

Network Monitor

Quick Start Guide

Version R95

English

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Network Monitor Overview

Network Monitor is a web-based monitoring solution for monitoring the performance and availability of a wide array of network devices. **Network Monitor** monitoring is *agentless*, meaning it does not install any software or files on monitored machines. **Network Monitor** comes with more than 40 built-in methods of monitoring. These methods can be extended using Lua scripts. Advanced **Network Monitor** features include multi-level alarm escalations, and the ability to configure alarm dependencies so that service providers only receive the most relevant alarms. All common operating systems are supported, including:

- AIX (4.2 and above)
- CentOS
- Debian
- Fedora
- FreeBSD
- HP-UX
- Generic Linux
- OpenBSD
- OpenSUSE 10.2
- Red Hat Enterprise Server
- Solaris
- Ubuntu
- Windows

Terms and Concepts

- Asset An asset represents a computer or any other type of network device that can be addressed by an IP number or host name. An asset contains settings that are common to all monitors associated with that asset.
- Monitor A monitor tests a specific function in an asset. Most monitors are capable of collecting
 various statistical data for reporting purposes. When a monitor test fails consecutively a specified
 number of times, the monitor enters an *Alarm* state and executes a set of actions.
- Subgroup A subgroup is a "container node" for other nodes in the Network Monitor monitor tree. Typically subgroups represent a logical business unit.
- Actions One or more actions can executed when a monitor fails a consecutive number of tests. A set of recovery actions can be executed when a monitor recovers from an *Alarm* state.
- Asset template An asset template is used to assign a set of monitors to assets. Once assets are linked to an asset template, changes to the asset template are propagated to all the associated assets.
- User group A Network Monitor user group is a set of VSA users who can be notified or scheduled to be available for notification. Each asset in Network Monitor is assigned to one user group. When a monitor enters an *Alarm* state, notifications are typically sent to the asset's user group.
- Credential A credential is a username and password that authorizes access to a resource.
 Network Monitor stores credentials separately from the rest of the VSA. These credentials are used by monitors, actions and events to gain access to the appropriate resource when carrying out an operation.

Status Icons

A monitor is always in one specific state. This state is visualized in the **Network Monitor** interface with different colors. An asset or network always displays the *most important state reported by any single monitor* that belongs to it. Icons are listed below, ranked by their importance.

The monitor is deactivated.

This icon is used for assets and networks only. All monitors in the asset or network are deactivated, but the asset or network itself is active.

- The monitor has entered an alarm state.
- The monitor has failed one or more tests, but has not yet entered alarm state.

The monitor is ok.

Additional guidelines:

- Any state other than deactivated is an activated state.
- An activated monitor tests its asset.
- Deactivating any or all monitors of an asset does not deactivate the asset.
- Deactivating any or all assets of a network does not deactivate their parent network.
- Deactivating an asset deactivates *all* of its member monitors.
- Deactivating a network deactivates all of its member assets.

Other Commonly Used Icons

 ${\mathscr P}$ - This icon displays the properties of an item and allows you to edit them.

 \mathscr{C} - This icon indicates that the asset or monitor is inherited from a template. Monitors inherited from a template can not be edited directly.

- This icon indicates that the asset or monitor is in maintenance state and is not currently monitored.

I his icon displays a list of items.

In this icon displays a view of an item.

Pre-Installation Checklist

Completing the following pre-installation checklist before installing Network Monitor is recommended.

- Estimate the memory required by Network Monitor to monitor the number of assets on your network, using the recommendations in Server Sizing (*page iii*). Ensure the system hosting the Network Monitor server has enough free memory to run Network Monitor.
- 2. Check that the system hosting the **Network Monitor** server meets **all software and hardware requirements** (*page ii*).
- 3. If a GSM phone is used, install it and verify that it responds correctly to standard AT commands in a terminal program.

When completed you are ready to install Network Monitor.

Network Monitor Module Minimum Requirements

Systems Hosting the Network Monitor R95 Server

- Microsoft Windows Server 2012, 2012 R2, 2016 with the latest service pack
- Network Monitor should use TCP/IP port 1433 to connect to your SQL Server instance
- Microsoft .Net Framework 4.5 or later

- Network Monitor requires at least 4 GB of memory, in addition to VSA server requirements. This
 number can increase depending on the number of networks, gateways, assets, and monitors
 configured.
- If your network is larger than 1,000 assets, additional CPU power is also recommended.
- Upgrades from standalone instances of KNM are no longer supported.

Gateway Requirements

- Windows Small Business Server 2011, Windows Server 2012 Essentials, Windows Server 2012 R2, 2016 Essentials
- Microsoft Windows Server 2012, 2012 R2, 2016. Gateways are not supported on SBS 2008 and Windows Server 2008/2008 R2. The minimum is SBS 2011 and Windows Server 2012.
- Microsoft Windows 8, 8.1, 10
- The OS must support TLS 1.2
- Quad Core CPU
- 2 GB of accessible memory
- Additional resources are needed depending on the amount of assets, monitors, and threads. Estimate memory requirements as follows:
 - > 10 kb for each assets
 - > 2 kb for each monitor
 - > 1 mb for each tenant partition
 - > 1 mb for each test thread

Dashboard Map Editor utility

Microsoft .Net Framework 4.0 or later

Server Sizing

Recommended minimum requirements for **Network Monitor** depend on the number of assets you intend to monitor, assuming 10 monitors per asset.

Note: A Network Monitor asset is a unique IP address. A monitor is a single test or metric of that asset. For example, a Windows machine, represented by a single IP address, might have many monitors, with each monitor returning data about a different performance metric for that machine.

Minimum requirements up to 100 assets

- 1 GHz CPU
- 2 GB memory
- 5 GB free disk space ⁽¹⁾

Minimum requirements up to 250 assets

- 2 GHz CPU
- 2 GB memory
- 10 GB free disk space ⁽¹⁾

Minimum requirements up to 500 assets

- Dual core >2 GHz CPU
- 4 GB memory
- 15 GB free disk space ^{(1) (2)}

Minimum requirements up to 1000 assets

Intel 2 GHz Quad core CPU

- 4 GB memory
- 25 GB free disk space ^{(1) (2)}

Minimum requirements up to 1500 assets

- Intel 2 GHZ Quad core CPU
- 4 GB memory
- 40 GB free disk space ^{(1) (2)}

Notes

¹ Disk consumption is noted per year for a normal installation with the described number of assets and monitors

² Kaseya recommends that **Network Monitor** be installed on a 1+0 Raid array with at least 4 GB of RAM for best possible report generation performance

Installing a New Instance of Network Monitor R95

Network Monitor R95 only runs as an integrated addon module with the VSA.

To add the Network Monitor R95 addon module to an existing VSA R95 on premises environment:

- 1. **Submit a support request** (https://helpdesk.kaseya.com/hc/en-gb/articles/360000333152) to have your VSA license updated to permit installing Network Monitor R95 as an addon module.
- 2. Run Kaseya Server Setup (http://help.kaseya.com/webhelp/EN/VSA/9050000/install/index.asp#home.htm) on the system hosting your Kaseya Server. Click Start > All Programs > Kaseya > Kinstall.
- In step 6. Enter Your Kaseya License Code (http://help.kaseya.com/webhelp/EN/VSA/9050000/install/index.asp#10338.htm) of the Kaseya Server Setup installation wizard, accept or re-enter your new license code and click Next.
- 4. Complete the installation or upgrade of your VSA.
- 5. Logon to your instance of the VSA and navigate to the Network Monitor module.

Migration of KNM standalone to KNM integrated

You cannot migrate **Network Monitor** standalone to **Network Monitor** integrated 9.2 or later. You must migrate a standalone instance of **Network Monitor** to an earlier version of the VSA before upgrading to 9.2 or later. See **migration instructions for 9.1**

(http://help.kaseya.com/webhelp/EN/knm/9010000/index.asp#18103.htm).

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Configuration Summary

If you're new to **Network Monitor** R95, the following configuration sequence is recommended to help you evaluate the product. Each step includes a link to a more detailed explanation of how to perform that step.

- 1. Review the Pre-installation Checklist (*page ii*), Server Sizing (*page iii*) and Network Monitor module requirements (*page ii*) topics.
- 2. Perform the steps described in Installing a New Instance of Network Monitor R95 (page iv).
- 3. Logon to the VSA (http://help.kaseya.com/webhelp/EN/VSA/9050000/index.asp#264.htm).
- 4. Review the **Getting Started** (*page viii*) section of this documentation to familiarize yourself with the module's user interface.
- 5. Run Network Discovery (page xix).
- 6. **Install a gateway** (*page xxi*) on a discovered network.
- 7. Add preconfigured monitors (page lii) to selected assets.
- 8. Change the settings for the monitor threshold so as to force the monitor test to fail. This will enable you to watch the **Alarm Status Progression** (*page xlv*).
- 9. Define **actions** (*page xlviii*) that are executed when a monitor fails a test a consecutive number of times.
- 10. Test the monitor by creating a **Simulate Alarm** (*page li*) report to confirm the alarm is configured as you expect.

Getting Started

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The Monitoring View

Network Monitor > Monitoring > View

The Network Monitor > Monitoring > View is the view you work with most often in Network Monitor. When selected, the entire screen is divided into four panels.

- Navigation Displays the three other panels when you select the VSA > Network Monitor > Monitoring > View item in the navigation panel. Other items in the navigation panel provide access to module-level settings and other views (page xvii).
- Monitor Tree Selects the group, gateway, asset or monitor you want to work with.
- Content Displays user content and settings—such as assets, monitors, or maps—either in a list view, a data view or as tabbed properties sheets.
- Action Displays the main properties and commands you can perform for a selected node.

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| | - Careta | | Move to other group |
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Monitor tree

The monitor tree organizes all groups, gateways, assets and monitors managed by **Network Monitor**. Using the tree you can quickly browse to any asset and monitor.

- Gateways A gateway monitors assets sharing the same subnet. For a standard install of Network
 Monitor there is only one Local gateway and it refers to the same network the Network Monitor
 server is installed on.
- Groups Used to group other nodes on the monitor tree. Groups do not correspond to a physical asset on a network. Think of them as representing logical business units, such as companies or departments, or a set of assets within a network.
 - > A node cannot be the child of more than one parent. This includes a suggroup node.
 - Groups can have sub-groups.
 - Groups can be added above or below a gateway.
- Assets Anything with an IP address. This includes computers, routers, switchers, mobile devices, printers, firewalls, etc.
- Monitors A monitor runs a specific test on an asset and reports the result back to the server. An
 asset can have multiple monitors.



Inheritance

Certain node properties can be **inherited** by nodes at a lower level. This design enhancement affects nearly every other aspect of configuration. With inheritance you can propagate configuration changes to hundreds, even thousands, of assets and monitors effortlessly, simply by making changes to a higher level node in the monitor tree.



For any one node you can elect to use either an inherited setting or override it. For example, the image below shows a setting that is inherited from a higher level node. You'll spot this same convention used throughout the **Network Monitor** user interface for many different types of properties. *Note that overriding an inherited setting affects all lower level nodes inheriting the changes you make.* Inheritance is enabled by default for every property that supports it.

| Alert and recovery settings | | |
|-----------------------------|------------------------|--|
| Inherit notification group: | 🔽 From: _{KNM} | |
| Inherit alarm messages: | From: KNM | |
| Inherit alarm actions: | From: KNM | |

Crumbline

A crumbline at the top of the monitor tree shows you the currently selected node in the tree. You can click anywhere in the crumbline to jump to that node in the monitor tree. Or you can select one of the child nodes of the currently selected node.



Lists Views

The tabbed middle panel shows the contents of any node selected in the monitor tree. If the selected

| node is a group, gateway or asset, you'll see a list lik | e the one below. |
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|--|------------------|

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|--|------------------------|-----------------------------|------------------|-----------------------|
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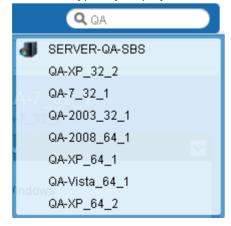
You can see all the assets and monitors that are members of that group or gateway. For example:

- The Assets tab displays all the assets that are members of the selected node in the hierarchy.
- The Monitors tab displays all the *monitors* that are member of the selected node in the hierarchy.

Node and User Search

A **Search** edit box displays in the upper right hand corner. Enter a string to search the monitor tree for all *group*, *gateway* and *asset* nodes that match the string entered. **Do not press the Enter key**. Just wait for the list of nodes to be displayed below the edit box, then select one to display that node.

- Searches include any text entered in the **Description** field of a node.
- Searches include the names and descriptions of users and user groups.
- List views typically display a similar Search edit box you can use to filter items in the list view.



List View Controls

Each list view provides a set of buttons at the top of the list that can be applied to multiple nodes in the list. You can can also page forward, page back, and **filter a list view** (*page xii*). Click a column header to sort the list by that column.

| Devices Monitors Map Toplist Schedules Actions Knowledge Audit | | | | |
|--|----------------------------------|-------------------------|---------------|--|
| 50 | • << >> Q | Search | All orgs | ▼ No filter ▼ Clear filter Save filter |
| $\oplus \odot$ | Device property 🔹 | Name V Matches | ▼ ag | |
| $\oplus \odot$ | Monitor type 🔹 🔻 | Disk utilization 🔹 Exis | ts 🔻 | |
| Statu | Device property Device status | View report | | |
| \checkmark | Device template Device type | Address | Machine group | Operating system |
| | Maintenance Monitor type | 🖉 ag-Nick-2003R2 | unnamed.root | Windows 2003 32-bit |
| | Operating system Taq | 🖉 ag-nick-w732a | unnamed.root | Windows 7 32-bit |
| | Logical expression | | | |

List View Filtering

Filtering List Views by Search

You can filter list views using the **Search** field. The data you can search for depends on the list view you have selected.

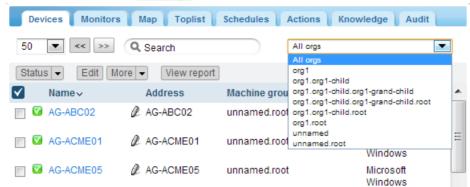
| When a Group is Selected | Assets tab | name, description, address and machine group name |
|---|------------------|---|
| | Monitors tab | name, asset name, machine group name |
| | Schedules tab | event/schedule description |
| | Knowledge tab | article ID, article title |
| | Audit tab | message text |
| When an Asset is Selected | Monitors tab | monitor name, type (e.g. 'CPU utilization') |
| | Knowledge tab | article ID, article title |
| | Audit tab | message text |
| | State change tab | message text |
| When a Knowledge Base Category is Selected | Articles | article ID, article Title |
| | Audit | message text |

Filtering List Views by Machine Group and Organization

On any node with an **Assets** tab or **Monitors** tab in the **Network Monitor** module, you can filter by organization and machine group.

An additional drop-down list displays with a default value of All orgs.

• Select any item in the All orgs drop-down list to filter the list of assets or monitors by that value.



- You can only see organizations and machine groups that have member assets found in the current network.
- Clicking a different gateway in the monitor tree typically shows a different set of organizations and machine groups.
- The list of organizations and machine groups that are visible to you are are limited by your selected VSA **scope** (*http://help.kaseya.com/webhelp/EN/VSA/9050000/index.asp#4578.htm*).
- Filtering does not affect the display of assets in the **monitor tree** (*page xx*).

