

7.2.0 Release Notes for EE

Overview

This document contains important information about the GroundWork Monitor Enterprise 7.2.0 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.

This document only discusses changes since 7.1.1. This release of GroundWork Monitor fixes many existing issues, and adds several new features. It is a major upgrade in that we have not only upgraded and updated, but added significant functionality.

In general new features and improvements in GroundWork Monitor 7.2.0 include:

- The option to use Grafana for graphing performance data and InfluxDB to store it (GrafBridge).
- A new Cloud Hub connector for monitoring Cloudera installations
- Many included packages, such as RRDtool, syslog-ng, fping, and lots of supporting libraries, have been upgraded in this release.

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SECTION I: Features and Improvements

Cacti

- We have not updated the Cacti version supplied in this release for various reasons. Instead, we have added **support for independent Cacti servers** to connect to GroundWork servers loosely by feeding data. This allows Cacti users to have the benefits of unified monitoring using the latest releases of Cacti. If you need to use external Cacti servers, contact GroundWork support for instructions on how to do this.

Configuration (Monarch)

- **Access to Nagios CGIs**
 - Nagios CGIs can now be controlled at the level of contactgroups, not just at the level of individual contacts/users. This can be seen on the second CGI-configuration screen, under Configuration > Control > Nagios cgi configuration > Save and Next >>.
 - Access to the Nagios CGIs can now be set to read-only for certain users (or users in particular contactgroups).
- **NoMa commands**
 - Standard `host-notify-by-noma` and `service-notify-by-noma` commands are now added to the monarch database for

use with NoMa notifications. The definitions of these commands are slightly different from what was documented in previous releases, to fix operational problems with the old formulations.

- **Monarch externals**

- Monarch externals generation has been extended to support creating **per-service-instance** copies, along with **instance-level** and **service-level macro substitutions**, as part of supporting the forthcoming GDMA Auto-Setup feature. However, this capability can also be used with purely manual setup. In particular, these macro references will now be expanded.
 - `$_SERVICEDESC$` expands to the full name of the service, as you would expect, including the appropriate instance name suffix in an instance-level external.
 - `$_BASESERVICEDESC$` expands to the name of the service. For a service without instances, this will be the same value as `$_SERVICEDESC$`. For a service with instances, this will be the name of the base service, without any instance name suffix appended.
 - `$_INSTANCE$` expands to a simple integer which counts the number of copies of a given external as possibly multiple copies are created for service instances. This macro will generally be used within the square brackets of service-externals lines. For a base service without any service instances defined, this number will be a constant 1.
 - `$_INSTANCESUFFIX$` expands to the instance name suffix as defined in Monarch, but with a leading underscore (if any) elided. This makes it easier to customize the service externals definitions with a string reflecting just the critical part of the service instance name suffix, while keeping an underscore in the instance name suffix for overall readability of the full service name.
 - `$_ARG#$_` macros (`$_ARG1$`, `$_ARG2$`, etc.) expand to values defined in the Monarch UI at either the generic-service, host-service, or service-instance level, depending on the complexity of your setup and what inheritance options you have chosen.

Cloud Hub

- There is a **new connector** included in Cloud Hub for Cloudera. This is a new type of connector, and features updated UI screens for configuration, synthetic metrics, support for tsquery, math functions, units conversion, and much more.
- We have also **improved reporting of connection failures**. If a connector is stopped or fails to connect for some reason, hosts will become "Unreachable" and services "Unknown", with status text that informs the user as to why (e.g., retries exhausted). Prior iterations did not update service status in this situation, leading to errors, especially with infinite retries configured. The default retries is now set to 10, for this reason.
- The VMware connector now supports snapshot monitoring as a service.
- All connectors now support service sync by default, which will remove services tied to API metrics that are selected, but not present (e.g., snapshot metrics). You can turn this off/on in the `cloudhub.properties` file, either globally or by connector.

Foundation

- We have made some changes to the data types of certain database columns in the GroundWork Foundation database in order to **support diverse time-stamp values**. This change may impact users who directly utilize database queries rather than the REST API to extract data, or those who use the archive database (also changed) to generate reports. For details, please contact GroundWork Support.
- We added support for turning off (or on) the prefixes added to hosts and services in the status viewer by application type. This allows you to de-clutter the status view if you prefer not to see the prefixes. These are set in the `status-viewer.properties` file.

