Platform Release Notes

On this page:

This topic covers release information for AppDynamics Pro versions 4.1.x.

If you are reading this in PDF format, many links will open in the product documentation wiki. AppDynamics continuously improves its product documentation. The most current release notes are on the wiki at Platform Release Notes.

For the latest support and security advisories, see Product Announcements and Alerts.

New and Enhanced Features in 4.1

The following components have new and enhanced features in release 4.1.

Controller Updates

Getting Started Experience

New users can get acquainted with AppDynamics using a sample application available as a download from the Agent Download and Install Wizard.

The sample application includes Java, Node.js, and Database Monitoring components, and is available from the download wizard for those types of agents. After downloading the sample application, unzip it and find instructions for using the application in the included README file.

Cross Application Flow

Flow maps in a business application now show the upstream and downstream business applications. Users with permissions to the application can navigate to the other business applications from this view.

Custom dashboard

- A new gauge widget has been added.
- The default file format for exporting custom dashboards is now JSON. However, you can successfully import XML-formatted custom dashboard configurations that were exported prior to 4.1 to 4.1+ controllers.
- An extremely large number of custom dashboards (over 1000) causes dashboard list loading and multiple dashboard delete to be slow.

Policies and Alerts

- A new HTTP request action has been added. You can start an HTTP request in response to a policy violation. These actions let you integrate policies with third-party HTTP APIs. See HTTP Request Actions and Templates.
- You can create email templates and HTTP request templates that can be used throughout an account to create email notification actions and HTTP request actions. See Email Templates.
- You can fine-tune health rules based on JMX metrics. See JMX Health Rules.
- Policies, health rules, actions, and email digests can be created for databases and analytics as well as for applications.

Service Endpoints

- The Java Agent now automatically discovers service endpoints. Previously, you needed to add services endpoints manually.
- To ensure that the number of service endpoints doesn't grow boundlessly, agents and the Controller apply limits on the number of service endpoints that can be registered. See Service Endpoints for more information.

War Room

- A new log tail widget has been added to the war room palette.
- War rooms can be shared with users who do not have an AppDynamics login.

High Volume Exit Points

The high volume exit point setting is a new option for custom exit points. It's intended to be used in exit points for backend systems that do not require certain types of correlation and traffic processing and that demand high performance, such as caching servers or in-memory databases. EhCache, Danga Memcache, Memcached, and Oracle Coherence caching servers are detected automatically as high volume exit point backend systems. See Configure Custom Exit Points for more information.

Transaction Snapshot Browser

A new page showing potential issues appears in the snapshot browser. Potential issues are the methods or SQL calls in the transaction instance that took the most time. By clicking the links in the pane, you can quickly drill down to information about the potential issue in the call graph.

Hotspot Call Graphs

Hotspot call graphs are partial call graphs that include call segments that the Controller has learned to be potential contributors to performance issues for the transaction. The segments represent transaction processing activity that may have occurred before the point at which the transaction exceeded a user experience threshold.

Hotspot learning is now enabled by default and it occurs continuously over a rolling period of time (the previous 8 hours, by default). For more information, see Call Graphs.

End-to-End Latency for Asynchronous Transactions

The following enhancements apply to the end-to-end latency metrics:

- A new instrumentation tab makes it easier to configure end-to-end metrics.
- The "Last thread on tier" is now a configurable transaction termination demarcator for end to end asynchronous transaction, supplementing method identification.
- End-to-end latency metrics are more prominently display, with a dashboard scorecard, view option in the Business Transaction list, and more. For more, see Configure Asynchronous Transactions.

End-to-end latency metrics are available for Java applications.

Agent Updates

All Application Agents and Standalone Machine Agent

Prior to release 4.1 it was not necessary to specify the AppDynamics account access key to configure an agent to communicate with a single-tenant on-premise controller.

For added security, the account access key is now required for all 4.1 agent configurations. How this affects your current agent connections to a single-tenant on-premise controller depends on the versions of your controller and agent and whether your controller is new or upgraded.

- **New 4.1 single-tenant on-premise controller**
  - 4.0 and older agents accessing a new 4.1 controller require both the account name and the account access key to be specified in the agent configuration.
  - 4.1 and newer agents accessing a new 4.1 controller require only the account access key to be specified in the agent configuration. The account name defaults to "customer1" if it is not specified.
- **Upgrade from a 4.0 to a 4.1 single-tenant on-premise controller**
  - Existing 4.0 and older agents are not impacted by this change and need no configuration changes to access an upgraded 4.1 controller.
  - 4.1 and newer agents require the account access key to be specified in the agent configuration to access an upgraded 4.1 controller.

