

# 7.2.1 Release Notes for EE

## Overview

This document contains important information about the GroundWork Monitor Enterprise 7.2.1 release.

This is where we discuss changes made since 7.2.0. The 7.2.1 release of GroundWork Monitor fixes many existing issues, adds a few new features, and enhances several areas. It is a minor upgrade from 7.2.0, and is recommended for 7.1.1 and 7.2.0 users.

The new features and improvements in GroundWork Monitor 7.2.1 include:

- A new Cloud Hub connector for monitoring Microsoft Azure
- A new Cloud Hub connector for NeDi
- Updates to NeDi, and the addition of NoDi
- Updated versions of Grafana and InfluxDB
- Updates to supporting libraries
- Updates to GDMA, including GDMA Auto-Setup
- New SLA dashboards

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## SECTION I: Features and Improvements

### Cloud Hub

- There is a **new connector** included in Cloud Hub for Microsoft Azure. This connector features updated UI screens for configuration, synthetic metrics, math functions, units conversion, and more.
- There is a **new connector** for NeDi, allowing you to use the native policy monitoring and device stats monitoring NeDi can do in GroundWork.
- We have also **further improved reporting of connection failures**. If a connector fails to connect for some reason, a connector-specific service will be updated to a warning state, or critical if you run out of retries (hosts will still become "Unreachable" and services "Unknown" if retries are exhausted).
- Several other connectors have been updated to use the new UI for connection and configuration, and to expose synthetic metrics as much as possible.

### NeDi

- For GWME 7.2.1, NeDi has been upgraded to the 1.8.100 release, plus a few GroundWork patches.
- For the first time in a GWME upgrade, the content of the `nedi` database will be preserved across the upgrade, if that database was first created in GWME 7.2.0. This will happen only in a direct upgrade from GWME 7.2.0 to 7.2.1. The upgrade process can handle a database version of either 1.7.090 or 1.7.090p1. You can check your current `nedi` database version using the following commands:

```
su nagios
echo "select value from system where name='version'" | \
    /usr/local/groundwork/postgresql/bin/psql -t -U nedi
exit
```

If you are upgrading from a release prior to GWME 7.2.0, you will have a `nedi` database version of 1.6.100 or earlier. In that case, the upgrade code cannot handle the conversion, and it will generate an error message during the upgrade process. To avoid that, when you reach the stage in a multi-release upgrade where you have GWME 7.2.0 installed, run these commands to initialize the `nedi` database:

```
su nagios
/usr/local/groundwork/nedi/nedi.pl -i
exit
```

You will be prompted for the PostgreSQL administrative user (`postgres`) and its password. All data in the `nedi` database will be lost, but this is unavoidable in this case. It will, however, be repopulated the next time you run NeDi.

- Starting with GWME 7.1.0, the scheduling of NeDi cron jobs was changed from once every four hours to once every hour. However, the RRD file creation parameters were not changed at the same time, resulting in a discrepancy of the resolution of the collected data. To address that, after you have upgraded to GWME 7.2.1, you should delete all of the existing NeDi RRD files and allow them to be re-created using the new RRD parameters in the `nedi/nedi.conf` and `nedi/nodi.conf` files.

```
rm -rf /usr/local/groundwork/nedi/rrd/*
```

This also means that when you are merging old pre-upgrade configuration data into the post-upgrade configuration files, you should leave the `rrdstep` value in the `/usr/local/groundwork/nedi/nedi.conf` file set to 3600.

- `nfdump` is added to GroundWork Monitor. This is useful in monitoring and graphing Netflow and Sflow data, as well as monitoring for particular types of flows and traffic, and getting alerted when they occur. Please see the Bookshelf entry for [NeDi](#) for details, or contact GroundWork Support.
- We now provide a NeDi Connector, and as such we are officially deprecating use of the NeDi feeder in favor of the (much easier to use) connector. We recommend the old feeder be disabled in the `config/nedi_feeder.conf` file:

```
enable_processing = no
```

when you are merging in old config-file values.

