main content area, there is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 25: AMC PTP Connectivity Information

Associated CLI Command(s): `get_amc_ptp`

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Type	Site Number
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12

Table 21: AMC PTP Connectivity Information applicable target FRUs

### 4.3.3 Port State

Description: display the link status for a given FRU at a given channel

The screenshot shows the 'Port State' page of the VadaTech MicroTCA Carrier Manager Web Interface. The left sidebar contains a vertical list of management categories: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The 'Port State' link under 'E-KEYING' is highlighted. The main content area has a title 'Port State' and a search form. The search form includes fields for IPMB Address, FRU ID, Site Number, Channel Number, and Device ID, with an 'OR' operator between FRU ID and Site Number. A 'Submit' button is located below the search form.

Figure 26: Port State

Associated CLI Command(s): `get_port_state`

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Type	Site Number
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12

Table 22: Port State applicable target FRUs

#### 4.3.4 Clock Point-To-Point

Description: display clock point-to-point information  
Associated CLI Command(s): `get_clock_ptp`

### 4.3.5 Clock Configuration

Description: display clock configuration descriptors for a given Module

Figure 27: Clock Configuration

Associated CLI Command(s): `get_clock_configuration`

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Type	Site Number
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12

Table 23: Clock Configuration applicable target FRUs

### 4.3.6 Get Clock State

Description: display clock status for a given clock on a given FRU

The screenshot shows the 'Get Clock State' page of the VadaTech MicroTCA Carrier Manager Web Interface. The left sidebar contains several navigation links: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The main content area is titled 'Get Clock State' and contains input fields for IPMB Address, FRU ID, Site Number, Clock ID, and Device ID, along with a 'Submit' button. A copyright notice at the bottom right states 'Copyright (c) 2005-2009 VadaTech Incorporated'.

Figure 28: Get Clock State

Associated CLI Command(s): `get_clock_state`

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Type	Site Number
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12

Table 24: Get Clock State applicable target FRUs

### 4.3.7 Set Clock State

Description: enable or disable a given clock on a given FRU

The screenshot shows the 'Set Clock State' configuration page. On the left is a vertical navigation menu with the following items:

- SYSTEM MANAGEMENT
- FRU MANAGEMENT
- E-KEYING
- Carrier Point-To-Point
- AMC Point-To-Point
- Port State
- Clock Point-To-Point
- Clock Configuration
- Get Clock State**
- Set Clock State**
- SENSORS
- COOLING MANAGEMENT
- POWER
- SYSTEM EVENT LOG
- LEDs
- LAN
- ALARMS
- ALERTING
- ADMINISTRATION
- RUN COMMAND
- HELP
- VERSION

The main content area is titled 'Set Clock State'. It contains several input fields and radio buttons:

- IPMB Address: [ ] OR Select a Type: [ ]
- FRU ID: [ ] Site Number: [ ]
- Clock ID: [ ] Device ID: [ ]
- PLL**
  - Default
  - Use
  - Bypass
- Clock Role**
  - Clock Source
  - Clock Receiver
- Enable
- Disable
- Clock Family: [ ] Accuracy: [ ]
- Frequency: [ ]  Hz  KHz  MHz

A 'Submit' button is located at the bottom of the form.

Figure 29: Set Clock State

Associated CLI Command(s): `set_clock_state`

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Type	Site Number
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12

Table 25: Set Clock State applicable target FRUs

## 4.4 Sensors

This section covers the commands associated with sensors, as listed in the **Sensors** menu.

### 4.4.1 List Sensors

Description: display a list of sensors in the MicroTCA Carrier Manager

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A navigation menu on the left includes links for SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS (which is selected), COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The main content area is titled "List Sensors". It contains input fields for "LUN:" (with a dropdown menu), "Sensor Type:" (with a dropdown menu), and "Display Raw Readings: ". Below these is a "Submit" button. At the bottom right of the content area is the copyright notice "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 30: List Sensors

Associated CLI Command(s): `list_sensors`

## 4.4.2 Sensor Information

Description: display sensor information for a given sensor, or for an optionally filtered list of sensors in the MicroTCA Carrier

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top, there is a logo and the text "vadatech inc THE POWER OF VISION". On the left, a vertical navigation menu lists various management categories: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The "SENSORS" category is expanded, showing sub-options: List Sensors, Sensor Information (which is selected and highlighted in yellow), Sensor Reading, Get Sensor Event Enables, Set Sensor Event Enables, Get Sensor Thresholds, Set Sensor Thresholds, Get Sensor Hysteresis, and Set Sensor Hysteresis. The main content area is titled "Sensor Information". It contains input fields for "LUN:" (with a dropdown menu), "Sensor Type:" (with a dropdown menu), and "Sensor Number:" (with a dropdown menu). There is also a checkbox labeled "Dump Raw" and a "Submit" button. At the bottom right of the content area, there is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 31: Sensor Information

Associated CLI Command(s): `get_sensor_info`

### 4.4.3 Sensor Reading

Description: display the sensor reading for a given sensor or for an optionally filtered list of sensors in the MicroTCA Carrier

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top, there is a logo and the text "vadatech<sub>inc</sub> THE POWER OF VISION". On the left, a vertical navigation menu lists various management categories: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The "SENSORS" category is expanded, showing sub-options: List Sensors, Sensor Information, and Sensor Reading. The "Sensor Reading" option is highlighted with a dashed border. The main content area has a title "Sensor Reading" and contains three input fields: "LUN:" with a dropdown menu, "Sensor Type:" with a dropdown menu, and "Sensor Number:" with a dropdown menu. Below these fields is a "Submit" button. At the bottom of the page, a copyright notice reads "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 32: Sensor Reading

Associated CLI Command(s): `get_sensor_reading`

#### 4.4.4 Get Sensor Event Enables

Description: display sensor event generation capabilities for a given sensor or for an optionally filtered list of sensors in the MicroTCA Carrier

