



**up.time**  
**Version 6.0.1**

**December 2011**

## **Release Notes**



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## About Version 6.0.1

**up.time** 6.0.1 release contains bug fixes and improvements for the 6.0 release. Additionally, new up.time agent versions are being released alongside version 6.0.1. This release notes document contains changes to both the current 6.0.1, and the recent 6.0 release.

## New Features in Version 6.0

up.time 6.0 contains the following new features:

- VMware vSphere Monitoring
- VMware vCenter Import and vSync
- New Service Monitors
- VMware Performance Monitoring and Graphing
- New Reports

### VMware vSphere Monitoring

up.time 6.0 introduces greatly expanded VMware monitoring capabilities. Organizations using VMware vSphere to manage their virtual infrastructure can take advantage of up.time's broad and smart VMware monitoring capabilities. Using the base VMware vSphere integration features, along with the new VMware vSphere service monitors and reports, you can streamline your virtualization operations, and take further advantage of the benefits they are already bringing you.

up.time 6.0's VMware monitoring features include the following:

- monitoring efficiently by being aware of VM and ESX host power states
- calculating datacenter power usage
- understanding resource capacity bottlenecks and usage trends across the entire virtual infrastructure
- acquiring control over VM sprawl
- managing virtual infrastructure capacity
- performing the aforementioned tasks in the same GUI where the monitoring and management of both your virtual and physical infrastructures is integrated

Integrating and maintaining your VMware vSphere assets in up.time is seamless.

## VMware vCenter Import and vSync

As you would any physical host, you can add a VMware vCenter server as an **up.time** Element. Importing it as an Element initiates an auto-discovery process that not only imports all of the VMware vCenter server's child objects — datacenters, clusters, ESX hosts, vApps, resource pools, VMs — but imports their existing relationships intact.

Once imported, relationships are maintained through vSync, the core process that ensures changes on the VMware vCenter side are reflected nearly instantly in **up.time**.

vSync also provides **up.time** with agentless VMware vSphere monitoring, by migrating performance data to the **up.time** DataStore, making the data ready to be used for performance checks, diagnosis, and reporting.

## New Service Monitors

You can use the new VMware vSphere performance monitors to alert on potential bottlenecks with your virtual resources. By monitoring performance thresholds for any datacenter, cluster, ESX server, resource pool, or vApp, you can choose from which perspective you want to monitor your virtual infrastructure.

The ESX host and VM power state monitors help you ensure power-state management initiatives are being successfully carried out, and can act as checks to ensure mission-critical virtual resources are not going down.

## VMware Performance Monitoring and Graphing

**up.time** continuously stays abreast of ESX host and VM power states, and as such, its dashboards are always an accurate snapshot of the state of virtualized affairs.

Additionally, topology management ensures parent hosts that are powered down or experience an outage will not cause all child VMs to do the same, thus alleviating you from the pain of dealing with a bombardment of alerts.

Together, this smart monitoring allows you to focus on optimizing and forecasting virtual asset resource usage.

Each VMware vSphere object has updated Quick Snapshot pages that offer rich synopses that provide detailed, current resource usage information. Furthermore, historical usage can be shown as backdrops to help you identify growth trends.

There is a whole host of new graph types that can be generated for each imported VMware vSphere object, whether virtual instance, or ESX server. You can use these graphs to forecast virtual capacity and spot resource usage trends for key resources such as CPU, memory, and network throughput.

## New Reports

The VM Sprawl report helps you gain control over sprawl, and when generated regularly, helps you ensure your efforts are effective. These reports help you identify abandoned or underused VMs, and map VM population trends.

The VMware vSphere Workload report provides a broad view of workloads across your entire virtual infrastructure. You can use it for virtual capacity bottleneck troubleshooting, as well as historical comparisons.

## Upgrade Notices

Before upgrading to [up.time](#) 6.0.1, it is important you review, and if applicable, act on the following notices:

- VMware vSphere Licensing
- up.time MDC Upgrade Eligibility
- WebLogic 8 EOL

### VMware vSphere Licensing

VMware licensing has been updated in [up.time](#) 6.0 to improve accuracy and remove potential disruptions to monitoring in the event that license entitlements are exceeded. All [up.time](#) users upgrading to 6.0 will require a new license key.

