

DIAGNOSTICS®



In control

Release Notes

Version 2.7.0

This document contains a description of all changes (enhancements, bug fixes etc.) in version 2.7.0



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1 Release Notes

This document contains a description of changes between subsequent versions of *Diagnostics*.

The current version of *Diagnostics* is 2.7.0.

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1.1 Version 2.7.0

This release is tested for compatibility with Smallworld 5.3.3 and embeds the latest external libraries including Splunk 9.2.1.

Customers upgrading from an earlier version of *Diagnostics* are advised to follow the instructions in the *Diagnostics* upgrade manual, specifically because there are additional settings to be done for Splunk.

The full list of major changes can be found here:

[Issue list 2.7](#)^[6]

1.1.1 Issue list 2.7

Item	Type
Release Notes	
6724	Enhancement
Added an automatic restart mechanism for the Diagnostics Collector service after an OS reboot on Linux.	
6728	Enhancement
Enhanced the performance of the Datastore growth monitor dashboard to greater efficiency.	
6869	Enhancement
The Datastore growth monitor now also reports on working top.	
6923	New Feature
Added a new dashboard called Swmfs latency assessment.	
6941	New Feature
Added a new tracker for the swmfs_test.	
6946	New Feature
Added a login screen app.	
6973	Bug Fix
Prevented an index out of bounds error.	

6978	Enhancement
Added the possibility to restrict the set of datasets reported by the Datastore growth monitor.	
6987	Bug Fix
Prevented incomplete events when tracking the Kubernetes cluster logs.	
6991	Documentation
Updated the upgrade manual to include checking on the key value store.	
6994	Enhancement
Added a method that applies custom functions if Diagnostics is started before all modules are loaded.	
7033	Compatibility
Upgraded external components to their latest version and updated code accordingly. For a list of currently included components see the 'Third party licence agreements' section.	
7034	Enhancement
Enhanced the RPM installer for the Diagnostics Collector to ensure the creation of all necessary directories.	
7035	Enhancement
Improved the way to extract the inputs app.	

1.2 Version 2.6.1

This version contains bug fixes, compatibility tests and enhancements.

Item	Type
Release Notes	
6757	Bug Fix
Prevent FileSystemException error in the Collector	
6787	Enhancement
Included the latest licence mechanism	
6901	Enhancement
Allow to confire alert maintenance window	
6913	Compatibility
Tested for compatibility with Smallworld 5.2.10	
6934	Compatibility
Tested for compatibility with Smallworld 5.3.3	

1.3 Version 2.6.0

This release is tested for compatibility with Smallworld 5.3.2 and embeds the latest external libraries including Splunk 9.1.1. Existing *Diagnostics* customers running on Smallworld 4 may notice a decrease in map action duration reported on the dashboards after installing this version because of an included bug fix.

Version 2.6.0 also includes all enhancements and bug fixes from the *Diagnostics 2.5.x* releases up until 2.5.3. Customers upgrading from an earlier version of *Diagnostics* are advised to follow the instructions in the *Diagnostics* upgrade manual, specifically because there are additional settings to be done for Splunk.

The full list of major changes can be found here:

[Issue list 2.6](#)

1.3.1 Issue list 2.6

Item	Type
Release Notes	
6607	Documentation
Removed the section for upgrade from Diagnostics version 1 from the upgrade manual.	
6630	Compatibility
Added compatibility for Splunk Cloud Platform by addressing failures reported by the Splunk appinspect cloud vetting tool.	
6643	Breaking Change
No longer add the time taken by a of spawned (render) thread to the duration of rwa_map_action events on Smallworld 4 as that could incorporate other threads too, leading to false high values recorded into the duration field.	
6760	Compatibility
Upgraded external components to their latest version and updated code accordingly; removed obsolete external Java libraries commons-cli, commons-lang, and jaxb-core; added netty-transport-native-unix-common. For a list of currently included components see the 'Third party licence agreements' section.	
6771	Compatibility
Tested for compatibility with Smallworld 5.3.2.	
6841	Enhancement
Made sure that .events and .log files created by the Linux Collector are readable without being root by applying umask 0022 to the process started by Jsvc.	
6849	Enhancement
Moved the dynamically populated part of the User-defined dashboards menu to the bottom to avoid misclicks on the static menu entries.	
6859	Bug Fix
Fixed a bug where activated alerts did not show the full index name, preventing them from being deactivated.	

1.4 Version 2.5.3

This version contains bug fixes and enhancements.

Item	Type
<hr/>	
Release Notes	
<hr/>	
6511	Bug Fix
Fixed a formatting error when inspecting specific internal Diagnostics exemplars on the prompt.	
<hr/>	
6610	Enhancement
Lay out the 'Triggered alerts' dashboard with tabs, like the 'Alert configuration' dashboard.	
<hr/>	
6657	Enhancement
Allow to drill down on errors from the 'Most used functions and editors' dashboard.	
<hr/>	
6697	Bug Fix
Fixed a race condition resulting in a does_not_understand error in method cost_object_for().	
<hr/>	
6706	Bug Fix
Fixed an edge case where specific event content could cause the event to appear on the wrong date in the timeline.	
<hr/>	
6709	Enhancement
Allow to drill down on the calendar on 'Session capture summary' before it is fully loaded.	
<hr/>	
6718	Bug Fix
Prevented an error when editing an object through the visual_framework in a specific scenario.	
<hr/>	
6725	Bug Fix
The 'JVM statistics' dashboard would show any triggered alert for the session, now it only shows JVM alerts.	

1.5 Version 2.5.2

This version contains the latest licence mechanism.

Item	Type
<hr/>	
Release Notes	
<hr/>	
6601	Enhancement
Included the latest licence mechanism.	

1.6 Version 2.5.1

This version contains changes to be compatible with Smallworld 5.3.0.

Item	Type
<hr/>	
Release Notes	
<hr/>	
6509	Compatibility
Updated Diagnostics integration for GSS to allow new db_spec_name parameter.	

6518	Enhancement
Made sure the Diagnostics wrappers are not reported as false positives by the Infraction Checker.	
6540	Enhancement
Amended Collector logging with IP address of tracker connections, as well as request header details if an HTTP 500 internal server error occurs.	
6542	Compatibility
Updated /logs endpoint on Collector to allow Fluent Bit in Kubernetes to HTTP POST multiple json log batches without opening a new TCP connection.	
6555	Compatibility
Configured set of existing Diagnostics integration modules to be applied to Smallworld 5.3 (same as for 5.2).	
6557	Compatibility
Added support for monitoring Smallworld 5.3.	
6575	Bug Fix
Split a Diagnostics wrapper into an extra integration module to prevent a potential issue.	
6579	Bug Fix
Prevented a potential issue with a Diagnostics wrapper.	
6585	Documentation
Added the required Splunk installers to the list of 3rd party products.	

1.7 Version 2.5.0

This release adds new features and enhancements making the data in *Diagnostics* even more accessible.

The full list of major changes can be found here:

[Issue list 2.5](#) 

1.7.1 Issue list 2.5

Item	Type
Release Notes	
6273	New Feature
Added a speaker icon to the right top of all dashboards to show the latest online Diagnostics news.	
6275	Enhancement
Added a timestamp field to the usr_session and auth_group events to record the exact starting time of Smallworld sessions.	
6311	Enhancement
The 'Session capture summary' dashboard now also shows the exact time at which a session was started, where it would previously only show the day.	

6363 New Feature
Added a bell icon to the right top of all dashboards to show recently triggered alerts.

6417 New Feature
Added an alert to notify about upcoming datastore depletion in the coming 90 days, accompanying the already existing 'Datastore growth monitor' dashboard from release 2.4.

6425 Enhancement
Rewrote the logging implementation of Diagnostics' Java components by replacing Log4j with a lightweight logging backend behind the SLF4J API.

1.8 Version 2.4.2

This version contains bug fixes, an enhancement, and documentation refinements.