- A NeDi add-on, called NoDi (for Node Discovery), is also included in GWME 7.2.1. See the System > NoDi screen in NeDi. Please note that using this tool will allow SQL to be entered into the user interface directly. Enable it only if you are ok with the risk this entails.
- NoDi will use a new PostgreSQL database, named `nedi_nodes`. The `nedi/nodi.conf` file will contain the access credentials for this database. The access credentials will also be stored in the `/usr/local/groundwork/users/nagios/.pgpass` file. If you want to change those credentials, both files should be changed in tandem.
- The `nedi_flowi.pl` and `moni.pl` processes will be set to run automatically, as possible sources of additional monitoring data.
- NeDi relies on `netstat`, a deprecated utility no longer included by default in some Linux distributions. You will need to install it using your package manager, for example:

```
yum install net-tools
```

## GroundWork Distributed Monitoring Agent (GDMA)

- GDMA 2.6.1 agents now support Auto-Setup. GDMA Auto-Setup is an advanced facility for having each GDMA client discover the facilities that need monitoring on that machine, reporting back that data, and having the server use it to configure or reconfigure the GDMA monitoring on that client. You can now assign host and service profiles as well as individual services to hosts, based on the results of the Auto-Setup "sensors", e.g., a file's presence or absence, its content, or the presence or absence of an open port, running services, etc.

**This means that GDMA can be fully automated in deployments, and can adapt to changes in stack components as they are deployed.**

- Windows and Linux GDMA have both been updated to the 2.6.1 release, which includes support for GDMA Auto-Setup. The other platforms will follow as demand arises.

- Logfile rotation is now built into GDMA 2.6.1, and operates automatically. With this release, it is no longer necessary to disable logging to prevent unlimited logfile growth.
- Starting with GDMA 2.6.1, permissions on the GDMA client config files are now restricted, to block general access to sensitive information.
- With respect to Windows GDMA 2.6.1 specifically:
  - This is the first official release to support TLS 1.2 without the use of any overlay files.
  - This release may be installed to run the GDMA service as a non-administrative user, see [Windows GDMA as non-admin user](#). The customer may choose from a variety of different types of users for this purpose. We expect the `NT SERVICE\GDMA` virtual user to become the most popular choice.
  - On a 64-bit platform, 64-bit Powershell and VB (`cscript`) will be invoked in preference to the 32-bit versions, when running service checks that invoke these languages. This solves a longstanding issue with accessing certain long-width counters.
  - It is now possible to install Windows GDMA without immediately starting the GDMA service. This mirrors what has been available on the other platforms for a long time. It allows you to adjust the `gdma\config\gdma_auto.conf` configuration before the GDMA service is started the first time. You might want to do this, for instance, to enable logging or to enable GDMA Auto-Setup. For unattended installs, this is controlled by the command-line `--gdma_service_start value` option, the `value` being one of `yes`, `no`, `true`, `false`, `1`, or `0`.
- In each GDMA 2.6.1 build, OpenSSL has been updated to the current upstream release.
- Hostgroup-assignment processing during Auto Registration is now modified so it will not assign hostgroups to existing hosts that are already assigned to some hostgroup. This makes it easier to move GDMA hosts out of the single default hostgroup (typically "Auto-Registration") and not have them pop back up there at some future time. It is still possible to have full local control over such behavior; see the new `assign_hostgroups_to_existing_hostgroup_hosts` option in the `register_agent.properties` configuration file.

## Nagios

- There has been no new upstream Nagios Core release since GWME 7.2.0, so the version of Nagios that we include remains the same.
- We are including the Monitoring Plugins 2.2 release, thereby providing a long-overdue uplift to the available Nagios plugins.
- We are also including the Nagios Plugins 2.2.1 release, in case there are any significant differences in the plugins you might need to take advantage of.
- Except for a few particular plugins that are simply being upgraded in place, the content of the `nagios/libexec/` file tree remains the same, with the older release of the Nagios plugins. We are doing this for stability across upgrades. The new plugins are all being provided under the `/usr/local/groundwork/plugins/` directory, with various subdirectories for different identifiable collections of plugins.
- The `/usr/local/groundwork/plugins/customer/` directory is being provided as a standard safe place for customers to locally install additional plugins, either from other third-party sources or written by you, our customers. GroundWork itself will not populate any content into this directory. In future releases, the contents of this directory will be preserved across an upgrade, simplifying the upgrade process.

## Configuration (Monarch)

- **Support for Auto-Setup**
  - Monarch now includes the server side components to fully support the GDMA Auto-Setup feature.
- **Check period Override is now host-specific**
  - In the Host Detail screen, you may now override the host-template "Check period" value with a host-specific value.
  - In a fresh install, the value for the host-check interval in the generic-host host template has been changed from 0 to 10. (In order not to disturb working existing customer configurations, this value is not changed during an upgrade.) This modification reflects an underlying change in the behavior of Nagios, which we had not previously recognized: running regularly-scheduled host checks is no longer actively discouraged. The pop-up help text for this option has been updated to reflect our new understanding.

## Performance Data Handling

We have extended the perf-data processing to allow sending to multiple Foundation REST API endpoints. This facility may find use in some advanced distributed monitoring setups.