Filtering List Views by Multiple Conditions

Asset tab and Monitor tab list views can be filtered by multiple conditions. Types of filters include:

- Asset property
- Asset status
- Asset template The asset or monitor is or is not associated with an asset template.
- System type
- Tag
- Logical expression

The following actions of available with conditional filters:

- New filter Adds a new conditional filter.
- Clear filter Clears a conditional filter from the list view.
- Edit filter Displays a saved conditional filter so you can edit it.
- Save filter Saves changes to a conditional filter.
- **Cancel edit** Cancels edit changes to a conditional filter.
- Delete filter Deletes a conditional filter.

| | Map Toplist Schedules | Actions Knowledge Audit | ▼ No filter ▼ Clear filter Save filter |
|---|-----------------------------|-------------------------------|---|
| Oevice property Monitor type | Name V Matches | ag | |
| Statu Device property Device status Device template | ✓ View report | - | |
| Device type Maintenance Monitor type | Address Ø ag-Nick-2003R2 | Machine group unnamed.root | Operating system Windows 2003 32-bit |
| Operating system Tag Logical expression | Ø ag-nick-w732a | unnamed.root | Windows 7 32-bit |

Data Views

If the node selected in the monitor tree is a monitor, then the Summary tab shows the data returned by

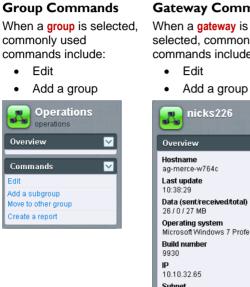
😨 The world 🕨 😨 Sweden 🕨 😨 Härnösand 🕨 😨 SW-HÄ-CI-0 🕨 😨 Ping . 🖃 🧐 🕜 The world Summary Actions Audit State change log Simulate alarm 🗄 🙆 🔽 Chile 🗄 🙆 🖸 Finland Monitor status E O France Roundtrip: 70 ms 🗄 🙆 🖸 Germany Packetloss: 0.00 % 🗄 🔕 🖸 Iceland 🗄 🙆 🖸 Norway - O Sweden Live data Hamösand GSW-HÀ-CI-0 Ping roundtrip time 🗓 😨 Total connections 100 🗓 😨 VPN tunnel active courr 0 CPU utilization 🗓 🎯 Free memory I SIKE traffic 61 I SMemory utilization ms Ping a i Ping 2 🗓 🕜 Ping agent 0 CRAS tunnel active count 🗄 😭 😋 SW-HÀ-CI-1 B C SW-HÀ-CI-10 00:00 02:00 04:00 06:00 08:00 10:00 12:00 14:00 16:00 18:00 20:00 22: Roundtrip 🗄 🗑 😋 SW+HÅ+CI-11 Packetioss E CSW+HÅ-CI-12 Time Roundtrip Packetioss 🗄 🕡 😋 SW-HÀ-CI-13 44 1 to 25 out of 354 🕨 🗄 🗑 😋 SW+HÅ-CI-14 🗄 🕡 😋 SW-HÀ-CI-15 2012-12-21-23:13:54 70 ms 0 % 🗄 📦 😋 SW-HÀ-CI-16 2012-12-21 23:08:40 66 ms 0% E CISW+HÀ-CI-17 2012-12-21 23:03:36 92 ms 0 % H CI-18 -2012-12-21-22:58:20 40 ms 0 %

that monitor.

Properties and Commands

When a group, gateway, asset or monitor is selected, certain properties and commands display in the right hand pane.

•



Gateway Commands

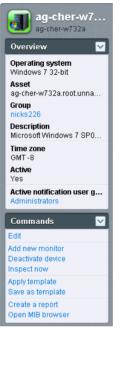
selected, commonly used commands include:



Asset Commands When an asset is selected.

commonly used commands include:

- Edit
- Add new monitor



Monitor Commands

When a monitor is selected, commonly used commands include:

- Edit •
- Test Now •



Edit Menus

When you click the Edit command for a selected node you typically see a tabbed set of properties sheets. Hovering the cursor over most fields displays a tooltip balloon on the right side, providing an explanation of the field.

| lame: | ag-nick-w732a |
|----------------------------|---------------------------------|
| Address: | ag-nick-w732a |
| Operating system: | Windows Vindows 7 32-bit |
| Device type: | Other • unidentified • |
| Description: | Windows 7 |
| Free text: | |
| | |
| | |
| | h |
| ert and recovery settings | |
| | C Franzi (Administratova) |
| nherit notification group: | From: nicks226 (Administrators) |
| nherit alarm messages: | From: nicks226 |
| nherit actions: | From: nicks226 |
| | |

Click the **Save** or **Cancel** button to close the edit menu and return to the **List View** (*page x*) or **Data View** (*page xiii*) of the selected node.

Moving Nodes

Let's take a look at how the monitor tree can be reorganized by moving one branch of the monitor tree to the next. You can only move assets between groups *within the same gateway node*.

| CKNM | Devices Monitors Map Top 50 << >> Q, Search | All orgs | Knowledge Audit | No filter New filter Refre |
|--|---|----------------------|-----------------|------------------------------------|
| ⊖ ∰ Operations | Status - Edit More - View | report | | |
| 😑 📦 🖸 ag-acme01.acme.com 🕀 📦 🖓 ag-acme02.acme.com | Name V Inspect now | Address | Machine group | Operating system |
| 🕀 🌍 😋 ag-acme05.acme.com | Move | 🖉 ag-acme01.acme.com | unnamed.root | Microsoft Windows |
| 🖨 🗑 🖸 ag-cher-w732a | 🖉 🖾 ag-acme02.acme.com | 🖉 ag-acme02.acme.com | unnamed.root | Microsoft Windows |
| 🖶 📦 🔽 ag-cher-w732b 🖶 📦 🔽 ag-ed-w732a | 🕜 🗹 ag-acme05.acme.com | 🖉 ag-acme05.acme.com | unnamed.root | Microsoft Windows XP |
| ₩ 📦 🔽 ag-ed-w732b | 📄 🥝 ag-cher-w732a | 🖉 ag-cher-w732a | unnamed.root | Windows 7 32-bit |

- 1. Select a gateway or group node.
- 2. Select the assets you want to move from the list view.

3. Click the Move button. The Move assets page displays.

| Dashboard Monitoring Kno | ledge base |
|--|--|
| 😫 KNM 🕨 😫 Default group 🕨 🔛 Kirkland 🕨 | Discovery group |
| | Move devices Selected devices |
| | Dev/ce Current group QA-XP_64_1 Discovery group QA-Vista_64_1 Discovery group QA-XP_64_2 Discovery group Select destination group Select destination group |
| | Search: Kirkland Inner |
| | Selected group: |

- 4. Enter text that matches the target node in the **Search** edit box. A drop-down list of possible nodes displays.
- 5. Click the target node in the drop-down list.
- 6. Click the Select button. The target node now displays in the Selected group field.
- 7. Click Save. The nodes are now moved to their new location in the monitor tree.

Note: You can also click the Select button to browse for a target node.

VSA Integration

Navigation Panel Overview

The **Network Monitor** navigation panel provides different views of content and enables you to configure module-level settings.

| 1 📍 1 🛛 📾 0 📮 12 🐺 0 🐯 | a | | | | | | | | Search Machines |
|---------------------------------------|---|-----|------|---------------------------|------|---------------------------|-----------------|------------------------|--|
| < Kaseya | | | | | | | | | 🙎 kadmin + 🥝 L |
| - nascya | | | | | | | | | 🚯 00:00:00 No Timer Run |
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| rett Koviçallar | | | _ | | | | | | Common second second |
| Network Monitor | E C KOM | | sset | Monitors Map T | opla | st Schedules Actions | E Knowled | ige Audit | 📻 unnamed |
| Monitoring | Canolietwork | - | | | | | | | |
| Vew | | 50 | • | < >> Q, Search | | All orgs | | No filter • New filter | Overview 🗸 |
| Reports | ⊕ 😡 😋 ag-green-w732a | Sta | us . | Edit More + View | reps | art i | | | Controlew 🗠 |
| View | 🛞 😡 🚱 dc-bigcompany.big. | 1.1 | 1 | | | 100000 | Machine | Operating + | Notification user group |
| Report Templates | 🖶 😥 🔂 dev-sjc-esx15.kasr | | | Name 🗸 | | Address | group | system | Administratora |
| Report styles | 🖶 🕡 😳 çə-əv-w 632. məinət | - | - | an-oven-w732a | 0 | ap-preen-w732a | | Windows 7 32-bit | Time zone GNT -8 |
| Knowledgebase | 🗄 😥 😳 qadownioad.dev.kz | 8 | - | an-meen-wr.248 | 4 | ag-green-w/328 | | | 7720.07777 |
| View | 🛞 🖓 😋 qa. win 83203 | 8 | 0 | do- | a | dc- | unnamed root | | Hostname |
| Dashboard | 🕀 😡 😳 ca-win201208 | | - | bigcompany big company ga | 2 | bigcompany big company ga | | Windows | Contraction and the second second |
| View | B D Coa-win832p02 | 8 | • | dev-sic-esx15 kaseys.com | 4 | dev-sjc-esx15.kaseya.com | unnamed root | VII ware ESXI 4.1 | Last update 2014-05-14 10:59:46 |
| 5 Schedules | E Carwin201209 | 8 | | ga-av-w832 mainstreet.ga | 1 | qa-av-w832.mainstreet.qa | unnamed root | Windows 7 32-bit | Data (sent/received/total) |
| Device maintenance | - 60 (Gaa-win83201 | | | gadownicad dev kaseva com | 0 | gadownload dev kaseya.com | unnamed mot | Wadaws 7 32,bit | 62 / 47 / 109 bytes |
| Hontor maintenance | E @@pa-win832p01 | 1.1 | - | | - | | | | Operating system |
| User notification schedules | B @ 00-win201203 | | • | ga-win83203 | ¢ | qa-win83203 | unnamed.root | Windows 7 32-bit | NIA |
| Tools | ☐ @@ktu-Win7x84-02 | 10 | | da-win201205 | a | qa-win201205 | unnamed root | Windowis 7 32-bit | Build number |
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| Svalog message | | 8 | 1 | ge-win201209 | 2 | ge-win201209 | unnamed root | Windows 7 32-bit | NA |
| - System admin console | 0 0 0 0 0 1 2 0 1 2 0 7 | | - | ga-win83201 | 4 | ge-win83201 | time and shared | Windows Server | Agent ag-nick-w732a |
| System log | E COWN-BRTLUNSROM | | - | All WILLIAM . | 4 | da.o.companya. | un aneu nou | 2008 32-ы | Subnet |
| Trap messages | ⊕ 😡 @qa-win201208 | 100 | | ga-win632p01 | 1 | ga-win832e01 | uncerned cool | Windows 7 32-bit | NIA |
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| User notification groups | 🖶 😥 😋 KBU-Win7_x32-2 | 8 | 0 | 100-Win7x64-02 | 2 | kbu-Win7x84-02 | unnamed root | Windows Server | 10 |
| Settings | 🕀 😡 🚱 🚱 qa-w 832 p06 | | | | | | | 2008 32-bit | |
| Customized datatypes | → → → → → → → → → → → → → | 8 | 9 | ge-win832e05 | 2 | ga-win832p05 | unnamed root | Windows 7 32-bit | Add a subgroup Unive to other aroun |
| igation Mode: > Classic | ₩ 60 €0 KBU-Win7_x32-1 | | | | | | | | Life new articland supply |

These functions are detailed in the Navigation Panel Reference included with this documentation. The following is a summary description of each option in the navigation panel.

| Functions | Description |
|-------------------------------|---|
| Monitoring > View (page viii) | Selects the monitoring view (page viii). |
| Reports > View | Configures customized reports that are bound to selected sets of nodes. |
| Report Templates | Configures report templates that can be applied to any set of nodes. |
| Report styles | Configures the overall look of reports, report templates and customized reports. |
| Knowledgebase > View | Selects the Knowledge base view. |
| Dashboard > View | Selects the Dashboard view. |
| Asset maintenance | Configures asset maintenance schedules. |
| Monitor maintenance | Configures monitor maintenance schedules. |
| User notification schedules | Configures Network Monitor user work schedules. |
| Management Windows services | Selects the Management Windows services view. |
| MIB browser | Selects the MIB browser view. |
| Record manager log | Selects the Record manager log. |
| Syslog message | Selects the Syslog messages view. |
| System admin console | Selects the System admin console view. |
| System log | Displays log entries created by the Kaseya Network Monitor service. |
| Trap messages | Selects the SNMP Trap messages view. |
| My settings | Selects the Edit my settings view. |
| User notification groups | Maintains user groups. Asset notifications are sent to all members of the notification user group assigned to that asset. |

| Customized datatypes | Creates customized data types for use with monitors capable of storing generic data. |
|-----------------------|--|
| Asset templates | Configures sets of monitors that can be applied to an asset in one step. |
| Log settings | Sets log policies for Network Monitor. |
| NOC configuration | Creates customized NOC (Network Operations Center) views. |
| Other system settings | Specifies additional settings for alerts and other events. |
| SMS | Sets SMS message settings. |

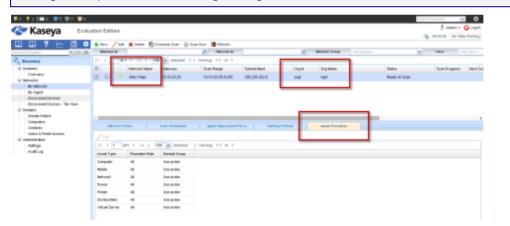
Integration with Discovery

Network Monitor uses the **Discovery** module to perform network discovery. With **Discovery** you only have to install a single agent on a single network machine to discover all the other devices on that network. Once detected, the network displays on the **By Network**

(http://help.kaseya.com/webhelp/EN/KDIS/9050000/index.asp#10627.htm) page, as shown below.

Note: See the Agent Deployment

(http://help.kaseya.com/webhelp/EN/VSA/9050000/EN_AgentDeployment_R95.pdf#zoom=70&navpanes=0) quick start guide if you're new to working with agents.



Network Discovery

- 1. Navigate to the Discovery Summary > **By Network** (http://help.kaseya.com/webhelp/EN/KDIS/9050000/index.asp#10627.htm) page.
- 2. Select the network row in the upper panel and click Edit.
- 3. Enter a Network Name that is easy to remember.
- 4. Specify the IP scan range or accept the default value.
- 5. Select the organization associated with this network.

Note: This assignment allows networks to be included or excluded in scopes (http://help.kaseya.com/webhelp/EN/VSA/9050000/index.asp#4578.htm). The scope you are using with your VSA user logon determines whether you can see the network in Discovery and the corresponding gateway node in Network Monitor. This assignment has no effect on the organization and machine group assigned to discovered assets.

6. Check the **Monitor Network** checkbox. This must be enabled for each network you choose to monitor in Network Monitor. It is unchecked by default.

Warning: Unchecking the Monitor Network checkbox for a network in Discovery causes any Network Monitor monitoring you have configured for devices in this network to be lost.

7. Save but do not start the scan yet.

Asset Promotion

Any discovered devices you decide to manage in the VSA are called "assets" and must be associated with an organization and machine group to work with them after discovery. Agent assets are associated with an organization and machine group when an agent is installed. Marking a non-agent device as an "asset" is called *asset promotion*. Network Monitor only monitors *assets*.