The screenshot shows a web-based management interface for a MicroTCA Carrier. At the top is a blue header bar with the VadaTech logo and slogan "THE POWER OF VISION". Below the header is a left sidebar menu with a tree-like navigation structure. The "SENSORS" section is expanded, showing options like "List Sensors", "Sensor Information", "Sensor Reading", "Get Sensor Event Enables" (which is selected and highlighted in blue), "Set Sensor Event Enables", "Get Sensor Thresholds", "Set Sensor Thresholds", "Get Sensor Hysteresis", and "Set Sensor Hysteresis". Other sections in the sidebar include "SYSTEM MANAGEMENT", "FRU MANAGEMENT", "E-KEYING", "COOLING MANAGEMENT", "POWER", "SYSTEM EVENT LOG", "LEDs", "LAN", "ALARMS", "ALERTING", "ADMINISTRATION", "RUN COMMAND", "HELP", and "VERSION". The main content area has a title "Get Sensor Event Enables" and contains three input fields: "LUN:" with a dropdown menu, "Sensor Type:" with a dropdown menu, and "Sensor Number:" with a dropdown menu. Below these fields is a "Submit" button. At the bottom of the page is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 33: Get Sensor Event Enables

Associated CLI Command(s): `get_sensor_event_enable`

#### 4.4.5 Set Sensor Event Enables

Description: set event generation capabilities for a given sensor

The screenshot shows a web-based management interface for a VadaTech MicroTCA system. The top navigation bar includes the company logo and the slogan "THE POWER OF VISION". A vertical sidebar on the left contains a menu with several sections: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The "SENSORS" section is currently selected. Under "SENSORS", the following sub-options are listed: List Sensors, Sensor Information, Sensor Reading, Get Sensor Event Enables, Set Sensor Event Enables (which is highlighted), Get Sensor Thresholds, Set Sensor Thresholds, Get Sensor Hysteresis, and Set Sensor Hysteresis. The main content area is titled "Set Sensor Event Enables". It contains several configuration fields: LUN (with two input boxes), Sensor Number (with two input boxes), Event Messaging (radio buttons for Yes or No), Sensor Scanning (radio buttons for Yes or No), Individual Event (radio buttons for Enable or Disable), Assertion Mask (per Individual Event) (input box), and Deassert Mask (per Individual Event) (input box). A "Submit" button is located below these fields. At the bottom of the page, there is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 34: Set Sensor Event Enables

Associated CLI Command(s): `set_sensor_event_enable`

## 4.4.6 Get Sensor Thresholds

Description: display sensor threshold values for a given sensor, or for an optionally filtered list of sensors in the MicroTCA Carrier

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A vertical navigation menu on the left includes categories like SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. Under the SENSORS category, "Get Sensor Thresholds" is selected. The main content area is titled "Get Sensor Thresholds" and contains input fields for LUN (with a dropdown menu), Sensor Type (with a dropdown menu), and Sensor Number (with a dropdown menu). A "Submit" button is at the bottom of the form. The footer contains copyright information: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 35: Get Sensor Thresholds

Associated CLI Command(s): `get_sensor_threshold`

#### 4.4.7 Set Sensor Thresholds

Description: set sensor threshold values for a given sensor

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A vertical navigation menu on the left includes: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS (which is selected), COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The main content area is titled "Set Sensor Thresholds". It contains a form with fields for LUN, Sensor Number, and various threshold levels (Low Non Critical, Low Critical, Low Non Recoverable, Upper Non Critical, Upper Critical, Upper Non Recoverable) each with an associated input field. A "Submit" button is at the bottom of the form. At the bottom right of the page is the copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 36: Set Sensor Thresholds

Associated CLI Command(s): `set_sensor_threshold`

#### 4.4.8 Get Sensor Hysteresis

Description: display sensor hysteresis values for a given sensor or for an optionally filtered list of sensors in the MicroTCA Carrier

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A vertical navigation menu on the left includes categories like SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. Under the SENSORS category, "Get Sensor Hysteresis" is highlighted. The main content area is titled "Get Sensor Hysteresis" and contains three input fields: "LUN:" with a dropdown menu, "Sensor Type:" with a dropdown menu, and "Sensor Number:" with a dropdown menu. Below these fields is a "Submit" button. At the bottom of the page is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 37: Get Sensor Hysteresis

Associated CLI Command(s): `get_sensor_hysteresis`

#### 4.4.9 Set Sensor Hysteresis

Description: set sensor hysteresis values for a given sensor

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A vertical navigation menu on the left includes categories like SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The SENSORS category is currently selected. The main content area is titled "Set Sensor Hysteresis". It contains input fields for LUN (with a dropdown menu), Sensor Number (dropdown), Positive-Going Hysteresis (text input), and Negative-Going Hysteresis (text input). Below these is a "Submit" button. At the bottom right of the content area is the copyright notice "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 38: Set Sensor Hysteresis

Associated CLI Command(s): `set_sensor_hysteresis`

## 4.5 Cooling Management

This section covers the commands associated with Cooling Management, as listed in the **Cooling Management** menu.

### 4.5.1 Fan Tray Population

Description: display the locations of all Fan Trays installed in the Carrier  
Associated CLI Command(s): `list_fan_trays`

## 4.5.2 Get Fan Geography

Description: display the Fan Tray to FRU connections  
Associated CLI Command(s): `get_fan_geography`

### 4.5.3 Get Fan Level

Description: display the current Fan Tray fan operating speed level

The screenshot shows the 'Get Fan Level' page of the VadaTech MicroTCA Carrier Manager Web Interface. The left sidebar contains a vertical list of management categories: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The 'SENSORS' category is currently selected. The main content area features a title 'Get Fan Level' and a search form. The search form includes three input fields: 'IPMB Address' (with two input boxes), a separator 'OR', and 'Site Number' (with one input box). Below the search form is a 'Submit' button. At the bottom of the page, a copyright notice reads 'Copyright (c) 2005-2009 VadaTech Incorporated'.