## Grafana

As of 7.2.0, we have included Grafana for creating graphical dashboard displays. Grafana can do much more than this, and we have updated to the 5.1.3 version in 7.2.1, so you can now access several more features:

- Additional data sources are supported (including Postgres)
  - Dashboards can be arranged into folders
  - Trend and threshold enhancements
  - A new look and feel for the Grafana user interface
- Of course, you can still use the GroundWork templates and the GroundWork data source to access the performance data you get from Cloud Hub and Nagios, etc. in GroundWork.

## SLAs and SLA Dashboards

Perhaps the most radical change in this release of GroundWork is SLA management and SLA dashboards. These facilities are not available in the GroundWork Monitor Core edition, and require a commercial license.

SLA management can use any GroundWork Service as a base, though it works best when paired with Business Service Management (BSM). With SLA management, you can track compliance with many different SLAs. Compliance is as measured by GroundWork Monitor, and any other

sources you input.

SLA Dashboards are a new way to display data in GroundWork Monitor, specifically for SLA compliance measures. The dashboards are highly flexible and can be adapted to many scenarios.

## Component Upgrades

With the release of GroundWork Monitor 7.2.1, 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 in this release:

- Upgraded to **PostgreSQL 9.6.9**
- Upgraded **PHP to 5.6.36**
- Upgraded **Grafana to 5.1.3**
- Upgraded **InfluxDB to 1.5.3**
- Upgraded **NeDi to 1.8.100**
- Upgraded **GDMA to 2.6.1**
- 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 SLA Dashboards. 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, but this will likely be different, especially if you use LDAP/AD integration).
- 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 7.2.1 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 7.2.1 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-2018-06-21/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 7.2.1 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 7.2.1 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:

```
/usr/local/groundwork/java/bin/java -cp \  
  
/usr/local/groundwork/jpp/modules/com/groundwork/security/main/groundwork-jboss-security-7.2.1-  
\  
com.groundwork.core.security.GateinConfigurationUtils -superuser svc_gwroot
```

- **Remote Postgres Server Upgrade throws an error about postgres-xtra-functions.sql.** This happens because there is a missing file on the remote postgres installation on some systems.
  - The Upgrade instructions for Remote Postgres installations completely address fixing this error.
- **Custom portal changes for LogBridge:** If you use LogBridge, read this section and the next:
  - The installer when upgrading to 7.2.1 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
/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 7.2.1, if using the LogBridge module, then install the latest and greatest `logbridge_feeder.pl` and `gwevents_to_es.pl` scripts. Note that 7.2.1 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, access the `psql` command line and connect to the `gwcollage` database, then:

```
select * from applicationtype;
```