Discovery automates the promotion of a device to an asset using the **Asset Promotion** tab. By default, all discovered devices are assigned the same organization and machine group as the agent probe used to scan devices on the network. You can choose to assign discovered devices to different organizations and machine groups if you like, based on asset type.

Scanning

Click **Scan Now** to begin detecting devices on the selected network immediately. You can also schedule device discovery on a recurring basis using the **Schedule Scan** button.

As soon as the scan starts you can navigate to the **Network Monitor** module and begin to see assets displayed in the **monitor tree** (*page xx*).

Gateway Nodes and Network Discovery

Gateway Nodes

Each network detected by **Discovery** displays as a gateway node underneath the top KNM node in the monitor tree. There is a one to one correspondence between networks detected in **Discovery** and gateway nodes shown in **Network Monitor**. You cannot delete a gateway node in the **Network Monitor** module of the VSA.

If you change the name of the network in **Discovery**, the name of the gateway node changes in the **Network Monitor** module.

Expand each gateway node to display the assets discovered on the network and marked as assets. The list of assets includes computers and devices installed with an agent and agentless computers and devices **promoted to an asset** (*page xix*).



Adding Groups Manually

You can add groups to gateway nodes. Recurring network discovery scans do not move re-discovered assets out of the groups they are assigned to.

Moving Assets

You can only move assets between groups within the same gateway node.

Installing/Uninstalling Gateways

Gateways collect monitoring data from assets connected to the same network as the gateway. The gateway then forwards that monitoring data to the **Network Monitor** server.

Gateways are installed on agent machines that are members of a **network discovered using the Discovery module** (*page xix*). All other assets on the network can remain agentless and **Network Monitor** will still be able to monitor them. The agent machine hosts the additional gateway software required to both collect monitoring data and relay it to the **Network Monitor** server.

Installing Gateways

If you have not installed a gateway for a gateway node yet, a blue **s** icon displays, meaning no connection can be made to the assets in the network. To install a gateway:

- 1. Select the gateway node in the monitor tree.
- 2. Click the **Install gateway** command.

| Commands 🔽 |
|---------------------------------------|
| Edit |
| Add a subgroup Move to other group |
| Add new scheduled event |
| Create a report |
| Install gateway |

- Select Agent on the Settings tab. Select any Windows-based agent machine on the selected network and install a gateway on it.
- Click the Authentication tab and enter a Window credentials that will allow you to install the gateway.
- 5. Click **Save** to initiate the installation of the gateway.

In less than a minute, all the blue icons should turn green, meaning all assets can be connected to and are capable of returning data to the **Network Monitor** module server. You can now begin to **add monitors** (*page li*) or **add preconfigured monitors** (*page lii*) to assets.

Uninstalling Gateways

For the same network, you can uninstall a gateway on one agent machine and reinstall the gateway on a different agent machine. Uninstalling a gateway does not uninstall assets and monitors that are members of that gateway node. Reinstalling the gateway on a different agent machine on the same network allows assets and monitors to once again connect and return data.

Organizations and Machine Groups

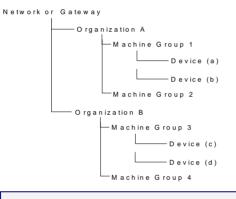
Organizations and machine groups are logical "containers" in the VSA used to organize all "assets" managed by the VSA. An asset is any machine or asset you choose to manage. Within the VSA you can assign any asset to any combination of organization and machine group.

Standard VSA hierarchies—networks, organizations, machine groups and managed assets—are mapped to the **Network Monitor** module as follows:

| Discovery | | Network Monitor | |
|-----------------------------------|---|---|--|
| Networks | → | Gateways | |
| | | Create groups above a gateway node. | |
| Organizations / Machine Groups | → | Filter asset lists and monitor lists by organization and machine group. | |
| | | Create groups below a gateway node. | |
| Managed Assets (Machine or Asset) | → | Assets | |
| | | Monitors - added within Network Monitor | |

The Network Hierarchy

Each network can contain multiple organizations. For example, two teams from two different companies, could share the same network for an extended project. In this case the VSA would show a single network that includes assets from two different organizations and machine groups.



Note: Machine groups and organizations can be used to filter list views (page xii) in Network Monitor.

Renaming Gateways and Assets

You cannot rename gateways or discovered assets **promoted to an asset** (*page xix*) within the **Network Monitor** module. When you edit these nodes you'll notice their names are display only. The addresses of assets displayed in **Network Monitor** are display only as well. Navigate to the following locations to change the names of the gateway nodes and asset nodes displayed in **Network Monitor**.

Networks

- Rename the corresponding network for a gateway using the Discovery > By Network (http://help.kaseya.com/webhelp/EN/KDIS/9050000/index.asp#10627.htm) > Edit dialog.
- You can use the same Edit dialog above to change the organization assigned to the network.

Discovered Assets

Rename discovered agent-less assets using:

- Discovery > Discovered Devices (http://help.kaseya.com/webhelp/EN/KDIS/9050000/index.asp#10619.htm)
 > Rename Asset
- Discovery > Discovered Devices Tile View

(http://help.kaseya.com/webhelp/EN/KDIS/9050000/index.asp#10620.htm) > Rename Asset

Change the organization and machine group assigned to agent-less assets promoted to an asset using:

 Audit > View Assets (http://help.kaseya.com/webhelp/EN/VSA/9050000/index.asp#10649.htm) > Change Group

Discovered *agent-less* devices can be removed from the **Network Monitor** monitor tree. Use the following to "demote" devices that are agent-less. This means you no longer wish to manage them throughout the VSA.

 Audit > View Assets (http://help.kaseya.com/webhelp/EN/VSA/9050000/index.asp#10649.htm) > Demote Asset to Asset

Ticket action

The Ticket action creates a ticket when triggered by an alarm count on an asset **Network Monitor** is monitoring. By default the Ticket action is inherited by all assets from the KNM group node. The alarm count is set to 1.

Note: A ticket is created in either the Ticketing module or Service Desk, depending on whether Service Desk has been activated (http://help.kaseya.com/webhelp/EN/KSD/9050000/index.asp#5478.htm) within the VSA.

Parameters

- Alarm number The alarm count (page xlviii) this action triggers on.
- User Select a default VSA user for the Ticket action. This is the VSA user assigned to the created ticket if no other VSA user is assigned.

User Integration

User logons for **Network Monitor** are created using System > **Users** (*http://help.kaseya.com/webhelp/EN/VSA/9050000/index.asp#4576.htm*).

- Access to nodes within Network Monitor are managed using System > Scopes (http://help.kaseya.com/webhelp/EN/VSA/9050000/index.asp#4578.htm). Access to any node depends on the organization and machine groups associated with that node and the selected scope you are using.
- Access to Network Monitor functions—such as items in the navigation panel—are managed using System > User Roles (http://help.kaseya.com/webhelp/EN/VSA/9050000/index.asp#4577.htm).
- Each VSA user is defined with a specified email address. Each user can update their own email address using System > Preferences
 (http://help.kaseya.com/webhelp/EN/VSA/9050000/index.asp#503.htm).

Note: See the User Administration

(http://help.kaseya.com/webhelp/EN/VSA/9050000/EN_useradmin_R95.pdf#zoom=70&navpanes=0) quick start guide for more information.

User Notification Groups

The User group list maintains user groups used by **Network Monitor**. A **Network Monitor** user group comprises VSA users.

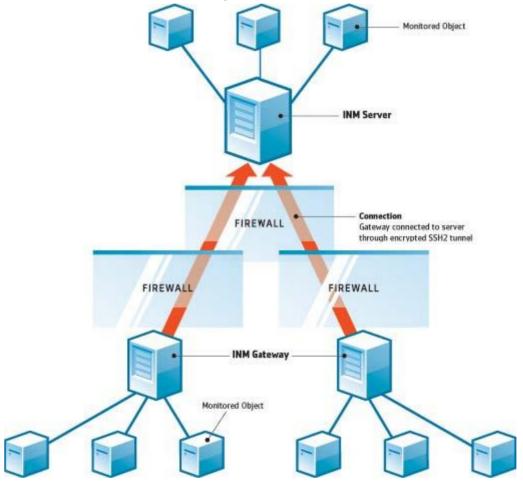
Network Monitor asset notifications are sent to all members of the user group assigned to that asset using the **Notification user group** setting on the **Basic properties tab** (*page xli*) of the asset.

Network Monitor Licensing in the VSA

Used and available licenses for **Network Monitor** are displayed on the VSA > System > **License Manager** (http://help.kaseya.com/webhelp/EN/VSA/9050000/index.asp#2924.htm) page. An agent license is consumed for each non-agent asset—machine or device—monitored using **Network Monitor**. A machine or mobile device that already has an agent installed on it does not consume an additional agent license when monitored by **Network Monitor**. One agent license is consumed for an asset regardless of the number of monitors on that asset.

Gateways

Network Monitor supports the monitoring of servers, routers and other types of assets on *multiple networks*. A gateway is installed on the server's local network and each remote network managed by **Network Monitor**. Assets are monitored by the gateway sharing their same network. Each gateway, local and remote, sends its monitoring results back to the **Network Monitor** server.



Network Monitor Server

The **Network Monitor** server contains a database and management interface providing a consolidated view of all data returned by all gateways. Remote gateway assets are managed exactly

the same as any local gateway. This makes **Network Monitor** very simple to configure and manage. This process is completely transparent to the user.

Network Monitor Gateway

A gateway acts on requests from the server. Except for a small cache file, gateways do not store any configuration or statistical data locally. All data is sent immediately to the server. The gateway must be installed on an agent machine.

Server and Gateway Communication

The data between a gateway and the server is always sent from the gateway to the server. The idea behind this solution is that more gateways than servers are deployed, so the administrator only has to open one port on the server firewall to allow communication.

If, for any reason, the gateway cannot connect to the server, the gateway starts buffering test results and statistics while waiting for the server. This buffering time can be configured per gateway.

Security and data integrity is achieved by using the state of the art communication protocol SSH2. The SSH2 protocol encrypts data with public key algorithms and protects connections from man-in-the-middle attacks. This is the same way VPN software establish secure tunnels over the internet.

Time Synchronization

Network Monitor automatically adjusts for time zone differences. The administrators must ensure the clock on gateways are synchronized with the clock in the **Network Monitor** server. We recommend that server and gateways be synchronized with a time synchronizing service such as NTP (Network Time Protocol). Failure to synchronize time between server and gateway may lead to unpredictable results in alarm generation and statistical storage.

Gateway nodes

Gateway nodes display as specialized nodes on the monitor tree. Gateway views, commands and properties are similar to **groups** (*page xxxvi*). Gateway nodes have additional, specialized **properties and commands** (*page xxv*) for managing a gateway installed on a network.

In This Section

Gateway Commands and Views Editing Gateways

xxv xxxi

Gateway Commands and Views

Commands

These commands display when a gateway node is selected, regardless of the view tab selected at the top.

- Edit Edits the **properties** (*page xxxvi*) of a gateway.
- Add a subgroup Creates a new subgroup (page xxxvi) as a child node.
- Move to other group Moves the selected gateway to another group.
- Delete a group Deletes the currently selected gateway node. You cannot delete a group that has child nodes.
- Add asset Adds an asset manually. Specify an asset hostname, asset type and machine group.
- Add new scheduled event Adds a scheduled event (page xxix).
- Create a report Creates a report (page lxi).
- Deploy gateway Installs a gateway (page xxi) on an agent machine.

Uninstall gateway - Uninstalls the gateway previously installed by the agent. Uninstalling a gateway
does not uninstall assets and monitors that are members of that gateway node. Reinstalling the
gateway on a different agent machine will allow assets and monitors to once again connect and
return data.

Views

Gateways and groups share the same set of views.

- Assets tab (page xxvi) This tab displays with gateways and groups.
- Monitors tab (page xxvi) This tab displays with groups, gateways, and assets.
- Map tab (page xxvii) This tab displays with gateways and groups.
- **Toplist tab** (*page xxviii*) This tab displays with gateways, groups, and assets.
- Schedules tab (*page xxix*) This tab displays with gateways and groups.
- Actions tab (page xlviii) This tab displays with groups, gateways, assets and monitors.
- Knowledge tab (page xxxi) This tab displays with gateways, groups, and assets.
- Audit tab (page xxxi) This tab displays with groups, gateways, assets and monitors.

Assets tab

This tab displays with gateways and groups.

The Assets tab displays all assets on multiple levels that are members of this node.

Actions

These are the actions available at the top of the list view when one or more assets are selected.

- Status
 - Activate Activates selected assets—and all monitors assigned to those assets.
 - > Deactivate Deactivates selected assets—and all monitors assigned to those assets.
- Edit Edits a selected asset. If multiple assets are selected, edits only those properties shared by those assets.
- More
 - > Move Moves selected assets—and all monitors assigned to those assets—to a group.
 - Inspect Now Inspects multiple assets to determine the appropriate pre-configured monitors (page lii) for these assets. You may want to run Inspect Now if the credentials or configuration of the asset have changed. After running Inspect Now, click Add New Monitor for each asset to see the list of pre-configured monitors.
- View report Generates a report (page lxi) for selected assets.

Table Columns

- Name The name of the asset.
- Address The network name or IP address.
- Machine group The machine group assigned to the discovered asset in Discovery.
- Operating System The system type of the asset.

Monitors tab

This tab displays with gateways, groups, and assets.

The Monitors tab displays all monitors on multiple levels that are members of this node.

Actions

These are the actions available at the top of the list view when one or more monitors are selected.

Status

- > Acknowledge alarm Acknowledges alarms (*page lx*) on selected monitors.
- > Activate Activates selected monitors.
- > Deactivate Deactivates selected monitors.
- **Deletes** Deletes selected monitors.
- Edit Edits a selected monitor. If multiple monitors are selected, edits only those properties shared by those monitors.
- Test Now Tests selected monitors immediately.
- View report Generates a **report** (*page lxi*) for selected assets.

Table Columns

- Name The name of the monitor. Click the name of a monitor to jump to that node.
- Asset The name of the asset. Click the name of the asset to jump to that node.
- **Type** The type of monitor.
- Status The value returned by the latest test.

Map tab

This tab displays with groups and gateways.

The Maps tab displays a large map when a map-enabled node is selected.

- The large map scales automatically to encompass the locations of all map-enabled *child nodes* of the currently selected node.
- Clicking a map location icon jumps to that node in the monitor tree. If an icon represents multiple child nodes at the same location, a list of child nodes displays. Clicking a child node jumps to that node in the monitor tree.

Smaller Map

A smaller map, in the lower right hand corner of the page, shows the location of the *currently selected node*.

Inheritance

Gateways, groups, and assets can be associated with a location on a map and a local time zone. Lower level nodes can inherit their geographical locations from their parent nodes. For example, setting the location of gateway or group for a single building can effectively set the location and local time zone for all the assets in the same building.