Figure 39: Get Fan Level

Associated CLI Command(s): `get_fan_level`

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Number
CU	20h	40 - 41	1 - 2

Table 26: Get Fan Level applicable target FRUs

#### 4.5.4 Set Fan Level

Description: set the current operating fan speed level for a given Fan Tray

The screenshot shows the 'Set Fan Level' page of the VadaTech MicroTCA Carrier Manager Web Interface. The left sidebar contains a vertical list of management categories: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The 'COOLING MANAGEMENT' section is expanded, showing sub-options: Fan Tray Population, Get Fan Geography, Get Fan Level, Set Fan Level, Get Fan Information, Get Cooling Parameters, and Set Cooling Parameters. The 'Set Fan Level' option is highlighted with a blue border. The main content area has a title 'Set Fan Level'. Below it is a form with three input fields: 'IPMB Address' (with two input boxes), a separator '---OR---', and 'Site Number' (with one input box). Below these is another input field 'Fan Level' (with one input box). At the bottom of the form is a 'Submit' button.

Figure 40: Set Fan Level

Associated CLI Command(s): `set_fan_level`

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Number
CU	20h	40 - 41	1 - 2

Table 27: Set Fan Level applicable target FRUs

### 4.5.5 Fan Information

Description: display the Fan Tray properties and hotswap status

The screenshot shows the 'Fan Information' page of the VadaTech MicroTCA Carrier Manager Web Interface. The left sidebar contains a navigation menu with several sections: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The 'COOLING MANAGEMENT' section is expanded, and 'Get Fan Information' is highlighted with a blue background. The main content area is titled 'Fan Information' and contains input fields for 'IPMB Address' (with two input boxes), 'FRU ID' (with one input box), and 'Site Number' (with one input box). A 'Submit' button is located below these fields. At the bottom right of the main content area, there is a copyright notice: 'Copyright (c) 2005-2009 VadaTech Incorporated'.

Figure 41: Get Fan Info

Associated CLI Command(s): `get_fan_info`

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Number
CU	20h	40 - 41	1 - 2

Table 28: Get Fan Info applicable target FRUs

## 4.5.6 Get Cooling Parameters

Description: display the Carrier cooling management parameters  
Associated CLI Command(s): `get_cooling_parameters`

## 4.5.7 Set Cooling Parameters

Description: set the Carrier cooling management parameters

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A vertical navigation menu on the left includes: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT (which is expanded to show Fan Tray Population, Get Fan Geography, Get Fan Level, Set Fan Level, Get Fan Information, Get Cooling Parameters, and Set Cooling Parameters), POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The main content area is titled "Set Cooling Parameters". It contains several input fields with dropdown menus: "Normal Level", "Increment Level", "Decrement Level", "Readiness Allowance (seconds)", and "Monitor Cycle (seconds)". Below these are two radio buttons: "Enable" and "Disable". At the bottom of the form is a "Submit" button. The footer contains the copyright notice "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 42: Set Cooling Parameters

Associated CLI Command(s): `set_cooling_parameters`

## 4.6 Power

This section covers the commands associated with power, as listed in the **Power** menu.

### 4.6.1 Power Feed Information

Description: display the power information for a given Power Module

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes links for SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The POWER menu item is currently selected. The main content area is titled "Power Feed Information". It features a search bar with fields for IPMB Address, FRU ID, and Site Number, along with a "Submit" button. A watermark of a stylized eye is visible in the background of the form area. At the bottom of the page, there is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 43: Power Feed Information

Associated CLI Command(s): `get_power_feed_info`

**Applicable Target FRUs:**

Entity	Access Address	FRU ID(s)	Site Numbers
PM	20h	50 - 53	1 - 4

Table 29: Power Feed Information applicable target FRUs

## 4.6.2 Power Management Information

Description: display the FRU activation sequence for the Carrier  
Associated CLI Command(s): `get_power_management_info`

### 4.6.3 Power Feed Status

Description: display the status information for a given Power Module (requires a redundant Power Module)

**Power Feed Status**

IPMB Address:  --OR-- Site Number:   
FRU ID:

Submit

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Figure 44: Power Feed Status

Associated CLI Command(s): `get_power_feed_status`

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Numbers
PM	20h	50 - 53	1 - 4

Table 30: Power Feed Status applicable target FRUs

## 4.6.4 Power Channel Status

Description: display global and local power status information for a given channel or for all channels (default) on a given Power Module

The screenshot shows the 'Power Channel Status' page of the VadaTech MicroTCA Carrier Manager Web Interface. The left sidebar contains a navigation menu with the following items:

- SYSTEM MANAGEMENT
- FRU MANAGEMENT
- E-KEYING
- SENSORS
- COOLING MANAGEMENT
- POWER**
- Power Feed Info
- Power Management Information
- Power Feed Status
- Power Channel Status** (highlighted)
- Power Feed Reset
- Power Feed Control
- Power Policy

The main content area is titled 'Power Channel Status'. It features a search form with fields for IPMB Address, FRU ID, Site Number, and Channel Number, along with a 'Submit' button.

Figure 45: Power Channel Status

Associated CLI Command(s): `get_power_channel_status`

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Numbers
PM	20h	50 - 53	1 - 4

Table 31: Power Channel Status applicable target FRUs

## 4.6.5 Power Feed Reset

Description: reset a given Power Module by a given backup Power Module (requires a redundant Power Module)

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the tagline "THE POWER OF VISION". The left sidebar contains a navigation menu with the following items under the "POWER" section:

- Power Feed Info
- Power Management Information
- Power Feed Reset** (selected)
- Power Feed Control
- Power Policy

The main content area is titled "Power Feed Reset". It contains two input fields: "FRU ID of Power Feed to Handle Reset:" and "Site Number Of Power Feed to Handle Reset:". Below these is another pair of fields: "FRU ID of Power Feed to Reset:" and "Site Number Of Power Feed to Reset:". A "Submit" button is located at the bottom of the form.

