

# 7.1.1 Release Notes for EE

## GroundWork Monitor 7.1.1 Enterprise Release Notes

This document contains important information about the GroundWork Monitor Enterprise 7.1.1 Release. While this information is not required to install or upgrade, it may be useful to know when examining the new features of GroundWork Monitor that have been added, and there is also useful information about resolved issues in some detail included in a table at the end. Note that in contrast to prior release notes, we aren't including any information about changes from prior releases. This document only discusses changes since 7.1.0.



### How to install or upgrade

The install instructions for this release can be found [here](#) in the Knowledge Base.

This release of GroundWork Monitor fixes many existing issues, and adds several new features, mostly around usability and completeness of existing features. It is not a major upgrade in that we have not replaced or substituted any major components, but we have upgraded and updated, and added functionality to existing features.

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## SECTION 1 – Summary of new features and improvements in GroundWork Monitor 7.1.1

This is the paragraph to read if you don't plan on reading the rest of this document (TL:DR). We have updated the Cloud Hub, adding better organization, the option to name services yourself, and deeper monitoring for AWS. We have also polished several rough-edged features like the aliasing (Host Identity) and Blacklisting that are useful in Cloud Hub deployments. We did a major upgrade to NeDi, and added some features to make it more useful. We added a Hit List dashboard, and repaired and enhanced the Seurat View portlet.

We killed a lot of bugs and updated Perl, several libraries, and our HTTPS/TLS support, and closed all the security vulnerabilities we could find. We also prepared for a lot of new integrations and enhancements we will be adding in future point releases.

Overall we think this release will run smoother and be more fully functional than 7.1.0. Now, let's talk about the details.

### Cloud Hub 2.2

The CloudHub connectors have all been updated to support custom service names. This means you can change the service name from the dotted path variable name it has by default to something more meaningful to you and your staff. Note that changes to the names of services will affect the performance configurations, so make sure you copy those to the new service names you make.

The AWS connector has additionally been updated to support custom CloudWatch metrics. Anything you put into the CloudWatch API can be a service in GroundWork now. Also, the content has been re-organized to better represent the structure of monitored systems in the AWS cloud. There are better associations between the hosts (instances) it sets up and the EBS volumes it monitors, and the RDS assignments are also associated with the instances that use them.

The AWS connector now also supports assigning hostgroups in GroundWork with tag values in AWS.

## Security Improvements

Following multiple security reviews, we have updated several areas of system configuration focusing on the following areas:

- XSS
- SCSS
- CSRF
- Weaker Cipher Suites

We have upgraded several libraries to enhance security and close specific areas of the above vulnerabilities. We now support HTTPS with TLS 1.2 only (by default), and use only strong ciphers. We have given Groundwork customers the ability to enable `mod_security` if so desired, hardening the server for customers in a high security environment. Groundwork has taken the time to close known vulnerabilities related to the above bullets. We have also removed the "Manage Configuration" page from the Foundation Administration to prevent inadvertent configuration changes.

## New "Hit List" Dashboard

We included a new bespoke dashboard as a portlet application in 7.1.1. You will see it in the dashboard list in new installs, and you can add it as a shared dashboard after upgrade. See the [GroundWork Portlets](#) page for details.

## Component Upgrades

With the release of GroundWork Monitor 7.1.1, many components have been upgraded to the latest available versions. The following list shows the new version of the key components that have been updated with the GWME 7.1.1 release:

- Perl 5.24  
The distribution of Perl that we incorporate into the release has been upgraded from version 5.8.9 to version 5.24.0. The structure of add-on packages that GroundWork includes, outside of the Perl Core, has been shifted. Previously, we used a `site_perl` path to deliver such packages. That made it difficult to distinguish the packages that GroundWork delivers from packages that a site might add later on. With the new Perl release, we now use a `vendor_perl` path to deliver such packages. This is standard practice in the Perl community for a vendor-supplied distribution. Modules which are later added by a site should continue to use the `site_perl` path as before, making it easy to identify such additions. Per modern Perl standards, the default `@INC` setting has been adjusted so it will search `site_perl` before `vendor_perl`, and `vendor_perl` before the Perl Core library locations. A small set of additional Perl modules that we have historically found useful is now included in the distribution. Most notable among them is `Devel::NYTProf`, which is an excellent tool for profiling Perl programs.
- NeDi 1.6.100 release (plus patches)  
The NeDi component in this release is enhanced with Policies, a powerful way to use NeDi to track when changes occur in your network, and to tell you about them. It also leverages this capability along with `nfsen` (<http://nfsen.sourceforge.net/>) to monitor Neflow/Sflow traffic patterns, and display them using tabular and sankey graphics pages. There are other enhancements to NeDi discovery and monitoring, and we have added a NeDi import schema to the Automation section of GroundWork to facilitate rapid deployments. For those using NeDi monitoring, you can use the new (beta) NeDi feeder to send data to GroundWork displays.
- Cacti  
Cacti is bundled with GroundWork 7.1.1 as with prior versions. It now includes three new Cacti plugins. Details of installation and use in the GroundWork context are provided in the [Cacti Plugins](#) page.
  1. Aggregate. For instructions, see the plugin home page at <http://docs.cacti.net/plugin:aggregate> and the full manual at [http://docs.cacti.net/\\_media/plugin:aggregate\\_manual\\_v075.pdf](http://docs.cacti.net/_media/plugin:aggregate_manual_v075.pdf).
  2. Realtime. For instructions, see the plugin home page at <http://docs.cacti.net/plugin:realtime>. Note the system-loading aspects of this plugin, as described in the [Usage section of the plugin's home page](#).
  3. Nectar. For instructions, see the plugin home page at <http://docs.cacti.net/plugin:nectar>.

## GroundWork Distributed Monitoring Agents (GDMA)

The Linux GDMA agent installers included in GWME 7.1.1 have been upgraded to the GDMA 2.5.0 release, which has these improvements:

- TLS 1.2 support. As required by most audited organizations, TLS 1.2 support is enabled in GDMA 2.5.0. Note that you will need to transition your GroundWork 7.1.1 server to HTTPS, and then update the GDMA to this version and configure it (including adding certificates) to enable the more secure configuration. Earlier releases of GDMA that included HTTPS support restricted the protocol to TLS 1.0, so that older protocol must remain acceptable until all GDMA clients have been upgraded. See [How to enable SSL support](#) and [Using GDMA with HTTPS](#) for details.

GDMA 2.5.0 installers for the those platforms not upgraded and bundled into the 7.1.1 release will be provided separately, shortly after the 7.1.1 release is available.

## Some other minor enhancements:

- The `check_casperjs.pl` plugin has been added to our distribution to allow the replay of resurectio scripts, which are an effective way of performing synthetic user testing on web applications.
- The Seurat View portlet used on the Enterprise View dashboard has been re-worked. While previously, items with non-ok states would flash for 15 minutes, the time that a given state change will cause the item to flash is now configurable. Also, the behavior has changed so that no items flash on initial load, but will begin to show the flashing state after the first update (one minute cycle). This means if you navigate away and then back to a dashboard with the Seurat view portlet displayed (e.g., drill down to a flashing host), then come back to the view, the flashing state may take up to 60 seconds to appear. For this reason we suggest drill down be done using a separate window or browser tab.

You can also now set the time that a "recently recovered" host stays green, as well as individual flash times for various states. See parameters related to

```
portal.statusviewer.seurat
```

in file

```
/usr/local/groundwork/config/status-viewer.properties
```

for details.

- The `common/bin/sendEmail` script has been upgraded to force the use of a TLS 1.2 connection if a TLS connection is supported by the remote end of the connection. See the `-o tls` option on the command line for details.

## Important issues fixed:

- Archiving of data from the Foundation (`gwcollagedb`) runtime database into a separate archive database was inadvertently broken in the 7.1.0 release. That functionality is now restored in the 7.1.1 release. A principal benefit is that the runtime database is regularly kept pruned and small, leading to better system performance.
- The archiving process has been improved. It will now retain in the runtime database certain event markers which are important in creating host and service availability graphs, in spite of those markers otherwise being sufficiently old that they would have otherwise been purged.
- Tooling is available to recover such markers from the archive database and put them back into the runtime database, thereby restoring the ability to show availability data for hosts and services whose status has been stable for a long time.
- The VMware connector for Cloud Hub was responsible for a memory leak condition on some instances of Vcenter. This has been addressed in CloudHub 2.2.