- 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 `applicationtype` table with:

```
delete from applicationtype 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](#).
  - In addition, some customers have encountered issues with RedHat Enterprise Linux 7 under VMware. These issues are unrelated to GroundWork, but may impact network stability in such systems.

## 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-snmpttrapd.sh

service groundwork stop snmptt
chmod -x /usr/local/groundwork/common/scripts/ctl-snmptt.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 current 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.

- **Miscellaneous changes from previous releases**

- 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.

## SECTION III: Announcements as of Version 7.2.1

### Supported versions of GroundWork

- GroundWork Monitor version 7.1.0 is now **end-of-life**. Customers using older versions are advised to contact GroundWork Support regarding upgrade options.
- GroundWork Monitor version 7.1.1 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 7.2.1 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.

# SECTION IV: Details of Fixed Issues Since Release 7.2.0

This release incorporates 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 7.2.1, please see your support case where you reported it, or contact support with your question.

Key	Summary	Component(s)
CLOUDHUB-328	When connectors are stopped, status of hosts becomes "not available or not applicable"	
CLOUDHUB-350	Snapshot services are inconsistent	
CLOUDHUB-352	Prefix and multiple clusters not working as expected	
CLOUDHUB-356	Lots of error messages in framework log when VM is turned off	
CLOUDHUB-360	Update older UIs to latest Cloud Hub UI technology	
CLOUDHUB-361	Allow AIM Role instead of AccessKey/Secret Key	
CLOUDHUB-362	Change the user interface for better workflow	
CLOUDHUB-363	Add option to group by Resource Group if present	
CLOUDHUB-365	Connecting to Cloudera fails	
GDMA-256	GDMA log files grow without limit	Linux Solaris Windows
GDMA-396	GDMA uses a version of OpenSSL with vulnerabilities that concern the customer	Windows
GDMA-414	64-bit Windows GDMA	Windows
GDMA-422	Windows installer does not support specifying the account the GDMA service will run under	Windows
GDMA-427	Eventlog Error when querying WMI counters with > 32 cores	
GWMON-3140	Status viewer will not display a performance graph if the associated service has a colon in the service name	Status Viewer
GWMON-7220	Repeated "Network Connection Interrupted" error	JBoss Portal
GWMON-7847	Default email addresses for portal users should not use @portal.com	JBoss Portal
GWMON-8146	The Check period field does not display in any Host details screen of Monarch	Configuration
GWMON-8974	/usr/local/groundwork/core/services/ feeders have supervise directory set to root	Build Process
GWMON-9041	Provide the ability to create menu sub pages deeper than 2 levels	Administration JBoss Portal
GWMON-9324	Auto suppress alerts caused by monitoring of services being interrupted by a configuration push	Configuration GDMA Linux Child Server Windows Child Server
GWMON-9355	Really large messages cause event portlet to have a horizontal scrollbar	Status Viewer
GWMON-9396	CGISESSID is not managed cleanly by JBoss and Monarch across user logins	Configuration

GWMON-9431	Cacti Automation Schema, 'Cacti Host Profile Sync 2.1.0' should have Default host profile- 'cacti-host' selected	
GWMON-9481	Logging out redirects to signout URL, makes logging in again from the same screen fail	JBoss Portal
GWMON-9499	FireFox: After logging out , user is not allowed to log in back using back button in browser	Home
GWMON-9504	Status viewer "Related Links" display issue	Status Viewer
GWMON-9592	Different colors for the navigation bars	JBoss Portal
GWMON-9599	GWDIAGS missing some useful data	
GWMON-9610	Allow portal timeout to be set per user	JBoss Portal
GWMON-9628	Status viewer text exceeds box when scaling text size in Firefox 3.6 using ctrl - + and ctrl - -	Status Viewer
GWMON-9710	contact_group assignment is being made even though there are no overrides being assigned	Advance Reports
GWMON-9799	Cacti has some missing URLs	NMS - Cacti
GWMON-9813	Role restriction display problems	Administration
GWMON-9850	remoterrd Graph Image returns text/plain rather than image/png	Web Services
GWMON-10092	When setting up a host - make all host template options available to override	Configuration
GWMON-10199	Schema differences between setup table and monarch_group_props table	Configuration
GWMON-10216	nagios feeder should submit valid xml to foundation	Foundation
GWMON-10364	Added user not showing up in search user field, browser caching issue	
GWMON-10381	Performance Graphs in Status viewer fail to render	Foundation Status Viewer
GWMON-10421	check_oracle_db perl interpreter is set to #!/usr/bin/perl instead of /usr/local/groundwork/perl/bin/perl	
GWMON-10426	Installer in GUI mode throws exception on command line	Installer
GWMON-10446	State retention file is not updated when host alias is changed for an existing host	Nagios
GWMON-10449	Default GroundWork LDAP roles cannot be configurable, customized or renamed	JBoss Portal
GWMON-10480	Delete and Reset the Foundation Database - does not work and has documentation errors	Documentation
GWMON-10481	Implement Auto Registration for GDMA/JDMA	Configuration
GWMON-10580	Create portlet to expose Cloud Hub UI to administrator	JBoss Portal