Figure 46: Power Feed Reset

Associated CLI Command(s): `power_feed_reset`

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Numbers
PM	20h	50 - 53	1 - 4

Table 32: Power Feed Reset applicable target FRUs

## 4.6.6 Power Feed Control

Description: send a Chassis control request to a given Power Module

**Power Feed Control**

IPMB Address:  OR Site Number:   
FRU ID:

Power Down  
 Power Up  
 Hard Reset  
 Diagnostic Interrupt  
 Soft Shutdown

Submit

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Figure 47: Power Feed Control

Associated CLI Command(s): `power_feed_control`

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Numbers
PM	20h	50 - 53	1 - 4

Table 33: Power Feed Control applicable target FRUs

## 4.6.7 Power Policy

Description: display the power policy configuration for the Carrier

Associated CLI Command(s): `get_power_policy`

## 4.7 System Event Log

This section covers the commands associated with System Event Logs (SELs), as listed in the **System Event Log** menu.

### 4.7.1 SEL Allocation Info

Description: display information about the Carrier Manager's SEL  
Associated CLI Command(s): `get_sel_info`

## 4.7.2 Query SEL Event

Description: display the contents of a given SEL item, or all items in an SEL on a given FRU, filtered by sensor type, physical location, and/or sensor number

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top, there is a logo for 'vadatech inc' with the tagline 'THE POWER OF VISION'. On the left, a vertical navigation menu lists various management categories: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, SEL Allocation Information, Query SEL Event (which is highlighted), and SEL Clear. Below this menu, another set of links includes LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The main content area is titled 'Query SEL Event'. It contains several input fields and dropdown menus for filtering SEL data. These include fields for IPMB Address, FRU ID, Site Number, Sensor Type, FRU IPMB Address, Sensor Number, Item Number, Verbose, and Dump Raw. There are also 'OR' operators between some of these fields. At the bottom of the form is a 'Submit' button. A copyright notice at the very bottom of the page reads 'Copyright (c) 2005-2009 VadaTech Incorporated'.

Figure 48: Query SEL Event

Associated CLI Command(s): `get_sel`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>Site Type</b>	<b>Site Number</b>
Carrier Manager	20h	N/A	N/A
MCH	20h	0Ah	1 - 2
AMC	20h	07h	1 - 12
CU	20h	04h	1 - 2
PM	20h	0Bh	1 - 4

Table 34: Query SEL Event applicable target FRUs

### 4.7.3 SEL Clear

Description: erase the contents of the SEL on a given FRU

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the slogan "THE POWER OF VISION". The left sidebar contains a vertical menu with the following items: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, SEL Allocation Information, Query SEL Event, and SEL Clear (which is highlighted). The main content area is titled "SEL Clear". It features a search form with fields for IPMB Address, FRU ID, Select a Type, and Site Number, along with an "OR" operator. A "Submit" button is located below the form. At the bottom of the page, there is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 49: SEL Clear

Associated CLI Command(s): `clear_sel`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>Site Type</b>	<b>Site Number</b>
Carrier Manager	20h	N/A	N/A
MCH	20h	0Ah	1 - 2
AMC	20h	07h	1 - 12
CU	20h	04h	1 - 2
PM	20h	0Bh	1 - 4

Table 35: SEL Clear applicable target FRUs

## 4.8 LEDs

This section covers the commands associated with LEDs, as listed in the **LEDs** menu.

### 4.8.1 LED Color Capabilities

Description: display a list of LEDs and the colors supported by each for a given FRU  
(default is Carrier Manager)

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes links for SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, and LEDs. The LEDs link is currently selected, and its sub-menu shows options for LED Color Capabilities, Led Properties, Get LED State, and Set LED State. The main content area is titled "LED Color Capabilities". It features a search form with fields for IPMB Address, FRU ID, Select a Type, Site Number, and LED ID, along with an "OR" option. A "Submit" button is located below the search form. The bottom of the page includes copyright information: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 50: LED Color Capabilities

Associated CLI Command(s): `get_led_color_capabilities`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Number</b>
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 36: LED Color Capabilities applicable target FRUs

## 4.8.2 LED Properties

Description: display a list of LEDs controlled by a given FRU (default is Carrier Manager)

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the tagline "THE POWER OF VISION". The left sidebar contains a vertical menu with the following items: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, and LEDs. Under the LEDs section, "Led Properties" is highlighted. Below the menu, there is a search bar with fields for IPMB Address, FRU ID, Select a Type, and Site Number, along with an "OR" option. A "Submit" button is located below the search bar. At the bottom of the page, a copyright notice reads "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 51: LED Properties

Associated CLI Command(s): `get_led_properties`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Number</b>
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 37: LED Properties applicable target FRUs

### 4.8.3 Get LED State

Description: display the state of a given LED on a given FRU

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A navigation menu on the left includes links for SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, and LEDs. Under the LEDs link, "Get LED State" is highlighted. The main content area is titled "Get LED State". It contains a search form with fields for IPMB Address, FRU ID, Select a Type, Site Number, and LED ID, along with an "OR" option. Below the form is a "Submit" button. At the bottom of the page is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 52: Get LED State

Associated CLI Command(s): `get_led_state`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Number</b>
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 38: Get LED State applicable target FRUs

#### 4.8.4 Set LED State

Description: set the state of a given LED on a given FRU

The screenshot shows the 'Set LED State' page of the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes links for SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, and LEDs. Under the LEDs section, 'Set LED State' is selected. The main content area is titled 'Set LED State'. It contains fields for IPMB Address, FRU ID, Select a Type, Site Number, LED ID, and several radio button options for LED control. Below these are fields for LED On Duration and LED Off Duration. A 'Submit' button is at the bottom. The bottom navigation bar includes links for LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. Copyright information for VadaTech Incorporated is also present.

Figure 53: Set LED State

Associated CLI Command(s): `set_led_state`

**Applicable Target FRUs:**

<b>Entity</b>	<b>Access Address</b>	<b>FRU ID(s)</b>	<b>Site Type</b>	<b>Site Number</b>
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 39: Set LED State applicable target FRUs

## 4.9 LAN

This section covers the commands associated with the LAN, as listed in the **LAN** menu.