Fping

- Fping has been **updated** to the latest upstream release (4.0). This provides efficiency improvements and makes it easier to support IPv6 hosts. In general, an IPv6 address of a target host will be preferred during fping probing, if the GroundWork server is IPv6-enabled.
- The `fping_process.conf` **config file has been modified** to clarify the usage of the `delay_between_sends` parameter. It applies to all paths for sending data, not just sending via NSCA.
- There is a new `fping_exclude_groups` option in the `fping_process.conf` file, to **allow excluding hosts** directly or indirectly associated with some set of Monarch Groups from the set of those that will be pinged. This might be used on a parent server, for instance, to ignore all hosts that will be pinged instead from child servers.

GroundWork Distributed Monitoring Agent (GDMA)

- Building externals for GDMA can now be simplified by the use of **substitutable service-level externals** arguments. See the discussion above for Monarch changes.

Notifications (NoMa)

- **Standard commands**
 - The `monarch` database now has standard `host-notify-by-noma` and `service-notify-by-noma` commands defined (see above). These standard commands are present in a fresh install, and are added during an upgrade if not already present.
- **NoMa fixes**
 - A large number of fixes have been applied to NoMa to greatly improve the reliability of handling notifications.
 - It is recommended that all notification rules be configured to check the "Rollover if the last rule is reached" option. This will cover extreme cases of repeated alerts by resetting the notification count and ensuring that some additional notifications eventually make it out.
 - Note that Cloud Hub currently only generates alerts on state transitions, not on an ongoing basis when a host is not UP or a service is not OK. This means that notification counting for such hosts and services will not operate as it would for a Nagios-monitored host or service. You will want to construct your notification rules accordingly:
 - Filter on hostgroups and servicegroups that are known to be associated with Cloud Hub.

- Ensure that a notification for such hosts and services is sent out on the first alert that NoMa sees (make sure the "Notify after # number of notifications (all types)" option contains a 1).
- Higher-count specifications, the rollover option, and escalations will have no effect, since there will be no follow-on alerts until a final recovery alert is received as the host returns to a UP state or a service returns to an OK state.

Performance Data Handling

- **GroundWork GrafBridge (Grafana and InfluxDB)**
 - GrafBridge has been added as a new feature. GrafBridge is an integration of several open source components, allowing users to take advantage of the advanced features of Grafana, along with other capable packages we have added to enhance the collection and storage of performance metrics, the graphing of these metrics, and their presentation in dashboards.
 - GrafBridge gets you better graphs and dashboards. The RRD-based graphs we have supplied up till now have been useful and easy to manage, but they have disadvantages as well, including the inherent data summarization that all RRDs commonly enforce. With GrafBridge, performance data is stored in InfluxDB, which saves every point it receives, until it is aged off after 13 months (or optionally longer). No summarization of data occurs.
 - RRD is also significantly slower to render graphs in GroundWork Monitor, due to the server-side generation of a bitmap image for each updated graph. Grafana uses client-side rendering, and is far less impactful on the GroundWork server for the same kind of operation. This improves the server's speed and scalability, especially when generating and displaying a lot of graphs.
 - The transition from RRD is seamless, and the RRD data can be optionally imported into InfluxDB.
 - InfluxDB time-series data store allows GroundWork customers to use other open source agent and analysis packages, including components of the TICK stack to set up data transfers and graphing for in-depth analysis and monitoring. These additional packages take advantage of the APIs for performance data that are inherent in the InfluxDB project, an open source time series database.
 - GrafBridge includes the GroundWork data source, making it easy to select the individual hostgroups, servicegroups, hosts, and services that you want to graph on your dashboards.
 - After a GroundWork Monitor 7.2.0 installation, InfluxDB and Grafana monitoring profiles are added to `localhost`, and will be active after the first configuration Commit operation. After upgrading to GroundWork Monitor 7.2.0, these profiles need to be added manually. This can be done using the `grafbridge-control` using the `-add_service_profiles` option.

