

# Solstice™ Domain Manager™ 2.3

## Comprehensive, Centralized Management for Large, Multi-Site Networks

With the explosive growth of client/server computing, today's companies are faced with managing complex, heterogeneous environments. This challenge is complicated by the lack of a consistent set of management platforms to manage different size environments. Low-end platforms can manage small sites cost-effectively, but do not scale to manage large environments. Conversely, high-end enterprise management platforms can be cost-prohibitive to deploy in smaller sites. Furthermore, platforms typically do not offer distribution between platforms that allow administration expertise to be leveraged between sites. To meet these diverse needs, Sun Microsystems™ created Solstice™ Domain Manager™ and Solstice™ Site Manager™, which together provide:

- *Advanced Event Management:* An easy to set up, advanced event management platform that monitors the health of mission-critical environments and quickly troubleshoots problem areas.
- *Consistent platform for all size environments:* The same tools, applications, user interface, request management features, agents, and topology database, are provided in both products. This consistency minimizes the learning curve for administrators throughout an organization.
- *Low-end platform for small sites:* The advanced features in Solstice Site Manager provide excellent value for managing small sites or networks.
- *High-end platform that can scale to a large number of managed nodes:* Solstice Domain Manager agents, which utilize distributed polling, can manage a large number of local or remote nodes.

This product also provides the features and tools needed to manage large or multiple sites effectively.

- *Distribution between platforms:* Solstice Site Manager can send topology and event or trap information to Solstice Domain Manager. Solstice Domain Manager can be configured to receive information from multiple Solstice Site Managers or to be set up as a sender and receiver to other Solstice Domain Managers. This platform distribution allows administration expertise to be leveraged across sites.
- *A reliable platform:* Both Solstice Domain Manager and Solstice Site Manager are based on field-proven Solstice™ SunNet Manager™ and Solstice™ Cooperative Consoles™ technology.

### Solstice Domain Manager

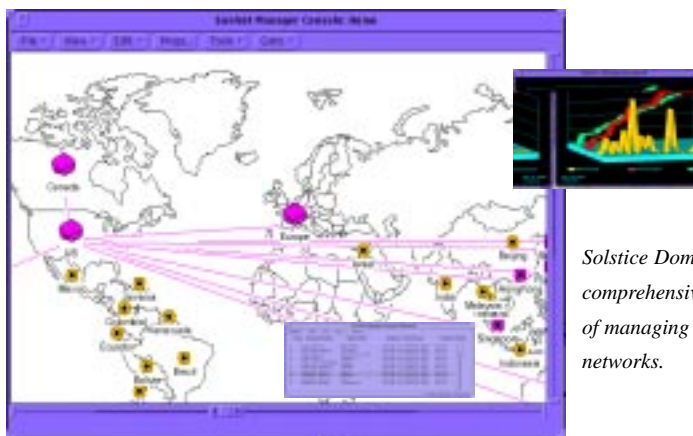
Solstice Domain Manager can manage a large number of nodes. It includes Solstice Cooperative Consoles *sender* and *receiver*, and an advanced Network Layout Tool.

Solstice Domain Manager can centralize LAN management by accessing Novell NetWare Management Agent (NMA) 2.0.

This agent resides on a NetWare server that also has TCP/IP installed on it. The NMA agent allows Solstice Domain Manager to manage the NetWare server's file system, print queues, user groups (who is logged in), and other key attributes.

Solstice Domain Manager can also import the topology map from Novell's Manage-Wise network management console, enabling Solstice Domain Manager to view the PCs on the NetWare LAN as a separate view from the IP network that it is managing.

Solstice Domain Manager is used in three general configurations. One is as a stand-alone platform for large site management. Another is as a central manager, where multiple Solstice Site Managers are connected as senders to one or more Solstice Domain Managers. The third general configuration is where multiple Solstice Domain Managers are connected peer-to-peer as cooperative management platforms sending and receiving information between each other.



*Solstice Domain Manager is the comprehensive platform capable of managing large, multi-site networks.*

Solstice Domain Manager provides Advanced Event Management to monitor the health of a network and its critical devices, while providing an easy-to-use tool to construct the event requests. The operator or administrator can define and launch tools, called requests, which gather management data from network and system resources. Tabular and graphic reports summarize the data gathered by the requests. The User Tools included in Solstice Domain Manager are consistent with Solstice Site Manager and enable operators to monitor and control network and system resources.

### Platform Distribution

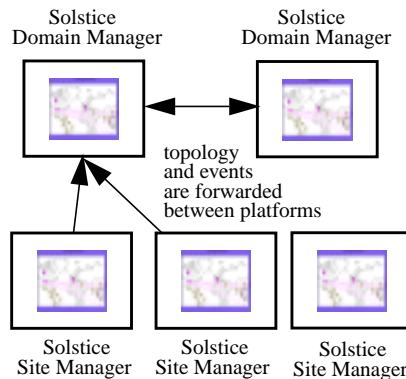
Distribution is a key foundation of both Solstice Domain Manager and Solstice Site Manager. Each of these products should be viewed as interconnectable components that together manage the enterprise. A company can deploy multiple Solstice Site Managers and *connect* these to a Solstice Domain Manager.

As the enterprise grows and more sites or branch offices are added, multiple Solstice Site Managers can be connected to the Solstice Domain Manager. A company may also want multiple Solstice Domain Managers for their key administration personnel. These individuals can share information as appropriate to best leverage their expertise.

The platform distribution is based on Solstice Cooperative Consoles technology, which gives Solstice Domain Manager and Solstice Site Manager users a distributed data model for cooperatively managing medium to large networks. Solstice Cooperative Consoles sends the network updates that occur with one platform to the other platform. The second platform sees all topology map changes as well as events or traps that occur in the network.

Solstice Cooperative Consoles can filter information by specific device, device type, trap type, view, or view type (e.g. building, campus, etc.). It provides security through access control lists (which console can receive information).

The platform distribution can also sync two consoles during start-up either manually or automatically. Thus the consoles can always be in sync even if they get disconnected temporarily. This feature is also useful if a connection is intended to be a temporary one, where a user at one console helps in troubleshooting at another site.



### Agents

Solstice Domain Manager can manage large networks by spreading the management processing load around the network with two different kinds of agents. One type of agent directly accesses managed objects while the second type, proxy agents, act as mid-level managers. These mid-level managers provide two primary benefits:

- Allow management applications to manage objects of virtually any protocol.
- Localize network management polling activity to minimize network management traffic.

The mid-level managers communicate with the management platforms via the Remote Procedure Call (ONC™/RPC) protocol. They then translate the RPC protocol into the protocol that the managed elements

understand. Through this mechanism, Solstice Domain Manager can manage a wide-range of resources including:

- Communication protocol layers and interfaces.
- Network devices such as bridges, routers, hubs, printers, workstations, PCs.
- Application, data, and network services.
- System and operating system resources.

The mid-level managers also allow Solstice Domain Manager to manage large networks by:

- Configuring mid-level managers so that they are located in close proximity to the managed element (rather than adjusting the polling interval which negatively impacts the quality of management information received).
- Filtering trap information and deferring sending of reports to minimize the traffic to the Console.
- Distributing the manager applications that are registered to receive the reports through the Event Dispatcher.

### Requirements

#### Hardware

- SPARCstation™ or SPARCserver™ systems
- x86/Pentium systems

#### Operating System Software

- Solaris™ 2.4 environment or later for x86
- Solaris 2.4 environment or later for SPARC
- Solaris 1.1.1 (SunOS™ 4.1.3) environment or later

#### System Configuration

- 32 MB of memory
- 400 MB of disk storage

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