Virtual Machines that are running on a currently monitored ESX or ESXi Element are considered “free.” Virtual machines that are *not* running on a monitored element are no longer free. Please verify that your license will accommodate all VMs that are running on non-monitored hosts.

Changes have been made to the handling of VMs that move from a monitored Element to an unmonitored, or unknown, Element. If a VM cannot be mapped to a monitored ESX server Element, it will have its monitoring disabled so that it does not unintentionally consume a license seat. When the VM returns to a monitored ESX element, its monitoring will automatically be enabled again.

On vSync, attached ESX elements this detection is completely automatic and instantaneous. For legacy ESX elements this license validation occurs when the Configuration Update Gatherer runs, so if a VM vMotions from one ESX server to another there is a potential that it will not be monitored for a few minutes until it is detected on the target ESX host. It is highly recommended that all ESX monitoring is done via vSync and vCenter attached ESX servers.

## up.time MDC Upgrade Eligibility

Due to limitations with integrating VMware vSphere monitoring across multiple datacenters, this version of **up.time** is *not* compatible with **up.time** MDC installations.

The **up.time** installer prevents users from upgrading a v5.4–5.5 EMS installation, but you must be sure to not upgrade an LDC instance.

## WebLogic 8 EOL

Due to the EOL status of Oracle WebLogic 8, support for **WebLogic 8** has been removed from **up.time**. The standard **WebLogic** service monitor continues to support versions of WebLogic 11.

When upgrading to **up.time** 6.0, all instances of the WebLogic 8 service monitor will be removed, including the following cases:

- as a master service in a service group; the service monitor will be removed from the group and deleted
- as a host check service; the first found ping monitor on the host will replace the WebLogic service monitor; the absence of a replacement ping monitor will be noted in the upgrade log
- as part of a WebLogic report or Service Monitor Metrics report; it will be removed, but retained data will not be purged
- as part of an SLA or Application; retained data will not be purged

## Changes to Existing Features in Version 6.0

- ESX Workload Monitor
- Maintenance on Demand
- Application Business Logic
- Parent Host Checks
- Interactive Quick Snapshot Graphs
- Graphing Options
- Configurable Landing Pages (UT-7224, UT-12390)
- Subnet Ranges in Auto Discovery (UT-10498)
- File System Capacity Monitor Enhancements (UT-4700, UT-7664, UT-10733)
- Performance Check Monitor Enhancements
- Improved Search Field (UT-10935)
- Element Selection
- UI Changes
- Other Changes to Existing Features

### ESX Workload Monitor

With up.time 6.0's new VMware vSphere monitoring features, the ESX Workload service monitor has been deprecated. It is no longer available as an addable service monitor, as its capabilities have been superseded by the vSphere ESX Server Performance monitor.

On upgrade to v6, existing ESX Workload monitors will continue to be a part of upgraded Element groups and views, and can be cloned. However, as mentioned, it is recommended that you change your configuration to monitor ESX servers using vSync.

## Maintenance on Demand

up.time now allows you to immediately put an Element into a MAINT state. This accommodates users who periodically need to perform this action outside of a pre-defined, scheduled maintenance period.

Both Elements and entire Element groups can be put into maintenance mode. If an Element group is set to MAINT, all of its Elements and subgroups will follow. Any Elements added to, or removed from, the Element group during the temporary maintenance period will inherit the appropriate state.

Putting an Element or group into a temporary maintenance state is performed on the **My Infrastructure** Element hierarchy by clicking an Element or Element group's Configure System icon (i.e., gear icon) to reveal the **Put into Temporary Maintenance** option.

## Application Business Logic

Applications can now be configured with more complex alerting rules. You can now configure an application to reach warning-level or critical-level status when a specific number, percentage, or all master services enter those states.