Security Improvements

- **Authentication**
 - We have closed a security hole related to exposed API tokens in the DOM on certain screens. These could potentially have been used to execute a privileged elevation exploit whereby a logged-in user might have been able to see or change data they were not granted access to.
 - We added a read-only API token to the REST API for dashboard and other read-centric uses.

Component Upgrades

With the release of GroundWork Monitor 7.2.0, 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 in this release:

- Upgraded to **PostgreSQL 9.6.5**
- Upgraded **PHP to 5.6.31**
- Upgraded to **Nagios 4.3.4**
 - Addresses a number of security issues with older Nagios releases
 - The Bronx event broker has been revised to interoperate with the upgraded Nagios version
 - Bronx has been made more reliable in its treatment of data across a Nagios stop/start cycle, in two ways:
 1. Check results that have been received and queued by Bronx but not yet processed are now saved if Nagios is shut down before it gets to them, and picked up when Nagios restarts. This prevents possible data loss around the time of an ordinary Commit operation.
 2. In previous releases, there has inadvertently been a very small (up to 1 second) window right after Bronx starts up when it could receive but would then discard incoming data. This window has now been discovered and closed.
 - `nagios2collage_eventlog.pl` now supports sending certain events with alternate app types.
- Upgraded **NeDi to 1.7.090**
 - NeDi upgrade plus both upstream and GroundWork patches
- **GroundWork Distributed Monitoring Agents (GDMA)**
 - This GroundWork Monitor Enterprise 7.2.0 release upgrades the included Solaris and AIX GDMA builds to the 2.5.0 or 2.5.1 release, respectively, which folds in the builds that were provided separately after the GroundWork Monitor Enterprise 7.1.1 release was made available.
- **Setting Up a Newer JDK**
 - For those who need a newer JDK for security reasons you can install the Zulu OpenJDK from Azul Systems. Internet access is required because packages are pulled from the Azul Systems repository:

```
cd /usr/local/groundwork/tools/system/setup/scripts/
./install-zulu.py
```

- Upgraded **RRDTool to 1.7.0**
- Upgraded **NET-SNMP to 5.7.3**
- Upgraded **syslog-ng to 3.12.1**
- Many more upgrades to underlying packages

SECTION II: Known Issues and Limitations

Installation Issues

- **Installer needs Root Account Login:** The root user login is required on installation to set up aspects of the Grafana package. If you instead enter the admin user and password and not root, the installer will complete without error, but will not complete the product setup. Please enter the root credentials when prompted (default is root, password root).
- NeDi has a dependency on the `netstat` command which is not satisfied by GroundWork libraries. If you encounter an error in NeDi that lists `netstat` as not found, this can be solved by installing the `net-tools` package (e.g., `apt-get install net-tools` in Ubuntu).
- The installer has an option to set the timezone `--php_timezone` that should not be used. If used, it can perturb the function of several services, notably BSM.

Upgrade Issues

- **You may need a new license:** The license version restrictions for certain licenses do not allow 7.2.0 to work. Please ask support if you want to check if you need a new key.
- **RAPID-based Feeder files:** If you use the RAPID feeders for Cacti, LogBridge, or other systems, read this section:
 - The installer when upgrading to 7.2.0 does not restore various RAPID-based Feeder files in the `/usr/local/groundwork/config` directory. You will need to manually do the following steps if you are using the Cacti or LogBridge feeders:
 - Copy the master configuration files from the installer backup config directory (e.g., `/usr/local/groundwork/backup-2017-11-01/config`):
 - Master configuration files: `cacti_feeder.conf`, `logbridge_feeder.conf`, and `gwevents_to_es.conf`
 - Copy the feeder GroundWork endpoint config files:
 - Defined in the endpoint directives in the master config files: (e.g., `cacti_feeder_localhost.conf`)
 - Copy the web services properties files that are defined in the endpoint config files with the `ws_client_config_file` (e.g., `/usr/local/groundwork/config/ws_client.properties`):
 - Make sure all of the files you just copied have `nagios:nagios` ownership
- **RAPID-based Feeder log file symlinks:** The installer when upgrading to 7.2.0 does not restore various RAPID-based Feeder log file symlinks in the `/usr/local/groundwork/logs` directory. The logfile names are defined with the `logfile` directive in the master config files.
- **Custom portal root user:** The installer when upgrading to 7.2.0 does not restore any custom portal root user name definition that was in the `gatein.properties` file. To fix:
 - Restore `config/gatein.properties` from the backup.
 - Run the the following (Note: The name of the jarfile will be different in the final release and should not have `-SNAPSHOT` in it):

```
/usr/local/groundwork/java/bin/java -cp \  
  
/usr/local/groundwork/jpp/modules/com/groundwork/security/main/groundwork-jboss-security-7.2.0-SNAPSHOT.jar \  
com.groundwork.core.security.GateinConfigurationUtils -superuser svc_gwroot
```