To find your account name and account access key, click the settings (gear) icon in the upper right corner of the AppDynamics UI, click **License**. Click **Show** to get the access key value. You need account-level permissions to view the license.

See the installation instructions for your agent for details on where the access key configuration property is set.

Java Agent Updates

- Framework support added:
  - Glassfish 4.x
  - Spray (i.e., spray.IO)
  - Apache HTTP Client version 4.0 to 4.3 (enables exit call detection and correlation for `org.apache.http.client.httpclient`)
  - Amazon Simple Queue Service (SQS)

  For more information, see Java Supported Environments.
- Call count metric has been added for Information Points and Errors.

.NET Agent Updates

- Upload and manage .NET Agent configuration files with the Config Management tool in the Controller.
- Encrypt credentials otherwise stored as plain text in the config.xml.
- Create POCO Match Rules using the Class/Method Browser of the Transaction Discovery Tool. See "Transaction Discovery Tool" on POCO Entry Points.
- Await continuations show up in the call graph so you don't need to click an exit call link to see them.
- The .NET Agent automatically detects asynchronous exit calls to data storage backends: ADO.NET, Azure Blob Storage, Azure File Storage, and Azure Table Storage.
- The .NET Agent automatically detects synchronous and asynchronous exit calls to NServiceBus backends.
- .NET getter chain syntax includes enhanced support for accessing dictionary values.
- Machine Snapshots now include the app pool name for IIS Worker Processes in the Process Description column.
- The .NET Agent has optimizations to improve agent startup time.
- The .NET Agent no longer requires COM+. The .NET Agent Coordinator Service runs as a first class Windows Service.

Node.js Agent Updates

- New APIs have been added for transaction management. These include the functionality to add custom data to a transaction snapshot programmatically (method data collectors) and to mark a transaction as an error transaction. See Node.js Agent API Reference.
- HTTP Data Collectors are now supported.
- Backend detection configuration is available for supported backends. See Configure Backend Detection for Node.js.
- Error configuration based on HTTP response codes is supported. See Configure Error Detection.
- MongoDB is supported as a database exit point but cannot be configured by the user.
- Object instance tracking is supported for monitoring and troubleshooting memory usage. See Object Instance Tracking for Node.js.
- The Node.js Agent supports Node.js 0.12. But call graphs are currently disabled for Node.js 0.12.x due to a bug in the V8 sampler used by Node.js.
- The Node.js agent has been modified so that the Priority parameter used to configure custom match rules now applies priority from highest number to lowest number. Beginning with release 4.1, the rule with the highest number is matched first and 0 is the lowest priority. This is the opposite of the way priority worked in the Node.js agent prior to the 4.1 release, but it is consistent with the way the other AppDynamics app agents prioritize custom match rules. See Setting Match Rule Priority in Configure Custom Match Rules. If you currently rely on the Priority parameter to order the evaluation of your custom rules, you

may need to edit your custom rules manually to ensure that they work correctly in 4.1. Also, if you currently have some 4.0 Node.js agents and some 4.1 Node.js agents reporting to the same controller, it is necessary to upgrade all the agents to 4.1 for this feature to work consistently.

PHP Agent Updates

- Backend detection configuration is available for supported backends. See Configure Backend Detection for PHP.
- New APIs have been added for exit call management. See PHP Agent API.
- Cross application flow is supported. See Cross Application Flow.
- The agent supports capturing the HTTP request method and response code as part of transaction snapshots. They appear in the HTTP Params tab of the transaction snapshot when the agent is configured to capture information from an HTTP request. See Data Collector Configuration Examples.
- The PHP Agent supports PHP 5.6.

Python Agent Updates

- The Python Agent is GA.

