



# Numara Asset Management Platform

## The Power of One



Empowers IT organizations to increase service levels, improve performance, and reduce costs by automating IT asset management

Technical Overview  
and System Requirements

# Numara Asset Management Platform

## Technical Overview and System Requirements

### Overview

A tightly integrated solution with snap-in functionality, Numara® Asset Management Platform (NAMP) simplifies IT asset, compliance and vulnerability management through automation, a consistent user interface, and a common tool set for data storage, analysis and reporting. NAMP allows you to reduce costs while improving performance and service levels. A single solution for managing the complete asset lifecycle, NAMP resolves issues such as hardware/software configuration management, software deployment, OS deployment, security vulnerability remediation, patch deployment, and power management.

### Straightforward, Flexible Architecture

NAMP employs an architecture that is straightforward, yet flexible and scalable. At the heart

of this architecture are three major components: the Master Server, where the main application and database are installed; a graphical administrative Console for remote management of configuration, analysis and reporting; and a client Agent installed on each target device to gather data and execute actions as directed. The flexible, multi-tier architecture also scales to meet the needs of large and distributed organizations, allowing you to manage over 50,000 nodes through the use of Relays and a Super Master Server to manage multiple Master Servers.

### Standard Configuration

#### Master Server

The Master Server, is the main server in the network topology that connects to the database. It is responsible for answering requests from the Console, executing the appropriate database communication, and receiving and storing all information sent by the Client Agents.

The Master Server Database is an object model database system in which each network or system component is modeled. Operating in real time, it reacts to changes in the network and systems components by updating and changing the corresponding objects in the database.

### Console

The Console is a Java™-based graphical user interface that connects directly to the Master Server to display collected data, access reports, manage client devices remotely and configure the Master Server. From the Console, you can easily apply actions to an object or sets of objects in the database, such as creating and deleting objects, modifying specific data, executing reports and operational rules, and remotely accessing a client to make modifications.

More than one Console can access the Master Server from various workstations, and Console functionality can be restricted based on login IDs, allowing for convenient and secure access for multiple IT job functions.

### Client Agent

The Client Agent, or Agent, is installed on each target device and operates independent of, but in concert with, the Master Server. The Agent sends information (such as reporting connection status) either on regularly defined intervals, based on events or when polled by the Master.

Agents receive data and instructions from, and forward data to, the Master Server (or Relay Server in the case of large deployments) based on a configurable pre-defined schedule. The Agent can report on and monitor a number of parameters depending on the operating system of the target device.

### Distributed Configuration

#### Relays

For companies requiring a distributed configuration for multiple locations, a Relay serves as an intermediate device to balance the network load and ensure optimal performance.



### Highlights

- Highly scalable, multi-tier architecture
- Single, multi-functional agent for all products
- Agent and agentless discovery and inventory
- Configurable and secure communication channels
- Installs in Windows® and Linux® environments
- Multilingual for global use



Basic configuration

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Like Client Agents with additional functionality enabled, Relays act as intermediaries for the Master Server. They can execute operations on their local network such as software and patch distribution while also collecting and reporting on local data (e.g. inventory) to the Master Server or other Relays.

In the event of a Relay failure, Client Agents and the Master Server will automatically communicate directly until the Relays are recovered, ensuring continued functionality.

One Relay per physical site is recommended; however, Relays can also be used to manage large sets of Client Agents within a physical site. The maximum number of Agents per Relay should be limited to 2000 agents for a dedicated Relay, and no more than 500 for a shared device. In general it is recommended that a dedicated Relay be used as a Site Relay.

## Super Master Server

A Super Master Server enables configuration for distributed companies with many independent business units and segregated IT teams. A Super Master Server does not execute any management operations, but rather consolidates data from "local" Master Servers for analysis and reporting at a corporate level.

## One Agent, Many Functions

Regardless of which products are installed, NAMP requires only a single Client Agent at the endpoint. The Agent seamlessly interacts with and services all Numara Asset Management Platform products without complex configuration.

The Client Agent can be automatically pushed to the target, automatically pulled by the target, or manually installed on the target based on the network structure, and the target's permission

rights. This enables you to manage your network without violating IT security standards.

The autonomous Agent continues to gather data and execute actions locally while disconnected from the network, making it easy for you to support mobile and remote users.

Functionality within the Agent can be remotely enabled, configured, or disabled to accommodate evolving needs. Changes to the Agents are transparent to the end user.

## Agentless Inventory

NAMP also enables you to gather basic hardware, software and configuration information about any asset connected to a network without needing to install an agent. This agentless inventory capability vastly simplifies the process of finding and identifying unmanaged assets.