Item	Type
<hr/> Release Notes	
<hr/>	
6284	Bug Fix
Consistently apply alert email subjects, so now all alerts start with 'Diagnostics alert: ' and mention the applicable index indicating the Smallworld environment to which the alert applies (except for the 'Licence volume limit' alert which always applies to the data volume collected for all indexes combined).	
<hr/>	
6305	Documentation
Documented the ROOS Licencing Error for which the T&A Quick Install now refers to the licence manager guide.	
<hr/>	
6313	Documentation
Advice to stop splunkd before running the Splunk installer during an upgrade.	
<hr/>	
6314	Documentation
Clarified the location of Splunk SSL configuration settings in the documentation.	
<hr/>	
6322	Documentation
Documented the solution for Archiver SSL errors CertificateException and SunCertPathBuilderException.	
<hr/>	
6324	Bug Fix
Prevent an error while loading Diagnostics when version 2 of magik_gui_components is present on Smallworld version 4.3.	
<hr/>	
6347	Enhancement
Updated the dashboards 'Swmfs monitor overview', 'Swmfs list overview', 'Sw licence info' to automatically select the first database host from the dropdown and applied minor cosmetic changes in the inputs section of these dashboards for consistency.	
<hr/>	
6353	Bug Fix
Prevent machines from falsely being reported as 'Machines with inactive Diagnostics' on the 'Diagnostics finetuning' dashboard when the session was started before the selected time window.	
<hr/>	
6391	Bug Fix
Improved the efficiency of the file growth prediction search on the 'Datastore growth monitor' dashboard to prevent it from leaving out predictions for some files when tracking a high amount of files and alternatives (due to the internal search on the dashboard running out of memory).	

6392	Bug Fix
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Fixed 2 accuracy issues with the prediction of future file sizes on the 'Datastore growth monitor' dashboard related to adding and removing alternatives.

1.9 Version 2.4.1

This version contains bug fixes.

Item	Type
<hr/> Release Notes <hr/>	
6214	Bug Fix
Made sure that the drilldown on the 'Traceback analysis' dashboard also works when clicking on a condition with a ! in its name.	
6261	Bug Fix
Fixed an error in the calendar timechart and treemap visualizations that only occurred when those visualizations were used in the 'Search' view.	
6277	Bug Fix
Prevented Java WeakHashMap operations from entering an endless loop by synchronizing accessor methods.	

1.10 Version 2.4.0

This release adds major features requested by current *Diagnostics* customers. New use cases, new menus, new alerts, new dashboards, a new visualization, and even the first predictive dashboard are all included in this release.

The full list of major changes can be found here:

[Issue list 2.4](#) 

1.10.1 Issue list 2.4

Item	Type
<hr/> Release Notes <hr/>	
1700	New Feature
Added tracking for pop-up questions and notifications.	
5659	New Feature
Added an alert for crash detection.	
5816	New Feature
Added a connected scatter plot visualization and improved the dashboards 'Application details', 'Application usage', and 'Swmfs list overview' by applying this new visualization.	
5865	New Feature
Added an alert to notify about upcoming Smallworld licence expiration.	
5891	Enhancement
Improved the readability of the Replay user clicks dashboard by adding a preconfigured action filter.	

5906	New Feature
Added the 'Diagnostics dashboard usage' dashboard to learn about dashboard usage and performance.	
5945	New Feature
Added the 'Crash detector' dashboard to list Smallworld sessions that were not closed properly.	
6012	Documentation
Documented error messages related to proxy issues or misconfiguration.	
6044	Enhancement
Added a filter option to the 'Most used functions and editors' dashboard.	
6067	New Feature
Added the 'Datastore growth monitor' dashboard to monitor and predict datastore file sizes and impending 'Disk Full' errors by analysing alternatives and superfile limits.	
6091	Bug Fix
Updated tabs.js to fix a visualization bug.	
6098	New Feature
Added the ability to feed the Diagnostics events to a second system as JSON objects in real-time.	
6127	Documentation
Added documentation section 'Secure communications with SSL' with detailed steps to install and validate SSL certificates to secure Archiver, Collector, and Presentation communications.	
6212	New Feature
Added an alert for approaching the Smallworld licence quota.	
6221	Enhancement
Changed the index selector into a dropdown to occupy less space on the dashboards.	
6223	Enhancement
Added a separate 'Alerts' menu for viewing and configuring alerts.	
6256	Enhancement
Make sure that the 'User-defined dashboards' list only shows views created in Diagnostics.	

1.11 Version 2.3.4

This version contains bug fixes, an enhancement and a documentation update.

Item	Type
<i>Release Notes</i>	
6010	Bug Fix
Fixed visualization issues related to timezone differences between the Splunk server and the client web browser.	
6024	Bug Fix

Fixed custom functions defined through diagnostics_config.xml that were not applied correctly when Diagnostics was started while being in the sw package.

6034	Enhancement
Included the latest licence mechanism.	

6109	Documentation
Extended the documentation of archiver error messages for proxy and other edge cases, and produce a specific error for URL misconfiguration.	

6114	Bug Fix
Fixed a drilldown on the Replay user clicks dashboard to carry over correct filters in all situations.	

1.12 Version 2.3.3

This version contains a bug fix.

Item	Type
Release Notes	

5993	Bug Fix
Fixed an error in the build resulting in an incomplete libs folder.	

1.13 Version 2.3.2

This version contains a bug fix and documentation updates.

Item	Type
Release Notes	

5864	Bug Fix
Avoid an error when editing an object through the visual_framework before Smallworld 4.3.	

5930	Documentation
Included the 3rd party libraries in the release notes.	

5933	Bug Fix
Avoid an error when anonymizing empty fields.	

5961	Documentation
Amended a solution to the error messages described in the documentation.	

1.14 Version 2.3.1

This version contains bug fixes, an enhancement, a documentation update and a new feature.

Item	Type
Release Notes	

5774	Documentation
Added instructions on how to keep the configuration files outside of a Docker image.	

5782	Bug Fix
Fixed the listing of the indexes the on configuration dashboards.	

5784	Bug Fix
Fixed the drilldown links on the Performance dashboard to carry over all filters.	
5809	Bug Fix
Avoid an error when retrieving an URN when doing a replica.	
5821	Enhancement
Added support for the use of environment variables in all configuration settings.	
5830	Feature
Added the possibility to populate a second Splunk instance with anonymized events.	
5839	Bug Fix
Fixed an invalid token on the Traceback analysis dashboard that resulted in error messages.	

1.15 Version 2.3.0

This release adds major features requested by current *Diagnostics* customers. New use cases, new events, new dashboards, Smallworld logging framework support on Kubernetes, and many improvements are included in the out-of-box product. Consistent with previous releases, the e-mail alerting capabilities have once again been extended.

The full list of major changes can be found here:

[Issue list 2.3](#) ¹⁵

1.15.1 Issue list 2.3

Item	Type
Release Notes	
895	New Feature
Send out a notification event when a Smallworld session is ended nicely, such that bad terminations can be deducted from the lack of said event.	
5146	Bug Fix
Prevent the creation of superfluous (J)VM statistics events when waking a Smallworld session up from hibernation.	
5482	Enhancement
Improved the tracking of conditions, now also capturing conditions that are presented to the user in a pop-up message, adding colour coding to user actions in the 'Replay user clicks' and 'Hierarchy inspector' dashboards for easier navigation.	
5490	New Feature
Track the insert/update/delete of any Smallworld object in any alternative, providing new dashboard 'Conflict investigation' to examine objects that are touched by multiple users and why.	
5524	New Feature
Added a monitoring console to define the desired application server sessions, monitor them using the new 'Sw app server states monitor' dashboard, and receive an e-mail alert when a session is down or a server is overcommitted.	

5549	New Feature
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Added integration with the Smallworld logging framework for GSS on Kubernetes, adding new dashboard 'Cluster logs' and complementing the existing 'GSS service calls' dashboard.