### 4.9.1 Get LAN Configuration

Description: display local area network parameters for a given channel

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A vertical navigation bar on the left lists various management categories: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, Get LAN Configuration, Set LAN Configuration, Get Channel Access, Set Channel Access, List Channel Cipher Suites, Channel Information, List Active Sessions, Session Information, Get IP Connection, Set IP Connection, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The "Get LAN Configuration" link is currently selected. The main content area is titled "Get LAN Configuration" and contains a form with fields for "Channel Number" (with an input field), "Parameter" (with three input fields), "Set" (with an input field), "Revision" (with an input field), and "Dump Raw" (with a checkbox). Below the form is a "Submit" button. At the bottom of the page is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 54: LAN Configuration

Associated CLI Command(s): `get_lan_config_parameters`

## 4.9.2 Set LAN Configuration

Description: configure local area network parameters for a given channel

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A vertical navigation menu on the left includes links for SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, Get LAN Configuration, Set LAN Configuration, Get Channel Access, Set Channel Access, List Channel Cipher Suites, Channel Information, List Active Sessions, Session Information, Get IP Connection, Set IP Connection, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The "Set LAN Configuration" link is currently selected. The main content area is titled "Set LAN Configuration" and contains a form with fields for Channel Number, Parameter, Data, and String, each with an associated input box. Below the form is a "Submit" button. At the bottom right of the content area is the copyright notice "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 55: Set LAN Configuration

Associated CLI Command(s): `set_lan_config_parameters`

### 4.9.3 Get Channel Access

Description: display whether a given channel is enabled or disabled, whether alerting is enabled or disabled, and under which system modes the channel can be accessed

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A vertical navigation menu on the left includes links for SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN (which is expanded to show sub-links: Get LAN Configuration, Set LAN Configuration, Get Channel Access, Set Channel Access, List Channel Cipher Suites, Channel Information, List Active Sessions, Session Information, Get IP Connection, and Set IP Connection), ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The main content area is titled "Get Channel Access" and contains two input fields: "Channel Number:" with a text input field and "Non-Volatile:" with a checked checkbox. Below these is a "Submit" button. At the bottom right of the main content area is the copyright notice "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 56: Get Channel Access

Associated CLI Command(s): `get_channel_access`

#### 4.9.4 Set Channel Access

Description: update a given channel to be enabled or disabled, to have alerting enabled or disabled, and/or to a given maximum privilege level limit

**Set Channel Access**

Channel Number:

Privilege Level:

PEF Enable:  Enable  Disable

Per-Message Authorization:  Enable  Disable

User-Level Authorization:  Enable  Disable

Non-Volatile:

Submit

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Figure 57: Set Channel Access

Associated CLI Command(s): `set_channel_access`

#### 4.9.5 List Channel Cipher Suites

Description: display supported authentication, integrity, and confidentiality algorithms for a given channel

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo and slogan "THE POWER OF VISION". A vertical navigation menu on the left includes links for SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, and VERSION. Under the LAN section, "List Channel Cipher Suites" is highlighted. The main content area is titled "List Channel Cipher Suites" and contains a form with fields for "Channel Number:" and "All:", both with checkboxes, and a "Submit" button. At the bottom right of the content area is the copyright notice "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 58: List Channel Cipher Suites

Associated CLI Command(s): `get_channel_cipher_suites`

#### 4.9.6 Channel Information

Description: display media and protocol information about a given channel

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is a blue header bar with the VadaTech logo and the slogan "THE POWER OF VISION". Below the header is a navigation menu on the left side with the following items:

- SYSTEM MANAGEMENT
- FRU MANAGEMENT
- E-KEYING
- SENSORS
- COOLING MANAGEMENT
- POWER
- SYSTEM EVENT LOG
- LEDs
- LAN
  - Get LAN Configuration
  - Set LAN Configuration
  - Get Channel Access
  - Set Channel Access
  - List Channel Cipher Suites
  - Channel Information** (selected)
  - List Active Sessions
  - Session Information
  - Get IP Connection
  - Set IP Connection
- ALARMS
- ALERTING
- ADMINISTRATION
- RUN COMMAND
- HELP
- VERSION

The main content area is titled "Channel Information". It contains a form with a "Channel Number:" input field and a "Submit" button. A large watermark of a stylized eye is visible in the background of the content area.

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Figure 59: Channel Information

Associated CLI Command(s): `get_channel_info`

#### 4.9.7 List Active Sessions

Description: display a list of active RMCP sessions

Associated CLI Command(s): `list_active_sessions`

#### 4.9.8 Session Information

Description: display session information for a given session or current session (default)

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A vertical navigation menu on the left includes links for SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The "Session Information" link under the LAN section is highlighted with a red box. The main content area is titled "Session Information" and contains input fields for "Session Index" and "Session Handle", separated by "--OR--". Below these is a "Submit" button. At the bottom right of the content area is the copyright notice "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 60: Session Information

Associated CLI Command(s): `get_session_info`

#### 4.9.9 Get IP Connection

Description: display the system network configuration for the Carrier Manager  
Associated CLI Command(s): `get_ip_connection`

#### 4.9.10 Set IP Connection

Description      modify the network interfaces with which an external application may communicate with the Carrier Manager, and how the Carrier Manager communicates with the Shelf Manager

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo and slogan 'THE POWER OF VISION'. A vertical navigation menu on the left includes: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN (selected), ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. Under the LAN section, 'Get LAN Configuration', 'Set LAN Configuration', 'Get Channel Access', 'Set Channel Access', 'List Channel Cipher Suites', 'Channel Information', 'List Active Sessions', 'Session Information', 'Get IP Connection', and 'Set IP Connection' are listed, with 'Set IP Connection' being the active tab. The main content area is titled 'Set IP Connection' and contains input fields for Shelf IP Address, Carrier IP Address, MCH 1 IP Address, MCH 2 IP Address, Gateway Address 0, Gateway Address 1, and Netmask, each with a corresponding text input field. A 'Submit' button is at the bottom of this form. At the bottom right of the page is the copyright notice 'Copyright (c) 2005-2009 VadaTech Incorporated'.

