



Release Notes

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Product: IBM Security Guardium
Release: v10.1.4
Version: Guardium v10.0 GPU p400
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IBM Guardium offers the most complete database protection solution for reducing risk, simplifying compliance and lowering audit cost.

The IBM Security Guardium data protection solutions covered by these release notes includes:

- IBM Security Guardium Database Activity Monitoring (DAM)
- IBM Security Guardium Vulnerability Assessment (VA)
- IBM Security Guardium File Activity Monitoring (FAM) - Use Guardium file activity monitoring to extend monitoring capabilities to file servers.

The IBM Guardium products provide a simple, robust solution for preventing data leaks from databases and files, helping to ensure the integrity of information in the data center and automating compliance controls.

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Guardium v10.1.4 Release Notes

General note on upgrading to v10.1.4

v10.1.4 (v10.0 GPU p400) can be installed on any v10.x system regardless of whether it was upgraded from v9.x or built from an earlier v10.x image.

The only dependency is that v10.0 Health Check patch 9997 must be successfully installed before installing the Guardium v10.1.4 (v10.0 GPU p400). See the section below on Health Check patch.

v10.1.4 (v10.0 GPU p400) includes all previous v10.x fixpacks, security fixes, and sniffer updates, up to and including v10.0 p235 for fixpacks and v10.0 p4029 for sniffer updates. See the sections (starting on page 12) later in this document listing v10.x fixpacks, security fixes and sniffer-related patches. Also check the list of Known Limitations that appears near the end of this document.

Internal database upgraded to MySQL 5.7

To speed up this upgrade, Guardium customers are strongly recommended to backup, archive and purge the appliance data as much as possible.

Depending on the size of the Guardium system being upgraded, MySQL 5.7 will enter into a recovery mode, which could take some extended time to complete.

During the recovery mode, the following CLI message will display:

```
The internal database on the appliance is currently down and CLI
will be working in 'recovery mode'; only a limited set of
commands will be available.
```

Important: Do NOT reboot the system during the MySQL recovery mode.

If the MySQL upgrade needs to perform MySQL check table (which is known to be a very time-consuming process) and, depending on the size and number of tables, then this can delay the time it takes to upgrade.

Health Check patch

v10.0 Health Check patch 9997 must be successfully installed before installing the Guardium v10.1.4 (v10.0 GPU p400). This release will not install without FIRST installing the Health Check patch. The name of this Health Check file is `SqlGuard-10.0p9997_HealthCheck_2017_02_09.zip`.

Always use the latest and newest version of Health Check patch on Fixcentral, even if you have the Health Check patch from earlier GPUs.

General Notes

- This GPU patch will restart the appliance.
- Installation needs to be performed/scheduled during the "quiet" time on the Guardium appliance to avoid conflicts with other long-running processes (such as heavy reports, audit processes, backups, imports and so on).
- Purge as much unneeded data as possible to make installation easier.
- If the downloaded package is in .ZIP format, customers are required to unzip it outside Guardium appliance before uploading/ installing it.
- When this patch is installed on a collector appliance, make sure that the patch is also installed on the corresponding aggregator appliance. Do this to avoid aggregator merge issues.
- Installation should be across all the appliances: Central Manager, aggregators and collectors.

Note on Overwrite

v10.1.4 (v10.0 GPU p400) will overwrite any v10.0 Sniffer update patch greater than v10.0 patch 4029.

Be sure to re-install any v10.0 Sniffer update patch greater than v10.0 patch 4029 after installing v10.1.4 (v10.0 GPU p400).

Installing or upgrading to 10.1.4 Windows S-TAP

Fresh install of v10.1.4, no reboot required

Upgrading from v9 to v10.1.4, no reboot required

Upgrading from v10.0 and build lower than 83909, reboot is required

Upgrading from v10.1.x (revisions lower than Windows STAP v10.1.22.16), reboot is required

New for 10.1.4 features/functions and enhancements

v10.1.4 introduces the following new capabilities, depending on the product you have installed:

- Cloud database protection service

Cloud database protection service provides discovery, classification, vulnerability assessment, for all RDS AWS database engines, and activity monitoring for Oracle v.11. You manage all these functions in one page, which lists all the databases on our cloud DB service account and provides status of your monitored DBs. Once you set up a connection with a cloud DB service account, and discover its instances, you can assign classification and VA processes to individual instances. Use the classification results to enable activity monitoring (done through database auditing).

The cloud functionality in previous Guardium versions (Amazon RDS discovery and vulnerability assessment) is combined with the new functionality, accessed via Discover > Database Discovery > Cloud DB Service Protection.