## Some other minor functional issues fixed:

- The Nagios CGI Hosts screen and Service Detail screen were inadvertently broken in the 7.0.0 through 7.0.2 releases, in that the on-screen "Limit results" menu was not operative. This has now been corrected, and there is a configuration option for it (Nagios cgi configuration, CGI Content Options, Result limit).
- The display of plaintext config files under "Configuration > Tools > Export to files" was inadvertently broken in the 7.1.0 release. That is now fixed.
- The space available in the database for day-of-the-week time-period hours has been extended from a max of 255 characters to a max of 400 characters, to accommodate some unusually complex customer setups.

# SECTION 2 – KNOWN ISSUES AND LIMITATIONS

## Upgrade Issues

**HTTPS** -- Installations on 7.1.0 configured for HTTPS will be reverted to HTTP on upgrade. Your certificates will stay undisturbed, but you will need to re-do some of the HTTPS setup.

**RAPID Feeders** -- When upgrading to 7.1.1 the installer does not restore various RAPID/Feeder-based feeder files in the `/usr/local/groundwork/config` directory or symlinks in `/usr/local/groundwork/logs`. You will need to do this manually if you are using the Cacti or LogBridge feeders in non-default configurations. See the Post-upgrade tasks in the [Installing or Upgrading to GroundWork Monitor 7.1.1](#) page for details. -- GWMON-12764

**JBOSS Portal root user** -- The installer when upgrading to 7.1.1 does not restore any custom portal root user name definition that was in the `gatein.properties` file. See the Post-upgrade tasks in the [Installing or Upgrading to GroundWork Monitor 7.1.1](#) page for details.

**Log Bridge** -- The upgrade of a 7.1.0 system with Log Bridge installed has several post-upgrade tasks detailed in the following page:  
[Post-upgrade tasks for Log Bridge installations](#)

## Limitations and Work-Arounds

**Noma** -- NoMa has around 1 minute latency in reporting notifications. This can be adjusted.

**Ubuntu** -- Running on Ubuntu 12.04 is not recommended because it will be EOLd by Canonical in April 2017.

## SECTION 3 – ANNOUNCEMENTS AS OF VERSION 7.1.1

### Supported Versions of GroundWork

GroundWork Monitor versions 7.0 and 7.0.1 are now end-of-life. Customers using older versions are advised to contact GroundWork Support regarding upgrade options.

GroundWork Monitor version 7.0.2 will be end-of-life with the next release.

### Linux Supported Versions

SuSE Enterprise Linux (SLES):

- Support for SLES 11 & 12
- Recommended version: SLES 12

Red Hat Enterprise Linux (RHEL):

- Support for Red Hat Enterprise Linux 7.x is available as of this release.
- Recommended version: RHEL 7

Ubuntu LTS

- Support for Ubuntu 12.04, 14.04 & 16.04 LTS releases.
- Recommended version: Ubuntu 16.04 LTS

### Supported Architectures

GroundWork Monitor Enterprise only supports installation on 64-bit platforms. Monitored nodes can be 32-bit or 64-bit but GroundWork itself must be deployed to 64-bit.

### Browser Compatibility

This version of GroundWork has been tested with the latest versions of Firefox and Google Chrome, as well as Internet Explorer 10 & 11.

## SECTION 4 – DETAILS OF FIXED ISSUES SINCE RELEASE 7.1.0

This section summarizes the individual issues fixed since release 7.1.0. There are a lot of these, but if you have seen one of them and opened a support case, you should have the associated issue key in that case, which you can use to cross reference here and know that it is fixed in 7.1.1.

If you are wondering about whether an issue you have seen is fixed in this release, open a case and we will be able to tell you specifically.

Key	Summary	Component/s
GWMON-10533	uninitialized variable \$indexes in cacti's lib/plugins.php	NMS - Cacti
GWMON-10553	Please update sendEmail.pl to the latest version so it supports tls	Upgrades
GWMON-10694	issue with plugin calling system OS Perl instead of GW Perl	Plugins
GWMON-10718	GroundWork certificate directory wiped clean by upgrade without notice, breaks SSL-based plugins	Upgrades