Configuration

Map settings are typically configured on the **Advanced** tab of a node. **Network Monitor** is integrated with the Google Maps API. This means you can use either the *name of a location* or *GPS coordinates* using decimal notation, such as -33.469048, -70.642007, to identify the location of any node.

| Edit group | Basic prope | arties Advanced | Authentication | NOC | Access | Tags | |
|-----------------|-------------|---------------------|---------------------|-----|--------|------|--|
| | | | | | | | |
| Map and locatio | n settings | | | | | | |
| Inherit map se | ttings: | From: Aliso Viejo (| 33.575, -117.725556 |) | | | |
| Map setting: | | Use google maps | · | | | | |
| Google map di | splay: | 🔽 Gateway 🔽 Group | s 🔽 Devices | | | | |
| Geographic loo | cation: | San Clemente Califo | mia | | | | |
| Inherit timezor | 18: | From: Aliso Viejo (| GMT-12) | | | | |

Map and location settings

- **Inherit map settings** If checked, **map settings** (*page xxvii*) are inherited from the parent node and the other three map options remain hidden. Uncheck to specify your own map settings.
 - > Map setting Use google maps. This is the only option available at this time.
 - Google map display Checking these options determines whether gateways, groups and assets are shown on the map.
 - Geographic location Enter the name of a location or GPS coordinates using decimal notation, such as -33.469048, -70.642007.
- Time zone Monitors display their real time charts in the asset's local time.
 - Inherit time zone If checked, inherits time zone settings from the parent node. Uncheck to specify you own time zone settings.

Toplist tab

This tab displays with gateways, groups, and assets.

The **Toplist** tab displays the values returned by multiple assets *for the same type of monitor*. These values are continuously updated in real time. This enables you to compare the values and identify poor performing monitors. Because multiple assets are required for a toplist, only gateways and groups display a **Toplist** tab. Toplists can also be included in reports.

| | Devices Monitors Mag | Toplist Events Audit | |
|---|-------------------------------|----------------------------------|--------------|
| C Stockholm | Refresh 🗹 Snapshot @ Stored I | ist C | |
| ⊖ 🖓 😋 SW-ST-WI-0 | | | |
| - III @Ping agent | Type CPU utilization | % 💌 Sort Highest entries first 💌 | Entries 25 💌 |
| - 🗓 😴 User logon error | | | |
| - 📗 😴 Total disk usage | Monitor | Device | Value |
| - III GTotal CPU utilization | CPU utilization | N0-08-CF24 | 79.0 |
| - 🗓 😴 Memory utilization | CPU utilization | UR-CI-CI-55 | 79.0 |
| - II CDNS monitor | CPU utilization | IC-AK-CI-43 | 78.9 |
| - 🗓 🔁 Catch all Audit Failures | CPU utilization | US-SE-CI-85 | 78.9 |
| I SAccount logon time viola | CPU utilization | IC-RE-CI-63 | 78.9 |
| I] Restricted logon | CPU utilization | FI-HA-CI-32 | 78.9 |
| 📗 📴 Total free paging file | CPU utilization | NO-BE-CI-50 | 78.8 |
| 🗄 📦 📴 SWI-ST-WI-1 | CPU utilization | FFLO-CI-59 | 78.8 |
| 🗄 📦 🛂 SW-ST-WI-2 | CPU utilization | FI-UL-CI-80 | 78.8 |
| 🖶 📦 😋 SW- ST-WI- 3 | CPU utilization | US-MI-CI-4 | 78.8 |
| 🗄 📦 🔽 SWI-ST-WI-4 | CPU utilization | SW-KI-CI-86 | 78.7 |
| 🖶 📦 😨 SW- ST-WI- 5 | CPU utilization | IC-RE-CI-37 | 78.7 |
| 🖶 📦 😋 SW-ST-WI-6 | CPU utilization | IC-KE-CI-86 | 78.7 |
| 🖶 📦 📴 SWI-ST-WI-7 | CPU utilization | IC-RE-CI-22 | 78.7 |
| 🖶 📦 📴 SWI-ST-WI-8 | CPU utilization | US-DA-CI-5 | 78.6 |
| 🖶 📦 📴 SW-ST-WI-9 | CPU utilization | SW-HĀ-CF7 | 78.6 |
| 🕀 📦 📴 SW-ST-WI-10 | CPU utilization | NO-TR-CI-3 | 78.6 |
| 🕀 📦 📴 SW-ST-WI-11 | CPU utilization | US-DA-CI-47 | 78.6 |
| 🕀 📦 🖬 SW-ST-WI-12 | | | |
| 🕀 📦 🖬 SW-ST-WI-13 | CPU utilization | UR-PA-CI-56 | 78.6 |
| 🗄 📦 😋 SW-ST-WI-14 | CPU utilization | FHUL-CH50 | 78.5 |
| 🗄 📦 🔤 SW-ST-WI-15 | CPU utilization | IC-HA-CI-78 | 78.5 |
| 🛞 📦 🚰 SW-ST-WI-16 | CPU utilization | IC-HA-CI-36 | 78.5 |
| 🛞 📦 🚰 SW-ST-WI-17 | CPU utilization | FFTA-CI-35 | 78.4 |
| 🖶 📦 😨 SW-ST-WI-18 🖶 📦 😨 SW-ST-WI-19 | CPU utilization | NO-TR-CI-99 | 78.3 |

Actions

- Refresh If checked, refreshes the page.
- Choose one of the following:
 - > Snapshot A snapshot toplist displays the latest value for each monitor in the list.
 - Stored list Stored list toplists display the min, max and average of monitor values, for a selected daily, weekly and monthly time periods.

- Load Displays only if Stored list is selected. Displays the selected toplist.
- Load for Compare Compares two toplists.
 - 1. Select a *first* toplist and click Load.
 - 2. Select a *second* toplist of the same Type, then click Load to Compare.

The *first* toplist displays on the on left. The second toplist displays on the right. You can now see how the monitored properties for a particular monitor changed between the two toplists.

The following Sort options can only be used when comparing two toplists.

- > **Top movers** Entries that have moved the most up or down.
- > Top climbers Entries that moved up the most.
- > Top fallers Entries that have moved down the most.
- Type The toplist data type and unit of measure.
 - CPU utilization
 - Disk utilization
 - Free disk space
 - Bandwith utilization
 - Ping roundtrip time
 - Ping packetloss
 - ➢ Free memory
 - Swap utilization
 - Webpage fetch time
- Data
 - Sampled min value
 - Sampled max value
 - Period average
- Sort
 - Lowest entries first
 - Highest entries first
- Entries Number of entries to display.

Table Columns

- Asset The name of the asset. Click the name of the asset to jump to that node.
- Monitor The name of the monitor. Click the name of the monitor to jump to that monitor.
- Value The value returned by the latest test.

Schedules tab

This tab displays with gateways and groups.

The **Schedules** tab schedules actions for a specific date and time—instead of waiting for a monitor to trigger the action. Events can be scheduled to run once or repeatedly.

Note: Events are not inherited. Any group or gateway can schedule any event for any host. For security reasons, *you should use schedule events from the gateway node or group of the asset you're targeting.* This ensures scheduled events for these assets can be viewed only by users who are authorized to see them.

Click the **Schedules** tab for any gateway or group. The tab shows any previously scheduled events. Click the **Add schedule event** command. A list of event actions displays. Click one to edit the event.

| Select event |
|---|
| New scheduled event |
| 😑 Messaging |
| -Send SMS |
| -Net send |
| -Send email |
| Send message via PageGate |
| Network |
| -SNMP Set |
| -HTTP GET/POST request |
| Send Wake-On-LAN packet |
| Execute command via SSH2/Teinet |
| 😑 Reports |
| Generate report |
| 😑 Windows specific |
| Execute Windows command |
| Windows service control |
| Clear eventiog |
| Others |
| Export statistics |
| - Trigger monitor |
| 🚍 Script |
| 🛞 Lua scripts |
| |

The configuration details depend on the type of event action you select. When specifying a host, enter the DNS hostname or IP address. Scheduling an event from a parent group or gateway for the asset you're targeting is more likely to provide you with the appropriate credential, if one is required.

| Edit scheduled event | Event configuration |
|-------------------------|----------------------------|
| | |
| Event configuration | |
| Run-once event: | Run once C Repeating event |
| Date: | 2012-10-30 |
| Time: | 15:00 |
| | |
| Windows service control | |
| Hostname: | SW-ST-WI-0 |
| Service name: | wuauserv |
| Туре: | Restart service 💌 |
| Inherit credentials: | From: Stockholm |
| | |
| | Save |

Scheduling

All events provide the same scheduling options.

Run Once Events

- Date Enter the date.
- Time Enter the time.

Repeating Events

- Active between Specifies the date range the event repeats. Specify the range using a YYYY-MM-DD format. If these fields are left empty the event is always repeats.
- Day of week By checking a day, the event repeats only on selected days of the week.

- Hour(s) in day The hour and minute each day you want the event to repeat. Format is HH:MM,HH:MM,...
- Last in month If checked, the event repeats the last day of every month.
- Days in month If checked, the event repeats on specific days of the month. Specify days separated with a comma.

Knowledge tab

This tab displays with gateways, groups, and assets.

The Knowledge tab displays the list of knowledge base articles assigned to that node.

Actions

- Attach article Assigns selected articles to selected groups and assets.
- Detach article Unassigns selected articles from selected groups and assets.

Related Topics

- Knowledge Base Articles
- Knowledge Base Categories

Audit tab

This tab displays with gateways, groups, assets and monitors.

An **Audit** tab displays on every node of the monitor tree. Log entries describe every configuration action performed by a **Network Monitor** user on the currently node.

| Devices Monitors Map Toplist Schedules Actions Knowledge Audit View 50 • Prev Next > Q. Bearch | Note: Searche | Note: Searches are case sensitive. | | | | | | |
|---|---------------------|------------------------------------|--------|---|--|--|--|--|
| Time Operation User Text 2013-02-11 12:30:20 Modify kadmin Group 'Operations' modified by user 'kadmin'. 2013-02-11 12:13:05 Modify kadmin Oroup 'Operations' modified by user 'kadmin'. 2013-02-08 16:49:50 Modify kadmin Group 'Operations' modified by user 'kadmin'. 2013-02-08 16:49:30 Modify kadmin Group 'Operations' modified by user 'kadmin'. | | | | Schedules Actions Knowledge Audit | | | | |
| 2013-02-11 12:30:20 Modify kadmin Group 'Operations' modified by user 'kadmin'. 2013-02-11 12:13:05 Modify kadmin Oroup 'Operations' modified by user 'kadmin'. 2013-02-08 16:49:50 Modify kadmin Group 'Operations' modified by user 'kadmin'. 2013-02-08 16:49:30 Modify kadmin Group 'Operations' modified by user 'kadmin'. 2013-02-08 16:49:30 Modify kadmin Group 'Operations' modified by user 'kadmin'. | | | | | | | | |
| 2013-02-11 12:13:05 Modify kadmin Group 'Operations' modified by user 'kadmin'. 2013-02-08 16:49:50 Modify kadmin Group 'Operations' modified by user 'kadmin'. 2013-02-08 16:49:30 Modify kadmin Group 'Operations' modified by user 'kadmin'. 2013-02-08 16:49:30 Modify kadmin Group 'Operations' modified by user 'kadmin'. | | | | | | | | |
| 2013-02-08 16:49:50 Modify kadmin Group 'Operations' modified by user 'kadmin'. 2013-02-08 16:49:30 Modify kadmin Group 'Operations' modified by user 'kadmin'. | 2013-02-11 12:30:20 | Modify | kadmin | Group 'Operations' modified by user 'kadmin'. | | | | |
| 2013-02-08 16:49:30 Modify kadmin Group 'Operations' modified by user 'kadmin'. | 2013-02-11 12:13:05 | Modify | kadmin | Group 'Operations' modified by user 'kadmin'. | | | | |
| | 2013-02-08 16:49:50 | Modify | kadmin | Group 'Operations' modified by user 'kadmin'. | | | | |
| 2013-02-08 16:46:28 Modify kadmin Group 'Operations' modified by user 'kadmin'. | 2013-02-08 16:49:30 | Modify | kadmin | Group 'Operations' modified by user 'kadmin'. | | | | |
| | 2013-02-08 16:46:28 | Modify | kadmin | Group 'Operations' modified by user 'kadmin'. | | | | |

Editing Gateways

(selected gateway) > Edit

The Edit gateway page configures the properties of a gateway node. Gateways nodes share many of the same properties as groups (*page xxxvi*). Gateway nodes have additional, specialized properties and commands (*page xxv*) for managing a gateway installed on a network.

- Basic properties tab (page xxxii) Gateways, groups, and assets display a Basic properties edit tab.
- Advanced tab (page xxxii) Gateways, groups, assets, and monitors display an Advanced edit tab.
- Authentication tab (page xxxiii) This edit tab displays with gateways, groups, and assets.
- **NOC tab** (*page xxxiv*) This edit tab displays with gateways, groups, and assets.

Basic properties edit tab - gateways

Gateways, groups, and assets display a Basic properties edit tab.

Basic properties

- Name Enter a name for the gateway.
- Description A longer description of the gateway.

Alert and recovery settings

- Inherit notification group Sets the notification group for this node. For gateways, groups, and asset
 nodes you can override the default notification user group messages are sent to. Monitor nodes
 use the notification group specified by their parent asset node and cannot be overridden.
- Inherit alarm messages Sets the Alarm Messages (page lvii) format for this node.
- Inherit actions If checked, inherited actions and inherited recovery actions are included on the Actions tab (page xlviii) of this node.

Advanced edit tab - gateways

Groups, gateways, assets, and monitors display an Advanced edit tab.

Map and location settings

- Inherit map settings If checked, map settings (page xxvii) are inherited from the parent node and the other three map options remain hidden. Uncheck to specify your own map settings.
 - > Map setting Use google maps. This is the only option available at this time.
 - Google map display Checking these options determines whether gateways, groups and assets are shown on the map.
 - Geographic location Enter the name of a location or GPS coordinates using decimal notation, such as -33.469048, -70.642007.
- Time zone Monitors display their real time charts in the asset's local time.
- Inherit time zone If checked, inherits time zone settings from the parent node. Uncheck to specify
 you own time zone settings.

Group dependency settings

Select dependency monitor / Selected monitors - Enter text to display the names of monitors in the Select dependency monitor list that match the text entered. Select one or more monitors in the list, then click the Add button to add the monitors to the Selected monitors list. You can also click the Select button to browse for target monitors. To remove a monitor, select it and click the Remove button.

Receive Syslog messages

- Syslog server If checked, enables Syslog messages intercepted on the gateway's network to be forwarded to the server. Once checked, intercepted syslog messages display on the Network Monitor > Tools > Syslog message page.
- Port Defaults to 514.

Receive SNMP traps

- SNMP trap If checked, enables SNMP trap messages received from the gateway's network to be forwarded to the server. The SNMP trap monitor requires this checkbox be enabled. Once checked, received trap messages display on the Network Monitor Tools > Trap messages page. You can create SNMP trap monitors directly from the List syslog message pages, based on selected messages.
- IP The host name or IP number of the receiver of the traps.

- **Port** Port number that the trap receiver listens to.
- **Community filter** SNMP trap community string.
- Agent IP range filter Filters the forwarding of SNMP trap messages by IP address.

Misc settings

- Notification group Group that is notified by email if the gateway does not connect in a timely fashion.
- Disable auto update If checked, disables auto update. If blank, this gateway is automatically updated with the latest version of Network Monitor when the server is updated.

Authentication edit tab

This edit tab displays with gateways, groups, or assets.