- Use the compliance monitoring tool to help meet compliance standards by quickly installing policies, populating groups, and running reports for monitoring database activity.
- The redesigned and enhanced group builder allows you to populate groups from a variety of new sources while providing at-a-glance information about group membership and where groups are used in policies and queries.
- The redesigned GIM module installation tool streamlines software installation by identifying client-module incompatibility and simplifying parameter management.
- Rapid Response DPS - Uploads are used to keep information current and within industry best practices to protect against newly discovered vulnerabilities. Distribution of updates is done whenever a CVE is published with a scoring of 7.0 or greater. Rapid Response DPS is available only to customers with Guardium v10.1.4 release and higher.
- Additional languages added – French, Spanish and German.

Enhancements - new features and supported platforms that improve your overall Guardium experience.

- Enhance GDPR support with additional languages and patterns, new policies and reports, and support for DB2 for z/OS. You can find more information for compliance monitoring at:
https://www.ibm.com/support/knowledgecenter/SSMPHH_10.1.0/com.ibm.guardium.doc/monitor/compliance_monitoring.html

- Improve internal communications security by providing TLS 1.2 support and deprecating older TLS 1.0/1.1 protocols. See the separate article on this feature at the end of this bullet list.

Linux, Solaris, AIX, HP-UX S-TAP updates

- S-TAP now supports up to ten collectors when configured for multi-threading (`participate_in_load_balancing=4`) and non-multi-threading (`participate_in_load_balancing=1`) modes.
- `guard_monitor` has two new parameters:
 - `cpu_measurement_mode`: You can measure CPU consumption per core or relative to total CPU capacity of the system
 - `force_core_when`: configure when to collect a core dump (always, limitsexceeded, nonresponsive)
- Guard-config-update new parameters
 - `add-sqlguard`: Adds SQLGuard_ID section to S-TAP config file
 - `remove-sqlguard`: removes SQLGuard_ID section from S-TAP config file
 - `modify-sqlguard`: used to modify many common S-TAP parameters
- `guardctl` commands:
 - two new commands: `save-active-ataps` and `restore-active-ataps`, Save and then restore the configurations of the currently active ATAPs in a single file. Useful when upgrading databases.
 - Repair command is automatically run during activate and deactivate when `guardctl` detects it to be necessary
- Add a SSH client's IP to the UID chain: enable with the S-TAP parameter `uid_chain_ssh_ip`
- Dedicated upload directory for uploading modules and diagnostics from database server:
 - Shell installation – `guardium/guard_stap/.upload`
 - GIM installation – `modules/STAP/current/.upload`
- Kerberos plugin: You can specify (colon separated) multiple paths to the Kerberos system cache files in the parameter `KRB5_PLUGIN_CCACHE` in the `guardkerbplugin.conf` and in optional parameter `KRB5_PLUGIN_GSSAPI_LIBRARY`

Disable TLS1.0/1.1, enable TLS 1.2

To increase the security of the Guardium system, in Guardium release v10.1.4, communications protocols TLS1.0/1.1 can optionally be disabled in support of using communications protocol TLS1.2.

The Guardium customer must disable TLS1.0/1.1 and enable TLS1.2 from their Central Manager or standalone unit using the command line interface. Customer's Guardium appliances, S-TAP agents, CAS and GIM clients must be at specific versions to enable this new feature.

The enablement of TLS1.2 will automatically check to make sure managed units and S-TAPs are at specific versions, but cannot check CAS client versions so customers using CAS will need to make sure their CAS clients are at version 10.1.4 and their database servers have Java 7 enabled. Lack of doing this will result in the inability to see CAS connections to database servers.

Customers must also make sure all managed units have version 10.1.4 installed, and GIM Clients and S-TAPs are at a minimum version of 10.1.2. Failure to meet all requirements will mean that TLS1.0/1.1 will not be disabled.

Steps to enable this feature

Guardium users with admin role need to input the following GuardAPI commands at the CLI prompt. These commands are new for Guardium v10.1.4.

To get information about and to disable TLS1.0/1.1 on all units in a managed environment, (Central Manager, Aggregator, Managed units), the following commands should be run on the Central Manager.

1. `grdapi get_secured_protocols_info`
2. `grdapi disable_deprecated_protocols`

Running these commands from a Central Manager will propagate down to all managed units.

```
grdapi get_secured_protocols_info
```

This GuardAPI command will list the enabled protocols (TLS1.0/1.1 and TLS1.2) and will indicate if the deprecated protocols can be disabled.

```
grdapi disable_deprecated_protocols
```

This GuardAPI command will first run the version check described above. If the result is positive for changes, then this command will change the configuration settings for each module on Central Manager and all managed units to disable the deprecated protocols and then restart the modules.

If the check result is negative for changes, then this command will indicate deprecated protocols are enabled and must be kept until all managed units are upgraded.

```
grdapi enable_deprecated_protocols
```

Running `grdapi enable_deprecated_protocols` on the Central Manager will ONLY enable deprecated protocols on the Central Manager. To enable deprecated protocols and have the Central Manager propagate the changes down to the managed units, the following command needs to be used, `grdapi enable_deprecated_protocols all=true`

This GuardAPI command is a fallback that will change back the configuration settings for each module on Central Manager and all managed units to enable the deprecated protocols and restart the modules.