GWMON-10752	GDMA auto-registration creates externals in the wrong place if the Monarch Group does not exist	Configuration
GWMON-10767	Service Availability bar graph does not correctly show state changes	Status Viewer
GWMON-11269	Users created from AD with GWRoot role displays different privileges	Authentication/Authorization
GWMON-11496	find_cacti_graphs fails after upgrading PERL framework to 5.18.2	Configuration
GWMON-11498	Perl applications throw errors after upgrading the PERL framework to 5.18.2	Configuration
GWMON-11731	pg_migrate_archive_gwcollagedb.sql must be extended to cover schema and content changes for 7.1.0	Foundation
GWMON-11771	GW702 + Found Service Availability & Performance Measurement Bars missing or none at all, for some if not most hosts.	Status Viewer
GWMON-11818	Cacti feeder creates objects even if totally disabled	NMS - Cacti
GWMON-12164	check_netscaler_snmp.pl syntax error	Plugins
GWMON-12204	Archiving process can break Host Availability & Performance Measurement bar graphs	Foundation
GWMON-12334	Upgrade OPENSSL library to 1.0.2d	Installer
GWMON-12349	Views never finish loading, give error when new maps are loaded and old maps removed.	Nagvis
GWMON-12354	Nagvis service "line" object does not display performance graph	Nagvis
GWMON-12370	Search in status viewer only searches for strings starting with input characters	Status Viewer
GWMON-12409	Notification Rules created on NoMa UI are not populated in the NoMa database	Noma
GWMON-12424	Renaming BSM Host/Service/HostGroup is not reflected on Status Viewer and Event Console	Foundation Status Viewer
GWMON-12451	Dashboard database load script only effective from cron	Reports
GWMON-12471	Mis-spelled words on the SLA page	Reports
GWMON-12478	Notifications are not displayed under Configuration > NoMa > Logs	Noma
GWMON-12481	Parent-Child setup fails after upgrading GW 7.0.2_P03 to GW 7.1.0 to 7.1.1	Parent-Child Upgrades
GWMON-12486	Access to RSTools Denied to User in Multiple Memberships	JBoss Portal
GWMON-12491	Seurat view shows both hostnames of aliased hosts	Dashboards
GWMON-12502	Noma sends endless stream of ack notifications	Noma
GWMON-12506	BSM Available Members does not appear to accept BSM search and addition of BSM groups	BSM
GWMON-12508	Nagvis does not displayEdit Options for Admin User	Nagvis
GWMON-12523	My GroundWork Health Group Health Portlet does not display correctly	Dashboards
GWMON-12559	logrotate fails to rotate most logs in current distros due to security patch	Installer
GWMON-12584	Selecting Host in the Event Console links you to host in Status View, Does not work for some hosts or Events.	Status Viewer
GWMON-12585	Some complex time periods can exceed allowed field length in monarch.	Configuration
GWMON-12586	"local_process_gw_listener" red on localhost	Configuration
GWMON-12588	Black List feature fails after one polling cycle when a regex is used	Cloud
GWMON-12593	gw-config tool needs to be updated for 7.1.1	Build Process Configuration
GWMON-12600	Log Archive Fails in a 7.1.1 install	Archive
GWMON-12604	On upgrade the Cacti scripts and other subdirectories containing customer additions are not preserved.	Upgrades
GWMON-12613	Wrong validation message is displayed while creating "New Host Identity" with more than 63 characters	Administration