Web Server Agent

- AppDynamics introduces the Web Server Agent. See the following topics:
    - Supported Web Servers
    - Instrument Web Servers
    - Monitor Web Servers

Standalone Machine Agent

- Installation of the Standalone Machine Agent has been improved for Linux and Unix-like systems, by the addition of an RPM installer for the Standalone Machine Agent that includes the JRE version 1.7. In addition, bundled zip files that include the JRE are now provided for all supported platforms. See Install the Standalone Machine Agent.
- Server Monitoring - Beta: For Windows, MacOS, and Linux. Server Monitoring - Beta includes all the features of basic server monitoring and much more. Server Monitoring - Beta has a user interface that enables you to quickly see if there's an underlying infrastructure problem preventing your applications from operating optimally, allowing you to rapidly troubleshoot hardware performance problems. To provide deeper hardware performance analysis, Server Monitoring - Beta extends the features of the basic Server Monitoring by collecting and displaying more metrics in the Metrics Browser and in the Server Monitoring - Beta user interface. See Server Monitoring - Beta.

Database Agent

- You can now have multiple Database Agents reporting to the same Controller.
- The Microsoft Azure SQL database platform is now supported.
- Numerous enhancements to the database dashboard, including graph changes and wait state help text.
- The Database Agent can now collect hardware metrics on the localhost without special permissions.
- For Microsoft SQL Server and Oracle queries, you can now choose to run a cached explanation plan or to obtain and explain a new execution plan.
- You can now apply wait states filters to queries, so that queries occurring during specific wait states do not appear in the list on the Query page.

End User Monitoring

- End User Experience Management (EUEM) is now called End User Monitoring (EUM). It is comprised of:
    - Browser Real User Monitoring (RUM) - formerly Web EUEM
    - Browser Synthetic Monitoring - in Beta
    - Mobile Real User Monitoring (RUM) - formerly Mobile EUEM
- The EUM user interface has been largely re-designed for the 4.1 release. For more information, see Monitor Your Applications with Browser RUM and Monitor Your Applications with Mobile RUM. Parts of the re-designed interface rely on data stored in

the Events Service, formerly known as the Analytics Processor.

- Percentile measurements have been removed from all parts of the UI not backed by the Events Service. This is to increase the accuracy of these measurements.
- For known issues related to EUM, please see Known Issues - End User Monitoring.

Browser RUM

- Single Page Applications (SPAs) based on AngularJS are now monitored as Virtual Pages. See Configure Virtual Page Naming for more information.
- Four options have been added to customize the JavaScript agent:
  - Limit XHR Monitoring to Specified Calls
  - Limit Beacon Types
  - Disable Single Page Application Monitoring
  - Modify Resource Sampling Options

For more information, see Customizing the JavaScript Agent.

Browser Synthetic

The metrics "Synthetic page not found" and "Synthetic page server error" are now called "Synthetic 4xx - Client Error" and "Synthetic - 5xx Server Error". Old metrics are not migrated.

Mobile RUM

Mobile app developers can now use CocoaPods and Maven Central to manage their dependencies in setting up the mobile SDK. See Instrument an iOS Application - CocoaPods and Instrument an Android Application - Maven Central for more information.

Application Intelligence Platform Updates

Events Service

- The Analytics Processor is now called the Events Service. The Events Service is the high performance, horizontally scalable data storage facility used in on-premise Application Analytics and End User Monitoring deployments.
- The Controller configuration setting that specifies the location of the Events Service has moved from the configuration file, domain.xml, to the Administration Console (admin.jsp). After upgrading, log in to the Administration Console and manually set the appdynamics.analytics.server.store.url value to the address of the Events Service, either to the direct address of the instance (if single node), or the VIP address exposed for an Events Service cluster at the load balancer.
- The Beta Release Platform Administration Application eases the task of deploying and administering an on-premise Events Service cluster on Linux environments. The Platform Administration Application uses orchestration technology to deploy the Events Service to a single node or clustered Events Service deployment.

Application Analytics

- The Relevant Fields tab in Transaction and Log Analytics suggests fields that may have higher value for filtering a specific data set. For more information, see Using the Application Analytics UI.
- The Create New Fields wizard in Log Analytics provides interactive new field extraction definitions for the log source type on the fly. For more information, see Configuring Log Analytics.
- If you have created a search that you would like to see executed repeatedly and monitored, you can create a metric from that search and use it to create alerts by making Health Rules that trigger Policies and Actions. For more information, see Using the Application Analytics UI. *New in 4.1.1*: Metrics can now also be created in User Analytics (Beta).
- Browser and Mobile Requests Analytics now in enhanced Beta.