After all the configuration changes are made, Guardium users with admin role should check that communications between Central Managers are stable and working properly.

For any managed unit that was offline during the GuardAPI command execution, Guardium users with admin role must manually start a command line session on the managed unit and execute the following command to make the configuration changes:

```
grdapi local_disable_deprecated_protocols
```

Additional OS and Databases supported for v10.1.4

For Database Activity Monitoring (DAM)

MariaDB 10.1

For Vulnerability Assessment

Oracle 12.2 STIG benchmark coverage. Version 1, Release 7.

Platforms

Update support to SUSE:

SLES 11 PPC64 (Big Endian system only)

SLES 12 PPC64LE (Little Endian only)

CentOS 7 in Unix S-TAP

OpenSSL for UNIX S-TAP: OpenSSL1.0.2k

TLS 1.2

How to access the VA, Entitlement, and Classification scripts using fileserver

Guardium provides scripts to make it easier for DBAs to provide the minimum set of privileges required to run Vulnerability Assessment tests, Entitlements, and, classifications (sensitive data finder).

In 10.1.4, use the same scripts for both entitlement reporting and Vulnerability Assessment tests.

Important: Each DBMS script has very specific instructions in the script header that must be followed.

From the CLI, run the following command:

```
fileserver <your desktop IP:port> 3600
```

Then go to a browser and enter the URL for the type of scripts you want to upload and choose the file that matches your database type.

Vulnerability Assessment and Entitlements:

```
https://<appliance ip:port>/log/debug-logs/gdmmonitor_scripts/
```

Classification:

```
https://<appliance ip:port>/log/debug-logs/classification_role/
```

Change in default behavior

The default behavior of FAM_enabled parameter has been changed from ON by default to OFF by default. This will only affect new GIM installations. Upgraded environments will not be affected. In Shell S-TAP installations, FAM is still enabled ON by default. (GRD-13167)

The change of fam_enable=0 as default also changes the behavior of FAM crawler on UNIX. Previous behavior was, after install, the FAM crawler would start discovering files and sending the results to the Guardium System. After the recent change of fam_enable=0 upon installation, the FAM crawler, upon installation, is unable to connect to the Guardium system. The workaround is to turn on FAM_ENABLED=1 of S-TAP and the FAM crawler will work. (GRD-13890)

Bugs fixed in v10.1.4 (v10.0 GPU p400)

The list below details many of the bugs fixed in v10.1.4. However, if you are looking for a certain bug, that is not listed, check with your Guardium support team member.

	Bug#	APAR	Description
1.	GRD-5105	GA16013	Fix instance of guard_writer0 shmем" messages logged as LEVEL: Severe in db2diag.log
2.	GRD-5870	GA11393	Fix instance of unknown message in database server syslog ("ktap_ioctl:ioctl xxxx by non-daemon, I am xxxx, daemon is xxxx")
3.	GRD-6469	GA16108	Fix instance of blank DB_USER with Kerberos Authentication enabled on Redhat Linux 6 DB server
4.	GRD-6478	GA16098	Fix instance of roles assigned in Custom Workflow not reinforced
5.	GRD-6499		Fix instance of Central Manager GUI requiring frequent restarts due to out-of-memory resulting from quick search components
6.	GRD-6505	GA16186	Fix CLI command "store password disable" so it disables the passwords of inactive users
7.	GRD-6510		Fix instance of classification job stopping after 8-minutes
8.	GRD-6875		Fix instance of Deployment Health view from the Central Manager not reporting correctly after the customer renamed the hostname of the collector appliance.
9.	GRD-6877	GA16268	Improve query performance for remotely invoked reports
10.	GRD-6918		New alert template works as designed
11.	GRD-6929	IT23432	Fix STAP service not starting automatically after reboot.
12.	GRD-6943		Fix instance of CLI command, store system sniff-thread-number automatically setting thread number different from given value
13.	GRD-6948	GA16161	Clarify GIM installed modules confusion
14.	GRD-6951	GA16148	After upgrading from V10.1 to V10.1.2 with Language = Japanese, fix GUI text strings appearing in English
15.	GRD-6959	GA16097	Security-related fix. Fix instance of /guardhelp/advanced/print.jsp showing error information
16.	GRD-7066	GA16083	Fix instance of sample size input field in the Classification Builder GUI not saved
17.	GRD-7256		Add Query Builder new fields
18.	GRD-7478	GA16136	Fix instances of STAP log contains multiple zone_getattr: Invalid argument