GWMON-12618	NoMa says fields required for methods when they are not	Noma
GWMON-12619	NoMa email method fails out of the box	Noma
GWMON-12621	when creating shared dashboard "Service group health portlet" and "host health portlet" show "???"	Dashboards
GWMON-12622	Build number mismatch on login and dashboard page	Dashboards
GWMON-12626	Log bridge feeder leaks memory	Tools
GWMON-12629	Error 500 is displayed when creating a downtime keeping "From" field empty	Configuration
GWMON-12639	"sv.links.enabled" field under "/usr/local/groundwork/config/console.properties" file does not work as expected	Console
GWMON-12640	"Search" filter works only one time for a tab in Event Console	Console
GWMON-12643	Unable to search a host with its IP address on Event Console	Console
GWMON-12648	Version 7.1.1 says version 7.1 on login page	JBoss Portal
GWMON-12652	Attempt to add Hostgroup Icon to a Views map gets an error	Nagvis
GWMON-12655	Can't assign Host to "Business Service Monitoring" under Business	BSM
GWMON-12658	Default search in BSM group creation shows only services	Configuration
GWMON-12659	Error appears during GW 7.1.0 to GW 7.1.1 upgrade	Upgrades
GWMON-12663	Creating downtimes breaks Service Availability bar graphs	Status Viewer
GWMON-12664	upgraded 7.1.0 system resources tab links to the incorrect version	UI Layout/Theme
GWMON-12670	Nagios host(same name as cloudhub host) gets removed from Status Viewer on creating a Black List record	Administration Status Viewer
GWMON-12673	Upgrade GDMA SSL TLS library to support TLSv1.2 in apache configuration	GDMA
GWMON-12674	Downtimes submitted in UI do not get processed	Tools
GWMON-12675	7.1 LDAP Custom Group Issue	LDAP
GWMON-12677	Seurat view portlet displays flashing icons for scheduled downtime when the state has been stable (VMware)	Dashboards
GWMON-12679	Unable to add services to a host with host name as FQDN	Configuration
GWMON-12683	extract_nedi.pl needs adaptation to current NeDi release	NMS - NeDi
GWMON-12684	Acknowledged devices still showing as down in unscheduled down hosts	Status Viewer
GWMON-12686	Failed to negotiate authorization (status view unavailable)	Status Viewer
GWMON-12687	pg_migrate_gwcollagedb.sql fails to enforce CACTI applicationtype changes	Foundation NMS - Cacti
GWMON-12689	Cacti feeder overrides existing application-type data	NMS - Cacti
GWMON-12690	Host is in downtime, but does not show up in the downtimes list	Tools
GWMON-12691	SOAP API appears broken	Reports
GWMON-12696	"core/migration/postgresql/pg_migrate_monarch.pl" script is not executed along with 7.0.2-P03 to 7.1.1 upgrade	Upgrades
GWMON-12697	Status feeder appears to be consuming tokens and not releasing them	Status Feeder
GWMON-12699	Unable to upload/import profiles if /usr/local/groundwork is a symlink	Documentation
GWMON-12704	Monarch log file has wrong permissions before Commit	Configuration
GWMON-12706	Upgrade 7.0.2 p2 <del>→7.1.0</del> →7.1.1 breaks graphs in views.	Nagvis
GWMON-12707	dashboard_avail_load.pl does not handle the last second of the day, nor multi-day operation	Reports
GWMON-12710	On upgrade from 702->7.1->7.1.1, recurring downtimes are lost if they had been set previously	Upgrades

GWMON-12712	attempted display of plain-text Nagios config files results in Authorization Error	Configuration
GWMON-12714	configuration.properties and gatein.properties are not properly backed up during an upgrade	Build Process Configuration Upgrades
GWMON-12715	7.1.0 to 7.1.1 upgrade does not replace login page	Build Process
GWMON-12717	cleaning up "7.1.1-SNAPSHOT" files blocks Foundation startup	Foundation
GWMON-12720	Monarch CGI code generates warnings under Perl 5.24.0	Configuration
GWMON-12721	GW 7.1.0 to GW 7.1.1 upgrade fails on SLES machine	Upgrades
GWMON-12728	RAPID disallowing valid hostnames on service deletes	NMS - Cacti
GWMON-12729	Upgrade fails on portal login	JBoss Portal
GWMON-12732	Security Issues Lenovo	System Performance
GWMON-12734	upgrading doesn't preserve custom files in /usr/local/groundwork/nagios/sbin	Build Process
GWMON-12736	Hostgroup add with custom group lacks scrolling	Administration
GWMON-12738	Title on login page refers to "7.1.0" version	JBoss Portal
GWMON-12744	Portal timeout instructions are wrong	
GWMON-12747	7.1.0 (remote database) -> 7.1.1 upgrade fails	Upgrades
GWMON-12748	Passwords on GroundWork Licence page not saved post GW 7.1.0 -> 7.1.1 upgrade	Upgrades
GWMON-12749	"apache" not running for GW 7.1.1-br402-gw2994	Installer
GWMON-12750	Certain VMware hostgroups are present to add under CG but not present on Status Viewer	Administration
GWMON-12753	unattended install doesn't populate config with hostname that it finds in attended install	Browser
GWMON-12754	Some GW modules display error while accessing them	Nagvis NMS - Cacti NMS - NeDi NMS - Weathermap
GWMON-12755	Cacti graphs not displayed for localhost on Status Viewer	Status Viewer
GWMON-12757	BSM groups not displayed on Status Viewer/Event Console for SLES 11 machine	Foundation
GWMON-12758	Configuration > Downtimes not working for SLES 11 machine	Configuration
GWMON-12759	SSL Import Certificate not working	
GWMON-12760	LDAP portal root user credentials are not recognized when installing	Build Process Foundation
GWMON-12761	Seurat view broken after upgrade	Foundation
GWMON-12762	check_snmp_cisco_ifstatus.pl no longer works. Here's the fix.	Plugins
GWMON-12763	Cacti feeder doesn't propogate api timeout issues back to feeder health service	RAPID Feeders
GWMON-12765	Various feeder supervise services are not backed up during upgrade	Build Process RAPID Feeders
GWMON-12766	711 Perl needs to include Search::Elasticsearch.pm	Build Process RAPID Feeders
GWMON-12768	Tightened /usr/local/groundwork/php/tmp permissions cause Cacti php errors	NMS - Cacti
GWMON-12769	logbridge feeder needs some minor refactoring to work with new version of Perl	RAPID Feeders
GWMON-12770	httpd.conf is not updated, server certs are changed, in upgrade to 7.1.1	Build Process
GWMON-12772	LogBridge logbridge-groups.xml vaporized and not backed up during upgrade	Build Process
GWMON-12773	race condition between de-dup and upgrade actions	Documentation Foundation Installer
GWMON-12774	installer inappropriately copies jpp data like logs to jpp2	Build Process
GWMON-12776	Custom MIBs blown away on upgrade	Build Process
GWMON-12777	Customizations to portal-groundwork-base.war portlet.xml blown away on upgrade	Build Process