- **Custom portal changes for LogBridge:** If you use LogBridge, read this section and the next:
 - The installer when upgrading to 7.2.0 does not restore custom GroundWork portal changes made for the LogBridge feeders. Without these changes, you'll get an error when trying to access Kibana from the Log Analytics menus. To restore previous changes that will fix this:

```
cd /tmp  
cp {the groundwork backup  
directory}/foundation/container/jpp/standalone/deployments/portal-groundwork-base.war .  
jar xf portal-groundwork-base.war WEB-INF/portlet.xml  
rm -f portal-groundwork-base.war  
cp  
/usr/local/groundwork/foundation/container/jpp/standalone/deployments/portal-groundwork-base.war  
/tmp  
jar uf portal-groundwork-base.war WEB-INF/portlet.xml  
cp portal-groundwork-base.war  
/usr/local/groundwork/jpp/standalone/deployments/portal-groundwork-base.war  
service groundwork restart
```

- **LogBridge:** After upgrading to 7.2.0, if using the LogBridge module, then install the latest and greatest `logbridge_feeder.pl` and `gwevents_to_es.pl` scripts. Note that 7.2.0 includes the `Search::Elasticsearch` Perl modules so no rebuilding/reinstallation of them is required.
- **LOGSTASH:** After upgrading from earlier versions of the LogBridge feeders, you might see the LOGSTASH application type next to hosts and services that these feeders created. This application type has been updated to LOGBRIDGE. You'll need to do some SQL to update the applicationtype on tables like `servicestatus`, `host`, and `hostgroup`.

- To find the new applicationtypeid value for LOGBRIDGE and the old id for LOGSTASH:

```
select * from applicationtypeid;
```

- Show the agent id and show potential records to be updated. Copy the agentid for the new LOGBRIDGE group:

```
select * from host where applicationtypeid = [old applicationid] or applicationtypeid = [new applicationid];
update host set agentid = '[new agentid]' where applicationtypeid = [old applicationtypeid];
update host set applicationtypeid = [new applicationtypeid] where applicationtypeid = [old applicationtypeid];
select * from servicestatus where applicationtypeid = [old applicationtypeid] or applicationtypeid = [new applicationtypeid];
update servicestatus set agentid = [new agentid] where applicationtypeid = [old applicationtypeid];
update servicestatus set applicationtypeid = [new applicationtypeid] where applicationtypeid = [old applicationtypeid];
```

- Once unassigned, you should be able to delete the LOGSTASH application type from the applicationtypeid table with:

```
delete from applicationtypeid where applicationtypeid = [old applicationtypeid];
```

- **Centos 7 known issues:** If you install GroundWork on Centos 7 in a virtual machine, read this section:
 - Centos has published known issues that may impact performance and booting on virtual environments, see [Centos 7 Release Notes](#).

Limitations and Work-arounds

- **SNMP trap processing**
 - Read the following if you use SNMP trap processing:
 - **Best Practice:** The SNMPTrap process is a brittle and difficult to configure subsystem. If too many traps come in, the disk creates enough traps that even stating the spool directory where they are temporarily stored by snmptrapd causes a huge delay enough that most processes would either time out or hang. If you get behind, where the rate of incoming traps is greater than the rate you are processing them, problems will show up around disk space reporting, inode availability, disk io, application and network timeouts. You will eventually run out of inodes. Since we turn on this the snmptrap processes at startup but don't have any definitions defined, this is an easy attack vector to take out GroundWork from the network without needing to authenticate. Until a remedy, it is recommended that all systems where snmptraps are not being used (e.g., child servers) have the processes disabled:

```
service groundwork stop snmptrapd
chmod -x /usr/local/groundwork/common/scripts/ctl-snmptrapd.sh

service groundwork stop snmpptt
chmod -x /usr/local/groundwork/common/scripts/ctl-snmpptt.sh
```