	Bug#	APAR	Description
19.	GRD-7546		Enable GUI aliasing, then use GuardAPI command to schedule Hostname aliasing
20.	GRD-7613	GA16239	Fix blank Teradata "OS User" and "Source Program" when connecting using ODBC
21.	GRD-7627	GA16147	Fix OOM exception just after midnight that affects Tomcat
22.	GRD-7699		Fix "Escalate" an Audit results
23.	GRD-7706	GA16262	Clear alert in WAIT state with RCA
24.	GRD-7717	GA16137	Fix CLI command, support clean DAM_data, so that it purges old GDMS files
25.	GRD-7818		Fix orphan cleanup for GDM_ACCESS on Aggregator
26.	GRD-7931	GA16194	Fix default filenames for any report export to PDF
27.	GRD-8024		Obfuscate root, accessmgr password reset, and passkey cryptography, so that the clear text is not visible or present in emails.
28.	GRD-8171	GA16171	Fix restore data from a TSM server
29.	GRD-8205	GA16143	Fix "Allow purge without exporting or archiving" checkbox remaining checked after effort to uncheck it and save.
30.	GRD-8253	GA16159	Fix stopping of Tomcat with Enterprise Quick Search and Enterprise Load Balancer disabled
31.	GRD-8258	GA16208	Fix instance of reports sent to a NAS server and the timestamp in the report adds 'z' at the end indicating GMT/Zulu time.
32.	GRD-8379	GA16265	Fix instance of error message "Please contact your system administrator." when moved to "Support Information Gathering Results" page
33.	GRD-8459		Fix instance of /etc/init/guard-sender.conf not automatically restarting -n run of guard_sender
34.	GRD-8656	GA16180	Fix support execute with ERROR : No Such File, Check the correct script is installed: Code Point (103)
35.	GRD-8927		Fix CLI diag SNMP test using enterprises.18708 instead of enterprises.18000
36.	GRD-9014	GA16168	Fix instance of store certificate keystore for SSL cert failing with certificate not imported, alias <-trustcacerts> already exists
37.	GRD-9052		Fix patch recovery
38.	GRD-9079		Update RHEL tzdata* to 2017b
39.	GRD-9098		Fix instance of Inspection Engines Discovery missing MS-SQL ports due to peculiar configuration of MS-SQL

	Bug#	APAR	Description
40.	GRD-9128	GA16182	Fix 'tap_min_heartbeat_interval' parameter
41.	GRD-9477	GA16166	Fix instance of LDAP authentication not working after GPU 230+p4027 installed.
42.	GRD-9495	GA16263	Fix blank Teradata "OS User" and "Source Program" when connecting using ODBC
43.	GRD-9519	GA16266	Fix instance of user credentials storage randomness
44.	GRD-9550	GA16220	Fix instance of network bonding configuration resulted in warning messages
45.	GRD-9568	GA16179	Add support for Maria Enterprise 10.1.22
46.	GRD-9631	GA16219	Fix instance of Central Manager patch installation status issue
47.	GRD-9651	GA16175	Fix instance of activating ATAP for Sybase ASE 15.7 environment not opening shared object file
48.	GRD-9778		Fix instance of table column attributes with incorrect display flag setting
49.	GRD-10175		Expose GIM_MODULES_HEARTBITS Entity
50.	GRD-10176	IT22670	Fix instance of GIM.pm location in @INC for new GIM install
51.	GRD-10188	GA16175	Fix instance of V10 STAP of causing Sybase DB Server to stop
52.	GRD-10226	GA16247	Fix instance of AutoDiscovery emptying list of hosts after v10p230 upgrade
53.	GRD-10233		Fix instance of Classifier stopped and jobqueue restarting
54.	GRD-10401	GA16201	Fix instance of Datamart consolidation intermittently stopping
55.	GRD-10420	GA16206	Fix instance of Result Archive and Result Export configuration (FTP) intermittently disappearing
56.	GRD-10494	GA16206	Fix instance of oauth_access_token issues
57.	GRD-10670	PI91374	Fix instance of running guard_diag for STAP 10.1.3 r101342 stopping AIX 7.1 DB server
58.	GRD-10775		Fix instance of DB2 Inspection engine created by auto discovery not collecting local traffic
59.	GRD-10977		Change instance not checking EXPRESS_DAM license at CLI start, but on demand
60.	GRD-10978	GA16226	1000s of UNIX S-TAP messages - Fix instance of unrecognized address family for current server in heartbeat reply
61.	GRD-10982	GA16263	Fix instance of blank Teradata "OS User" and "Source Program" when connecting using ODBC