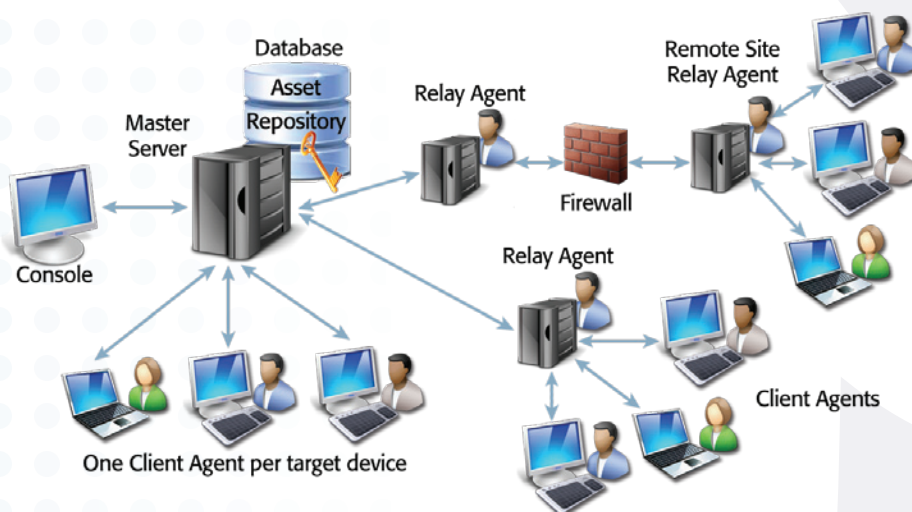
## Secure Communications

All communication between Consoles, Agents, Relays, Master Servers and Super Master Server is set to HTTP using ports 1610-1612 by default. SSL can be enabled to secure communications, and the port numbers can be configured differently as required. Certificates may also be used for trusted identification.

## Virtual Environments

Numara Asset Management Platform supports production environments in VMware based on the prerequisites listed below.

While Numara Asset Management Platform is expected to function properly in a VMware® virtual environment, there may be performance implications that can overrule Numara Asset Management Platform typical sizing and recommendations.



## Supported Languages

Numara Asset Management Platform is offered for use in six languages: English, Japanese, German, Italian and European French and Spanish.

## Prerequisites

### Master Server

Java Runtime Environment 1.6 Update 13 (included)

### Console

Java Runtime Environment 1.6 Update 13 (included)

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## Platforms supported by Numara Asset Management Platform Component

	Windows XP, Vista®, 2000, 2003, 2008	Windows NT® 4	Windows 98, Z98SE	MAC®	Linux	Solaris™
Master Agent	✓				✓	
Relay Agent	✓	✓		✓	✓	✓
Client Agent	✓	✓	✓	✓	✓	✓
Console	✓	✓			✓	

## Databases Supported

	Windows NT4	Windows 2000	Windows 2003 & XP	Windows Vista & 2008	Linux	Solaris
MS DE (32 bit)	✓	✓	✓			
Microsoft SQL Server® 2005 Express (32 & 64 bit)			✓	✓		
Microsoft SQL Server 2000 (32 & 64 bit)	✓	✓	✓	✓		
Microsoft SQL Server 2005 (32 & 64 bit)			✓	✓		
Microsoft SQL Server 2008 (32 & 64 bit)			✓	✓		
Oracle® 9i		✓	✓	✓	✓	✓
Oracle 10g		✓	✓	✓	✓	✓
PostgreSQL 8 or higher					✓	

## Modules Supported by Client Agent

	Windows XP, Vista, 2000, 2003, 2008	Windows NT4	Windows 98/ Z98SE	MAC 10.5, 10.6	Linux	Solaris
Numara Inventory Manager <a href="#">Discovery/Inventory</a>	✓	✓	✓	✓	✓	
Numara Inventory Manager <a href="#">Applications usage, self healing and blocking</a>	✓	✓	✓		✓	✓
Numara Deployment Manager <a href="#">Software Deployment</a>	✓	✓	✓	✓	✓	✓
Numara Deployment Manager <a href="#">OS Deployment</a>	✓					
Numara Patch Manager	✓	✓				
Numara Vulnerability Manager	✓				✓	
Numara Remote Manager <a href="#">Remote Control</a>	✓	✓	✓			
Numara Remote Manager <a href="#">Direct Access</a>	✓	✓	✓	✓	✓	✓
Numara Compliance Manager <a href="#">Master Only</a>	✓				✓	
Numara Device Manager	✓					
Numara Power Manager	✓					

Note: In some cases, only part of a product's functionality is supported as shown above.