5552	Enhancement
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Added a bubble chart to the 'Most used functions and editors' dashboard, using the number of users to determine the colour along a linear scale.

5637	Enhancement
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Updated the 'Diagnostics finetuning' dashboard to filter by sourcetype upon drilldown.

5666	Enhancement
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Added a tooltip to the 'Apply previous filter' button that describes the previous filter before clicking.

5763	Enhancement
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Increased the capacity of event fields to avoid truncating longer string values.

1.16 Version 2.2.2

This version contains bug fixes and documentation updates.

Item	Type
<i>Release Notes</i>	
<hr/>	
5657	Documentation
Fixed some minor spelling mistakes in the application and documentation.	
<hr/>	
5661	Bug Fix
Resolved an internal JavaScript error that occurred on some dashboards but did not disrupt functionality.	
<hr/>	
5682	Bug Fix
List the number of all errors, warnings, informations on dashboard 'Traceback analysis' instead of only the top 10.	
<hr/>	
5691	Bug Fix
Avoid producing negative values on dashboard 'Dataset usage' in specific scenarios.	
<hr/>	
5695	Documentation
Added an upgrade guide for updating from a previous 2.x.x version.	
<hr/>	
5696	Bug Fix
Eliminate the 500k event limit for results on some dashboards.	

1.17 Version 2.2.1

This version contains bug fixes and enhancements.

Item	Type
<i>Release Notes</i>	
<hr/>	
5460	Bug Fix

Where needed the search commands first and last have been changed to latest and earliest to prevent inconsistent search results on search clusters.

5499 Bug Fix
The error managed_value_text_item and processed_text_item is a conflict method does not occur anymore for specific user interface elements.

5508 Enhancement
Avoid 2 unset globals when loading Diagnostics on Smallworld 4.

5516 Bug Fix
Fixed the 'Apply previous filter' button on dashboards with a session_id dropdown list.

5520 Enhancement
Performance improvement of the search that lists the sessions on the session_capture_summary dashboard.

5530 Documentation
Added steps in documentation to debug SMTP settings in Splunk.

5531 Documentation
Clarified the determination of the ingested data volume calculation in the documentation.

5593 Bug Fix
Allow the diagnostics scheduler to recover from a thread sleep issue, and prevent it from throwing errors.

5596 Enhancement
Improvement of the logging when the ArchiverAcp receives an error.

5606 Enhancement
Performance improvement of the searches on the dashboards: Application usage, Ds cost, Performance dashboard and the Hierarchy inspector.

5610 Bug Fix
Avoid creating an endless loop when reintegrating with a patch that is actually a user-defined wrapper method.

1.18 Version 2.2.0

The focus of this release is on monitoring, providing an accessible new interface to *Diagnostics* alerting capabilities. Predefined alerts can be activated with a few clicks to signal and report common fault situations. Raised alerts can be found on the dashboards together with the data that triggered them. Alerts can also be sent directly via e-mail to make it easy to become proactive and get ahead of problems.

Diagnostics has further been extended on the visual level with the new Treemap visualization. It is a rich visualization to show a detailed breakdown of complex metrics. This visualization is first introduced on the SWMFS monitor overview dashboard. The interactive chart allows for convenient data drilldown to assist analysis.

The full list of major changes can be found here:

[Issue list 2.2](#) ¹⁸

1.18.1 Issue list 2.2

Item	Type
Release Notes	
5148	New Feature
Added a Treemap visualization and used it on the SWMFS list overview dashboard, making improvements for consistency to other existing visualizations as well.	
5164	Enhancement
Minor documentation updates to reduce the depth of the table of contents.	
5212	Bug Fix
Addressed some inconsequential configuration warnings raised during Splunk startup.	
5214	New Feature
Introduced the alerting dashboards to signal and report common fault situations by creating events and sending emails, starting with 3 standard alerts.	
5256	Enhancement
Allowed Diagnostics to track Magik code added to the session after loading Diagnostics.	
5274	Enhancement
Refactored Magik VM statistics gathering into separate integration module.	
5316	Enhancement
Removed external libraries and code for legacy RDBMS support (Diagnostics 1.x).	
5346	Enhancement
Changed the default time ranges on some dashboards for consistency.	
5377	Enhancement
Updated external libraries including D3 and Netty.	

1.19 Version 2.1.3

This version contains a bug fix.

Item	Type
Release Notes	
5404	Bug Fix
Represent the contents of obfuscated user input fields, such as password fields, with *** to omit the actual input from the Diagnostics event and also not reveal the number of characters in the input.	

1.20 Version 2.1.2

This version contains bug fixes and an enhancement.

Item	Type
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Release Notes

5294 Bug Fix
Avoid an error when a record transaction is performed on a dataset that does not provide alternative or name.

5311 Bug Fix
Updated the calendar timechart visualization to work in Internet Explorer 11.

5314 Enhancement
Improved the map visualization on the dashboards so they now centre on the location of the first found record. Also made it possible to zoom in and out with scrolling.

5315 Bug Fix
Updated 2 configuration files in the diagnostics_incontrol app to comply with standards.

1.21 Version 2.1.1

This version contains bug fixes and an enhancement.

Item	Type
<hr/> Release Notes	
5147	Documentation
Updated all dashboard descriptions and screenshots in the documentation to match the 2.1.1 diagnostics_incontrol app.	
5152	Bug Fix
Added macro 'index_pattern' to restrict the number of indexes shown on the dashboards for Splunk power users. Also deduplicated the list for customers using a Splunk indexer cluster.	
5273	Bug Fix
Added an error message for the case where the https:// protocol specification is omitted from the url tag in archive_connection.xml instead of showing a NullPointerException.	

1.22 Version 2.1.0

The focus of this release is the usability of the *Diagnostics* analysis interface. All dashboards are revisited to provide richer insights into not only new but also existing *Diagnostics* events. Dashboards have been made interactive and are chained together to make it easier to interpret and correlate events.

Event tracking has been improved as well by extending tracking for database record transactions and increasing custom tracking capabilities.

The full list of major changes can be found here:

[Issue list 2.1](#) ²⁰

1.22.1 Issue list 2.1

Item	Type
Release Notes	
671	Enhancement
The SWMFS monitor dashboard now allows to consult statistics from multiple Smallworld production databases.	
3562	Enhancement
Alternative path and uniform resource name (URN) are now tracked for database record transactions.	
4204	Enhancement
The capacity of the rwa_custom_function fields info_before and info_after has been increased to allow for even richer customizations.	
4654	New Feature
A button 'Apply Previous Filter' was added to dashboards to easily carry over the time, index, session, location, department, machine filters entered on the previously visited dashboard.	
4780	Enhancement
Replaced the 'GSS monitoring' dashboard with the new 'GSS service calls' dashboard that provides insights into service call load balancing, performance and more.	
4855	New Feature
An overview of Smallworld sessions that are not yet tracked with Diagnostics is added to the 'Diagnostics finetuning' dashboard to ease installation.	
4882	Enhancement
Tracking of database record changes has been reworked to cover additional Magik interfaces such as dataset_transaction and custom_record_transaction. As transactions are now tracked at a lower code level it is possible that the recorded transaction duration is slightly lower compared to the previous version.	
4884	Enhancement
Custom integration modules are now supposed to explicitly list the Smallworld modules for which they provide tracking through their module.def. Implicit target declarations through the integration module folder name are still supported for backwards compatibility and will trigger a warning when the integration module is loaded.	
4896	Enhancement
The Splunk custom visualization API is now used for the bubble chart on the 'Ds cost' dashboard to allow for user interaction by clicking on the bubbles.	
4903	New Feature
A Calendar visualization is added to the dashboard 'Session capture summary'.	
4935	Enhancement
All dashboards have been enhanced for usability. Clicking on a dashboard chart will no longer show the raw events, but will rather present a new graph or open another dashboard showing a higher level of detail. Timelines on dashboards are now interactive and allow to zoom in to take a closer look. Dashboards 'Regional Performance' and 'Geographic activity' have been removed or integrated into other dashboards respectively.	
5099	Bug Fix

The Collector now runs on Java 11 in addition to Java 8.