Security Notes

- Release 4.1.2.2 contains important security fixes. For more information, see 4.1.2.2 Updates.
- Release 4.1.6 contains important security fixes for the proxy component used by certain agents. See Agents in 4.1.6 Updates.
- Release 4.1.7 contains important security fixes.
- Release 4.1.8 contains important security fixes for the Controller. It is strongly recommended that you upgrade to this version.
- AppDynamics has removed the Solaris 32-bit Machine Agent download file that bundled JRE 1.7 due to an identified security vulnerability in the JRE. For more information, see AppDynamics Security Alert - 6250.

Controller Notes

New in 4.1.0.5 and higher and 4.1.1 and higher To enable the Controller to monitor the additional metrics available in the beta version of Server Monitoring, you must set the Controller's JVM option, -Dappdynamics.controller.sim.enabled=true and restart the Controller. See Configure and Enable Server Monitoring - Beta.

Deprecation Notice

BMC Coradiant integration for AppDynamics Application Intelligence Platform is deprecated and will no longer receive development support as of release 4.1. Help desk support for the Coradiant integration ceases as well. The original deprecation notice for this integration appeared in 3.9, two major versions prior to its taking effect.

New users should not attempt to set up and use the BMC Coradiant integration features. Existing users should transition away from using the feature.

Known Issues

Platform Administration Application

An Events Service deployment may consist of a single node or a cluster of nodes. With the application, you first deploy the Events Service cluster, and then later you can add nodes using the expand command.

A limitation exists in how a cluster can be expanded based on the expansion sequence, as follows:

- Deploying a single node and expanding to three nodes: Supported
- Deploying a single node and expanding to four or more nodes: Supported
- Deploying a single node, expanding to three nodes, and later expanding to four or more nodes: Not supported

This limitation pertains to the roles in which nodes function in an Events Service cluster. In the cluster, the first three nodes operate as data storage and coordinator nodes, while the fourth and higher nodes operate as storage nodes only.

Health Rules and Policies

In the AFFECTS panel of the health rule wizard for designating specific nodes or tiers to be affected by a Node health rule, the lists are incorrectly labeled. The list on the left is the Selected Nodes or Selected Tiers list. The list on the right is the Other Nodes or Other Tiers list. Currently the labels above the lists are switched.

The same label switch exists in the lists displayed in the TRIGGER panel of the policy wizard when you specify the objects of events that cause the policy to fire and choose **These specific Tiers** and or **These specified Nodes**.

Standalone Machine Agent

- When you use the install service script to install the machine agent as a service, the service requests access to interact with the desktop. If your Windows machine is set not to allow a service to interact with the service, then an error is logged similar to the following:

```
     The Appdynamics Machine Agent service is marked as an
     interactive service. However, the system is configured to not
     allow interactive services. This service may not function
     properly.
```

This error is benign and you can ignore it because the Machine Agent does not need access to interact with the desktop, so the service is not impacted by the warning.

End User Monitoring

Browser RUM

- Automatic injection is not supported if the Web Server Agent is used.
- ⚠ Users of 3.9.x and EUM should not update their Controllers to 4.1 until the patch release 4.1.1. There is an error in fetching Browser Snapshots.

Mobile RUM

- Server-side correlation for Mobile RUM is not supported if the Web Server Agent is used.

Resolved Issues in 4.1

Component	Summary	Key
.NET Agent	InstrumentationPointUtil log overly verbose	CORE-22259
.NET Agent	Support EF only through ADO.NET	CORE-22893
.NET Agent	MSMQ Backend Naming Configuration always displays Queue naming for any other properties	CORE-22933
.NET Agent	Fixed potential trace logging deserialization exception	CORE-26550
.NET Agent	Exception in getter chain terminates Backend detection execution resulting in backend not shown	CORE-27135
.NET Agent	Fixed issue with POCO InList Class Match rule	CORE-28956
.NET Agent	Added support for System.Data.OracleClient	CORE-29636
.NET Agent	Await call snapshot link appears in different places with different names	CORE-30392
.NET Agent	CLR Crash Event reports for multiple tiers when machine has more than 1 tier	CORE-30530
.NET Agent, Controller-APM	Machine Agent List shows same application name multiple times for .NET machine agents	CORE-30966
.NET Agent	Async calls from sync Asp.Net are not showing on the BT Dashboard flow map	CORE-31102
.NET Agent	.NET Agent - SqlException not shown in snapshot summary	CORE-31317
.NET Agent	Add config check for violations-per-window should not exceed samples-per-window	CORE-31550