GWMON-12778	Default settings for SSL should include TLS 1.2 and strong ciphers	Configuration
GWMON-12786	LogBridge gwevents_to_es feeder can get stuck trying to process a set of events when bulk send to elasticsearch fails	RAPID Feeders
GWMON-12788	Samples directory should be removed (Security issue)	Build Process
GWMON-12789	"install-dual-jboss.sh" not working for GW 7.1.1.	JBoss Portal
GWMON-12790	NoMa dropping notifications with socket error	Noma
GWMON-12794	Upgrade fails with a script error	RAPID Feeders
GWMON-12795	upgrade to 711 doesn't back up and restore php.ini	Build Process
GWMON-12796	cannot add downtime for host or host group for certain users	Foundation
GWMON-12798	Cert files exist in non-SSL install	Build Process
GWMON-12799	SSL Instructions give error on files existing	Installer
GWMON-12802	Some files need nagios:nagios ownership post GW 7.1.0 to GW 7.1.1. upgrade	Build Process
GWMON-12803	"ntop" is displayed as not running for "service groundwork status"	NMS - Ntop
GWMON-12805	ntop shared library error during upgrade	NMS - Ntop
GWMON-12807	latest changes to foundation.properties not present after upgrading to 711	Foundation
GWMON-12809	"no version information available" msgs while building instance on parent in parent-child configuration on ubuntu	Parent-Child
GWMON-12810	Cloudhub does not work after enabling ssl	Cloud
GWMON-12814	"HTTP 500" Status is displayed while accessing Performance and Availability graphs for "localhost" on Status Viewer	
GWMON-12819	SCOM feeder : foreach ... qw( a b c ) construct no longer works in 5.24 Perl	RAPID Feeders
GWMON-12820	migrate_RAPID_feeder_configs_711.sh does not migrate SCOM feeder master conf	RAPID Feeders
GWMON-12821	logbridge feeders master confs need updating for fresh installs to work with 711	RAPID Feeders
GWMON-12826	NeDi Access Notice: You're not authorized for this!	NMS - NeDi
GWMON-12832	Upgrade Grafana/OpenTSDB to operate in 7.1.1 as well as it does in 7.1.0	Grafbridge
GWMON-12833	Unable to create parent-child setup on sles-11 machine	Configuration
GWMON-6028	Auto-discovery failed because of Can't call method "as_xml" on an undefined value	Auto Discovery
GWMON-6093	Discrepancies in number of Moose Perl module and its dependencies on Fresh Install and Upgrade	Build Process
GWMON-8598	auto discovery gives error in log file when (172.28.113.*) is scanned	Auto Discovery Build Process
GWMON-9540	Auto Discovery does not discover windows 2003 hosts	Auto Discovery
GWMON-9734	nmap scans fail agsint windows due to unescaped ampersand in xml oputput	Auto Discovery
GWMON-9901	the /usr/local/groundwork/nagios/libexec/check_snmp_cisco_ifstatus.pl script makes incorrect assumptions about the interface number	Plugins
GDMA-402	Link to install GDMA with HTTPS is not updated after GDMA install with HTTPS	Build Process
GDMA-57	Linux GDMA has bad rpath, and the 64-bit version has bad lib paths.	Linux
GDMA-43	RHEL5 64-bit GDMA fails with LWP/UserAgent.pm not found error	Linux
CLOUDHUB-330	"Host Availability and Performance Measurement" shows error for "Network View" hosts of AWS	Cloudhub
CLOUDHUB-329	HostGroup Tag Name' text field enables after 'Test Connection' operation	Cloudhub
CLOUDHUB-327	Incorrect validation message for 'Service Name' field on GroundWork Administration > GroundWork Cloud Hub	Cloudhub
CLOUDHUB-326	Cloud-Hub VMware - VCenter Memory Leak when polling with Cloud Hub	Cloudhub