1.23 Version 2.0.2

This version contains bug fixes, enhancements, new features, and is tested for compatibility with Smallworld 5.2.0.

Item	Type
Release Notes	
4707	Bug Fix
StressTest tool would not report all errors properly.	
4715	Enhancement
Collector service can be upgraded from earlier 2.0.x version by running latest installer.	
4789	Enhancement
Hide the indexer app in the Splunk user interface because it is internal.	
4791	Documentation
The documentation has been updated, including system requirements documents, scaling advice, extra deployment troubleshooting tips.	
4815	Enhancement
Improved error handling on Collector server when HTTP header verification fails.	
4852	Enhancement
List of indexes on dashboards is now sorted alphabetically.	
4858	Enhancement
The Collector will partition event files for Splunk so that no batch contains 100k events or more.	
4860	New Feature
Make the JVM monitor compatible with Java 11.	
4867	New Feature
Allow the use of environment variables as part of the location and department settings in <code>diagnostics_config.xml</code> .	
4869	Bug Fix
Collector service on Windows no longer stalls when requested to stop.	
4876	Enhancement
List of indexes on dashboards now appears more quickly.	
4877	Enhancement
Not specifying a port number in <code>archive_connection.xml</code> now assumes default port 443.	
4937	Bug Fix
Allow to activate a custom function event for a method that is currently executing.	
4944	Bug Fix
Do not create <code>ds_logical_file</code> events when a dataset pool is in use.	

4945 New Feature
Tested for compatibility with Smallworld 5.2.0.

4963 Bug Fix
Unable to define a custom function on a mixin method due to validation problem.

1.24 Version 2.0.1

This version contains bug fixes and an enhancement.

Item	Type
Release Notes	
4617	Bug Fix
Defining a custom function on a method with a question mark in its name would produce an error.	
4628	Bug Fix
If the connection to the Collector server was lost while shutting down the Smallworld session, the quit process would stall.	
4629	Enhancement
Simplified the use of setting <code>ssl_certificate_file</code> in <code>archive_connection.xml</code> by supporting relative paths and environment variable substitution, now expecting the certificate file to be located in the same folder as the <code>archive_connection.xml</code> itself by default.	
4682	Bug Fix
Removed the initial and maximum size of the Java heap of the Diagnostics Collector service running on Windows.	

1.25 Version 2.0.0

The *Collector* service was introduced to eliminate the need for an intermediate Oracle or MySQL database and to make it possible to run the *Diagnostics Collector* service over the Internet for cloud installations. Full on premise installations will benefit from the same *Collector* service on local networks.

It is no longer needed to create a data model from this release onwards as the intermediate Oracle or MySQL database is removed from the design. The *Diagnostics* data model is automatically applied to incoming events by the *Collector* service before sending them into Splunk.

The issue list containing all major changes can be found here:

[Issue list 2.0](#) ²²

1.25.1 Issue list 2.0

Item	Type
Release Notes	
3950	New Feature

Introduced the Collector service to eliminate the need for an intermediate Oracle or MySQL database and add support for running Diagnostics in the cloud. The Splunk Feeder service and Oracle or MySQL database are no longer needed after upgrading to this release. Instead a server is needed to run the Collector service (1 per Smallworld environment). More information can be found in the documentation.

4280	Enhancement
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Made it easier to filter and select user sessions on a time range on dashboards with a user session selection box.

4558	Bug
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JVM monitor on Smallworld 5 would produce a NullPointerException if running on a system with only 1 CPU.

4588	New Feature
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Tested for compatibility with Smallworld 5.1.8 (omit product.ser from now on to remain compatible with earlier 5.1.x versions).

1.26 Version 1.5.2

This version contains bug fixes and enhancements.

Item	Type
Release Notes	
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1620	Enhancement
Introduced more efficient queries to clean data from the intermediate relational database. The speed improvement is particularly noticeable on large MySQL databases.	
<hr/>	
4129	Bug Fix
Bad events created for user actions in the Version Management dialog could cause the application to freeze temporarily.	
<hr/>	
4386	Enhancement
Reduced the default value of minimum_queue_retention to 0 to keep the size of the intermediate database to a minimum.	
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4569	Bug Fix
Events of type rwa_file_io could cause Diagnostics to stop tracking if the recorded filename was too long.	

1.27 Version 1.5.1

This version contains bug fixes and minor changes, as well as one new feature.

Item	Type
Release Notes	
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3689	New Feature
Introduced value 'error' for configuration option 'record_traceback_on_condition' to record the full traceback only for error conditions, as a refinement to the possibility to track it for all or no conditions.	
<hr/>	
3932	Enhancement
Tracking of user group membership no longer requires elevated rights.	
<hr/>	

3938 Bug Fix
 The Splunk Feeder service will always leave at least one record in each MySQL table when cleaning to prevent MySQL from resetting the id generator after a database restart. This does not apply to Oracle.

3942 Bug Fix
 CST 5 GUI components like the SWIFT map will be ignored if they are already present in Smallworld 4.3.

3986 Documentation
 Described the use of '--action check' to validate Diagnostics data capture.

3992 Bug Fix
 Events of type rwa_geom_select could not be created in specific scenario's.

1.28 Version 1.5.0

This version contains the following functional changes:

- Added support for tracking Smallworld 5.1 sessions
- Extended and improved monitoring
- Easier installation and configuration
- And more

Version 1.5 contains data model changes. Both sides of *Diagnostics* must be updated by running the installers to upgrade *Diagnostics*. This includes the tracker and archiver on one end to generate events from Smallworld sessions, and Splunk and the presentation installer on the other end to analyze and present the data gathered.

The issue list containing all major changes can be found here:

[Issue list 1.5](#) ^[24]

1.28.1 Issue list 1.5

Item	Type
<hr/> Release Notes	
3559	Enhancement
It is no longer possible to install the track and archive Smallworld product twice to avoid confusion.	
3568	Enhancement
Added support for 4-byte UTF-8 characters in MySQL.	
3591	Enhancement
Added field UI dialog to the UI action events to indicate in which dialog a user action was performed. This new field is added to existing dashboard 'Replay user clicks' and is used in new chart 'Top 25 most actively used dialogs' on the 'Application usage' dashboard.	
3605	New Feature

Added a command to the Diagnostics support tool to verify data capturing during trials.

3639 New Feature
 Added commands to identify the path to the Diagnostics configuration files on the Magik prompt.

3652 Enhancement
 Moved configuration setting jre_xmx from glue.magik into diagnostics_config.xml to avoid image rebuild after changing the value. Existing installations specifying a different value for jre_xmx through a glue.magik must now use the diagnostics_config.xml instead.

3707 Enhancement
 Field image_name on usr_session has been renamed to session_name.

3741 Enhancement
 The duration of UI actions no longer accounts for spawned threads to avoid false positives leading to erroneous conclusions.

3793 New Feature
 Added support for monitoring Smallworld 5.1 sessions with Diagnostics including JVM statistics.

3800 New Feature
 Facilitate starting Diagnostics with a startup procedure instead of an application plugin to capture more events on Smallworld session startup. All existing customers are encouraged to use this new installation procedure.

3801 New Feature
 Upgraded to Splunk 6.5.2 and made some dashboards updates.

3802 New Feature
 Expanded support for MySQL up to version 5.6.

3894 Bug Fix
 Windows Presentation installer now creates Temp directory.

1.29 Version 1.4.1

This version contains bug fixes and minor changes, as well as one new feature.