Note, typical fresh install of Linux has iptables local firewall blocking UDP. A further best practice is to ensure continued control of iptables and other firewalls, limiting incoming access to only what is needed. See [How to determine ports used by GroundWork](#). Typically Linux as installed will block all but SSH. Here is the iptables file content for a fresh installation:

```
# Generated by iptables-save v1.4.7 on Sun Nov  5 21:37:28 2017
*filter
:INPUT ACCEPT [0:0]
:FORWARD ACCEPT [0:0]
:OUTPUT ACCEPT [3626:1478814]
-A INPUT -m state --state RELATED,ESTABLISHED -j ACCEPT
-A INPUT -p icmp -j ACCEPT
-A INPUT -i lo -j ACCEPT
-A INPUT -p tcp -m state --state NEW -m tcp --dport 22 -j ACCEPT
-A INPUT -j REJECT --reject-with icmp-host-prohibited
-A FORWARD -j REJECT --reject-with icmp-host-prohibited
COMMIT
# Completed on Sun Nov  5 21:37:28 2017
```

Here is the typical iptables command to permit snmptrap UDP port 162 (you won't want to do this unless you are looking to use SNMP TRAPS)

```
iptables -A INPUT -m state --state NEW -m udp -p udp --dport 162 -j ACCEPT
```

- **GroundWork GrafBridge**

- There are some known limitations to the initial release of GrafBridge:
 - Data source selection to service level:
While it is possible to have several metrics per service in GroundWork, when using Grafana with the GroundWork data source for InfluxDB (the default), one can select a service as the finest level of detail in choosing what to graph. You can turn thresholds on or off, and you can suppress unwanted metrics with a display option called series-specific overrides, so this should not affect your ability to graph what you want, but we may decide to enhance the selection to metric level in future releases or technical bulletins.
 - No support for Counter data types:
The GroundWork Grafana data source only supports "Gauge" type metrics, and renders counters as increasing in status viewer.

- **Host Identity**

- There are some known issues when using host identities.
 - If you add a host alias record for a non-existent host (e.g., if you mistype the hostname or don't accept a suggested name), the system allows this but does not deal with the database identity cleanly. While there is no resultant data corruption, the results for the aliased hosts will be identified as coming from a different host. It is not recommended to use host identity records in this way.
 - If you create an alias, the alias host will be in all the hostgroups of the aliased host(s). This is by design. If, however, you delete the alias, all the aliased hosts will re-appear properly, but the **alias host will retain the hostgroups of the aliased hosts**. This can be fixed by deleting the hostgroups or connectors associated, or with a manual correction. Contact GroundWork Support for instructions if needed.

- **Cloud Hub (UPDATED)**

- The AWS connector for Cloud Hub sometimes adds services (typically starting with "info.") to AWS hosts which are not updated and eventually fall to the "unknown" state. This can be fixed by enabling the parameter:

```
synchronizer.services.amazon.enabled=true
```

in the file:

```
/usr/local/groundwork/config/cloudhub.properties
```

and redeploying cloudhub with:

```
touch /usr/local/groundwork/jpp/standalone/deployments/cloudhub.war.dodeploy
```

After a few moments, these services will vanish from the Status viewer, as will any services specified in the Cloud Hub profile that no longer exist (e.g., metrics on deleted volumes).

- **Miscellaneous changes from previous releases**

- Uninstalling GroundWork Monitor is now more aggressive about removing files that may have been installed outside a standard installation or upgrade of GroundWork Monitor. It is important to backup any customizations before performing a new installation or an upgrade, or uninstalling using the groundwork uninstall program.
- The Cloud Hub connector pages display a "GroundWork Server Version" field with a grayed out drop-down. This is a carry over from previous versions and can be ignored.
- Aliasing feature is improved. However if you happen to delete an Alias that included a Nagios monitored host, that host will disappear from Status Viewer tree until the next Monarch Commit is performed. Monitoring will continue but alerts based on Hostgroup for that host may fail within the NoMa tool. This issue is slated to be addressed in a patch.