CLOUDHUB-325	Connection Retries field accepts negative values of no significance(-2 to -99)	Cloudhub
CLOUDHUB-322	"Host Availability and Performance graph" shows error for "Network hypervisor" hosts of VMware	Cloudhub
CLOUDHUB-317	Docker Engine Thresholds get removed from Status Viewer, 10-15 minutes after connection is created	Cloudhub
CLOUDHUB-313	Virtual Machine thresholds (Ceilometer) do not change their states when thresholds exceeded	Cloudhub
CLOUDHUB-312	Cloud Hub AWS Availability Zone View gives same exact metrics as Network View	Cloudhub
CLOUDHUB-311	Events for Docker Metric "diskio.io_service_bytes[0].stats.Write/Read" are displayed even when the metrics are deselected	Cloudhub
CLOUDHUB-310	CloudHub Docker connection fails to validate for GW 7.1.1	Cloudhub
CLOUDHUB-308	AWS connector creates a host with no services with name of region	Cloudhub
CLOUDHUB-307	Amazon connector times out	Cloudhub
CLOUDHUB-306	Custom metrics do not get deleted when custom view is de-selected	Cloudhub
CLOUDHUB-305	VMware CloudHub connection with GroundWork failed	Cloudhub
CLOUDHUB-304	VMware connector reports on an unselected metric	Cloudhub
CLOUDHUB-303	VMware connector has metrics in profile that do not show up in Status	Cloudhub
CLOUDHUB-302	VMware connector metric syn.host.cpu.used is mislabeled	Cloudhub
CLOUDHUB-300	Docker connector fails to detect containers running in Docker 1.11.2	Cloudhub
CLOUDHUB-299	Docker connector does not update list of running containers unless restarted	Cloudhub
CLOUDHUB-298	Upgrade VMWare Connector to use VSphere 6.0.0 SDK	Cloudhub
CLOUDHUB-297	EBS and RDS metrics are not imported in EC2 Connector	Cloudhub
CLOUDHUB-296	Re-work EC2 Connector for Cloud Hub	Cloudhub
CLOUDHUB-294	TEST CONNECTION' functionality breaks on adding certain special characters in 'Server Name/URL'	Cloudhub
CLOUDHUB-293	Unable to modify data/settings for attributes under 'Controller thresholds' for NetApp connector	Cloudhub
CLOUDHUB-291	Amazon connector adds prefix to hostnames which is inconsistent with what is configured and what is reported	Cloudhub
CLOUDHUB-290	Cloudhub needs to synchronize inventory regularly to detect system updates	Cloudhub
CLOUDHUB-289	VMWare connector metrics for syn.vm.mem.guestToConfigMemSize.used and unused always show 0 or 100 %	Cloudhub
CLOUDHUB-288	VMWARE and Netapp Hosts and services become unreachable after a few hours	Cloudhub
CLOUDHUB-286	vmWare 6 connection reports all host and services as unscheduled critical even if the values don't pass threshold	Cloudhub
CLOUDHUB-285	Merge Icinga2 CloudHub Connector Branch into 7.1.0 Trunk	Cloudhub
CLOUDHUB-282	VMware cloudhub throws error on test, "Server connection failed! Ensure that Groundwork server is up and running."	Cloudhub
CLOUDHUB-275	NetApp connector Monitoring Profile page displays incorrect headings	Cloudhub
CLOUDHUB-274	Netapp connector only displays one volume	Cloudhub
CLOUDHUB-216	Adding fourth vCenter connection in cloudhub gives http status 500 error	Cloudhub
CLOUDHUB-139	syn.storage.percent.used does not appear in the cloudhub configuration UI	Cloudhub
CLOUDHUB-138	summary.quickStats.overallCpuUsage for guest instances uses the threshold values for host instances	Cloudhub

## SECTION 5 – ADDITIONAL INFORMATION

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