Item	Type	Affected Versions	Components	Status	Datamodel change?
Title					
Release Notes					
Diag-17390	Bug	1.4.0	Archiver	Closed	False
Archiver uses 2 database connections instead of 1					
Each archiver ACP now uses 1 database connection instead of 2					
Diag-17737	Bug	1.4.0	Tracker	Closed	False
Smallworld licence does not need to have an end date					
Smallworld licence monitor can detect licence without an end date					
Diag-17753	Bug	1.4.0	Configuration	Closed	False
rwc_ds_cost does not work in ignore_types					

The configuration now allows to ignore events of type rwc_ds_cost

Diag-17904	Change request	Tracker	Closed	False
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Extract DS logical file details on CST 410
 Events of type rwr_ds_access can now be generated on Smallworld 4.1

Diag-17907	Change Request	Configuration	Closed	False
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Ignore geom_select in default config
 Event type rwa_geom_select is ignored by default due to low information value

Diag-17924	Bug	1.4.0	Feeder	Closed	False
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Prevent mode manager from disabling both modes
 Splunk Feeder service no longer blocks if initial cleaning iteration takes more than 15 minutes

Diag-17976	New Feature	Configuration, Integrations	Closed	False
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Undo integration for integration modules that generate a configured ignore_type
 The setting unregister_if_ignored was added to revert integration for events specified in the ignore_types to increase efficiency for tracking server sessions

Diag-18069	Change Request	Presentation	Closed	False
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Do not specify index name in SPL searches
 Removed the restriction for using the "main" Splunk index for storing Diagnostics events

1.30 Version 1.4.0

In this version the product is renamed from Realworld Diagnostics to Diagnostics.

Functional changes:

- Introduced the cleaning mode of the Splunk Feeder service to reuse storage of the Archive database (Oracle/MySQL)
- Extended and improved monitoring
- And more

No datamodel changes were applied in version 1.4 so it is compatible with version 1.3. This means that it is possible to keep running the 1.3 Track and Archive modules to generate events, whilst already using the 1.4 Analyse and Present modules to process the events. This way one can immediately benefit from the visualization improvements and the added feature for cleaning up the Archive, and install the Smallworld part of Diagnostics during the regular customer release cycle.

i Please note that the cleaning future requires additional indices on the Archive database. The Diagnostics datamodel creation tool will add these automatically when performing **--action migrate** on an existing Diagnostics datamodel.

The issue list containing all bug fixes and enhancements can be found here:

[Issue list 1.4](#) ²⁷

1.30.1 Issue list 1.4

Item	Type	Affected Versions	Components	Status	Datamodel change?
Title					
Release Notes					
Diag-14987	Enhancement	1.3.1	Visualisation	Closed	False
Real-time data capturing presentation is confusing					
Turned the user chart (bottom chart) into a stacked bar chart.					
Diag-15026	Enhancement	1.3.0	Feeder	Closed	False
Error unable to rollback when unable to find database					
Splunk Feeder service now suppresses stacktraces for consecutive request handling failures (for example in case of lost Archive database connection) to avoid flooding its log file.					
Diag-15191	Change Request	1.3.0	Tracker	Closed	False
Do not use global for <code>_lock</code>					
Avoid unnecessary declaration of global <code>roos_tracked_action.latest_parenting_id</code> .					
Diag-15197	Bug	1.3.0	Presentation	Closed	False
Update list of sourcetypes on Tracked info details dashboard					
Not all sourcetypes could be selected on dashboard Tracked info details.					
Diag-15505	Enhancement	1.3.1	Core	Closed	False
SwMonitor.jar hangs when Oracle does not accept connections					
Improved error handling for non-responsive Oracle database in Diagnostics Smallworld monitor jobs.					
Diag-15516	Enhancement		Documentation	Closed	False
Minor documentation enhancements 1.4					
Minor improvements were made to the documentation.					
Diag-15529	New Feature		Feeder	Closed	False
Free up archive database once indexed					
Periodically free up space in the Archive database to keep it small (Splunk Feeder service - cleaning mode).					
Diag-16383	Bug	1.3.1	Tracker	Closed	False
Smallworld Monitor raises unknown error too often					
The Diagnostics Smallworld monitors (such as swmfs monitor) report an error if the configuration is incorrect. Error code 1 (indicating unknown cause) was sometimes produced when a more specific exit code was applicable. This is fixed, and feedback from the monitor is improved.					
Diag-16430	Information		Requirements, Marketing and Sales	Closed	False

Apply the new Diagnostics branding
 The new style of Diagnostics branding was introduced.

Diag-16712	Bug	1.3.1	Archiver	Closed	False
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Archiver stops due to Java heap space error
 Allow the archiver ACP process to use 5 MB more RAM if necessary.

Diag-16716	Information			Closed	False
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Upgrade Splunk to patch release 6.2.4
 Splunk was upgraded to version 6.2.4.

Diag-16805	New Feature		Tracker	Closed	False
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Add support for generating editor_request events on SW 4.2 classic
 Added support for generating rwa_editor_request events on the classic user interface (GRS).

Diag-16812	Change Request	1.3.1	Configuration	Closed	False
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Windows script files (.bat) should use Windows line endings
 Some .bat files did not have Windows style line endings.

Diag-16822	Bug	1.3.1	Archiver	Closed	False
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Oracle does not accept long traceback values
 Archiver Java ACP could stop due to an Oracle error (ORA-01461) when inserting a condition event with a long traceback value (big stack) into an Oracle Archive.

Diag-16846	Bug	1.3.1	Tracker	Closed	False
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Lat/Lon in rwa_db_transaction is affected by application coordinate system
 The lat/lon location of record transaction events could be affected by application settings. This is now independent of the current world and coordinate system. It will only be available for geographic worlds using the WGS 84 coordinate system (CS) as the root for their own CS.

1.31 Version 1.3.1

This version contains packaging enhancements and a bugfix.

Item	Type	Affected Versions	Components	Status	Datamodel change?
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Title
 Release Notes

RwDiag-15278	Enhancement		Packaging and delivery	Closed	False
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Make separate Diagnostics distributions for both Oracle and MySQL
 Distribute Diagnostics in 2 editions, so there is no longer a need to separately distribute the database connector (MySQL or Oracle). Diagnostics 1.3.0 by default contained the Oracle connector. Since 1.3.1, the name of the edition (Oracle or MySQL) indicates the included connector. Both editions are functionally identical.

RwDiag-15289	Enhancement		Packaging and delivery	Closed	False
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Include in distribution Splunk installer for Red Hat
 Include Splunk installer for Red Hat in distribution.

RwDiag-15291	Bug	1.3.0	Archiver	Closed	False
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Error code 4 when starting archiver ACP directly from UNC path
 Added compatibility for starting the Diagnostics archiver ACP directly from a UNC path.

RwDiag-15331	Information		Core	Closed	False
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Include latest Realworld licensing mechanism
 The Realworld licensing mechanism has been updated to the latest version.

1.32 Version 1.3.0

In this version the product is renamed from Realworld Analytics to Realworld Diagnostics.

Functional changes:

- Added support for MySQL
- Added support for Linux (Red Hat)
- Improved Splunk Feeder efficiency
- Added/updated dashboards
- Improved monitoring
- And more

The issue list containing all bug fixes and enhancements can be found here:

[Issuelist 1.3](#) ²⁹

1.32.1 Issue list 1.3

Item	Type	Affected Versions	Components	Status	Datamodel Change
Title					
Release Notes					
RwDiag-10383	Enhancement		Archiver	Closed	False
Include option not to store a certain action Allow to configure certain action types that do not need to be tracked (for use in alternative configuration when monitoring batch servers)					
RwDiag-12426	Enhancement		Tracker, Presentation	Closed	True
Replace rwr_appl_state with new sourcetype that inherits from tracked action (rwa_*)					

Added monitoring of applications, identifying which applications are used by how many users, how long they take to start, if there are errors starting them, and more. Dashboard Application details has been added to visualize these actions.

RwDiag-13959	Bug	1.2.0	Documentation	Closed	False
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CHM file link to release notes is invalid
Corrected link to release notes from Diagnostics Smallworld help file

RwDiag-13975	New Feature		Presentation, Tracker	Closed	False
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Add support for running the Presentation module on Linux
Added support for running the analysis server (Splunk and Splunk Feeder) on Red Hat Enterprise Linux (RHEL), as an alternative to Windows Server. This includes the possibility of running the Smallworld Monitor on RHEL.