SECTION III: Announcements as of Version 7.2.0

Supported versions of GroundWork

- GroundWork Monitor versions 7.0.2 (including 7.0.2-SP03) are now **end-of-life**. Customers using older versions are advised to contact GroundWork Support regarding upgrade options.
- GroundWork Monitor version 7.1.0 will be end-of-life with the next release.

Linux supported versions

The versions of Linux now supported by GroundWork have changed. See the [System Requirements](#) for details. If you try to install GroundWork 7.2.0 on an unsupported version it will warn you, but it will allow you to proceed. This warning does not appear when using unattended mode in the installer.

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. Chrome is recommended.
- Recent versions of Firefox and Chrome browsers require that all certificates contain a Subject Alternative Name in order to be valid. Most commercial certificates populate this field when generated. Self signed certificates created using instructions from previous versions do not populate this field. The new procedure for https creates certificates with this field automatically if commercial certificates are not provided.

SECTION IV: Details of Fixed Issues Since Release 7.1.1

This release incorporates a good bit more than the usual assortment of bug fixes. For a full listing, please contact GroundWork support. A partial listing of the most relevant (from a user perspective) issues fixed are listed here. If you want to know if a particular issue you have reported is fixed in GroundWork Monitor 7.2.0, please see your support case where you reported it, or contact support with your question.

Key	Summary	Component(s)
GWMON-13244	Error occurs upon enabling dual JBoss	JBoss Portal
GWMON-13239	dassmonarch.pm has 3 instances of "contactgroup_servicename" that should be "contactgroup_service_name"	
GWMON-13236	Error occurs on BIRT Report Viewer	Reports
GWMON-13233	Error is generated upon updating password for "Master Account Info"	License Key
GWMON-13225	NoMa notification logs are not getting generated when status of host or services is changed	NoMa
GWMON-13215	BSM on service group fails to display, results in 500 error on Business Service menu	Tools
GWMON-13214	https setup needs to handle Cloud Hub configs	
GWMON-13208	Error message appears upon updating the password for master account info	License Key
GWMON-13205	Setting downtime on large hostgroup fails with error on form	Tools
GWMON-13198	Internal Error reported from NoMa	NoMa
GWMON-13196	perfdata from Nagios never makes it to gwcollagedb tables	Foundation
GWMON-13194	ERROR: column am.amcanorder does not exist - in framework log on startup	Foundation
GWMON-13190	No confirmation message is displayed upon updating password for "Webservices API Account Info"	License Key
GWMON-13182	Max connections of 100 is too small	Foundation
GWMON-13178	Lots of errors in the postmaster.log file in 7.1.1 (field report)	
GWMON-13169	Can't write out changes to contacts or contact groups from Monarch	
GWMON-13167	fping_process.conf is not checked for changes during an upgrade	BitRock, Configuration
GWMON-13165	"/etc/init.d/groundwork stop gwservices" fails to stop all supervise services on Ubuntu 16.04	
GWMON-13159	updatedb has hardcoded path to /bin/sort	
GWMON-13158	Docker container CPU is cumulative measure, not snapshot	Cloud
GWMON-13143	Non java URLs do not restrict access by role	
GWMON-13139	Need to escape commas in the Distinguished Name field in LDAP and AD	Administration