	Bug#	APAR	Description
62.	GRD-11012		Fix instance of common name invalid warning on GUI
63.	GRD-11317		Fix instance of re-running failed DM consolidation duplicates activity if successful on secondary node (or vice versa)
64.	GRD-11603		Fix instance of CLI command "support ping stap_hosts all" prompting for hostname and causing e command to fail if not entered correctly
65.	GRD-11654	GA16226	1000s of UNIX S-TAP messages - Fix instance of unrecognized address family for current server in heartbeat reply
66.	GRD-11710	GA16261	Fix instance of Must gather slow log function not checking all slow log files
67.	GRD-11725		Fix diag.pl inserts 0 for MESSAGE_TEXT_ID, which caused test emails not to send.
68.	GRD-11731	GA16203	Fix instance of Unit Utilization Statistics not populated if no CONSTRUCT INSTANCE
69.	GRD-11779	GA16240	Fix instance of blank/white screen when Definitions Export> Datasource Export With "Export to API file" selected
70.	GRD-12250	PI89781	Fix instance of V10.1.3 UNIX S-TAP failover to secondary collector not occurring when primary collector is down
71.	GRD-12317	PI89838	Fix semaphore increase leak on Guardium AIX 7.1 DB2 v10 STAP 10.1.3 with DB2 Exit
72.	GRD-12448		Security-related fix. CVE-2017-15265
73.	GRD-12459	GA16264	Fix instance of DB2_EXIT causing high number of opened files and memory utilization increase on AIX 7.1
74.	GRD-12568		Security-related fix. Fix instance of CLI security options not preserved at customer site for GUI security settings
75.	GRD-12592		Fix instance of Datamart export / import not carrying over IDs properly
76.	GRD-12875		Fix instance of DB2 database stopping with Exit configured, DB2 started, and STAP issue activity

Security fixes, v10.1.4

PSIRT ID	Description	Issue ID
93714	Information Exposure	GRD-6505
93716	Password in Clear Text	GRD-6197, GRD-6196, GRD-6198, GRD-2557, GRD-2501
93719	Information Exposure Through Log Files	GRD-5456, GRD-4024
93720	HTTP Response Splitting	GRD-6193
93724	Incorrect Permission Assignment for Critical Resource	GRD-3179
93727	SQL Injection	GRD-3750
93728	Session Identifier Not Updated	GRD-6505
93729	Selection of Less-Secure Algorithm During Negotiation	GRD-4447
96966	Using Components with Known Vulnerabilities	GRD-6445, GRD-6447, GRD-6417
97227	Open Source GNU glibc Vulnerabilities	GRD-8563
99243	IBM SDK, Java Technology Edition Quarterly CPU	GRD-9990
100323	SQL Injection in GIM Servlet	GRD-10395
101224	Use of a Broken or Risky Cryptographic Algorithm	GRD-10395
101225	Sensitive Information Leakage	GRD-10117
101226	Password Returned in HTTP Response	GRD-10081
101227	Lack or Misconfiguration of Browser Security Header	GRD-10108
105195	Multiple Open Source packages vulnerable in Guardium Appliance	GRD-12198

UNIX S-TAP bugs fixed, v10.1.4

Bug#	APAR	Description
GRD-3865		Fix instance of server message logged in Db2 diag when DB2 exit is loaded and S-TAP is down
GRD-5104	GA15941	Fix instance of S-TAP restarting Teradata.
GRD-5105	GA16013	Fix instance of the "Attached /.guard_writer0 shmem" messages logged as LEVEL: Severe in db2diag.log
GRD-5870	GA11393	Fix instance of unknown message in DB server syslog ("ktap_ioctl:ioctl xxxx by non-daemon, I am xxxx, daemon is xxxx")
GRD-6469	GA16108	Fix instance of blank DB_USER with Kerberos Authentication enabled on Redhat Linux 6 DB server
GRD-6948	GA16161	Fix instance of incorrect GIM installed modules
GRD-7478	GA16136	Fix instances of S-TAP log containing multiple zone_getattr: Invalid argument
GRD-7613	GA16229	Fix instance of blank Teradata "OS User" and "Source Program" when connecting using ODBC
GRD-8246	GA16183	Fix instance of embedded SQL traffic not captured by Java application
GRD-8248		Fix instance of DB2 lockout occurring after ATAP activation was done on z/Linux
GRD-8448		Fix instance of S-TAP 10.1.2 r100595 causing RHEL 7 server to stop
GRD-8784		Fix instance of UNIX S-TAP for DB2 shared memory only passing unsigned short length of data to collector
GRD-9128	GA16182	Fix instance of 'tap_min_heartbeat_interval' parameter not working
GRD-9492	GA16213	Fix Instance discovery not discovering inspection engine for Oracle correctly on Solaris