RwDiag-13978	Enhancement		Feeder	Closed	False
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Redesign the SplunkFeeder for more efficient operation
Turned the Splunk Feeder into a service (instead of frequently starting and stopping stand alone feeders), to allow better management of the feeding process and its required resources (the JVM and database connections are now reused)

RwDiag-14033	Bug	1.2.0	Presentation	Closed	False
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Splunk may mistake IP-address for a date
Splunk sometimes interpreted the IP-address as the date

RwDiag-14104	New Feature		Archiver	Closed	True
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Add MySQL support
Added support for running the Archive database on MySQL, as an alternative to Oracle

RwDiag-14117	New Feature		Archiver	Closed	False
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Implement new Archive design
Introduced Liquibase and Hibernate to respectively maintain and use the Archive datamodel

RwDiag-14126	New Feature		Archiver	Closed	False
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Replace create scripts
Introduced a command line tool to create, upgrade, or destroy the Archive datamodel

RwDiag-14142	Bug		Visualisation	Closed	False
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Dashboard performance comparison shows charts spanning 2 weeks
Fixed incorrect time axis on dashboard Performance comparison

RwDiag-14144	Bug		Presentation	Closed	False
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The Diagnostics logo is too big on some dashboards in IE9 and 10
 Diagnostics logo sometimes was too big on dashboards in IE9 and IE10

RwDiag-14145	Change Request	1.2.0	Presentation	Closed	False
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Dashboard licence usage shows ambiguous information
 Redesigned the Licence usage dashboard, by changing the visualization of the licence quota, and showing charts for different preset time ranges

RwDiag-14371	Enhancement		Archiver	Closed	False
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Clarify message on prompt when archiverAcp loses communication with Magik proces
 Produce special message on the prompt when a Smallworld image crash is detected

RwDiag-14394	Enhancement	1.2.0	Archiver	Closed	False
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Discarded actions are named incorrectly
 Updated naming of action types in discarded actions (started with roos_, now matches name of sourcetype, rw*)

RwDiag-14414	Bug		Feeder	Closed	False
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Split canvas_dimensions field in rwa_map_action sourcetype
 Split property canvas_dimensions into canvas_width and canvas_height

RwDiag-14416	Bug		Archiver	Closed	False
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JAR does not always exit when error occurs
 The Archiver Acp would not always exit when unable to connect to Archive database

RwDiag-14565	Bug		Archiver	Closed	False
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Memory footprint of archiver Acp has increased
 The amount of required internal memory (on the Smallworld client) for running Diagnostics has increased to 70-75MB due to the memory requirements of the archiver Java Acp (no impact on cpu)

RwDiag-14586	Bug		Documentatio n	Closed	False
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Environment variable ARCHIVER_CONFIG_FILE mentioned in config file should be DIAGNOSTICS_CONFIG_FILE
 Environment variable DIAGNOSTICS_CONFIG_FILE was mentioned with wrong name in manual

RwDiag-14588	Task		Documentatio n	Closed	False
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Update manual since patent is no longer pending
 The Dutch patent is approved

RwDiag-14660	Change Request		Core	Closed	False
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Rename Analytics to Diagnostics
 Product name changed from Analytics to Diagnostics

RwDiag-14714	Enhancement		Feeder	Closed	False
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Add configurable resource management to Splunk Feeder service
 Implemented intelligent feed scheduling and configurable resource sharing in the Splunk Feeder service, including configuration of the maximum amount of concurrent connections/requests to the Archive database (defaults to 10)

1.33 Version 1.2.2

This version contains a bugfix.

Item	Type	Affected Versions	Components	Status	Datamodel change?
Title					
Release Notes					

RWANA-15078	Bug	1.2.1	Tracker	Closed	False
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Error when generating an enormous amount of conditions from 1 action
 Defended against the scenario where 1 action generates more than 1 million conditions.

1.34 Version 1.2.1

This version contains a bugfix.

Item	Type	Affected Versions	Components	Status	Datamodel change?
Title					
Release Notes					

RWANA-14376	Bug	1.2.0	Archiver	Closed	False
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NullPointerException occurs in archiverAcp
 Fixed a bug where missing view scale and nominal scale information for a map action caused Analytics to stop monitoring a session.

1.35 Version 1.2.0

In this version:

- Upgraded to Splunk 6
- Introduced a variety of new dashboards
- Renaming of tracked actions and making naming of these events consistent throughout the application
- Added support for the Smallworld side of GSS
- Refined calculation of database interaction
- And more

The issue list containing all bug fixes and enhancements can be found here:

[Issue list 1.2](#) ³³

1.35.1 Issue list 1.2

Item	Type	Affected Versions	Datamodel change?	Components	Status
Title					
Release Notes					
RWANA-9768	Requirement		False	Tracker	Internal Test Passed
Acquire also data from MMP and other batch stations Added the possibility to develop your own additional integration product through code in addition to XML configuration. A sample integration product (not loaded by default) is provided with examples for Smallworld Enterprise Gateway and the Realworld auto merge post module.					
RWANA-9802	Enhancement		False	Presentation	Closed
create map showing locations of rendering Added dashboard Geographic activity to show locations of record mutations and map inspection					
RWANA-10341	Bug		True	Tracker	Test Passed
hook for db_query should not be on dd_collection_mixin.select() Replaced db_query by ds_cost, offering both a higher coverage of DS operation types and allowing accurate per query timing					
RWANA-10659	Enhancement		False	Archiver	Closed
Include SPOOL ON and SPOOL OFF in db scripts Enabled spooling in Sql scripts					
RWANA-11420	Task	1.1, 1.1a.0	True	Archiver	Closed
Removing view informer_metadata Removed compatibility view informer_metadata. When running a 1.1a Smallworld tracker against a 1.2 archive you will get a traceback on the prompt and tracking is disabled, but no image functionality will be impacted.					
RWANA-11860	Bug	1.1	False	Tracker	Closed
run_swmfs_list_monitor.bat fails on ds_file is unreachable Fixed bug where swmfs_list was unable to retrieve database statistics					
RWANA-11861	Bug	1.1	False	Tracker	Closed
run_swlm_clerk.bat fails when an open Smallworld session exists Fixed a bug where the licence information could not be retrieved in some cases					

RWANA-11998	New Feature		True	Tracker	Internal Test Passed
Performance indicators Magik Added standard support for measuring GSS service request, service calls, and call overhead. Also notifications are sent when the GSS image starts and stops.					
RWANA-12521	Task		False	Documentatio n	Closed
Move Oracle installation forward in T&A quick install manual Reordered the installation steps for better user experience and understanding					
RWANA-12585	Task		True	Tracker	Test Passed
Store VM statistics Store Magik virtual machine statistics periodically for analyzing its progress.					
RWANA-12734	Bug	1.1a.1	False		Closed
Some ui_action events miss their common information in tracked_info Use database transactions to store information objects that span multiple tables in the Archive in order to ensure integrity.					
RWANA-12823	New Feature		False	Tracker	Closed
Introduce scheduler for period measurements Introduced a scheduler for registering periodic measurements on the tracker.					
RWANA-12849	Task		True		Closed
Add WGS84 (lat/lon) information to map_action and db_transaction actions Added WGS84 geometries to map_action and db_transaction to allow global mapping of tracked actions.					
RWANA-12866	Bug		False	Tracker	Closed
Missing dependency on simple_xml Explicated dependency on core module simple_xml					
RWANA-13060	Bug		False	Tracker	Closed
Improve threadsafety condition recording When record_traceback_on_condition is set to yes then the traceback will contain arguments regardless of the value of !traceback_show_args?!					
RWANA-13091	Change Request		False	Tracker	Closed
Wijziging Nurse icon naar Red cross Changed Nurse icon to Red cross					