GWMON-10591	Store Nagios performance data for hosts and services in Foundation so that it is available through Web Service calls	Foundation
GWMON-10647	Adding the same NoMa user twice results in a big page of SQL errors.	NoMa
GWMON-10977	Configuration Reports do not correctly show all services on hosts, or services	
GWMON-11004	Reports broken with Firefox version 17 and up	Reports
GWMON-11015	Date range is not adjusted up to year '2000' in 'Performance View' as per the validation message	Reports
GWMON-11357	server-side GDMA spool logfile should be rotated	Configuration
GWMON-11364	NoMa SQLite DB issues	NoMa
GWMON-11536	Portal seed data for Firstname and Lastname for users wsuser and gdma is invalid	
GWMON-11647	Groundwork Portal modules display errors/exceptions when logged in through root user	Authentication/Authorization
GWMON-11766	Security improvements - update Cacti feeder and any ws_client.properties dependent components to read encrypted passwords	NMS

GWMMON-11777	HRA performance data causing a hang in the perf data processor	Performance
GWMMON-11867	Ability to assign non-Nagios hosts to hostgroups	Foundation
GWMMON-11870	The portal session timeout is not configurable	JBoss Portal
GWMMON-11984	Backup utility can segfault	BitRock
GWMMON-12077	Improve performance to LDAP migration script	Upgrades
GWMMON-12146	BSM hosts never recover in Seurat View portlet	Dashboards
GWMMON-12568	Searching for host in Event Console returns no events for some hosts	
GWMMON-12569	Reinstate Host Group Tag for OpenTSDB Perf Data	Foundation
GWMMON-12575	OpenTSDB Perf Data Resource not Cleaning Host/Service Names on Read	Foundation Status Viewer
GWMMON-12576	NoMa does not work if GroundWork is configured to run on a separate database server	NoMa
GWMMON-12580	Cloud Hub fails if merge hosts is on, and a host with the same name exists in VMware and AWS	Cloud
GWMMON-12581	Deletion of VMware hosts and services fails when VMware connector is removed fails in some circumstances	Cloud
GWMMON-12583	Status viewer kicks back to the login screen	Status Viewer
GWMMON-12653	Service groundwork fails to restart after reboot operation on SUSE machine	
GWMMON-12816	setenv.sh variable setting creates a security hole	BitRock Configuration
GWMMON-13109	check_casper.js script doesn't handle WARNING and CRITICAL values correctly	Nagios
GWMMON-13116	Cloud Hub not removing hosts, hostgroups, and services added when Cloud Hub is disabled	
GWMMON-13125	BIZ API does not honor APPTYPE ownership for HostStatus updates	
GWMMON-13273	grafbridge-control -import_rrds fails with SSL enabled	GrafBridge
GWMMON-13274	"Interval" not being respected during a perfdata GET operation	Foundation
GWMMON-13284	check_http lacks support for TLSv1.2	Plugins
GWMMON-13285	openssl missing TLS 1.2 cyphers	Tools
GWMMON-13290	Install remote PostgreSQL server shows errors around Grafana server	GrafBridge Installer Packaging
GWMMON-13291	CVE2017-3737 OpenSSL can pass unencrypted data if SSL_read() called after fatal error in handshake	
GWMMON-13296	PostgreSQL Data Source for Grafana is missing	GrafBridge
GWMMON-13300	Grafana graph of service-group shows every service twice / no host identification on single services	Foundation
GWMMON-13303	groundwork python requires a tmp directory not mounted noexec	Build Process
GWMMON-13314	Default Data Source for Grafana panels "should" have Data Source consistently to set to "default"	GrafBridge
GWMMON-13321	RESTAPIACCESSREADER token is changed on upgrade to GW 7.2.1	Dashboards
GWMMON-13323	"HTTP Status 500" is observed on "GroundWork Cloud Hub page"	Administration
GWMMON-13330	Import RRD to InfluxDB failed with message "partial write: points beyond retention policy dropped=18964"	GrafBridge
GWMMON-13332	LDAP auth and auth works for some users and not for others	JBoss Portal
GWMMON-13338	NoMa does not allow creation of new contacts	NoMa
GWMMON-13342	Adding NoMa Notification Rule with escalation causes invalid sql error	NoMa
GWMMON-13344	Create Notification button in NoMa produces a 500 error	NoMa

GWMON-13345	The portal may fail to start when using PostgreSQL 9.6.8	Foundation
GWMON-13351	GrafBridge RRD import destroys existing InfluxDB data for host/service	
GWMON-13355	grafbridge-control script fails when adding datasource during upgrade	GrafBridge
GWMON-13356	Add nfdump and associated utilities to GWMEE	NMS - NeDi
GWMON-13357	Installing new Grafana panels in GroundWork Monitor path for plugins incorrect	Grafbridge
GWMON-13359	Need to be able to send perf data to multiple REST API endpoints	Parent-Child Performance Primary-Standby
GWMON-13360	Remove Recurring Downtimes menu item	Configuration
GWMON-13361	Combine "Repeat" option into "Add downtime" and remove "Add single downtime" for Host, Host Group, and Service Group downtime	Configuration
GWMON-13362	Scheduled current and repeat downtime should display as Active and Recurring in List Downtimes	Configuration
GWMON-13363	Misc Configuration > Downtimes visual fixes	Configuration
GWMON-13372	Business > SLA Management > Downtimes (SLA relevant), Error 500 received	
GWMON-13375	Change portal menu items for RSTools and other screens	Configuration Dashboards JBoss Portal Upgrades
GWMON-13382	Further restrict file permissions	Configuration
GWMON-13387	gwdiags - add application-users.properties	Tools
GWMON-13388	gwdiags - fix netstat output to be numeric	Tools
GWMON-13391	Log List does not list times	
GWMON-13411	/etc/logrotate.d/groundwork-fping should be owned by root	Configuration

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