Figure 61: Set IP Connection

Associated CLI Command(s): `set_ip_connection`

## 4.10 Alarms

This section covers the commands associated with alarms, as listed in the **Alarms** menu.

### 4.10.1 Alarm Status

Description:	display the active alarms and whether or not the alarm cut-off is enabled for the Carrier
Associated CLI Command(s):	<code>alarm_status</code>

## 4.10.2 Alarm Clear

Description: remove a triggered alarm from the list of active alarms

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the slogan "THE POWER OF VISION". The left sidebar contains a vertical menu with the following items:

- SYSTEM MANAGEMENT
- FRU MANAGEMENT
- E-KEYING
- SENSORS
- COOLING MANAGEMENT
- POWER
- SYSTEM EVENT LOG
- LEDs
- LAN
- ALARMS** (highlighted)
- Alarm Status
- Alarm Clear** (highlighted)
- Alarm Test
- Alarm Reset
- List Event Code
- Descriptions
- Telco Alarm Capabilities
- Get Telco Alarm State
- Set Telco Alarm State

The main content area is titled "Alarm Clear". It features a search form with the following fields:

IPMB Address: <input type="text"/>	--OR--	Select a Type <input type="button" value="▼"/>
FRU ID: <input type="text"/>		Site Number: <input type="text"/>
Event Code: <input type="text"/>		
Sensor Number: <input type="text"/>		
Sensor Type: <input type="text"/>		

Below the search form is a "Submit" button.

At the bottom of the page, there is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 62: Alarm Clear

Associated CLI Command(s): `alarm_clear`

Applicable Target FRUs:

Entity	Access Address	FRU ID(s)	Site Type	Site Number
Carrier Manager	20h	0	N/A	N/A
MCH	20h	3 - 4	0Ah	1 - 2
AMC	20h	5 - 16	07h	1 - 12
CU	20h	40 - 41	04h	1 - 2
PM	20h	50 - 53	0Bh	1 - 4

Table 40: Alarm Clear applicable target FRUs

### 4.10.3 Alarm Test

Description: enable test alarms

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the slogan "THE POWER OF VISION". The left sidebar contains a vertical menu with the following items:

- SYSTEM MANAGEMENT
- FRU MANAGEMENT
- E-KEYING
- SENSORS
- COOLING MANAGEMENT
- POWER
- SYSTEM EVENT LOG
- LEDs
- LAN
- ALARMS** (selected)
- Alarm Status
- Alarm Clear
- Alarm Test** (selected)
- Alarm Reset
- List Event Code
- Descriptions
- Telco Alarm Capabilities
- Get Telco Alarm State
- Set Telco Alarm State

The main content area is titled "Alarm Test". It features a form with a radio button group for selecting alarm levels: "Minor", "Major", "Critical", and "All". Below the radio buttons is a "Submit" button. A large watermark of a stylized eye is visible in the background of the main content area. At the bottom of the page, there is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 63: Alarm Test

Associated CLI Command(s): `alarm_test`

#### 4.10.4 Alarm Reset

Description: turn off alarm LEDs and silence Telco alarms for a given number of minutes

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A vertical navigation menu on the left includes: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS (which is selected), ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The main content area is titled "Alarm Reset" and contains a form with a "Timeout Interval (minutes):" input field and a "Submit" button. A watermark of a stylized eye is visible in the background of the content area. At the bottom right of the content area is the copyright notice "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 64: Alarm Reset

Associated CLI Command(s): `alarm_reset`

#### 4.10.5 List Event Code Descriptions

Description: describe Carrier Manager diagnostic event codes  
Associated CLI Command(s): `list_event_code_description`

#### 4.10.6 Telco Alarm Capabilities

Description: display the available Telco alarm states and modes  
Associated CLI Command(s): `get_telco_capabilities`

#### 4.10.7 Get Telco Alarm State

Description: display the Telco alarm state for a given alarm or all alarms (default) on the Carrier

The screenshot shows a web-based interface for managing a VadaTech MicroTCA system. At the top, there is a logo for 'vadatech inc' with the tagline 'THE POWER OF VISION'. A vertical navigation menu on the left includes links for SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, and ALARMS. Under the ALARMS section, 'Telco Alarm Capabilities' is listed, followed by 'Get Telco Alarm State' (which is highlighted with a red box) and 'Set Telco Alarm State'. The main content area is titled 'Get Telco Alarm State'. It contains a form with several checkboxes: 'Mirror', 'Major', 'Critical', 'Power Indicator', and 'Alarm-Cutoff'. Below the checkboxes is a 'Submit' button. At the bottom right of the main content area, there is a copyright notice: 'Copyright (c) 2005-2009 VadaTech Incorporated'.

Figure 65: Get Telco Alarm State

Associated CLI Command(s): `get_telco_alarm_state`

#### 4.10.8 Set Telco Alarm State

Description: configure the active Telco alarms for the Carrier

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". On the left is a vertical navigation menu with the following items:

- SYSTEM MANAGEMENT
- FRU MANAGEMENT
- E-KEYING
- SENSORS
- COOLING MANAGEMENT
- POWER
- SYSTEM EVENT LOG
- LEDs
- LAN
- ALARMS** (selected)
- Alarm Status
- Alarm Clear
- Alarm Test
- Alarm Reset
- List Event Code
- Descriptions
- Telco Alarm Capabilities
- Get Telco Alarm State
- Set Telco Alarm State** (selected)

The main content area is titled "Set Telco Alarm State". It contains a form with two columns:

<input type="checkbox"/> Minor	<input checked="" type="radio"/> Enable
<input type="checkbox"/> Major	<input checked="" type="radio"/> Disable
<input type="checkbox"/> Critical	<input checked="" type="radio"/> Test
<input type="checkbox"/> Power Indicator	
<input type="checkbox"/> Alarm Cutoff	

Below the form is a "Submit" button.

At the bottom right of the content area, it says "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 66: Set Telco Alarm State

Associated CLI Command(s): `set_telco_alarm_state`

## 4.11 Alerting

This section covers the commands associated with alerting, as listed in the **Alerting** menu.