The Authentication edit tab stores credentials used by **Network Monitor** to authenticate access to network assets. Credentials are managed *using inheritance*. That means you can set credentials for a single gateway or group in the monitor tree and all child assets and monitors will make use of them. Moreover you can be certain these same credentials will never be confused with other credentials set for other branches in the tree.

| 🕜 The world 🕨 🧭 Germany 🕨 | | | | | | | | | |
|--|----------------------------|--|--------------------------|--|--|--|--|--|--|
| The world Sweden Galacteden Galacteden Galacteden | Edit gateway Basic | aroperties Advanced Notifications Au | thentication Access Tags | | | | | | |
| 🗄 🍈 🖸 Sundsvall 🗄 🏐 🔂 Kiruna | Windows domain credentials | | | | | | | | |
| 🗄 🌒 😋 Hāmōsand | Inherit credentials: | From: The world | | | | | | | |
| ievii i ievii ievii ievii ievii ievii ievii i ievii i i i | Domain or Computer: | | | | | | | | |
| 🗄 🍈 🔂 Norway | Username: | | | | | | | | |
| Cermany | Password: | | | | | | | | |
| 🗄 🌒 🚰 Munich | SSHTelnet credential | | | | | | | | |
| G Heidenburg G Hamburg G United Kingdom | Inherit credentials: | From: The world (administrator) | | | | | | | |
| 🖶 🍓 😑 France | SNMP credential | | | | | | | | |
| 🖶 🧤 🖓 Finland 🖶 🧤 Çelceland 🖶 🧤 ÇeUrugusiy | Inherit credentials: | From: The world (v2c, public, private) | | | | | | | |
| 🖃 🎒 🕜 Chile | VMware credential | | | | | | | | |
| | Inherit credentials: | From: The world | | | | | | | |
| | Additional credentials | | | | | | | | |
| | | CIM account Add credential | | | | | | | |
| | | | Save Cancel | | | | | | |

For any one type of authentication, if **Inherit credentials** is checked, the credentials are inherited from a higher level node. If the checkbox is uncheck, enter credentials for this type of authentication. These credentials will be used by this node and all lower level nodes that inherit this type of authentication. If the name of specified credentials does not display in parentheses next the name of the higher level node, it means that credentials are not yet defined at the higher level node.

Types of authentication include:

 Windows domain credentials - Specifies Windows local or domain credentials. Leave the Domain or Computer field blank or enter localhost to specify localhost credentials. Applies to multiple monitors using Windows authentication.

- SSH Telnet credentials Specifies SSH and Telnet credentials.
- SNMP credentials Specifies SNMP credentials. The required parameters depend on the version of SNMP used to connect to the asset:
 - SNMP v1 or SNMP2c Enter the Read community name and Write community name.
 - SNMP v3 If authentication is required
 - SNMPv3 Context ID Optional. A string matching one or several context IDs specified by the SNMP agent on the asset to limit the data returned.
 - ✓ Auth method The algorithm used for authentication: None, HCMA-MD5, or HCMA-SHA1.
 - ✓ SNMPv3 username The name of the SNMP manager used to access the SNMP agent on the remote asset.
 - SNMPv3 Passphrase A sequence of words, similar to a password.
 - SNMPv3 Encryption The algorithm used to ensure privacy using data encryption: None, DES or AES-128.
 - ✓ SNMPv3 Crypto key The string used for data encryption.
- VMware credentials Specifies VMware credentials.
- Additional credentials You can add additional credentials for the following.

CIM account Exchange account FTP account HTTP account IMAP account LDAP account MySQL account ODBC account OTACLE account POP3 account RADIUS account SMTP account SQL server account

NOC edit tab

This edit tab displays with groups, gateways, or assets.

The NOC edit tab assigns a group, gateway or asset node to a NOC view.

Network Operation Center (NOC) widgets are compact, full-screen information views that display the status of a collection of networks and assets. They are normally displayed on dedicated monitors.

NOC views display group, gateway and asset status hierarchically, in a matrix format. All groups, gateways and assets are listed vertically, with the status for each monitor type horizontally. The overall status is shown in the large colored rectangle at the left.

Configuring a NOC view and widget

- 1. Define one or more NOC views using the Network Monitor Settings > NOC configuration page.
- 2. A gateway node or group node must be assigned to at least one NOC view using the Edit > NOC tab.
- 3. Select Dashboard > Add widget > NOC widget.
- 4. Select the ^I icon on the right side of the widget title bar to configure the following settings.
 - > Title The title displayed with the NOC widget on the dashboard.
 - Select Select the default Group NOC or any other NOC view that you have created to display that NOC view.

Groups

Groups are "container" nodes used to group other nodes in the monitor tree.

- Logical Business Units A group can represent a logical business unit. Rename the group to reflect the name of the business unit. When you Edit any group, click the Advanced tab. You'll notice contact information can be entered for the business unit a group represents. If an asset requires on-site intervention, display the assets's closest parent in the monitor tree for the contact information you need.
- Specialized Service Requirements Even if assets don't represent a distinct business unit, you might
 have to deliver specialized services to a set of assets within a single subnet. It easiest to
 distinguish these assets by grouping them together. In this case you might rename the group by
 the department name or by the set of services you are delivering.

| 🖉 Dashboard Monitoring | Knowledge base |
|--|---|
| KNM 🕨 😨 Default group 🕨 | |
| 👘 🛛 KNM E 🖄 🖓 Default group | Edit group Basic properties Advanced Authentication Access Tags |
| Cocal gateway Government (233) | Map and location settings |
| 🖶 🕡 😳 proto1-ep1.kaseya.com 🖶 🕡 😳 ws-qatemp-03.kaseya.c | |
| 🖶 🕡 🔁 bulldozer.kaseya.com 🖶 🕡 🖓 win-ah2ksk65976.kase 🕀 🔐 🖓 unknown.kaseya.com | Contact information |
| Orgenson Control | Company: |
| 🕀 🕡 🛛 chad.kaseya.com 🕀 🞧 🖓 ws-rjones-03.kaseya.co | Contact name: |
| 🕀 🕡 🛛 ws-smccormic-01 🕀 📦 😋 ki-w83201. kaseya.com | |
| 🖶 🎧 🛛 ws-jschenck-08.kaseya 🕀 🎧 🖉 ws-jshuster-01 | Cellphone: |
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| 🖶 🎧 🍘 maxons-lphone.kaseya 🖶 🎧 🖓 ws-rwalker-03.kaseya.c | Address 2: |
| ■ | |
| 🖶 🌍 📬 hrxp32a-prv 🖶 🌍 😋 ws-gbeaulieu-01.kasey 🗄 🌍 😋 ag-ed-w7vpro1.kaseya. | |
| 🖶 📦 💁 ws-jschenck-08.kaseya | |

Inheritance by Group

The power of groups goes far beyond organizing and labeling. When you edit a group you'll find it

includes many properties, such as alert settings, authentication, access and map locations. This allows you to set properties for all the child assets of the group using inheritance. This can include nested groups, assets, and monitors.

If you take the time to organize the assets you manage by group and use the inheritance feature, it can greatly reduce the amount of time spent configuring assets individually.

The Root Node

The top-level node—called KNM by default—is really a "super" group node. Group properties set for the root note can be *inherited* by lower level nodes, just like any group you create. From the root node, settings can be potentially inherited by every other node in the monitor tree.

In This Section

Group Commands and Views Adding / Editing Groups xxxvi xxxvi

Group Commands and Views

Commands

These same commands display when a group node is selected, regardless of the tab selected at the top.

- Edit Edits the **properties** (*page xxxvi*) of a group.
- Add a subgroup Creates a new subgroup (page xxxvi) as a child node.
- Move to other group Moves the currently selected group to another group.
- Delete group Deletes the currently selected group.
- Add asset Adds an asset manually. Specify an asset hostname, asset type and machine group.
- Add new scheduled event Adds a scheduled event (page xxix).
- Create a report Creates a report (page lxi).

Views

Gateways and groups share the same set of views.

- Assets tab (*page xxvi*) This tab displays with groups and gateways.
- Monitors tab (page xxvi) This tab displays with gateways, groups, and assets.
- Map tab (page xxvii) This tab displays with groups and gateways.
- **Toplist tab** (*page xxviii*) This tab displays with gateways, groups, and assets.
- Schedules tab (*page xxix*) This tab displays with groups and gateways.
- Actions tab (page xlviii) This tab displays with gateways, groups, assets and monitors.
- Knowledge tab (*page xxxi*) This tab displays with gateways, groups, and assets.
- Audit tab (page xxxi) This tab displays with gateways, groups, assets and monitors.

Adding / Editing Groups

(selected group or gateway) > Add a subgroup (selected group) > Edit

The **Edit group** page configures the properties of a group node. Since groups are "container" nodes, most of the properties can only be used when inherited by lower level nodes.

 Basic properties tab (page xxxvii) - Gateways, groups, and assets display a Basic properties edit tab.

- Advanced tab (page xxxvii) Groups, gateways, assets, and monitors display an Advanced edit tab.
- Authentication tab (*page xxxiii*) This edit tab displays with groups, gateways, or assets.
- **NOC tab** (*page xxxiv*) This edit tab displays with groups, gateways, or assets.
- **Tag tab** (*page xxxviii*) This edit tab displays with groups and assets.

Basic properties edit tab - groups

Gateways, groups, and assets display a Basic properties edit tab.

Basic properties

- Name Enter a name for the group. Oftentimes a group corresponds to a logical business unit of a customer.
- **Description** A longer description of the group.

Alert and recovery settings

- Inherit notification group Sets the notification group for this node. For gateways, groups, and asset
 nodes you can override the default notification user group messages are sent to. Monitor nodes
 use the notification group specified by their parent asset node and cannot be overridden.
- Inherit alarm messages Sets the Alarm Messages (page lvii) format for this node.
- Inherit actions If checked, inherited actions and inherited recovery actions are included on the Actions tab (*page xlviii*) of this node.

Advanced edit tab - groups

Groups, gateways, assets, and monitors display an Advanced edit tab.

Map and location settings

- Inherit map settings If checked, map settings (page xxvii) are inherited from the parent node and the other three map options remain hidden. Uncheck to specify your own map settings.
 - > Map setting Use google maps. This is the only option available at this time.
 - Google map display Checking these options determines whether gateways, groups and assets are shown on the map.
 - Geographic location Enter the name of a location or GPS coordinates using decimal notation, such as -33.469048, -70.642007.
- Time zone Monitors display their real time charts in the asset's local time.
 - Inherit time zone If checked, inherits time zone settings from the parent node. Uncheck to specify you own time zone settings.

Contact information

Enter contact information for the business unit a group represents. If an asset requires on-site intervention, display the assets's closest parent in the monitor tree for the contact information you need.

- Company
- Contact name
- Email
- Phone
- Cellphone
- Fax
- Address 1
- Address 2
- Additional

Tags edit tab

This edit tab displays with groups and assets.

The **Tags** edit tab creates, edits and assigns user-defined tags. You can create a tag using any node that displays a Tag tab. From then on the tag is available to assign to that node or nodes matching the tag's scope of assignment.

For example, you could classify assets by the department they belong to. You could create a DEPT tag with multiple values: Sales, Accounting, Marketing, Development, Manufacturing, Distribution. View lists can be subsequently filtered or reported on by their assigned tags. An example is shown in the image below.

| Devices Monitors Map To | plist Audit log | | |
|--|---------------------|--------------------|-----------------|
| Refresh 🗹 View 50 💌 « Prev Next » 🔍 Search | No filter 💌 Clear f | iter Save filter | |
| 🕀 🕞 Tag 🗾 💌 Dept 🔄 🗈 | Sales 💌 | | |
| Activate Deactivate Copy Delete Edit Move | View report | | |
| Name 🗸 | Address | Group | OS type |
| Craig2KBStd2 | Craig2K8Std2 | Kirkland | Generic Windows |
| 🗖 🥝 KNAS2 | & KNAS2 | Kirkland | Generic/Unknown |
| pWWn2k88td2x64 | @ pvWvin2K8Std2x64 | Kirkland | Generic Windows |

For example, to create and assign tags to a node in the monitor tree, select a group or asset. Then click **Edit**, then the **Tags** tab.

| Edit device | Basic properties | Advanced | Authentication | NOC | Access | Tags | |
|------------------|---|-----------------|----------------|-----|--------|--------|--|
| Tags | | | | | | | |
| Available tags: | Dept | Attach tag | | | | | |
| Name: | Dept | | | | | | |
| Scope: | C Global 🕫 Devi | e | | | | | |
| Data: | C None C Text (| 🛙 Choice 🌈 Date | | | | | |
| Choice text: | | Add choice |) | | | | |
| Current choices: | Accounting Marketing Production Sales | Remove choice | | | | | |
| | Store tag Ca | incel | | | | | |
| Attached tags | | | | | | | |
| | | | | (| Save | Cancel | |

There are two types of **Scope** for a tag. The scope determines what other types of nodes can use the tag.

- Global Any type of record can use the tag.
- Asset or Group If an asset node has been selected, only other assets can use the tag. If a group node has been selected, only other groups can use the tag.

You must also specify the type of Data entry required for a tag, when a user assigns a tag to a node.

- None No data is required. For example, you might simply assign a tag called InMaintenance and leave it at that.
- Text The user can enter any kind of string. For example, a tag called Note allows the user to enter whatever they want.
- Choice The user selects one of several fixed values. For example, a LicenseStatus tag could be set to one of three fixed values: Licensed, Unlicensed or TrialEvaluation.

Date - The user selects a date. For example, a tag called RepairDueDate could represent the expected date of repair for an asset.

Deleting a Tag

Click the red X next to an assigned tag to delete the assignment.

Assets

Network Monitor monitors assets. An **asset** represents a computer or any other type of network device that can be accessed by an IP number or host name. Each asset managed by **Network Monitor** displays as a separate node in the monitor tree. The parent node of an asset is either a gateway or a group. A selected asset node provides a list view of all the monitors assigned to that asset.

| Monitors Actions Knowledge 1 | foplist Audit State change log | | | | dev-av-win0d |
|--|---|--------|------------------------------------|-----------|------------------------------------|
| Refresh 🗹 🔍 Search | | | | | Overview |
| Activate Deactivate Acknowledge alarm | | | | | OS type Windows 2008 R2 |
| Name 🗸 | Туре | Alarms | Status | Next test | Group Operations |
| Bandwidth utilization | Bandwidth utilization | 0 | 0.0/0.0% | 0h 0m 37s | Time zone |
| CPU utilization | CPU utilization | 0 | 10 % | 0h 0m 9s | GMT-12 |
| 🔲 🧐 Disk utilization | Ø Disk utilization | 0 | 7535 MB | 0h 0m 15s | Active Yes |
| 🔲 🥝 Memory utilization | Ø Memory utilization | 0 | 3379 MB | 0h 0m 37s | Active notification user group |
| 🗖 🧐 Page faults/sec | Windows performance | 0 | 305.20 | 0h 0m 9s | Administrators |
| 🔲 🧐 Page reads/sec | Windows performance | 0 | 3.00 | 0h 0m 9s | Commands |
| 🔲 🧐 Page writes/sec | Windows performance | 0 | 0.00 | 0h 0m 9s | Edit |
| 🗖 📴 Pages/sec | Windows performance | 0 | 3.00 | 0h 0m 9s | Add new monitor |
| 🗖 📴 Ping check | @ Ping | 0 | 1 ms | 0h 0m 42s | Deactivate device |
| 🗖 🦉 Security events | ₽ Eventlog | 0 | No matching event records found | 0h 0m 27s | Inspect now Move device |
| 🗖 🖾 SNMP | Ø. SNMP | 0 | 2478.16 | 0h 0m 42s | Delete device |
| 🗖 😫 SNMP Table | 🖉 SNMP Table | 176 | | 0h 0m 15s | Apply template Save as template |
| 🗖 📴 SQL Server | & SQL Server | 0 | Operational | 0h 0m 42s | Create a report |
| 🗖 📴 Web server | Web server | 0 | Request completed | 0h 0m 42s | Open MIB browser |
| Windows service status - Print spool service | vice 🖉 Windows service status | 119 | Spooler not running | 0h 0m 15s | Tags |

Asset Commands and Views

Commands

These commands display when an asset node is selected, regardless of the view tab selected at the top.