Bug#	APAR	Description
GRD-9495	GA16263	Fix instance of blank Teradata "OS User" and "Source Program" when connecting using ODBC
GRD-9651	GA16175	Fix instance of activating ATAP for Sybase ASE 15.7 environment not opening shared object file
GRD-9931	GA16175	Fix instance of activating ATAP for Sybase ASE 15.7 environment not opening shared object file
GRD-10176	IT22670	Fix instance of GIM.pm not located in @INC for new GIM install
GRD-10188	GA16175	Fix instance of V10 S-TAP causing Sybase DB Server to stop
GRD-10311		Connect to IP fields get truncated (?) and throws invalid format exception
GRD-10350		Fix instance of UID chain showing up only for the DB2 instance configured in the first Inspection Engine
GRD-10474	GA16212	Fix instances of too many [guardctl] <defunct> process existing without other error messages
GRD-10670	PI91374	Fix instance of Running guard_diag for S-TAP 10.1.3 r101342 led to AIX 7.1 DB server stop.
GRD-10775		Fix instance of DB2 Inspection engine created by auto discovery not collecting local traffic
GRD-10974		Fix instance of blank DB User and Source Program for SSL Encrypted Remote Traffic for Sybase
GRD-10978	GA16226	Fix instance of unrecognized address family for current server in heartbeat reply
GRD-10982	GA16263	Fix instance of blank Teradata "OS User" and "Source Program" when connecting using ODBC
GRD-11229		Fix instance of no HADOOP traffic collection
GRD-11404		Fix instance of encrypted Mongo DB traffic creating too many rows in GDM_CONSTRUCT table

Bug#	APAR	Description
GRD-11654	GA16226	Fix instance of Unrecognized address family for current server in heartbeat reply
GRD-11727		Fix instance of Guardium KTAP R84814 led to AIX server stop
GRD-12250	PI89781	Fix instance of V10.1.3 UNIX S-TAP failover to secondary collector not occurring when primary collector is down
GRD-12317	PI89838	Fix instance of Guardium AIX 7.1 DB2 v10 S-TAP 10.1.3 with DB2 Exit causing semaphore increase leak
GRD-12459	GA16264	Fix instance of DB2_EXIT causing high number of opened files and memory utilization increase on AIX 7.1
GRD-12875		Fix instance of DB2 database stopping with DB2 Exit configured, DB2 started, and SAP issue activity with S-TAP down
GRD-13115		Fix instance of S-TAP not capturing traffic via DB2 exit after reboot on AIX
GRD-13226		Fix instance of S-TAP 10.1.3_r101342 diag rebooting AIX 6.1
GRD-13350		Fix instance of KTAP module request for 3.10.0-693.el7.s390x in S-TAP 10.1.3_r102091

Releases for v10.0 since V10.1.3 (June 2017)

v10.0 p231, v10.0p232, v10.0 p233, v10.0 p234, v10.0p235

Release		Guardium GRD- #	APAR	Description
V10.0 p231	V10.0 p231	GRD-6889	GA16174	Fix Internet Explorer compatibility
V10.0 p232 bundle		GRD-4914		Fix instance of Enterprise reports using Central Manager time to run remote queries on managed units in different time zones
		GRD-6498	GA16172	Fix system backup using tomcat public key working for password-less system backups via SCP
		GRD-6887	GA16075	Fix instance of a transfer-failed archive file isn't resent on the next run after 10.1 (p100).
		GRD-6937	GA16087	Fix instance of admin user deleting a report which caused other roles' Navigation Menus to get reset to default
		GRD-6959	GA16097	Fix Guardium Help showing error information
		GRD-8171	GA16171	Fix TSM import file for nodenames that are short hostnames
		GRD-9014	GA16168	Fix instance of store certificate keystore for SSL certificate failing with certificate not imported
V10.0 p233	V10.0 p233	GRD-10148	GA16198	Fix instance when cannot upgrade 10.1.2 AIX 7 STAP and GIM agents to 10.1.3
V10.0 p234		GRD-10977		Defer CLI license check to run only during protected commands
		GRD-10401	GA16201	Fix instance of Datamart consolidation intermittently stopping
		GRD-9666	GA16202	Fix instance of "Ignore STAP Session" marking the Session Ignored but has SQL associated to it.
		GRD-9151	GA16181	CLI security fix
		GRD-8258	GA16208	Fix when reports are sent to a NAS server, the timestamp in the report adds 'z' at the end indicating GMT/Zulu time.

Release		Guardium GRD- #	APAR	Description
		GRD-8253	GA16159	Fix Tomcat heap size computation for memory utilization.
		GRD-7096		Fix instance of when saving a report, large DataMart alters may stop and cause schema mismatch
		GRD-6505	GA16186	Fix instance of the CLI command "store password disable" not disabling the passwords of inactive users
V10.0 p235		GRD-10311		Fix instance of connection to IP fields gets truncated and results in an invalid format exception

Sniffer Updates since V10.1.3 (June 2017)

4027, 4028, 4029 Sniffer Update

Notes:

- Installation of sniffer patches need to be performed/scheduled during the "quiet" time on the Guardium appliance to avoid conflicts with other long-running processes (such as heavy reports, audit processes, backups, imports and so on).
- Installation of sniffer patches will automatically restart the sniffer process.
- If the downloaded package is in .ZIP format, customers are required to unzip it outside Guardium appliance before uploading/ installing it.
- Universal sniffer patch can be installed on top of any GPU starting with v10.0 patch 100 or higher.