### 4.11.1 Get PEF Configuration

Description: display parameters related to platform event filtering

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the slogan "THE POWER OF VISION". The left sidebar contains a vertical menu with the following items:

- SYSTEM MANAGEMENT
- FRU MANAGEMENT
- E-KEYING
- SENSORS
- COOLING MANAGEMENT
- POWER
- SYSTEM EVENT LOG
- LEDs
- LAN
- ALARMS
- ALERTING** (highlighted)
- Get PEF Configuration (highlighted)
- Set PEF Configuration
- SNMP Trap Information
- SNMP Trap Enable
- SNMP Trap Addresses
- SNMP\_Trap Remove Address
- SNMP Trap Set Address
- SNMP Traps Test

The main content area is titled "Get PEF Configuration". It features a search form with fields for "Parameter", "Set", "Revision", and "Dump Raw", along with an "OR" operator and a "Submit" button. At the bottom of the page, there is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 67: Get PEF Configuration

Associated CLI Command(s): `get_pef_config_parameters`

## 4.11.2 Set PEF Configuration

Description: set a given platform event filter parameter

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. The top navigation bar includes the VadaTech logo and the slogan "THE POWER OF VISION". The left sidebar contains a vertical menu with the following items:

- SYSTEM MANAGEMENT
- FRU MANAGEMENT
- E-KEYING
- SENSORS
- COOLING MANAGEMENT
- POWER
- SYSTEM EVENT LOG
- LEDs
- LAN
- ALARMS
- ALERTING** (highlighted)
- Get PEF Configuration
- Set PEF Configuration** (highlighted)
- SNMP Trap Information
- SNMP Trap Enable
- SNMP Trap Addresses
- SNMP\_Trap Remove Address
- SNMP Trap Set Address
- SNMP Traps Test

The main content area is titled "Set PEF Configuration". It features a form with three input fields: "Parameter" (with a dropdown menu), "Data", and "String". Below the form is a "Submit" button. At the bottom right of the content area, there is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 68: Set PEF Configuration

Associated CLI Command(s): `set_pef_config_parameters`

### 4.11.3 SNMP Trap Information

Description: display the status of SNMP traps and available trap destinations  
Associated CLI Command(s): `get_snmp_trap_info`

#### 4.11.4 SNMP Trap Enable

Description: enable or disable SNMP traps on a given channel

The screenshot shows a web-based management interface for a VadaTech MicroTCA Carrier Manager. At the top, there is a logo for 'vadatech inc' with the tagline 'THE POWER OF VISION'. A vertical navigation menu on the left includes links for SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING (which is currently selected), Get PEF Configuration, Set PEF Configuration, SNMP Trap Information, and several sub-links under 'SNMP Trap Enable' such as 'SNMP Trap Addresses', 'SNMP\_Trap Remove Address', 'SNMP Trap Set Address', and 'SNMP Traps Test'. The main content area is titled 'SNMP Trap Enable' and contains a form with two radio buttons: 'Enable' and 'Disable' (the latter is selected), and a text input field for 'Channel Number'. A 'Submit' button is located below the form. The bottom right corner of the page has a copyright notice: 'Copyright (c) 2005-2009 VadaTech Incorporated'.

Figure 69: SNMP Trap Enable

Associated CLI Command(s): `snmp_trap_enable`  
`snmp_trap_disable`

#### 4.11.5 SNMP Trap Addresses

Description: display a list of SNMP trap destinations for a given channel

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A vertical navigation menu on the left includes links for SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING (which is currently selected), Get PEF Configuration, Set PEF Configuration, SNMP Trap Information, SNMP Trap Enable, SNMP Trap Addresses, SNMP\_Trap Remove Address, SNMP Trap Set Address, and SNMP Traps Test. Below the menu is a main content area titled "SNMP Trap Addresses". It contains two input fields: "Channel Number:" and "Destination Number:", each with a small input box. Below these fields is a "Submit" button. At the bottom right of the content area is the copyright notice "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 70: SNMP Trap Addresses

Associated CLI Command(s): `snmp_trap_get_address`

#### 4.11.6 SNMP Trap Remove Address

Description: remove a given SNMP trap destination for a given channel

The screenshot shows a web-based management interface for a VadaTech MicroTCA Carrier Manager. At the top, there is a logo for 'vadatech inc' with the tagline 'THE POWER OF VISION'. A vertical navigation menu on the left side lists several categories: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. Under the 'ALERTING' category, the 'SNMP Trap Remove Address' option is highlighted. The main content area is titled 'SNMP Trap Remove Address'. It contains two input fields: 'Channel Number:' with a dropdown menu and 'Destination Number:' with a dropdown menu. Below these fields is a 'Submit' button. At the bottom right of the content area, there is a copyright notice: 'Copyright (c) 2005-2009 VadaTech Incorporated'.

Figure 71: SNMP Trap Remove Address

Associated CLI Command(s): `snmp_trap_remove_address`

#### 4.11.7 SNMP Trap Set Address

Description: add or update a given SNMP trap destination address for a given SNMP trap destination number

The screenshot shows a web-based management interface for a VadaTech MicroTCA Carrier Manager. The top navigation bar includes the VadaTech logo and the slogan "THE POWER OF VISION". A vertical sidebar on the left contains a menu with several sections: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, and ALERTING. Under the ALERTING section, there are links for Get PEF Configuration, Set PEF Configuration, SNMP Trap Information, SNMP Trap Enable, SNMP Trap Addresses, and two links for "SNMP Trap Remove Address": one for "Address" and another for "SNMP Trap Set Address", which is highlighted with a red box. Below this is a section for ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The main content area is titled "SNMP Trap Set Address". It features three input fields: "Channel Number:" with a dropdown menu, "Destination Number:" with a dropdown menu, and "IP Address:" with a text input field. A "Submit" button is located below these fields. The bottom right corner of the page displays the copyright notice "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 72: SNMP Trap Set Address

Associated CLI Command(s): `snmp_trap_set_address`

#### 4.11.8 SNMP Trap Test

Description: send a test SNMP trap to a given destination, or get or clear the status of a test alert sent to a given destination, on a given channel

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top, there is a logo for 'vadatech inc' with the tagline 'THE POWER OF VISION'. On the left, a vertical navigation menu lists various management categories: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. Under the ALERTING category, 'SNMP Trap Set Address' and 'SNMP Traps Test' are listed, with 'SNMP Traps Test' being the active page, indicated by a dotted border around it. The main content area is titled 'SNMP Trap Test'. It contains input fields for 'Channel Number' and 'Destination Number', both represented by small input boxes. Below these is a 'Action:' section with three radio button options: 'Get Status' (selected), 'Clear Status', and 'Send Test'. At the bottom of the form is a 'Submit' button.