• Edit - Edits the properties (page xli) of the asset.

Note: Network Monitor does not support adding or deleting assets manually within the Network Monitor module. An asset must be **discovered by Discovery** (*page xix*) for you to work with it in **Network Monitor**.

- Add new monitor Adds a new monitor (page li) to the asset.
- Deactivate asset Deactivates the asset.

- Inspect now Inspects an asset to determine the appropriate pre-configured monitors (page lii) for the asset. You may want to run Inspect Now if the credentials or configuration of the asset have changed. After running Inspect Now, click Add New Monitor to see the list of pre-configured monitors.
- Apply template Applies an asset template (page xliv).
- Save as template Saves the set of monitors as an asset template (page xliv).
- Create a report Views, emails or publishes a report (*page lxi*).
- Open MIB browser Displays the list of OIDs supported by an asset that can be monitored using SNMP. An asset must be SNMP enabled to display OIDs.

Views

- Monitor tab (page xl) This tab displays with gateways, groups, and assets.
- Actions tab (page xlviii) This tab displays with gateways, groups, assets and monitors.
- **Knowledge tab** (*page xxxi*) This tab displays with gateways, groups, and assets.
- **Toplist tab** (*page xxviii*) This tab displays with gateways, groups, and assets.
- Audit tab (page xxxi) This tab displays with gateways, groups, assets and monitors.
- State change log tab (page xl) This tab displays with assets and monitors.

Monitor tab

This tab displays with gateways, groups, and assets.

Actions

These are the actions available at the top of the list view when one or more monitors are selected.

- Acknowledge alarm Acknowledges alarms (page lx) on selected monitors.
- Activate Activates selected monitors.
- Deactivate Deactivates selected monitors.
- Copy Creates selected monitors to selected assets.
- Delete Deletes selected monitors.
- Edit Edits a selected monitor (*page liii*). If multiple monitors are selected, edits shared standard monitor properties (*page lv*) of these monitors.
- View report Generates a report for selected assets.

Table Columns

- Name The name of the monitor.
- Type The type of monitor.
- Alarms The alarm count (page xlv). This column is only displayed on asset nodes.
- Status The latest result returned from the monitor.
- Next test The next time the test is scheduled to be run.

State change log tab

This tab displays with assets and monitors.

The **State change log** tab displays whenever an asset node or monitor node is selected. This tab lists the status changes for each monitor assigned to an asset.

| Note: Searc | ches are c | ase sens | sitiv | ٤. |
|-------------------|---------------|--|---------|--|
| Monitors | Actions Kno | owledge | Toplist | Audit State change log |
| View 50 💌 « | Prev Next » Q | l, Search | | |
| Time | Delta | Monitor | State | Message |
| 2013-02-11 14:10: | 46 4d 5h 5m | SNMP Table | Alarm | No Such Name |
| 2013-02-11 10:22: | 13 | Windows service status - Print speel service | Ok | Monitor 'dev-av-winûd - Windows service status - Print spool service' is now in ok status. |
| 2013-02-08 15:32: | 07 | Uptime of Connection (minutes) | Ok | Monitor 'dev-av-win0d - Uptime of Device (minutes)' is now in ok status. |
| 2013-02-08 10:58: | 36 Oh 7m 9s | <deleted monitor></deleted | Ok | Monitor 'dev-av-win0d - SNMP trap' is now in ok status. |
| 2013-02-08 10:51: | 27 | <deleted monitor></deleted | Ok | Monitor 'dev-av-winOd - SNMP trap' is now in ok status. |
| 2013-02-07 17:11: | 15 0h 47m 55s | Memory utilization | Ok | Monitor 'dev-av-win0d - Memory utilization' is now in ok status. |
| 2013-02-07 16:23: | 20 | Memory utilization | Alarm | Test failed, Access denied. User may lack remote launch and remote activation permission. |
| 2013-02-07 16:12: | 04 4h 27m 7s | Security events | Ok | Monitor 'dev-av-win0d - Security events' is now in ok status. |
| 2013-02-07 11:44: | 57 0h 2m 1s | Security events | Ok | Monitor 'dev-av-win0d - Security events' is now in ok status. |

Editing Assets

<selected asset> > Edit

The Edit asset page displays the following property tabs.

- Basic properties tab (*page xli*) Gateways, groups, and assets display a Basic properties edit tab.
- Advanced tab (page xlii) Gateways, groups, assets, and monitors display an Advanced edit tab.
- Authentication tab (*page xxxiii*) This edit tab displays with groups, gateways, and assets.
- **NOC tab** (*page xxxiv*) This edit tab displays with gateways, groups, and assets.
- **Tag tab** (*page xxxviii*) This edit tab displays with gateways, groups, and assets.

Basic properties edit tab - assets

Gateways, groups, and assets display a Basic properties edit tab.

Basic properties

- Name The name for the asset. This property is set in Discovery module.
- Address The DNS name or IP address of the asset. This property is set when an asset is discovered using the Discovery the module.
- Operating system Select the asset's system type. The operating system determines the type of
 monitors that can be added to this asset. If you do not know what system type the asset is or the
 system type is unavailable, select the Other/Unidentified option. For Windows performance
 monitors to work properly, it is essential that the system type be specified correctly.
- Asset type Classifies the type of hardware asset. For reference purposes only.
- **Description** The description field can be used to describe the asset in greater detail. For example, the type of hardware or physical location.
- Free text The free text field can be used to include other information about the asset and can also be included in alarm notifications.

Alert and recovery settings

- Inherit notification group Sets the notification group for this node. For gateways, groups, and asset
 nodes you can override the default notification user group messages are sent to. Monitor nodes
 use the notification group specified by their parent asset node and cannot be overridden.
- Inherit alarm messages Sets the Alarm Messages (page lvii) format for this node.
- Inherit actions If checked, inherited actions and inherited recovery actions are included on the Actions tab (page xlviii) of this node.

Advanced edit tab - assets

Gateways, groups, assets, and monitor display an Advanced edit tab.

Advanced

- Active If checked the asset is considered active. Active assets test their monitors. This option is checked by default.
- SSH2 connect. sharing If checked, enables persistent SSH2 connections for this asset. Normally
 only one connection is opened and then shared among all monitors using SSH2 with this asset.
 Disabling the SSH2 connection sharing results in more logons on the SSH server, but can be
 useful if you experience any problems with your connections.
- Enable inspection Enables automated inspection on this asset. Normally Network Monitor
 performs a an asset inventory of all assets regularly, to discover hardware and attached assets.
- Use WMI If an asset is a Windows system type, the following monitor types use WMI when the
 asset flag Use WMI is checked. If you experience issues with these monitor types, try unchecking
 this checkbox.
 - WMI Query monitor Always uses WMI.
 - > Active directory monitor Always uses WMI.
 - Bandwidth utilization monitor
 - CPU utilization monitor
 - Disk utilization monitor
 - Event log monitor
 - Memory utilization monitor
 - Swap file utilization monitor

Note: See Windows Management Instrumentation (WMI) for more information.

Map and location settings

- Inherit map settings If checked, map settings (page xxvii) are inherited from the parent node and the other three map options remain hidden. Uncheck to specify your own map settings.
 - > Map setting Use google maps. This is the only option available at this time.
 - Google map display Checking these options determines whether gateways, groups and assets are shown on the map.
 - Geographic location Enter the name of a location or GPS coordinates using decimal notation, such as -33.469048, -70.642007.
- Time zone Monitors display their real time charts in the asset's local time.
- Inherit time zone If checked, inherits time zone settings from the parent node. Uncheck to specify
 you own time zone settings.

Asset dependency settings

Inherit dependency - This setting determines the currently selected node's dependency (page xliii) on one or more specified monitors. If checked, this node inherits it dependency from the parent

node. If blank, you can define a dependency based on a different set of monitors *within the same gateway branch of the monitor tree* or leave no monitors specified to ensure this node has no dependencies.

Select dependency monitor / Selected monitors - Enter text to display the names of monitors in the Select dependency monitor list that match the text entered. Select one or more monitors in the list, then click the Add button to add the monitors to the Selected monitors list. You can also click the Select button to browse for target monitors. To remove a monitor, select it and click the Remove button.

Simple maintenance

These settings provide a quick method of specifying a maintenance period for a single asset.

Note: Use Network Monitor > Schedules > Asset maintenance to specify maintenance schedules for *multiple* assets.

- Start time / (end time) The range of time during the day when this asset down for maintenance.
- Day of week The days of the week this asset is down for maintenance.
- Maintenance mode Stop test during maintenance. This is the only asset available during a maintenance period.

Dependency Testing

Dependencies are configured using the Advanced (page xlii) edit tab of an assets node.

The alert status of one monitor can be made dependent on the alert status of *any node that is a member of the same gateway*.

Imagine monitoring a router for a single network. If the router goes down the monitor you've set up to test that router will correctly change, first to a *Failed* state, then to an *Alarm* state. Unfortunately all the other assets on that same network depend on that same router. When the router fails to connect, those dependent assets can't help but fail to connect as well. An entire branch of the monitor tree reports monitoring failures even though the problem is really a single asset. Those dependent assets are just a distraction at this point. Using dependency relationships you can prevent **Network Monitor** from triggering a cascade of unnecessary *Alarm* states when the *Alarm* state for a single critical monitor will serve the same purpose.

Another example is making all monitors on a single asset dependent on the **Ping check** monitor. If the network connection to the asset fails, then only one alarm will be created for the **Ping check**, but not for all the other monitors assigned to that asset.

Click Edit for any gateway, group or asset node, then click the Advanced tab. Use Asset dependency settings to select the monitor this node should be dependent on. All descendants of this node set to inherit will be dependent on the same monitor you select.

| Group | Edit device Ba | sic properties | Advanced | Authentication | NO |
|----------------------------------|---------------------------|----------------------|------------|----------------|----|
| Cerault group | | | | | |
| G Discovery group (45) | Advanced | | | | |
| 10.10.8.255 | Advanced | | | | |
| | Active: | N | | | |
| B 0 10.10.10.5 | SSH2 connect, sharing: | | | | |
| H 10.10.10.6 | | | | | |
| 🗄 😭 😋 it-bot-fnp01.kaseya.com | Enable inspection: | | | | |
| 🗄 😭 😋 kem-dev-4 kaseya.com | Time zone: | GMT-12 💌 | | | |
| 10.10.10.59 | | | | | |
| H C 210.10.10.60 | Map and location settings | | | | |
| E KEM-DEV-13 | nich ann issanan ssiandr | | | | |
| E CKESDEV1 | Inherit map settings: | From: Kirkland | | | |
| E Craig2K8Std2 | | | | | |
| E CKNM Server Kirk2008 | Device dependency setting | s | | | |
| 🕀 🗑 📴 knmsd2008-64-2 | | | | | |
| E CINTEL-SDP-FE-NE | Inherit dependency: | From: Kirkland | | | |
| BUILDSRV2003_2 | Select dependency | QA | Sebe | d 2 | |
| E CRAIGXPPRO3 | monitor: | GPC . | _ | | |
| E CKEM-DEV-11 | Selected monitors: | QA-7_32_1 - Ping | | | |
| 🕀 🗑 💟 QA-XP_32_2 | | | | | |
| 🕀 🕡 💟 10.10.10.97 | Simple maintenance | | | | |
| 🕀 🗑 😨 knds 2008-64-1. kaseya.con | | | | | |
| 🗄 🗑 😋 QA-7_32_1 | Start time: | | | | |
| E CpwWin2K8Std2 | Day of week: | Mon Tue We | | Sat E Sun | |
| 🗄 🗊 📴 kern-dev-10-xp. kaseya.com | | | | | |
| 🕀 🗊 📴 KNAS1 | Maintenance mode: | Stop tests during ma | intenance | * | |
| 🗄 📦 💟 pvWin2K8Std2x64 | | | | | |
| lii 🕡 😭 10.10.10.119 | | | (1 | | |
| E COBOTHTESTLINK | | | Save | Cancel | |
| C CHINGO 3000, VPH | | | | | |

Asset Templates

Asset templates are configured using Network Monitor > Settings > Asset templates

Configuring one monitor at a time for thousands of assets isn't practical. Instead configure a *set of monitors* using an asset template, then apply the asset template to the appropriate asset. You should have an asset template for each type of asset you manage.

System and Custom Asset Templates

Many asset templates are provided with **Network Monitor**. These can be applied but cannot be edited. You can also configure your own *custom* asset templates by configuring an asset with the monitors you need, then clicking the **Save as template** command.

Applying Asset Templates to Assets

Once you have configured an asset template, you only have to select an asset and click the **Apply template** option. Then select the asset template. All the monitors in the asset template will be assigned to the selected asset and begin returning data. If necessary, you can customize the settings of monitors assigned by asset template.

| Commands | |
|---|--|
| Edit | |
| Add new monitor Deactivate asset Inspect now | |
| <u>Apply template</u> Save as template <u>Unlink template</u> | |
| <u>Create a report</u> <u>Open MIB browser</u> | |

Reapplying Asset Templates

Assets remain *linked* to the asset template after the monitors are assigned. *Changes to an asset template are not automatically propagated to linked assets.* You have to re-apply the changed template to each asset again. When re-applying a changed template to assets, you have the option of over-riding asset-specific settings on selected assets, or leaving asset-specific settings unchanged.

| Apply template Sett | ings | | | | |
|--|------------------------|--|--|---------|--------|
| Basic information | | | | | |
| Selected asset: | ag-cher-w732b | | | | |
| Selected template: | ag-cher-w732b template | | | | |
| Description: | | | | | |
| Reapplying template When local modifications to | monitors exist: | | | | |
| Reapply with settings f | rom template | | | | |
| Leave local modification | ns | | | | |
| | | | | Proceed | Cancel |

Unlinking Asset Templates

You can unlink an asset from a template. When you unlink an asset template, the monitors remain assigned to the asset.

Monitors

A monitor tests a specific function in an asset. Most monitors are capable of collecting various statistical data for reporting purposes. When a monitor test fails consecutively a specified number of times, the monitor enters an *Alarm* state and executes a set of **actions** (*page xlviii*).

The alert status of each monitor—along with all other active monitors—is reported all the way up the monitor tree. If you are managing hundreds or thousands of monitors, this feature can quickly help you identify the individual monitor that is failing.

Alarm Status Progression

OK Status

During normal operation, when a monitor is in the OK state, a green status \square icon displays next to the monitor in the monitor tree. Here is what the monitor tree looks like when all monitors are in the OK state.



