



# CHAPTER 1

## Introduction

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The integrated management module (IMM) consolidates the service processor and remote management capabilities in a single chip on the server system board.

The IMM offers several benefits:

- Choice of dedicated or shared Ethernet connection.
- One IP address for both the Intelligent Platform Management Interface (IPMI) and the service processor interface.
- Ability to locally or remotely update other entities without requiring a server restart to initiate the update process.
- Capability for applications and tools to access the IMM either in-band or out-of-band.

This document explains how to use the functions of the IMM.

## IMM features

The IMM is a common management component for Cisco Mobility Services Engine, Cisco Flex Controller, and Cisco Prime Network Control System. The functionality provided by the IMM is the same across all three products. Product specific differences are highlighted as appropriate throughout the document.

The IMM provides the following functions.

- Around-the-clock remote access and management of your server
- Remote management independent of the status of the managed server
- Remote control of hardware and operating systems
- Web-based management with standard Web browsers

IMM has the following features.

- Access to critical server settings
- Access to server vital product data (VPD)
- Automatic notification and alerts
- Continuous health monitoring and control
- Choice of a dedicated or shared Ethernet connection
- Domain Name System (DNS) server support
- Dynamic Host Configuration Protocol (DHCP) support

- E-mail alerts
- Embedded Dynamic System Analysis (DSA)
- Enhanced user authority levels
- LAN over USB for in-band communications to the IMM
- Event logs that are time stamped, saved on the IMM, and can be attached to e-mail alerts
- Industry-standard interfaces and protocols
- OS watchdogs
- Remote firmware updating
- Remote power control
- Secure Web server user interface
- Simple Network Management Protocol (SNMP) support
- User authentication using a secure connection to a Lightweight Directory Access Protocol (LDAP) server

## Web browser and operating-system requirements



### Warning

**Do not attempt to update the firmware on the system without proper directions from Cisco TAC. You should update the firmware, as directed by Cisco TAC, and with the firmware certified and released by Cisco. Failure to follow these guidelines can render your system inoperable.**

The IMM Web interface requires the Java™ Plug-in 1.5 or later (for the remote presence feature) and one of the following Web browsers:

- Microsoft® Internet Explorer version 6.0 or later with the latest Service Pack
- Mozilla Firefox version 1.5 or later



### Note

The IMM Web interface does not support the double-byte character set (DBCS) languages.

## Notices used in this book

The following notices are used in the documentation:

- **Note:** These notices provide important tips, guidance, or advice.
- **Important:** These notices provide information or advice that might help you avoid inconvenient or problem situations.
- **Attention:** These notices indicate potential damage to programs, devices, or data. An attention notice is placed just before the instruction or situation in which damage might occur.