If there is a failure to install, the following error message will display:

ERROR: Patch Installation Failed - Incompatible GPU level. GPU p100 or higher required.

- When this patch is installed on a collector appliance, make sure that the patch is also installed on the corresponding aggregator appliance. Do this to avoid aggregator merge issues.
- On Aggregators, it is recommended to turn off the GUI before installation of the patch, for the duration of the installation.
- This sniffer patch should be installed across all the appliances: Central Manager, aggregators and collectors.

v10.0 Sniffer Update patches 4027, 4028, 4029

The bugs that were fixed:

	Sniffer update	Guardium GRD- #	APAR	Description
1.	4027	7687	GA16102	Fixed sniffer segfault issue caused by race condition, applicable only to zOS STAP for DB2 customers, configured with TLS (encryption) on
2.	4028	8313	IT22383	Fix ALERT ONLY action writing to SYSLOG as well as MESSAGE and MESSAGE_TEXT table as opposed to SYSLOG only
		8214	PI87260	Fix frequent sniffer restarts for DB2 on z/OS
		8198	GA16167	Fix Sniffer Segment Fault - p4025
		7938		Oracle - fix instance of select sysdate from dual not displayed correctly in the SQLfield
		7937		Teradata - fix instance of select current_timestamp not displayed correctly in the SQLfield
		7893	GA16126	Add additional masking of log content
		7749	GA16086	SQL Server - fix instance of grant statements not displayed correctly in the SQLfield
		7477	GA16092	Fix instance where Oracle Service Names sometimes are parsed in excessively long form
		7231	GA16103	Fix instance where running CREATE OR ALTER PROCEDURE command on MSSQL database gets a PARSER_ERROR on a v9/p700/p4074 Managed Unit
		7022	GA16058	Fix Sniffer restarts as the result of heavy POC stress test
		6940	GA16200	Fix instance of SQLs missing intermittently on collector in report based on COMMAND as main entity. Aggregator shows up no issue for the same report
		6893	GA16164	Fix instance where STAP Edit functionality goes away after page refresh
		6890	GA15955	Fix instance of MSSQL Objects logged including inline comments
		6503	GA16165	Fix instance where V10 Sniffer Dropping Packets DB_USER either missing or is "?"

	Sniffer update	Guardium GRD- #	APAR	Description
		6472	GA16141	Fix instance of Sniffer Restarts/STAP Buffer Errors and with Enterprise Load Balancing
		6469	GA16108	Fix instance of Blank DB_USER with Kerberos Authentication enabled on Redhat Linux 6 DB server
3.	4029	10498	GA16193	Fix instance of Selective audit policy and object/command and field tuples incorrectly logging constructs
		10205	GA16191	Fix instance of Sniffer stopping on p4028
		9960	GA16193	Fix instance of a problem with group using object/command and logging "Full Details" and "Full Details with values"
		8329	GA16189	Fix instance where embedded SQL traffic not captured even for call - C application
		7990	GA16178	Fix instance of passed-in values for update statement are null in full SQL report
		7911	GA16154	Fix instance of DB User not logged for Oracle RAC environment when packets sent out of order

Notice - Deprecation and removal of functionality

In Guardium release v10.1.4, the following capabilities are removed:

- Access Map - Use the Deployment Health view to understand the relationship between databases and appliances. Use the Data In-sight chart on the Investigation Dashboard to gain an understanding of database client-to-accesses with its interactive 3D visualizations. This YouTube video includes a demonstration of Data In-sight:
<https://www.youtube.com/watch?v=OsQbWMPyWL4>
- Baseline: Use outlier detection capability to mine access data for anomalous behavior.
- AME Interface for Definition Builder- AME (Audit Management Expert) has not been used for z/OS support for many releases.

The following capabilities are deprecated and are planned to be removed in a future release:

- Legacy Group Builder. The new Group Builder in 10.1.4 provides a much better user experience and improved capabilities.
- Legacy interface to setup by client in GIM. The new GIM user interface is much easier to use and provides a better user experience.
- Legacy classifier policy and process builder. Use the Discover Sensitive Data Scenario to create and edit policy rules and to create new classifier processes.

Notice - End of Service

As of March 2018, Guardium will no longer support LHMON drivers. This is due to the new Windows Signing requirement for Windows 2016 support.

Notice – Platform deprecation

The following Guardium-supported platforms will be deprecated in the next release in 2018 (this will be a post-v10.1.4 release). This deprecation applies to both DAM and VA.