GWMMON-13138	Very large hostsgroup may cause errors on REST API update	Status Viewer
GWMMON-13133	Errors in Framework log and RStools BSM services not updating	Foundation
GWMMON-13124	'HTTP status-404' is observed after login as admin	Dashboards
GWMMON-13123	Login screen has incorrect artifacts	Home
GWMMON-13120	Services owned by the Host apptype owner are egregiously deleted	Foundation
GWMMON-13117	nagios2collage_status.pl fails to start - message is about the date format	
GWMMON-13116	Cloud Hub not removing hosts, hostgroups, and services added when Cloud Hub is disabled	
GWMMON-13110	NoMa notification logs are not getting generated when status of host or services is changed	NoMa
GWMMON-13101	Grafana dashboard does not respect portal timeout	GrafBridge
GWMMON-13094	ERRORs in Framework log when LDAP is enabled	Authentication/Authorization
GWMMON-13093	Instructions for changing the gdma user and/or password user for auto registration does not work for dual JBoss systems	GDMA
GWMMON-13091	"No value provided for data point" errors in framework log when creating Cloud Hub perf connector services	Foundation
GWMMON-13083	Host List and Service List portlets do not allow sorting entries by all headers	Dashboards
GWMMON-13070	Unable to delete BSM group	Foundation
GWMMON-13063	NoMa UI fails if the Contact associated with a Holiday is deleted	NoMa
GWMMON-13059	monarch user field is too short	Configuration
GWMMON-13058	check_postgres.pl does not support the "bloat" check function	Plugins
GWMMON-13033	delay_between_sends is misdocumented in fping_process.conf	Configuration
GWMMON-13022	Unable to access 'Views' module	NagVis
GWMMON-13014	Unable to access Child GWME (with parent authentication on child) after enabling SSL	Installer
GWMMON-13011	TLS 1.2 breaks SSO in parent/child configuration	
GWMMON-13000	Josso Tomcat listens on all interfaces, should only bind on loopback	JBoss Portal
GWMMON-12996	Upgrade from 7.1.0 to 7.1.1 or 7.1.1 to 7.2.0 with VMware connectors in Cloud Hub defined removes the connectors and orphans the hosts	Cloud Hub
GWMMON-12971	NoMa tmp_commands.hostgroups field can be overfilled	NoMa
GWMMON-12962	check_bluecoat_snmp.pl does not sense uninstalled CPUs correctly	Plugins
GWMMON-12958	Guest Reports access to Grafana	Performance
GWMMON-12955	Reports are not being generated from Reports > Notifications and Reports > Alerts	Reports
GWMMON-12948	BSM gives HTTP 505 error when saving a group	Reports
GWMMON-12931	perf daemon may throw away data when Foundation is down	Nagios
GWMMON-12914	Start GroundWork takes too long	Performance
GWMMON-12899	GW::RAPID default timeout is too small	RAPID Feeders
GWMMON-12896	Message that a service "violates not-null constraint" in framework.log	Foundation
GWMMON-12879	Cacti feeder does not respect threshold qualification options	NMS - Cacti
GWMMON-12871	RRDtool graph command in Status Viewer is not the same as in test under performance	Status Viewer
GWMMON-12865	host-availability graphs still broken in 7.1.1	Status Viewer
GWMMON-12861	Log Bridge searches fail with Elastic 5.x	
GWMMON-12857	NoMa daemon produces warning messages	NoMa
GWMMON-12851	auto-registration server timeout is too short	Foundation, Web Services