Figure 73: SNMP Trap Test

Associated CLI Command(s): `snmp_trap_test`

## 4.12 Administration

This section covers the commands associated with system administration, as listed in the **Administration** menu.

### 4.12.1 List Users

Description: display a list of available users for the Carrier  
Associated CLI Command(s): `list_users`

## 4.12.2 List Users Access

Description: display all users' access properties for a given channel

The screenshot shows a web-based interface for managing a VadaTech MicroTCA system. At the top, there is a logo for 'vadatech inc' with the tagline 'THE POWER OF VISION'. A vertical navigation menu on the left side lists several categories: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, and RUN COMMAND. Under the ADMINISTRATION section, 'List Users' is expanded, showing four sub-options: List Users Access, Get User Access, Set User Access, and Set User Information. The main content area is titled 'List Users Access'. It contains a form with a label 'Channel Number:' followed by an input field, and a 'Submit' button. A large watermark of a stylized eye is visible in the background of the main content area. At the bottom of the page, there is a copyright notice: 'Copyright (c) 2005-2009 VadaTech Incorporated'.

Figure 74: List Users Access

Associated CLI Command(s): `list_users_access`

### 4.12.3 Get User Access

Description: display privilege level and channel accessibility for a given user on a given channel

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo and slogan "THE POWER OF VISION". A vertical navigation menu on the left includes: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION (with sub-options: List Users, List Users Access, **Get User Access**, Set User Access, Set User Information), RUN COMMAND, HELP, and VERSION. The "Get User Access" option is highlighted with a dotted border. The main content area is titled "Get User Access" and contains fields for "Channel Number:" and "User ID:", each with a small input box. Below these is a "Submit" button. At the bottom of the page is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 75: Get User Access

Associated CLI Command(s): `get_user_access`

#### 4.12.4 Set User Access

Description: configure privilege level and channel accessibility for a given user on a given channel

The screenshot shows the 'Set User Access' page of the VadaTech MicroTCA Carrier Manager Web Interface. The left sidebar contains a navigation menu with the following items:

- SYSTEM MANAGEMENT
- FRU MANAGEMENT
- E-KEYING
- SENSORS
- COOLING MANAGEMENT
- POWER
- SYSTEM EVENT LOG
- LEDs
- LAN
- ALARMS
- ALERTING
- ADMINISTRATION
  - List Users
  - List Users Access
  - Get User Access
  - Set User Access** (highlighted)
  - Set User Information
- RUN COMMAND
- HELP
- VERSION

The main content area is titled 'Set User Access'. It contains the following form fields:

Channel Number:	<input type="text"/>
User ID:	<input type="text"/>
Privilege Limit:	<input type="button" value="Select a Privilege Level"/>
Session Limit:	<input type="text"/>
Restricted to Callback:	<input type="radio"/> Yes <input type="radio"/> No
Link Authentication:	<input type="radio"/> Enable <input type="radio"/> Disable
IPMI Messaging:	<input type="radio"/> Enable <input type="radio"/> Disable

At the bottom of the form is a 'Submit' button.

At the bottom right of the page, the copyright notice reads: Copyright (c) 2005-2009 VadaTech Incorporated.

Figure 76: Set User Access

Associated CLI Command(s): `set_user_access`

#### 4.12.5 Set User Information

Description: add a user; change a user's username; add, update, or test a user's password; or enable or disable a user

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top, there is a logo for 'vadatech inc' with the tagline 'THE POWER OF VISION'. On the left, a vertical navigation menu lists various management categories: SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, HELP, and VERSION. The 'ADMINISTRATION' section is expanded, showing sub-options like List Users, List Users Access, Get User Access, Set User Access, and Set User Information, with 'Set User Information' being the active tab. The main content area is titled 'Set User Information'. It contains several input fields: 'User ID:' (with a text input box), 'User Name:' (with a text input box), 'Password:' (with a text input box), 'Test Password:' (with a text input box), and 'Submit' (a button). There are also two radio buttons for 'Disable User' and 'Enable User'.

Figure 77: Set User Information

Associated CLI Command(s): `set_user_info`

## 4.13 Run Command

### 4.13.1 Run Command

Description: run a CLI command in Command Mode

The screenshot shows the VadaTech MicroTCA Carrier Manager Web Interface. At the top is the VadaTech logo with the tagline "THE POWER OF VISION". A vertical navigation menu on the left includes links for SYSTEM MANAGEMENT, FRU MANAGEMENT, E-KEYING, SENSORS, COOLING MANAGEMENT, POWER, SYSTEM EVENT LOG, LEDs, LAN, ALARMS, ALERTING, ADMINISTRATION, RUN COMMAND, and HELP. The RUN COMMAND link is highlighted. Below the menu is a main content area titled "Run Command" with a sub-section "Run Command :". There is a text input field labeled "Run Command :" followed by a "Submit" button. At the bottom of the page is a copyright notice: "Copyright (c) 2005-2009 VadaTech Incorporated".

Figure 78: Run Command

## 4.14 Help

This menu displays a list of the CLI commands implemented in the Web Interface. When a command is selected, the help information for the selected command is shown.

Associated CLI Command(s):      `help`

## 4.15 Version

### 4.15.1 Version Information

Description: display the version of the CLI with which the Web Interface is connected  
Associated CLI Command(s): `get_version`

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