RWANA-13095	Requirement	False	Presentation	Closed
Upgrade realworld_analytics app to Splunk 6 Migrated the Analyze and Present modules to Splunk 6 to unlock even more functionality.				
RWANA-13100	Task	False	Tracker	Closed
Use ProcessBuilder instead of Runtime to spawn utility processes changed to swMonitor.jar to use the ProcessBuilder instead of the Runtime to spawn command line utilities				
RWANA-13137	Task	False	Archiver	Closed
Environment variable ANALYTICS_ARCHIVE_LOCATION may also point to directory Specifying only the folder where archive_connection.xml is located is now sufficient for setting the environment variable ANALYTICS_ARCHIVE_LOCATION				
RWANA-13174	Task	False	Core	Test Passed
Revised and consistent naming of tracked types/sourcetypes Renamed the sourcetypes to be more concise and renamed the early discard types to match the new sourcetype names.				
RWANA-13257	Task	False	Tracker	Closed
Populate point field of SPLUNK_MAP_ACTION also on area interaction A map action now always has a point geometry. If necessary it is derived as the centroid of the area for example in case of box_zoom_in.				
RWANA-13436	Task	False	Presentation	Closed
Change supported Splunk version to 6.0.3 / 6.1.1 Upgraded to Splunk 6.1.1				
RWANA-13509	New Feature	False	Tracker	Test Passed
Allow functions without parentheses in custom function definitions Added tracking of custom functions without parentheses				
RWANA-13687	New Feature	False	Tracker	Test Passed
Introduce error exit codes for monitor JAR Introduced exit codes for the monitor jobs to indicate whether the monitor was run successfully.				
RWANA-13701	Bug	False	Tracker	Closed
Archiver Acp type error on vm_statistics Support for very high values in VM statistics (server class)				
RWANA-13823	New Feature	True	Archiver	Test Passed

Remove Oracle spatial data types from Archive
 Prepared the Archive for running on other databases than Oracle by removing Oracle-specific data types.

1.36 Version 1.1.0

In this version:

- The namechange of the product is finalized.
- Oracle 12c support
- New dashboard
- New tracked actions
- Altered installation steps to accommodate above changes
- And more

See the [Issue list](#) ³⁶ for all bug fixes and enhancements.

1.36.1 Issue list 1.1

Item	Type	Affected Versions	Datamodel change?	Components	Status
Title					
Release Notes					
RWANA-10219	Enhancement		TRUE	Tracker	Test Passed
deconstruct Field urn_record in DB_update Added fields dataset and collection to db_update events					
RWANA-10664	Bug		FALSE	Tracker	Closed
GRDF: swMonitor.jar stores a record when swmfs_monitor.exe reports an error When no information could be retrieved from swmfs_monitor.exe no empty record is inserted anymore.					
RWANA-10710	Task		TRUE	Tracker	Test Passed
Integrate event from tree_agent into UI actions Removed the handler_action event type formerly used for display_tree events. These events are now integrated into the ui_action events with more detail.					

RWANA-10782	Task		FALSE	Archiver	Closed
<p>Allow to scramble or reject user name in session</p> <p>Added option "store_user_name" to analytics_config.xml to specify how to handle the user name of a session. Valid values are "yes", "no", and "scrambled". When "scrambled" is configured the user name will be scrambled into a sequence of 8 characters. This sequence will be the same for every session of that user so trend detection is still possible, for example as done in the default dashboard "Most used functions and editors".</p>					
RWANA-10784	Task		FALSE	Archiver	Closed
<p>Show Informer session id in application GUI</p> <p>Added a button to display the current Analytics session id in the application.</p>					
RWANA-10858	Task	1.1	TRUE	Documentation	Closed
<p>Change Informer_metadata table in the database</p> <p>Table Informer_metadata has been removed and replaced with metadata_datamodel</p>					
RWANA-10861	Task	1.1	FALSE	Configuration	Closed
<p>SWMFS monitor properties file</p> <p>swmfs_monitor.properties file changed. All references to Informer and Realworld Systems servers removed.</p>					
RWANA-10862	Task	1.1	FALSE	Configuration	Closed
<p>Informer config file</p> <p>The name of the main configuration file is changed from informer_config.xml into analytics_config.xml.</p> <p>The environment variable is changed from INFORMER_CONFIG_FILE to ANALYTICS_CONFIG_FILE.</p>					
RWANA-10863	Task	1.1	FALSE	Configuration	Closed
<p>Plugin name Informer -> Analytics</p> <p>The name of the plugin in the Smallworld GUI has changed from Informer to Analytics.</p>					
RWANA-10864	Task	1.1	FALSE	Configuration	Closed
<p>Renaming and upgrading Oracle SQL files</p>					

Create scripts for tables and views are combined into one for convenience. Upgrade scripts from earlier versions are provided.

— RWANA- 10872	Task		FALSE	Requirements Closed , Marketing and Sales	
Update Cambridge Swift application Probably demo script needs to be updated during next sprint					
— RWANA- 10934	Enhancement 1.1		TRUE	Core	Closed
Add information about licence usage Added monitoring of Smallworld licences.					
— RWANA- 10935	Information		TRUE	Core	Closed
use info from swmfs_list ? Added tracking of swmfs_list output					
— RWANA- 11398	Change Request	1.1	FALSE		Closed
Module & product informer -> analytics The product name has changed from rw_informer to rw_analytics, and the module names all contain analytics instead of informer.					
— RWANA- 11440	Bug		FALSE	Presentation	Closed
Dashboard Smwfs Monitor Overview shows minus values Fixed a bug where the dashboard Swmfs monitor overview could contain minus values					
— RWANA- 11464	Task		FALSE	Requirements Closed , Marketing and Sales	
Change packaging procedure for SQL scripts Upgrade scripts are included in the package to upgrade your current Analytics archive to the latest datamodel version.					
— RWANA- 11479	Bug	1.1a.1	FALSE	Archiver	Closed
Toggle tracking raises warning when reference test is configured, but no software loaded Warnings about badly configured Nurse reference test will be raised when running the Nurse instead of starting Analytics.					

— RWANA-11511	Task		FALSE	Documentation	Closed
Making of a "Giving the data back manual" New Data delivery manual					
— RWANA-11543	Bug		FALSE	Visualisation	Closed
Dashboard Real-time data capturing shows null users Dashboard Realtime data capturing now also shows splunk_swmfs_monitor_log events.					
— RWANA-11732	Bug	1.1a.1	FALSE	Tracker	Closed
Problems loading Analytics 1.1a on SW 4.2 classic Prevented information method on map_view to be loaded in a classic image.					
— RWANA-11824	Task		FALSE	Tracker	Closed
Redesign conditional loading for hooks An integration subproduct is introduced to determine what functionality is loaded into the running Smallworld session and automatically integrate Analytics with that functionality. From now on, load the module analytics_integrator instead of analytics_archiver when loading the Analytics product.					
— RWANA-11925	Task		FALSE	Tracker	Closed
Make graphics_system integration comply to standard map_action tracking interface For SW 4.2 Classic, record canvas dimensions, display style, and scale from the active graphics view, instead of always from the main graphics view.					
— RWANA-11953	Bug	1.1a.1	FALSE	Presentation	Test Passed
Map interaction too much users Limited the bottom chart on the dashboard Map interaction to 10 users.					
— RWANA-11954	Bug	1.1a.1	FALSE	Presentation	Test Passed
dbquery: replace duration with count Removed charts on database query duration until duration is measured accurately.					