GWMON-12841	User is associated to a group in LDAP/AD, but there is no mention of that group in ldap-mapping-directives.properties	Authentication/Authorization
GWMON-12775	set "use_rest_api = true" in status-feeder.properties causes status view fail to update	Foundation, RAPID Feeders
GWMON-12735	Views error when adding hostgroup	NagVis
GWMON-12731	Upgrade replaces hostname in configuration.properties and josso-agent-config.xml	BitRock
GWMON-12724	No validation message is displayed for "Duration" and "Comments" fields for "Add Downtime" "byHost/HostGroup/ServiceGroup"	Configuration
GWMON-12719	NeDi File write doubles backslashes	NMS - NeDi
GWMON-12718	REST API "Performance data not found" with status "404"	Performance
GWMON-12703	Service Availability and Performance Measurement graph incorrect	Status Viewer
GWMON-12631	When Cloud Hub adds devices to GroundWork it sometimes inserts values that are not the hostname	
GWMON-12616	Sorting shows abrupt behavior under GroundWork Administration > Device Management modules	Administration
GWMON-12614	Wrong validation message is displayed while creating "Host Black List Record"	Administration
GWMON-12597	"Portlets Setting Options" are missing for Service Group in Status Viewer	Status Viewer
GWMON-12571	Incorrect path for GroundWork log rotation	
GWMON-12242	medium security risk : port 8888 is open, Example JSPs and Servlets are installed	
GWMON-12156	Plugin cannot be uploaded to Foundation manage plugin section	Foundation
GWMON-12151	CVE-2011-3190 vulnerability	
GWMON-12127	Enable "ignore_soft_states" in status-feeder.properties causes host in Status Viewer to show wrong state	Status Viewer
GWMON-11983	NoMa logfiles contain errors	NoMa
GWMON-11980	NagVis memory requirements per user are excessively high	NagVis
GWMON-11971	Plugin management page always creates plugin URL with http, even when portal is configured for https	UI Layout/Theme
GWMON-11927	Status Viewer pages not showing as expected. Click on one thing and another is displayed.	Status Viewer
GWMON-11915	service_profile_fping_feeder.xml needs cleanup	Configuration
GWMON-11758	nms-rstools application is hardcoded to allow only accessible to roles GWAdmin and GWOperator	NMS
GWMON-11690	When SSL in use on GW, both port 443 and 80 must be open for access by browser to the portal and apps like BSM and NoMa and NagVis	Browser, JBoss Portal
GWMON-11668	ServiceGroup states are calculated wrong in BSM Group	
GWMON-11142	Importing a corrupt map configuration (.cfg) file renders NagVis inaccessible	NagVis
GWMON-10996	No option is being displayed in 'Performance indicator' drop down under 'Reports' tab.	Advance Reports
GWMON-10709	auto-registration should be disabled by default on the server	Configuration
GWMON-10653	Monarch seed data for host and service notify by NoMa commands are missing	NoMa
GWMON-10590	Errors in cache handling by the check_snmp_process_monitor.pl plugin	Nagios
GWMON-10325	postgres man pages are missing	
GWMON-10279	When using more than one ldap url for providerURL behavior is not consistent	
GWMON-10257	GroundWork services started by the installer include env variables that interfere with applications	Installer
GWMON-10122	Updated GDMA plugins are not listed as having been updated	Foundation

GWMON-10001	Duplicate device entries are created for the same device	Foundation, License Key
GWMON-9989	NeDi data can cause extract_nedi.pl to go to spin mode and after a time you will find many hanging cron started nedi scripts	NMS - NeDi
GWMON-9970	Apache config security flaw	
GWMON-9838	/usr/local/groundwork/common/bin/mail missing	BitRock
GWMON-9811	pango.modules empty after installation	BitRock
GWMON-9749	BitRock installer should compare output from lsb_release -a and compare to list of supported Linux distributions	BitRock
GWMON-9746	Configuration URL is not sourced from josso-agent-config setting	JBoss Portal
GWMON-9696	Admin Preferences are not inherited in the dashboard portlets for LDAP admin user	Dashboards
GWMON-9626	Adding LDAP users requires adding a group called "Authenticated" to LDAP/AD	Authentication/Authorization
GWMON-9558	Default role settings for nagios-app has "Operator" role instead of "Operators"	Administration, JBoss Portal
GWMON-9507	MSP: Verify access control for only HostGroup/ServiceGroup List - admin role, Operator role and user role	Administration
GWMON-9503	Homepage content is not displayed properly in the FF browser	Home
GWMON-9494	Action portlet is not displayed in hostgroup, servicegroup, host and service summary pages	Status Viewer
GWMON-9484	nagios stops scheduling checks due to DST	Nagios
GWMON-9436	svg map does not get created in topology > map	NMS - NeDi
GWMON-9430	Creating a new user and assigning to role gives user admin access to Cacti	NMS - Cacti
GWMON-8714	SLES ps command truncates output, this causes launch_perfdata_processing to fail	Performance
GWMON-8540	Update the documentation to explain to customers that customizations to configurations files will not be preserved	Documentation
GWMON-8522	Must shutdown rsyslogd process on Ubuntu server. Conflicts with syslog-ng	Appliance, BitRock
GWMON-8503	Host Group Availability report > service availability percentage table shows percentage incorrectly for services	Reports
GWMON-8473	Performance graphs for icmp_ping_alive service show 500 when rta is 0 due to timeout	Performance
GWMON-8076	Incorrect warning message displayed in framework.log on deleting services from a host	Configuration, Foundation

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