Database	Deprecated versions
Microsoft SQL Server	2005, 2008, 2008 R2
IBM DB2	9.7
IBM DB2 Purescale	9.8
Sybase IQ	15.4
Teradata	13
Cloudera	4, 4.1
Hortonworks	2.3, 2.4
IBM BigInsights	4, 4.1
Cassandra	3.5
Windows File Share (WFS)	

Known Issues and Limitations

Issue No.	Description	Guardium Component	Bug #
1.	The TSM file (dsm.sys) and the Centera (.pea) file do not get copied over to the new Central Manager after the Backup CM backup is restored.	Backup CM	GRD-13409
2.	On Guardium systems with v10.0p4029 and higher, the Blocking policy is not pushed down to S-TAP on z/OS.	z/OS	GRD-13271
3.	The LDAP certificate is not restored when using the restore db_from_previous_version command.	Backup	
4.	Newly installed clients are not appearing in the Set up by Client> Choose clients list if the user is already logged into the Central Manager. It is not until the user logs out and then logs back in that the newly installed clients appear in the list. Note: This issue does NOT occur with "Set up by Client (Legacy)". The user can install a new client and it will appear in the list. Workaround: user can logout and then log back in to make the new clients appear.	Set up by Client	GRD-13267
5.	By default, Vormetric DSM server and, by default, GIM Listener are using port 8445. Either change Vormetric DSM server port to a different port or install GIM listener with a different port, enable this port in firewall on both ends and use that port when discovering listeners and activating them.	GIM Listener port/ Vormetric DSM server	GRD-13525
6.	System Backup and Data Archive to Amazon S3 are limited to files that are less than 5 GB in size after compression.	System Backup/ Data Archive/ Amazon S3	GRD-13659/ GRD-7973
7.	Property files return to their default value after upgrade.	Property files	GRD-7356
8.	Pre-defined access and classification policies cannot be modified	Pre-defined classification policies	GRD-8259

Note: Important issues in this table will be addressed in future V10.x maintenance releases.

Additional Resources

Link to formal Guardium V10.1 product announcement

http://www-01.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep_ca/9/760/ENUSJP16-0229/index.html&lang=en&request_locale=en

Online help available via Web

The online help is included in the Guardium v10.1 Knowledge Center on the Web at:

http://www-01.ibm.com/support/knowledgecenter/SSMPHH/SSMPHH_welcome.html

Search all the product information together at that site. The Knowledge center is updated more frequently than the embedded online help and is the most up-to-date source of information.

V10.1.4 Detailed Release Notes (December 2017)

<http://www-01.ibm.com/support/docview.wss?uid=swg27050547>

V10.1.3 Detailed Release Notes (June 2017)

<http://www-01.ibm.com/support/docview.wss?uid=swg27049899>

V10.1.2 Detailed Release Notes (November 2016)

<http://www-01.ibm.com/support/docview.wss?uid=swg27049019>

V10.1 Detailed Release Notes (June 2016)

<http://www-01.ibm.com/support/docview.wss?uid=swg27047839>

Links to System requirements/ Technical requirements for v10.1/10.1.2/10.1.3/10.1.4

For a list of V10.1 databases and operating systems, go to:

V10.1.x System Requirements (Platforms Supported) (December 2017)

64-bit

<http://www-01.ibm.com/support/docview.wss?uid=swg27047801>

V10.1.x Software Appliance Technical Requirements (December 2017)

64-bit

<http://www-01.ibm.com/support/docview.wss?uid=swg27047802>

V10.1.x and V10.1.4 S-TAP filenames and MD5Sums (December 2017)

<http://www-01.ibm.com/support/docview.wss?&uid=swg27048065>

Resources to help plan a migration from Guardium 9.x to 10.x

<http://www-01.ibm.com/support/docview.wss?uid=swg22010717>

v9.x to v10.1.3 Upgrade patch release notes/ known limitations (October 2017)

<http://www-01.ibm.com/support/docview.wss?uid=swg27050457>

Location of User Guide for the v9.x to v10.1.3 upgrade

To access the user guide for the v9.x to v10.1.3 upgrade, go to the section on "Upgrading your Guardium system" in the v10.1.3 Knowledgecenter (September 2017).

http://www.ibm.com/support/knowledgecenter/SSMPHH_10.1.0/com.ibm.guardium.doc.install/upgrade/upgrade_guide.html

V10.1 and Developerworks

For more information, see the Guardium V10.1 articles on IBM Developerworks:

<https://www.ibm.com/developerworks/community/groups/service/html/communityview?communityUuid=432a9382-b250-4e55-98d7-8e9ee6cbf90e>

IBM Security Learning Academy

See securitylearningacademy.com for further Guardium-related information.

ibm.biz/academy_datasec

IBM Data Security on the Security Learning Academy

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