This new functionality allows you to assign more or less “weight” to groups of master services to give a more accurate state of the application as a whole. For example, a web server cluster of 10 servers might only cause alerts when three of them are down. This added flexibility means fewer self-defined false positives, and a clearer outage history.

## Parent Host Checks

When an Element that experiences an outage, up.time initiates a host check on its parent, whether its parent is implied (e.g., a service monitor and its host), or explicit (e.g., a Topological Dependency).

This behavior supports smarter alerting, where up.time looks “upward” to find the root of a problem.

## Interactive Quick Snapshot Graphs

Some of the Quick Snapshot dashboards are now using a Flash-based graphing engine. This is the initial stage of a wider implementation, and most uses in this release are for the new VMware vSphere objects in [up.time](#). The Flash-based charts visually accommodate more data, and allow interactively through mouse hovering.

Note that these new pages will not load correctly if your users' browsers are not capable of rendering Flash content.

## Graphing Options

As part of a wider future implementation, some graphs now use a dynamic configuration page that presents users with next steps based on previous configuration choices. This more streamlined configuration interface makes graphing a simpler and faster process.

Additionally, some graph types also include quick-graphing links that instantly generate a graph based on pre-defined options. These quick-graph options provide users with one-click shortcuts to useful diagnostic information.

## Configurable Landing Pages (UT-7224, UT-12390)

User profiles can now be configured to include which main [up.time](#) page is displayed on login. This allows you to set different post-login pages for different user types.

## Subnet Ranges in Auto Discovery (UT-10498)

To provide easier setup, the auto-discovery configuration screen now accommodates multiple common-separated subnets (e.g., “10.1.1, 10.1.4, 10.1.52”), and IP ranges (e.g., “10.1.4.25-176”).

## File System Capacity Monitor Enhancements (UT-4700, UT-7664, UT-10733)

The File System Capacity service monitor's configuration options have been expanded to include more criteria with which to trigger alerts. In addition to the old percent usage check, you can now set thresholds using MB, GB, and TB used or free, as well as percent free. These additional configuration options offer more ways to measure file system capacity and usage.

## Performance Check Monitor Enhancements

The Performance Check monitor's metrics have been expanded to include other common system metrics such as run queue length, memory used, and network error and I/O rates. Similar to the File System Capacity monitor's changes, these additional checks offer more ways to measure system performance.

## Improved Search Field (UT-10935)

The search field is now dynamic and has been expanded to match more [up.time](#) actions. In addition to searching on Element attributes such as hostname or display name, it can search for configuration options.

Selecting an Element will take you to its main profile page, and selecting an action will in most cases open the appropriate pop-up window for the appropriate configuration page.

## Element Selection

Some configuration screens (mainly those pertaining to VMware vSphere, as well as vSync configuration) are now using a new Element selection interface. This is the first phase in a wider implementation.

The selection tool allows for more immediate interaction with click-dragging. It also more readily facilitates selecting from very long lists with a search filter that dynamically lists matching entries as you type.

Matches can be with the list entry's name, or metadata (e.g., the name of the Element that is hosting a service).

## UI Changes

The login page has been enhanced to provide more helpful login tips and more informative error messages. Additionally, tool bar and assistance links at the top of the [up.time](#) interface have been consolidated into a new main menu bar.

## Other Changes to Existing Features

- UT-2017 the **Windows Event Log Scanner** service monitor can be configured to check “Other” log types aside from Application, System, and Security
- UT-4592 when the Core up.time service is restarted, the up.time log now indicates the database connection information
- UT-6706 when configuring the **Oracle (Basic Checks)**, **MySQL (Basic Checks)**, and **Sybase** database monitors, selecting the **Port Check** option hides other configuration options
- UT-7941 resetting the database with invalid parameters or the wrong case will display an error message, not a stack trace
- UT-8397 the 255-character limit in custom message area for an Alert Profile has been removed
- UT-8589 the Web Application Transaction service monitor now replaces the hostname during recording with \$HOSTNAME\$, allowing use with service groups
- UT-8630 scheduled reports now log the date and time when emailed
- UT-9328 added debug logging and error messages for users when adding a WMI-based Element fails