# Numara Asset Management Platform

## Windows Versions Supported

	Service Pack	Latest Version	Editions	X86	X64
Windows 98			All	✓	
Windows NT4	SP6a	SP6a	All	✓	
Windows 2000	SP4	SP4	All	✓	
Windows XP	All	SP3	All	✓	✓
Windows Vista	All	SP1	All	✓	✓
Windows 2003	All	SP2	All	✓	✓
Windows 2008	All	R2	All	✓	✓
Windows 7				✓	✓

## Linux Versions Supported

	Release	Latest Version	Editions	X86	X64
Red Hat®	9	All		✓	✓
RHEL	3 or higher	SP6a	All	✓	✓
SUSE	10 or higher	SP4	All	✓	✓
CentOS	4 or higher			✓	✓

## Solaris Versions Supported

	Release	Update	Editions	Sparc	X86/X64
Solaris	8 or higher	All	All	✓	

## Mac OS Versions Supported

	Release	Update
Intel Based Mac OS®	10.5 (Leopard®)	All
Intel Based Mac OS	10.6 (Snow Leopard®)	All

## Minimum Hardware Requirements<sup>1</sup>

Number of Devices	Master Server	Dedicated DB Server	Relay Server
Up to 50	CPU: Pentium D 3.2GHz RAM: 1GB HDD: 80GB	Not Required	CPU: Pentium D 3.2GHz RAM: 1GB HDD: 80GB
51-200	CPU: Xeon® Dual Core 2.4GHz RAM: 1GB HDD: 80GB	Not Required	CPU: Pentium D 3.2GHz RAM: 2GB HDD: 80GB
201-500	CPU: Xeon Dual Core 2.8GHz RAM: 2GB HDD: 10,000rpm 80GB	Not Required	CPU: Pentium D 3.2GHz RAM: 2GB HDD: 80GB
501-1000	CPU: Xeon Dual Core 2.8GHz RAM: 2GB HDD: 10,000rpm 80GB	CPU: Xeon Dual Core 2.8GHz RAM: 2GB HDD: 10,000rpm 80GB	CPU: Pentium D 3.2GHz RAM: 2GB HDD: 10,000rpm 80GB
1001-2000	CPU: Xeon Dual Core 3.0GHz RAM: 2GB HDD: 10,000rpm 80GB	CPU: Xeon Dual Core 3.0GHz RAM: 2GB HDD: 10,000rpm 80GB	CPU: Pentium D 3.2GHz RAM: 2GB HDD: 10,000rpm 80GB
2001-5000	CPU: Xeon Dual Core 3.0GHz RAM: 4GB HDD: 10,000rpm 160GB	CPU: Xeon Dual Core 3.0GHz RAM: 4GB HDD: 10,000rpm 160GB	CPU: Pentium D 3.2GHz RAM: 2GB HDD: 10,000rpm 80GB
5001-10,000	CPU: Bi-Xeon Dual Core 3.0GHz RAM: 6GB HDD: 10,000rpm 160GB	CPU: Bi-Xeon Dual Core 3.0GHz RAM: 6GB HDD: 10,000rpm 160GB	CPU: Pentium D 3.2GHz RAM: 2GB HDD: 10,000rpm 80GB
Above 10,001	If your core server will be hosting 10,001 or more devices, or in high-load scenarios, consult a Numara Software Engineer for help with determining the system hardware recommendations for your environment.		

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1. The minimum recommended hardware platform for a Client Agent is a Pentium® III, 1 GHz or equivalent with 128 MB of RAM, however, based on the number of functions an Agent is assigned, and what the computer is being used for, more resources may be required. Below is a guide for minimum hardware requirements for Master Servers and Relays based on the number of devices being supported by them. Numbers in parenthesis are our recommended values to the minimum values.

## About Numara Software

With more than 55,000 customer sites worldwide, Numara Software is a global leader in delivering practical, flexible solutions that allow IT organizations to improve service to their end-users. Our integrated IT service management and IT asset management software platforms enable organizations to efficiently automate a wide variety of IT related tasks and processes using interoperable solutions from a single, proven vendor.

Widely known for our dedicated focus on ease of use and affordability for our customers, our IT solutions deliver fast time-to-value, increased control, and reduced risk for small businesses to large companies. For more information, visit:

[www.numarasoftware.com](http://www.numarasoftware.com).

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## Corporate Headquarters

2202 North Westshore Boulevard, Suite 650  
Tampa, Florida 33607, USA

p: 813.227.4500 • f: 813.227.4501

## Regional Headquarters

2025 Lincoln Highway  
Edison, NJ 08817, USA

p: 732.287.2100 • f: 732.287.4929

## European Headquarters

Davidson House  
Forbury Square  
Reading, RG1 3EU, UK

## NumaraSoftware.com

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