.NET Agent	Async Waterfall model shows async timings in blue	CORE-32079
.NET Agent	System.InvalidOperationException Collection was modified; enumeration operation may not execute	CORE-32456
.NET Agent	Investigation RabbitMQExitInterceptor Failure setting correlation header	CORE-32481
.NET Agent	Coordinator potential memory leak when OIT enabled	CORE-32772
.NET Agent	.NET Agent: WARN level exceptions get processed by Error Detector	CORE-34426
.NET Agent	Single quote (') in application name while creating a new application creates two applications at controller	CORE-34939
.NET Agent	Indexers not working for .NET Getter chains	CORE-36247
.NET Agent	Warnlog Reports error about WCF Backend Custom Rule not discovered even though it is discovered	CORE-36625
.NET Agent	Customer links with AppDynamics Profiler instead of its own profiler	CORE-36772
.NET Agent	Getting started installer script shows unnecessary warning	CORE-36974
.NET Agent	Unmonitored IIS apps that have a CLR crash cause warnings	CORE-37047
.NET Agent	Machine Snapshot CPU Total not correct	CORE-37090
.NET Agent	Agent Configuration wizard not listing all the application under virtual directory in IIS	CORE-37142
.NET Agent	.NET 3.9.6 -- IIS App detection requires AppPool config	CORE-37205
.NET Agent	Getting Started doesn't check the correct directory path for configuration on 2003	CORE-37206
.NET Agent	instance-monitoring-sample-frequency has no effect	CORE-37404
.NET Agent	RegEx not working for ADO.NET backends	CORE-37894
.NET Agent	WCF Entry not looking in HTTP header if SOAP correlation header is empty	CORE-37979
.NET Agent	Analytics .NET MIDCs that return numeric values get put into analytics as strings	CORE-38605
.NET Agent	.NET Agent Download Wizard Did Not Configure Multi-Tenant Account Info	CORE-38936
.NET Agent	(.Net port) Analytics dynamic service shuts down if analytics agent throws HTTP non 2xx status	CORE-38993
.NET Agent	Agent not reporting CLR Perf counters - System.InvalidOperationException: Agent Scheduler not initialized	CORE-39469
.NET Agent	System.NullReferenceException in GetProfilerConfiguration	CORE-39789
.NET Agent	HttpDataCollector > custom username logic is not executed	CORE-40198
.NET Agent	.NET Agent Proxy issues	CORE-40322
.NET Agent	Level of Exception stack trace details have gone down between 3.8 to 4.0 agent version	CORE-40371
.NET Agent	.NET agent installation in unattended mode should bail if the current version is installed	CORE-41065
.NET Agent	Worker process hang with profiler in stack	CORE-41352
.NET Agent	Windows Service restarts show up for wrong tier	CORE-41399
.NET Agent	Uninstrumented IIS process crash reported under instrumented tier	CORE-42102
.NET Agent	Data.xml file not updating when removing / disabling POCO's	CORE-42523
.NET Agent	BT metrics not reported & High memory for web applications using Nancy framework	CORE-43355
.NET Agent	Multiple information points reporting same data	CORE-43775