- UT-10062 users whose profile allows “View” access to Services can now use the **Test Service Monitor** function when viewing a service
- UT-10064 the **SysList** entries now include OS and host architecture
- UT-10391 email and pager alerts from Alert Profiles are now sent in one message to all recipients in the Notification Group (instead of one message for each user)
- UT-10530 to accommodate Windows users, the VM appliance is now shipped in .zip format instead of .tar.gz
- UT-10710 the Server Core installation of Windows Server 2008 can be monitored via WMI

## Platform Support and Integration Changes in 6.0

Visit uptime software’s Knowledge Base for the latest comprehensive listing of currently supported monitoring station, database, and agent platforms.

The following summarizes platform support changes for [up.time](#) since the previous release.

Monitoring Station	
no longer supported:	<ul style="list-style-type: none"><li>• Red Hat Enterprise Linux 4.7</li><li>• Red Hat Enterprise Linux 5.4</li><li>• SUSE Linux Enterprise Server 11.0</li><li>• Windows XP Professional</li></ul>
Monitoring Station DataStore	
has entered limited support status and may no longer be supported in a future release:	<ul style="list-style-type: none"><li>• Microsoft SQL Server 2008</li><li>• Oracle 11g</li></ul>
no longer supported:	Oracle 10g R2
Monitoring Station Browser	
Due to the rapid release cycle of Chrome and Firefox, the latest version of <a href="#">up.time</a> is fully supported on the latest browser versions available at the time release testing began.	
new supported browser versions:	<ul style="list-style-type: none"><li>• Chrome 14</li><li>• Firefox 7</li></ul>
has entered limited support status and may no longer be supported in a future release:	<ul style="list-style-type: none"><li>• Chrome 10–13</li><li>• Firefox 4–6</li><li>• Internet Explorer 8</li></ul>
no longer supported:	Internet Explorer 7

<b>Agent-Based Monitoring</b>	
no changes this release	
<b>Agentless Monitoring</b>	
new supported agent platforms:	VMware ESX and ESXi 4.1, 4.1 Update 1
has entered limited support status and may no longer be supported in a future release:	<ul style="list-style-type: none"> <li>• VMware ESX and ESXi 3.5, Updates 1–4</li> <li>• VMware vCenter server 2.5</li> </ul>
no longer supported:	<ul style="list-style-type: none"> <li>• IBM pSeries HMC V6R1.2</li> <li>• Windows XP Professional, SP1, SP2 (for Windows Management Instrumentation)</li> </ul>
<b>Service Monitors</b>	
has entered limited support status and may no longer be supported in a future release:	<ul style="list-style-type: none"> <li>• IIS 6</li> <li>• Oracle 8i</li> <li>• WebSphere 6.1</li> </ul>
no longer supported:	<ul style="list-style-type: none"> <li>• WebLogic 8.x–10.3</li> <li>• WebSphere 5.x</li> </ul>
<b>Platform Integration</b>	
no changes this release	

## Installing up.time

On the uptime software Support Portal, you will find various documents and articles that will guide you through a first-time installation or upgrade.

### Installing for the First Time

A complete, first-time deployment of [up.time](#) and its agents is a straightforward process, but there are several steps you should consider to ensure you are up and running quickly:

- ensuring your network is ready to accommodate [up.time](#)-related communication
- identifying which system will act as the monitoring station, and which servers and network devices will be monitored
- ensuring the systems that will have [up.time](#) agents are on the supported platforms list for this release
- being aware of any platform-specific caveats for the installation process

Additionally, if you are deploying [up.time](#) in a multi-datacenter environment, there are additional preparations and post-installation steps that need to be performed. Refer to the *up.time User Guide* for complete instructions on performing a first-time installation

## Upgrading from a Previous Version

You can upgrade directly to **up.time** 6.0.1 if your current installed version is **up.time** 5.4 or greater.

If your installed version is eligible, you can upgrade to this latest release using the installer for your Monitoring Station's operating system. The upgrade process installs new features, and does not modify or delete your existing data.