— RWANA- 11989	New Feature	FALSE	Configuration	Closed
Support Oracle 12c database connection based on service name Connecting to Oracle using a service name or custom jdbc-url is now supported. Oracle 12c is supported as well. The different configuration files to specify the database connection have been reduced to 2 and have exactly the same format and name: archive_connection.xml. The configuration files for the Smallworld utility monitors are now in XML instead of property format.				
— RWANA- 12028	New Feature	FALSE	Visualisation	Test Passed
Add extension (with s) as standard evaluation in our splunk application Added charts on time spent reading and writing files to the (new) dashboard Files and code.				
— RWANA- 12148	New Feature	FALSE	Archiver	Closed
Enexis: make location archive_connection.xml customizable via environment variable added environment variable ANALYTICS_ARCHIVE_LOCATION to specify the location of the archive_connection.xml-file pointing to the Analytics archive database				
— RWANA- 12171	Bug	FALSE	Tracker	Test Passed
Error condition can keep action from being stored Improved the action details logged on error conditions.				
— RWANA- 12315	Enhancement	FALSE	Tracker	Test Passed
Refactor charindex_mixin.roos_trim_to_length() to prevent condition Made the record value slicing mechanism more efficient.				
— RWANA- 12357	New Feature	TRUE	Tracker	Test Passed
Track record transactions Added tracking of record transactions, displayed in view Database transactions in the Administrators menu				

1.37 Version 1.1a.2

This version contains a few bugfixes.

Item	Type	Affected Versions	Datamodel change?	Components	Status
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Title	Release	Notes				
RWANA-11542	Bug	1.1a.1	FALSE	Tracker	Closed	Error when geometry_set.select() is called with only a selector
Fixed a bug causing a traceback on spatial queries without arguments during plotting.						
RWANA-11574	Bug	1.1a.1	FALSE	Core	Closed	Missing package declarations
allow loading Analytics when current package is a custom package						
RWANA-11752	Bug	1.1a.1	FALSE	Tracker	Closed	Alliander: Traceback in graphics_view.roos_tracked_refresh()
Fixed bug when graphics_view.refresh(...) was called while graphics_view.window.bounds is _unset.						

1.38 Version 1.1a.1

This version contains a few documentation enhancements and a higher Splunk version.

Item	Type	Affected Versions	Datamodel change?	Components	Status	
RWANA-11313	Enhancement	1.1	FALSE	Presentation	Closed	Upgrade Splunk to 5.0.3 Splunk version has been upgraded to 5.0.3. Realworld Analytics is now tested against this 5.0.3 version.

1.39 Version 1.1a.0

In this version, the product is renamed from Realworld Informer to Realworld Analytics.

Bug fixes and enhancements are described in the [Issue list](#)^[42].

1.39.1 Issue list

Item	Type	Affected Versions	Compon ents	Datamod el change?	Status
Title Release Notes					
RWANA-10220 display_scale and map_scale Changed scientific notation of the view_scale into a real number. Also, the field names display_scale and map_scale are changed to resp. view_scale and nominal_scale.	Information		Archiver	TRUE	Closed
RWANA-10260 Sort sessions in hierarchy inspector descending instead of ascending Changed the sorting order of session ID's on the dashboard Hierachy inspector to descending.	Enhancement	1.0.0 (Kermit)	Visualisa tion	FALSE	Closed
RWANA-10281 setup wizard Setup Wizard now checks existing files and replaces only those that needs updating	Enhancement		Requirem ents, Marketin g and Sales	FALSE	Closed
RWANA-10282 Tracked_info_details dashboard is quite slow. List of sourcetypes on dashboard Tracked info details loads much faster.	Change Request		Visualisa tion	FALSE	Closed
RWANA-10318 New dashboard for UI action sequences Dashboard Replay user clicks has been added to visualize the sequence of user clicks in a session over time	Task	1.1	Presenta tion	FALSE	Closed
RWANA-10342 Please add opening/unfolding a menu as a UI action UI actions resulting from a click in the menu bar at the top of the application now include the full path to the used button. Previously only the name of the button was shown without the name of the menu and possible sub menu('s) in which it resides.	Change Request	1.1	Tracker	FALSE	Closed
RWANA-10658 No parenting_id registered for map actions The parent_id and parenting_id (resp. down and up) of map actions where not stored into the Informer database (always 0), which prevented map actions from showing up in the hierarchy inpector dashboard.	Bug		Archiver	FALSE	Closed
RWANA-10660 Special characters are not shown correctly in Splunk Recommended use of the UTF-8 character set in Oracle to deal with special characters.	Bug		Presenta tion	FALSE	Closed

RWANA-10665	Bug	Tracker	FALSE	Closed
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Table of missing style definitions was not filled because of messages with diacritical marks

Extraction of missing style definitions (on dashboard Traceback analysis) is now language-independent.

RWANA-10670	Bug	Presentation	FALSE	Closed
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Dashboard 'Database usage' shows negative values
Closing and reopening a dataset by manage_soc() caused minus values in the database blocks statistics. This is fixed now.

RWANA-10781	Change Request	Archiver	FALSE	Closed
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Change branding of Splunk app, introduce logo, and make Splunk branding more subtle
Changed branding of Splunk app, redesigned its placement and added logo.

RWANA-10783	Task	Presentation	FALSE	Closed
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Remove ability to search on user_name in dashboards
To deal with potential privacy issues, the ability to search on a user_name in our dashboards is removed. The search on session_id will still be available, allowing a search within one session of a user.

RWANA-10823	Requirement	Core	FALSE	Closed
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Improve character set compatibility
Improved character set compatibility by using UTF-8 for internal communication.

RWANA-10868	Task	1.1	Presentation	FALSE	Closed
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Accelerate Splunk feeding from Analytics database
Increased efficiency of feeding Analytics data into Splunk.

RWANA-10886	Bug	1.1	Tracker	FALSE	Closed
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Error recording condition style_warn_using_default_style
Warning conditions style_warn_using_default_style were stored twice. This is now fixed.

RWANA-10942	Task	Presentation	FALSE	Closed
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Normalize filter sections across dashboards
Different notations for the filter fields in the filter sections are normalized in "Filter by x (optional)".

1.40 Version 1.0.1

This version contains documentation updates only.

2 Third party licence agreements

Diagnostics uses several different third party materials. The licence agreements or licence statements are listed here.

3rd party material	Licence agreement/statement
<i>Splunk Enterprise 9.2.1</i>	
• splunk-9.2.1-78803f08aabb.x86_64.rpm	For embedded use in Diagnostics only
• splunk-9.2.1-78803f08aabb-x64-release.msi	For embedded use in Diagnostics only
• splunkforwarder-9.2.1-78803f08aabb.x86_64.rpm	For embedded use in Diagnostics only
• splunkforwarder-9.2.1-78803f08aabb-x64-release.msi	For embedded use in Diagnostics only
<i>Apache Commons</i>	
• commons-daemon-1.3.4.jar	Apache License Version 2.0
<i>D3</i>	
• d3.js	D3 License (modified 3-Clause BSD License)
<i>JAXB</i>	
• javax.activation-api-1.2.0.jar	Common Development and Distribution License (CDDL) Version 1.1
• jaxb-api-2.3.1.jar	Common Development and Distribution License (CDDL) Version 1.1
• jaxb-impl-2.3.9.jar	Eclipse Distribution License - v 1.0 - Oracle
<i>json-simple</i>	
• json-simple-4.0.1.jar	Apache License Version 2.0
<i>Netty</i>	
• netty-buffer-4.1.109.Final.jar	Apache License Version 2.0
• netty-codec-4.1.109.Final.jar	Apache License Version 2.0
• netty-codec-http-4.1.109.Final.jar	Apache License Version 2.0
• netty-codec-socks-4.1.109.Final.jar	Apache License Version 2.0
• netty-common-4.1.109.Final.jar	Apache License Version 2.0
• netty-handler-4.1.109.Final.jar	Apache License Version 2.0
• netty-handler-proxy-4.1.109.Final.jar	Apache License Version 2.0

- netty-resolver-4.1.109.Final.jar Apache License Version 2.0
- netty-transport-4.1.109.Final.jar Apache License Version 2.0
- netty-transport-native-unix-common-4.1.109.Final.jar Apache License Version 2.0

SLF4J

- slf4j-api-1.7.36.jar MIT License