Failed Status

When a monitor fails its test, it changes to a *Failed* state, and an orange status icon displays next to the monitor in the monitor tree. The *Failed* status has precedence over the *OK* state. In this case the icon is reported all the way up the monitor tree.



Alarm Status

When a monitor keeps failing tests, it eventually changes to an *Alarm* state, and a red status **I** icon displays next to the monitor in the monitor tree. The number of failed tests required to change a monitor to the *Alarm* state—known as the *alarm count*—is set to five for most monitors. This is the default and can be changed. Since the *Alarm* state has precedence over the *Failed* state and *OK* state, the **I** icon is reported all the way up the monitor tree.



Disconnected Status

A special \subseteq icon displays whenever a gateway is disconnected from the server. In this case the gateway and all lower level nodes are unable to report their data back to the server.



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|--|----------------------------|
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Monitor Commands and Views

Commands

These commands display when a monitor node is selected, regardless of the view tab selected at the top.

- Edit Edits the properties (*page xli*) of the asset.
- Deactivate Deactivates the monitor.
- Copy Copies the monitor to selected assets.
- Delete Deletes the monitor.

- Create a report Views, emails or publishes a report (page lxi).
- Test now Tests the monitor immediately.

Views

- Summary tab (page xl) This tab displays with monitors.
- Actions tab (page xlviii) This tab displays with gateways, groups, assets, and monitors.
- Audit tab (*page xxxi*) This tab displays with gateways, groups, assets, and monitors.
- State change log tab (page xl) This tab displays with assets and monitors.
- **Simulate alarm tab** (*page li*) This tab displays with monitors.

Summary tab

This tab displays with monitors.

The **Summary** tab of a active monitor displays the latest data returned. There are usually three sections to this view.

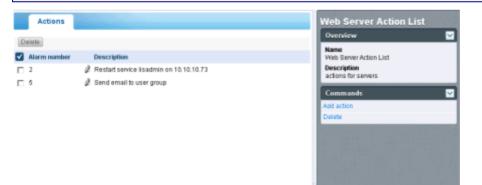
- Monitor status Displays the latest value and the threshold to trigger a Failed state.
- Live data A chart of the latest test values returned by the monitor. The time period the chart is set when you configure the monitor.
- Monitor Log A log of every test value returned by the monitor.

Actions tab

This tab displays with gateways, groups, assets and monitors.

The Actions tab displays a set of actions. Actions are defined directly or by *inheritance*. Each action is executed in response to a specific *alarm count*. It is possible—and common— to define several actions for the same alarm count.

Note: Notice we're saying *alarm count* and not *Alarm* state. You can execute a series of actions using any *alarm count* you want. It doesn't have to match the count for the *Alarm* state.



Default Ticket Action

When **Network Monitor** is installed, the **Ticket** action is already added to the **KNM** root node. By default, the **Ticket** action is inherited by every other node in the monitor tree. This enables tickets to be created automatically in the **Ticketing** module or **Service Desk** module.

Recovery Actions

An administrator may have to intervene to correct an asset in an *Alarm* state, or the asset may enter an *Alarm* state temporarily and recover on its own. Either way, when a monitor recovers, **Network Monitor** can optionally execute a set pf *recovery actions*. **Recovery actions are executed when a monitor changes back to an OK state**. When the monitor recovers, all recovery actions displayed on the monitor's **Actions** tab are executed, regardless of the alarm number.

Adding Actions to the Actions tab

- 1. Click the Add actions button at the top of the Actions tab.
- 2. Select an action from the Add new action tree in the middle panel.
- 3. Select the Add action command in the right side panel.
- 4. Edit Action properties for the specific action selected. Here is the list of actions you can select.

| Select action |
|---|
| Add new action |
| 📄 Messaging |
| -Net send |
| Send message via PageGate |
| -Send email |
| - Send SMS |
| Network |
| Execute command via SSH2/Telnet |
| -HTTP GET/POST request |
| -SNMP Set |
| Send Wake-On-LAN packet |
| Windows specific |
| - Clear eventlog |
| Execute Windows command |
| Windows service control |
| Others |
| List reset |
| Berlipt |
| -Execute LUA script |
| 😑 Lua scripts |
| -apachestatus_lua |
| -backupexec_lua |
| -backupexec_11d_lua |
| -checkcertificateexpirytime_lua |
| ciscolpsecglobaltunnelbandwidth_lua |
| -ciscoipsectunnelbandwidth_lua |
| ilohealth_lua |
| -printeroutofpaper_lua |
| -wbem_esxi_hp_fan_status_lua |
| -wbem_esxi_hp_psu_status_lua |
| wbem_esxi_hp_raidarray_statuslua |
| |

Managing Hierarchies of Actions and Recovery Actions

All nodes have an **Actions** tab. The **Actions** tab displays all **actions** and **recovery actions** that apply to the currently selected node. The **Inherited from** column identifies actions inherited from all higher level nodes. You can add additional actions and recovery actions to the currently selected node. All actions and recovery actions on this tab apply to any child nodes that are configured to inherit actions and recovery actions.

| Summary Actions | Audit 👖 State change log 👔 Simulate alarm 📗 | |
|----------------------------|--|---|
| Add action Delete | | |
| Alarm number | Action | Inherited from |
| □ ¹ Ø | SNMP Set .1.3.6.1.4.1.6876.2.4.1.2.3 on Device | |
| 1 | Ticket Send SMS to user group (short message) Send email to user group | Operations Aliso Viejo Kaseya North America |
| Add recovery action Delete | | |
| Action | Inherited from | |
| | | |

Disabling Inheritance of Actions and Recovery Actions

You can disable the inheritance of actions and recovery actions for the currently selected node. *Disabling inherited actions and recovery actions applies to any child nodes that are configured to inherit actions and recovery actions.* In edit mode—on either the **Basic properties** or **Advanced** tabs— an **Alert and recovery settings** section displays. Uncheck **Inherit actions** to remove all inherited actions and recovery actions to recovery actions to remove all inherited actions to be for the currently selected node. After saving this change, re-display the **Actions** tab for the currently selected node. You'll notice inherited actions and inherited recovery actions no longer display.

| Alert and recovery se | ttings |
|----------------------------|--------------------|
| Inherit alarm messages: | From dev-ov-win0d |
| Inherit actions: | From: dev-av-win0d |

Managing Customer-Specific Actions and Recovery Actions

You might find it easiest to manage and customize sets of actions and recovery actions at the "customer" level of the monitor tree. For example, you could create customer-specific alarm messages and alarm actions using the gateway node representing a single network. From then on these customer-specific settings could be *inherited* by every monitor below that gateway node in the monitor tree.

Actions on Gateways

Actions work slightly different for monitors assigned to a gateway. The following actions are always executed on the server:

- Send email
- Send SMS
- Paging via Pagegate

All other actions are executed on the gateway.

Simulate alarm tab

This tab displays with monitors.

The **Simulate alarm** tab generates a report that describes what happens when a particular monitor enters the *Alarm* state. To better understand how alarm escalation works in **Network Monitor**, the report contains verbose information about the progress of the escalation. Time specified in the report is relative to the first alarm generated.

Below is a sample report produced by the **Simulate alarm** function for a **Free disk space** monitor with default actions assigned.

| Summary | Actions Audit State change log Simulate alarm |
|------------------|---|
| Monitor | SQL Server |
| Monitor type | SQL Server |
| Device | dev-av-winDd |
| Test procedure | Tests every 60 seconds. Alarm generated after 5 consecutive failed tests. In alarm state the monitor will test every 600 seconds. |
| | Alarm number 1 (Executed 5 minutes after first failed test) |
| Action type | Send email to user group |
| Subject | KNM - Alarm - dev-ar-win0d - SQL Server |
| | |
| | Time: 2012/12/21 13:20:16 |
| | Device: dev-av-win0d (10.10.32.6) Monitor: SQL Server |
| | MUT NUT, CONT. CENTRE |
| | Status: Alarm |
| | Operational |
| Body | %[system.charts] |
| | Distribution list |
| | kadmin (norep)y@kaseya.com) |
| Extra recipients | and a second |
| can a recipients | End of report |
| | End of report |

Note: The Simulate alarm feature does not work correctly if the system administrator has disabled all actions.

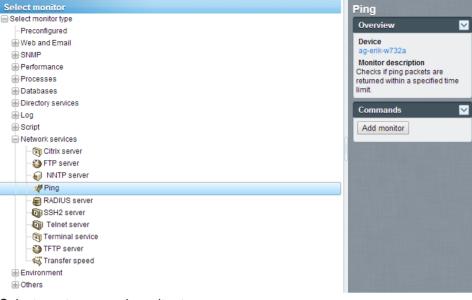
Adding Monitors

<selected asset > > Add new monitor

To add a monitor to an asset:

- 1. Select any asset node in the monitor tree.
- 2. Select the Add new monitor command.

A list of list of monitor types—more than 40 and growing—displays. See Monitor Reference to identify which operating systems support which monitors.



- 3. Select a category and monitor type.
- 4. Select the Add monitor command.
- 5. Configure the monitor by editing the monitor's property tabs (page liii).

Note: Adding preconfigured monitors (page lii) is even faster!

Adding Preconfigured Monitors

Network Monitor can determine the appropriate *preconfigured monitors* for an asset. Typically you add preconfigured monitors just after a new asset is discovered. It's also recommended if the credentials or configuration of the asset has changed.

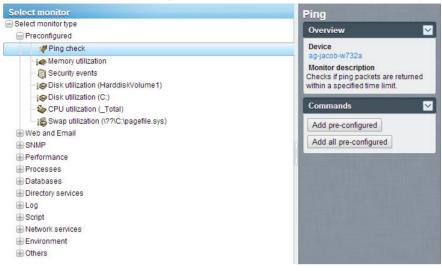
To add preconfigured monitors to an asset:

1. Click the Inspect now command for the asset. Wait for inspection to finish.

Note: You can also run Inspect now for *multiple assets at the same time*, using the More > Inspect now option on the Assets tab (*page xxvi*).

- 2. Click Add New Monitor to see a list of preconfigured monitor types.
- 3. Click any of the Preconfigured monitor types in the list.

4. Click either the Add pre-configured command or click the Add all pre-configured command.



Editing Monitors

<selected monitor> > Edit

The Edit monitor tab sets the properties for monitors assigned to assets.

- Basic tab (page lv) This edit tab displays with monitors.
- Advanced tab (page lv) Gateways, groups, assets, and monitors display an Advanced edit tab.
- Alarm filtering tab (page lvi) This edit tab displays with monitors.
- Statistics tab (page lvi) This edit tab displays with monitors.

Example

Let's take a look at the properties you can set if you select the Performance > Memory utilization monitor.

| Note: The follow monitor-specif | wing <i>standard monitor settings</i> display on mos <i>fic settings</i> . | st monitors. See the Mo |
|---|---|---|
| Edit monitor | Basic Advanced Alarm filtering Statistics | |
| Basic monitor settings | | Minimum free main memory in the specified unit. |
| Device: Type: Name: Test interval: | GA-7_32_1 (Generic Windows) Memory utilization Memory utilization 60 | |
| Threshold settings | | |
| Free memory: Unit: Process report: | 60 MB ¥ | |
| Windows domain cred | entials | |
| Inherit credentials: | From: QA-7_32_1 (Administrator) | |

- The **Test interval** value in the **Basic Properties** section shows how much time must elapse between tests before the first alarm is generated.
- The Threshold setting section specifies the minimum Free memory required by this monitor, as described by the tooltip.

| Edit monitor | Basic | Advanced | Alarm fi | Itering | Statistics |
|---------------------------|----------|--------------------|---------------|-----------|------------|
| | | | | | |
| Alert settings | | | | | |
| Alarm generation: | 2 | | | | |
| Alarm test interval: | 600 | | | | |
| Active: | R | | | | |
| Statistics and chart sett | ings | | | | |
| Store statistics: | V | | | | |
| Chart resolution: | 24 ho | urs 💌 | | | |
| Group channels: | Group | 4 channels 💌 | | | |
| Chart layout: | 1 💌 | | | | |
| Simple maintenance | | | | | |
| Start time: | | • | | | |
| Day of week: | Mon 🗖 | 🗆 Tue 🗖 Wed 🗖 | Thu 🗖 Fri 🥅 S | 3at 🗖 Sun | |
| Maintenance mode: | Stop te | sts during mainter | ance | | • |
| Alert and recovery settin | ıgs | | | | |
| Inherit alarm message | s: 🔽 Fro | m: QA-7_32_1 | | | |
| Inherit alarm actions: | Fro Fro | m: QA-7_32_1 | | | |
| | | 5 | Save | Cancel |] |

- The Alarm generation value specifies the minimum number of *consecutive* "tests" that must fail to generate an alarm.
- The Alarm test interval value shows how much time must elapse between tests after the first alarm is generated. This interval is usually much longer then the Test interval, to give you time to respond to the original alarm.
- After the first alarm count, each additional, consecutive test that fails will increase the alarm count by one.
- As described in **Alarm Status Progression** (*page xlv*):
 - The first time a monitor fails a test it begins displaying a warning icon next to the monitor in the monitor tree.
 - When the number of failed tests—the *alarm count*—matches the number in the Alarm generation field, the monitor enters an *Alarm* state. An alarm licon starts displaying next to the monitor in the monitor tree.
 - > The monitor will remain in its alarm state until any one of the following occurs:
 - ✓ The test no longer fails, at least once, in a continuing series of consecutive tests.
 - ✓ The alarm is acknowledged by a user. An acknowledged alarm means a user knows about it and is acting to correct it.
 - ✓ The monitor is edited.

Basic edit tab - monitors

This edit tab displays with monitors.

Note: The following *standard monitor settings* display on most monitors. See the Monitor reference for *monitor-specific settings*.

Basic tab

- Asset The name of the asset.
- **Type** The type of monitor. The identified operating system determines the type of monitors that can be added to an asset.
- Name The unique name of the monitor. Defaults from the monitor type name.
- Test interval The interval to wait if the last test was OK. Typically the interval is longer if the last test *Failed*, as specified using the the Alarm test interval on the Advanced tab.

Advanced edit tab - monitors

Groups, gateways, assets, and monitors display an Advanced edit tab.

Note: The following *standard monitor settings* display on most monitors. See the Monitor reference for *monitor-specific settings*.

Alert settings

- Alarm generation Specifies the minimum number of *consecutive* "tests" that must fail to generate an alarm.
- Alarm test interval Specifies how much time must elapse between tests after the first Failed alarm is generated. This interval is usually much longer then the Test interval on the Basics tab, to give you time to respond to the original alarm. After the first alarm count, each additional, consecutive test that fails increases the alarm count by one.
- Active If checked, this monitor is active. A monitor that is not active does not perform any tests. This option is checked by default.

Statistics and chart settings

- Store statistics If checked, data collected is stored to disk.
- Chart resolution The duration displayed by the chart.
- Group channels The number of channels of data allowed on a single chart if a monitor returns multiple channels of data. This is mainly useful for monitors such as the Environment monitor that store separate statistics data for different external sensors.

Simple maintenance

These settings provide a quick method of specifying a maintenance period for a single monitor.

Note: Use Network Monitor > Schedules > Monitor maintenance to specify maintenance schedules for *multiple* monitors.

- Start time / (end time) The range of time during the day when this monitor is down for maintenance.
- Day of week The days of the week this monitor is down for maintenance.
- Maintenance mode Stop test during maintenance. This is the only mode available during a maintenance period.