If your current version is older than the version required for a direct upgrade, refer to <http://support.uptimesoftware.com/upgrade.php> for information on supported upgrade paths. There, you will also find more detailed installation information.



If you are working with a version of **up.time** that has been customized in any manner beyond the standard installation available on the product CD or downloaded from the **uptime** software Web site, contact Client Services before performing an upgrade.

See the rest of this document to learn about the latest features and changes since the previous release.

## Resolved Issues in 6.0.1

- UT-10761 fixed issue where legacy ESX configuration would lead to ESX host rescan failure
- UT-11074 changed `httpContext` and `monitorHost` values in Virtual Appliance's `uptime.conf` to "localhost"; this prevent issues when the **Network Configuration** option is used during boot-up to change the host name
- UT-12469 fixed issue Element names that contained backslash characters or quotation marks resulted in missing entries in Element or service selection lists in various configuration windows
- UT-13127 fixed issue where some users upgrading from version 5.5 to 6.0 on Linux and Solaris Monitoring Stations may have had 5.5-related entries in `uptime.log` removed, leaving only 6.0 entries
- UT-13195 removed Alert Profiles from default performance services for VMware vSphere Elements
- UT-13197 Element groups are now alphabetically sorted
- UT-13200 removed **Elements** heading from empty Element group in **Global Scan**
- UT-13203 for SLAs and Applications listed in **My Infrastructure**, the right-click **Edit** option now takes users to the correct respective configuration page
- UT-13204 fixed issue where an SLO whose services are configured to **Save for Graphing** are not being reported as metrics in SLA reports
- UT-13235 fixed issue where duplicate HDD entries appear in `vmware_config_vm_vdisk` table
- UT-13287 fixed issue where database-not-responding errors encountered when clicking **Service Status** links on **Global Scan** when using MS SQL 2008 as the database
- UT-13414

- UT-13332 fixed issue where a system's file system with the highest usage was not the one reported in the **Disk** section's % **Used** column in **Global Scan**
- UT-13357 corrected the User Guide directions on how to delete an Element from up.time
- UT-13361 fixed instances of double encoding for special characters in up.time object names
- UT-13365 fixed issue where existing topological dependencies between ESX hosts and VMs were not replaced, but duplicated, when adding a VMware vCenter server to up.time
- UT-13383 fixed issue where SLAs configured to ignore scheduled or temporary maintenance would still count maintenance periods as downtime
- UT-13408 when using Active Directory authentication for up.time users, the values for disabled field mappings are no longer overwritten during the synchronization process
- UT-13409 Fixed issue where **Global Scan** would report that no systems are in a group that does.
- UT-13418 corrected instances where expanding the **Discovered Virtual Machines** group in **My Infrastructure** would display an empty list
- UT-13427 fixed system even logging issue where `uptime.log` entries were continuously being overwritten
- UT-13431 the `addsystem` command line utility now always places the newly added Elements in the specified **My Infrastructure** group
- UT-13466 fixed issue where the Active Directory service monitor does not trigger a critical alert when there is no Attribute match

## Known Issues in 6.0.1

Due to Java's handling of custom time zones, after upgrading, some users on the Windows 2008 platform may encounter either missing pages from the [up.time](#) GUI, or HTTP 500 errors.

If these issues occur, as a workaround, edit `php.ini` to use a PHP-supported time zone. Modify the "`date.timezone =`" property, and complete it with one of the time zones listed here:

<http://php.net/manual/en/timezones.php>

## Resolved Issues in 6.0

- UT-3113 can now remove an alert profile from a notification group
- UT-3735 SNMP service monitor can now be deleted if being viewed from the attached Element's **Manage Services** page
- UT-4070 the Administrator user can no longer be removed from the SysAdmin user group
- UT-4093 can no longer remove a user from a group if that group is the only one the user is a member of
- UT-4183 changing the port for a remote reporting instance is now validated
- UT-4476 the **Resource Utilization** and **CPU Performance Graph** checkboxes in the Resource Usage report, when unselected, are no longer automatically reselected every time a graph is generated
- UT-4480 fixed issue where Test Service Monitor output for a custom service monitor displayed newline characters; newline are now represented as `<br/>` tags in test output for custom scripts
- UT-7199 VM instances with two NICs no longer have to be added twice, causing ESX Workload data stoppages
- UT-8113 LDAP service monitor now supports LDAP over SSL
- UT-8297 eliminated inaccurate license counts with ESX Elements
- UT-8438 Action Profiles tied to Microsoft Exchange no longer write an error message to `uptime.log` when they run
- UT-8806 empty Element groups can now be removed from Topological Dependencies, and no longer causes an error
- UT-8939 the SNMP service monitor's MIB Browser Applet no longer fails

- UT-9075 Problem Report configuration now includes data history caps that limit the amount of data imported from the `erdc_status_transition_log` and `entity_configuration*` tables; report generation speed for large or long-time customers has been improved
- UT-9284 time-period definitions that include ordinals are now parsed correctly
- UT-9317 upgrading no longer overwrites `httpd.conf`
- UT-9417 Javascript is filtered from URLs entered in the UI
- UT-9440 up.time no longer incorrectly counts a VM against the license if the VM is using an invalid port to contact the up.time Agent; instead, an appropriate error message will be displayed (i.e., unable to contact agent)
- UT-9569 in reports where “Avg Wait (msec)” is reported (e.g., Disk Statistics), Windows systems are now charted showing the correct “Disk Bytes/Sec” metric
- UT-9654 fixed issue where blocked threads were occurring
- UT-9667 SysAdmin user group members can now always see all  
UT-9670 Element groups, regardless of permission settings
- UT-9696 fixed licensing issue where VM instance whose monitoring was disabled could not be turned back on without violating the license
- UT-9729 fixed issue where editing an Element View with more than 1,000 Elements caused database response problems when using Oracle as the DataStore
- UT-9784 the Windows agent properties now reports identical build and file version numbers
- UT-10698 fixed issue where VMs were able to be added without tied to legitimate ESX server or vCenter
- UT-10753 expanding an ESX server Element in **Global Scan** no longer causes an exception

- UT-10875 **Edit Host Check** button, and ability to assign a service as a host check, still exists even if former service was inadvertently removed
- UT-11075 Virtual Appliance management console link now correctly uses `https` instead of `http`
- UT-11084 increased performance when using the **Pass retained values...** option in the **Custom with Retained Data** service monitor
- UT-11188 Fixed issue where absent `/data` directory prevent the creation of a problem report; if up.time cannot create the directory, the user is provided with an error instruction them to do so
- UT-11470 up.time now shows correct VM instance counts after VMotioning
- UT-11724 `NullPointerException` no longer appears in a reporting instance's `uptime.log`
- UT-12172 changes to a monitored host's disk configuration (add,  
UT-12207 remove, volume change) are now correctly recognized
- UT-12173 `http` link to plug-in monitors page in **Add Service Monitor** window has been updated to the latest location
- UT-12182 all swap space on all disks, not just the first one, is now included in reporting when using WMI for performance monitoring
- UT-12304 LPARs are now correctly detected and displayed on  
UT-12801 configuration rescan

## Known Issues in 6.0

- UT-3557 help link for text boxes where users enter a regular expression leads to blank page
- UT-12855 an HMC LPAR's IP address is not changed when performed on the AIX Element
- UT-12917 generating an HMC LPAR **Workload - CPU** graph produces no result
- UT-12994 `addsystem` script may result in an empty error
- UT-13086 setting a user's default login page to the **Users** page will display this page to the user on login, even if their user role does not allow view access to this page

## Contacting Support

uptime software delivers responsive customer support that is available to both licensed and demonstration users. uptime software offers user support through the following:

- Documentation
- Knowledge Base articles
- Telephone  
+1-416-868-0152
- E-mail  
[support@uptimesoftware.com](mailto:support@uptimesoftware.com)
- Web site  
<http://support.uptimesoftware.com>

## Contacting uptime software

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## Notes