Alert and recovery settings

- Inherit alarm messages Sets the Alarm Messages (page lvii) format for this node.
- Inherit actions If checked, inherited actions and inherited recovery actions are included on the Actions tab (page xlviii) of this node.

Alarm filtering edit tab - monitors

This edit tab displays with monitors.

Note: The following *standard monitor settings* display on most monitors. See the Monitor reference for *monitor-specific settings*.

This tab enables you to filter out categories of alarms for a monitor. For example, if a monitor is causing false alerts due to an unstable network connection, uncheck **Network errors** to ignore these types of errors. By default, all types of errors are alerted on.

- Network errors Alerts on network connection error conditions.
- Threshold errors Alerts on monitor threshold error conditions.
- Other errors Alerts on unclassified error error conditions.

Statistics edit tab - monitors

This edit tab displays with monitors.

Note: The following *standard monitor settings* display on most monitors. See the Monitor reference for *monitor-specific settings*.

This tab contains display settings for each type of statistical data recorded by the monitor. If checked, the specified data is shown in the real time charts on the monitor information view.

Alarm Messages

Alarm messages can be specified for gateways, groups, assets, and monitors.

Several of the actions you can execute when an alarm fails a consecutive number of tests is the sending of messages.



The default format used by all message types is specified by the *root node* at the top of the monitor tree, named the KNM node by default. All other descendant nodes *inherit* this message format unless you choose to override it. There is a separate format for action messages and for recovery action messages. See the list of **Format Variables** (*page lviii*) available to use.

| Edit group | Basic properties | Advanced | Authentication | NOC | Access | - |
|------------------------|--|--|---------------------|------|--------|-------|
| | | | | | | |
| Basic properties | s | | | | | |
| Name: | KNM | | | | | |
| Description: | | | | | | |
| Alert and recove | ery settings | | | | | |
| Notification group: | Administrators | • | | | | |
| Alarm subject: | KNM - Alarm - % | [device.name] | %[monitor.name] | | | |
| Alarm message: | Time: %(system Device: %(devic Monitor: %(moni | .time) e.ur() (%(device tor.ur() | address)) | | | |
| Recover subject: | KNM - Restart - | %[device.name |] - %[monitor.name] | | | 6 |
| Recover message: | Time: %]system Device: %[devic Monitor: %[moni | .time) e.ur() (%(device tor.ur() | address)) | | | |
| | | | | Save | C | ancel |

To override the inherited default format, click either the **Basic properties** or **Advanced** tab, depending on the type of node you've selected. Then uncheck the **Inherit alarm messages** checkbox.

| idit device Basic p | roperties | Advanced | Authentication | NOC | Access | T |
|---------------------------|-----------|-------------------------|--------------------|------|--------|----|
| Basic properties | | | | | | |
| Name: | SW-ST- | WI-0 | | | | |
| Address: | 10.20.7 | 0.42 | | | | |
| OS type: | Window | is 💌 | Windows 2003, 32 t | it 💌 | | |
| Description: | | | | | | |
| Free text: | | | | | | |
| | | | | | | |
| | | | | | | |
| Nert and recovery setting | | ^{tt} Stockholm | | | | |
| Inherit alarm messages: | From | ^c Stockholm | | | | |
| Alarm message: | | | ĥ | | | |
| Alarm subject: | | | | | | |
| Recover message: | | | | | | |
| Recover subject: | | | ~ | | | |
| Inherit alarm actions: | From From | ^r Stockholm | | - | | |
| | | | Sa | ive | Cance | el |

Format Variables

All outgoing messages in **Network Monitor** can include formatting variables in the text of the message. The format variables are resolved before the messages are processed and sent to recipients. Most of these format variables are context sensitive. For example, the format variable **%[monitor.error]** only resolves when an alarm is triggered by a monitor action. This same format variable will not resolve into anything if used in a **Send mail** scheduled event.

| %[system.time] | current time |
|-----------------------------|-----------------------------|
| %[system.time_hour] | 24 hours formatting |
| %[system.time_hour2] | 12 hours formatting |
| %[system.time_minute] | including minutes |
| %[system.time_second] | including seconds |
| %[system.date] | current date |
| %[system.date_year] | current date with full year |
| %[system.date_year2] | year without century |
| %[system.date_month] | month as number 01 - 12 |
| %[system.date_day_of_month] | day of the month 01 - 31 |

| %[system.date_weekday] | 0 - sunday, 6 = saturday |
|--|--|
| %[system.date_day_of_year] | day of the year 1 - 366 |
| %[group.name] | name of group |
| %[group.path] | full path of group |
| %[group.id] | group unique id |
| %[group.url] | link to group |
| %[group.kb_article_url] | link to articles for the current group |
| %[group.company] | group/company name |
| %[group.additional] | group/company additional line 1 |
| %[group.additional] | group/company additional line 2 |
| %[group.contact] | group/company contact name |
| %[group.email] | group/company email |
| %[group.phone] | group/company phone |
| %[group.cellphone] | group/company cell phone |
| %[group.fax] | group/company fax |
| %[group.address1] | group/company address1 |
| %[group.address2] | group/company address 2 |
| %[asset.local_time] | asset local time |
| %[asset.name] | name |
| %[asset.id] | unique id of asset |
| %[asset.category] | asset category |
| %[asset.free_text] | |
| %[asset.address] | |
| %[asset.ip] | |
| %[asset.description] | |
| %[asset.notification_group] | |
| %[asset.mac] | |
| %[asset.url] | link to asset |
| %[asset.kb_article_url] | link to articles for the current asset |
| %[monitor.name] | |
| %[monitor.id] | |
| %[monitor.error] | |
| %[monitor.error2] | |
| %[monitor.type] | |
| %[monitor.current_status] | |
| %[monitor.time_last_ok] | |
| %[monitor.time_last_ok_local_time] | |
| %[monitor.time_last_failed] | |
| %[monitor.time_last_failed_local_time] | |
| %[monitor.dependency_status] | |
| %[monitor.url] | |
| | |

| %[user.current] | name of the user, used in acknowledge alarm |
|---------------------------|--|
| %[user.on_duty] | name of "on duty" user as defined by a user work schedule |
| %[user.distribution_list] | list of users who get the e-mail |
| %[report.name] | |
| %[report.description] | |
| %[monitor.list] | used in acknowledge alarm, monitors that were acknowledged |

Acknowledging Alarms

Acknowledge an alarm by selecting the Acknowledge button at the top of any Monitors view tab on a gateway, group, or asset node.

A user can acknowledge the alarm state of one or more monitors to notify other users that the alarms are being investigated. When acknowledging an alarm, the user has two choices:

- Clear alarm status This clears the alarm state and returns the monitor to its *Ok* state.
- Deactivate the monitors This deactivates the monitors, with a checkbox to automatically reactivate the monitors after N minutes. If the reactivate checkbox is unchecked, the monitors stays deactivated until being manually activated.

| knowledge alarm for the | ollowing monitors: | | |
|---|---------------------------------|-------------------|--|
| Device Monitor | n | | |
| adify the selected monitor | s: | | |
| Deactivate the monitors | 1 | | |
| and reactivate the moni | ors after: 30 minutes | | |
| | | | |
| 'ou can send a message! | all users responsible for the s | elected monitors: | |
| Time: %[system.time] User %[user.current] has | eknowledged alarm for the foll | awing monitors: | |
| Time: %(system.time) User %(user.current) has %(monitor.list) | eknowledged alarm for the foll | | |

Acknowledge Notification Format

The format of the acknowledge notification message is *not inherited down the monitor tree*. Instead, the default notification format is specified using the Network Monitor Settings > SMS > Default messages tab and applies to all nodes.

Note: The Format Variables (*page lviii*) topic lists the format variables you can include in an acknowledgment notification message.

Reports

Network Monitor is capable of generating statistical reports from recorded monitor data. All reports are constructed using a common set of design elements such as charts, toplists, downtime information, data tables, comments and images. The overall style and color settings of the reports are controlled by style templates, which makes it easy to add your company color-scheme or logotype to the finished reports.

This section introduces how to view and publish different types of reports.

Viewing Report Templates

<Select a node> > Create a report > View in Browser

The View report page enables you to view two types of report.

- Report templates
- Quick reports

Typically you select groups, assets or monitors *first*, then select the type of report to view.

- 1. Select any node in the monitor tree, typically a gateway or group. Depending on the type of node, either assets or monitors are listed in the middle pane.
- Click the View Report button or select the Create a Report > View in Browser command to display the View report page.

| W report Report s | ettings Selection | | |
|-------------------------|--|-------------|--------|
| port settings | | | |
| Period: | Current day | | |
| Nease select: | Run a report template C Configure a quick report | | |
| n a report template | | | |
| ielect report template: | Availability | | |
| | | | |
| | | View report | Cancel |

Report settings

The **Report settings** tab on the **View report** page displays three initial options:

- Period Selects the period of the report.
 - Current day, week, month, quarter, year
 - Last day, week, month, quarter, year
 - User defined period
 - Offset in days
- Run a report template Select from a list of predefined reports templates. Network Monitor comes
 pre-configured with a set of useful Report templates. You can customize these or create your own.
 The type of data and design elements are already selected in a report template, so the only
 choice you have to make is which report template to run.

Configure a quick report - We recommend you select specific monitors before selecting this option. If
you do, the quick report (page lxii) includes a set of compatible design elements by default for the
monitors you have selected. If no monitors are selected before selecting this option, you must add
each design element manually.

Selection

Use the **Selection** tab on the **View report** page to override the default selection of gateway or group, assets and monitors selected for either type of report.

Viewing Quick Reports

<Select a node> > <select monitors> > View report

Once assets are assigned different types of monitors, run a **Quick report** to *compare data from different types of monitors.* When multiple assets are selected, data for the same monitor type is grouped together on the same graph.

The fastest way to configure a quick report is from the list view of a **Monitors** tab of a single asset. Select all the monitors for that asset on the **Monitors** tab. Click the **View report** button at the top of the monitor list.



Click the **Configure a quick report** option. The **Report settings** tab lists a series of configuration sections, one or more for each type of monitor you selected earlier.

| eport settings | | |
|-----------------------|--|---|
| Period: | Current day | |
| Please select: | C Run a report template @ Configure a quick report | |
| onfigure a quick repo | nt | |
| Please select: | Databases 💌 Buffer cache hit ratio 💌 Add | |
| CPU utilization | | × |
| Jnit: | Percent 💌 | |
| Chart: | Display averages Group 4 monitor(s) | |
| Datatable: | No datatable 💽 Interval average 💌 | |
| Disk utilization | | × |
| Jnit: | Percent 💌 | |
| Chart: | Display averages 💌 Group 4 monitor(s) 💌 | |
| atatable: | No datatable 💽 Interval average 💌 | |
| aing roundtrip time | | × |
| Jnit: | Miliseconds - | |
| Chart: | Display averages 💌 Group 4 monitor(s) 💌 | |
| Datatable: | No datatable 💌 Interval average 💌 | |
| ping packetloss | | × |
| Jnit: | Percent • | |
| Chart: | Display averages 💌 Group 4 monitor(s) 💌 | |
| atatable: | No datatable 💌 Interval average 💌 | |
| fernory utilization | | × |
| Init: | Percent 💌 | |
| Chart: | Display averages 💌 Group 4 monitor(s) 💌 | |
| Datatable: | No datatable 💌 Interval average 💌 | |
| Swap utilization | | × |
| Init: | Percent 💌 | |
| Chart: | Display averages 💌 Group 4 monitor(s) 💌 | |
| Datatable: | No datatable 💌 Interval average 💌 | |

Click the View report button at the bottom of the page. Monitor data displays in chart format for each of the sections configured on the **Report settings** tab.

Note: To display the report in a new tab or window, set the Network Monitor > User > My settings > Interface options tab > View reports drop-down list to Open reports in a new window.

Using this same page you can:

- Add new sections using the Add button at the top the Report settings tab.
- Select a different time Period.
- Use the Selection tab to select multiple groups, assets and monitors.

Note: You can also select the Run a report template option to run a report with a pre-defined layout for the assets you selected.

Viewing Customized Reports

Customized reports are good for defining reports whose content does not change. A customized report is also the only way to create a report that contains data for different time periods in the same report.

Customize reports are designed just like report templates, *but are bound to specific groups, assets and monitors.* For that reason customized reports are not run by first selecting a node in the monitor tree. *Instead you both create and run customized reports by selecting* Network Monitor > Reports > Customized reports.

Note: Since the design and running of customized reports are so similar to report templates, you should familiarize yourself with configuring report templates first. Customized reports simply provide additional fields that require you to specify groups, assets and monitors.

Emailing and publishing reports

<Select a node> > Create a report > Email or publish

Network Monitor > Reports > Customize reports > (click the 🛀 icon)

The **Email report** page distributes a selected report template or customized report as an attachment to an email, or populates a file location. You do not preview the report before generating it.

Select groups, assets or monitors first.

- 1. Select any node in the monitor tree, typically a group. Depending on the type of node, either assets or monitors are listed in the middle pane.
- Click the View Report button or select the Create a Report > Email or publish command to display the Email report page.

| Email report | Report configuration |
|--------------------|-------------------------|
| | |
| Report configurat | 0 0 |
| Selected groups | e • Kaseya |
| Report template | Availability |
| Period: | Current day |
| Email recipients | |
| User group: | Administrators 💌 Select |
| Selected groups | Remove |
| User: | kadmin Select |
| Selected users: | kadmin 💌 Remove |
| Email: | kadmin@kaseya.com |
| Publish report opt | lons |
| Directory: | |
| FTP host & port: | |
| FTP user: | Use no logon account 💌 |
| | Create report Cancel |
| | Create report Cancel |

Report configuration

- Selected groups Displays the selected group node.
- Report template Select a report template.
- **Period** Selects the period of the report.
 - Current day, week, month, quarter, year
 - > Last day, week, month, quarter, year
 - > User defined period
 - Offset in days

Email recipients

- Select assets / Selected assets Enter text matching any part of the name of the asset. Select one or more assets from the Select assets list and click the Add button. To remove one or more user groups from Selected groups, select a user group and click the Remove button.
- User / Selected users Select one or more VSA users from the Users list and click the Select button. To remove one or more users from the Selected users list, select users and click the Remove button.
- Email Specify individual email addresses as recipients. Separate multiple entries with a comma.

Publish report options

Instead of emailing a report, you can save it to a network location.

- Directory The generated report is published on a network folder as an HTML document. Specify
 the path to this folder. Optionally include the following formatting variables when specifying the
 filename.
 - %[system.date] the current full date
 - > %[system.date_year] current year
 - > %[system.date_month] current month
 - > %[system.date day of month] current day in the month
 - > %[system.time] current full time
 - > %[system.time_hour] current hour
 - > %[system.time_minute] current minute
 - > %[system.time_second] current second
- FTP host & port -The generated report can be published on a FTP server as a HTML document. Specify the host name and port number. Defaults to 21.
- **FTP user** -Select the logon account to be used for authenticating against the FTP server here.

Scheduling reports

Scheduling the automatic generation of reports is done with the scheduled events feature. Details on how to work with scheduled events can be found in the **Scheduled events** (*page xxix*) section. Documentation for the Generate report event specifically can be found in the **Scheduled event reference** section.

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