.NET Agent	Call GRAPH missing Asynchronous request in MVC 4 Web API	CORE-44800
.NET Agent	Find another way to get process command line instead of WMI	CORE-45716
.NET Agent	App Crash while CLR tries to abort suspended thread.	CORE-45810
.NET Agent	Separator Character (\.) in Getter Chains is not working in .NET	CORE-45815
.NET Agent	Disabled .NET agents reports 0's when the JMX/JVM checkbox is unchecked	CORE-45820
Agent	Servlet match rule for SEP matches wrong SEP	CORE-27588
Agent	Custom Match Rule not working with HTTP param filter	CORE-29096
Agent	SEP monitoring with WebSockets doesn't work	CORE-30580
Agent	NoSuchMethodException thrown from Play app when servlet monitoring disabled	CORE-30665
Agent	Unconfigured BT's	CORE-31687
Agent	Begin txn timestamp should be set when the 'headerChain' is not null	CORE-32582
Agent	BT exit calls not tracked properly	CORE-32904
Agent	Cassandra Exit Point named as "uninitialized"	CORE-32974
Agent	Agent logs capture from the controller UI failed	CORE-34118
Agent	Agent stopped reporting metrics - Java Server VM	CORE-34379
Agent	Service endpoint are detected, but do not show any traffic	CORE-35249
Agent	Synapse end-to-end test failing since correlation BTs are wrong	CORE-36358
Agent	JMSReceiveExitInterceptor delegate usage should bail if old async style tracking is enabled	CORE-36894
Agent	Memory Leak: Snapshots Taking up ~70% of heap	CORE-36962
Agent	JVM Crash event gets generated when there are no crashes	CORE-36989
.NET Agent, Agent	StringOperations getLastNSegmentName ignores the segmentDelimiter parameter	CORE-37137
Agent	AsyncCorrelationRuleApplier requests full configuration update every time	CORE-37147
Agent	Exception thrown with malformed debug-interceptors property	CORE-37162
Agent	Agent should not send any events prior to registration request.	CORE-37164
Agent	LightweightThrowable can hold too many stack frames	CORE-37265
Agent	debug-interceptors does not work as expected	CORE-37531
Agent	Java Agent 4x not using the proxy properties to connect to controller	CORE-37556
Agent	capture-set-status property should default to true	CORE-37687
Agent	Default treatment of HTTP error codes is wrong	CORE-37699
Agent	Log messages missing in Self-Service mode	CORE-37907
Agent	Custom correlation logging fails to identify root cause of mis-configuration	CORE-37995
Agent	Insufficient stats from CallStackSampler QualityTracker ~ track frequency of specific reasons for samples dropped	CORE-38072
Agent	Not seeing correct value of JMX attribute defined by MBean wildcard pattern	CORE-38153
Agent	Potential race condition	CORE-38214
Agent	Naming configuration for async monitoring	CORE-38511

Agent	Unusually High Response Time Reported for BTs.	CORE-38768
Agent	Hotspots cannot be enabled by default due to IBM agent issues/limitations	CORE-38864
Agent, Analytics	Agent shouldn't relay reflection errors to the analytics service	CORE-39474
Agent	Average Async Processing Time not calculating correctly	CORE-39636
Agent	CPU % used shows 0 in UI for IBM JVM	CORE-39810
Agent	Cap schedules: Pause/ Unpause transaction contains "null" instead of the actual Collection	CORE-40030
Agent	Postgresql connection Jdbc3gConnection not tracked	CORE-40091
Agent	JVM Crash event may contain incorrect date/time	CORE-40127
Agent	Warning - Overflow for BoundsEnforcer shows as critical exception	CORE-40329
Agent, Analytics	Transaction Analytics should support IBM JVM	CORE-40873
Agent	EJB exclude rule not working	CORE-41107
Agent	Struts BT name and Struct action name in snapshot mismatch	CORE-41222
Agent	JBoss fails to start with agent attached, possibly due to Java deadlock	CORE-41448
Agent	ServletRequest#getHttpParamNames not protected for POST	CORE-41997
Agent	Fix Average Async Processing Time metric	CORE-42440
Agent	Handle case for empty tag for <controller-keystore-filename>	CORE-43126
Agent	Enabling collection of all HTTP parameters in Java agent causes snapshot URL to be lost	CORE-43221
Agent	Tomcat 8.x ~ Resource Pool Limit Reached event does not fire	CORE-43733
Agent	Async correlation issues with Java 8	CORE-44108
Agent	Excessive calls to Class.getAnnotations()	CORE-44119
Agent	FileNotFoundException in ClassLoaderReader	CORE-44392
Agent	Timing for the JMXMBeanReporter and ResourcePool Limits violations can be skewed	CORE-44466
Agent	Java agent code deadlock	CORE-45041
Agent	ClassCastException in MySQLSessionGrabber	CORE-45217
Agent	Null Pointer Exception in Agent Logs for snapshot tests	CORE-45688
Agent	JMS 2.0 - JMSExitPointInterceptor applied instead JMSExitWithDestinationInterceptor incorrectly	CORE-46210
Agent-EUM	EUM Web Page Naming Screens contain incorrect instructions	CORE-42978
Analytics	Make start scripts consistent on windows and linux.	CORE-33437
Analytics	Investigate Index Rollover Issue after upgrade	CORE-34952
Analytics, EUMCloud	Total Request count in Analyze Page does not match with the total Request made in Page/Ajax request screen.	CORE-35495
Analytics	RestException developer message not being serialized to the client	CORE-36134
Analytics	The sonar integration is not including all packages	CORE-36716
Analytics	Update account not working with remote processor	CORE-37097
Analytics	Reduce this log level to DEBUG	CORE-37101

Analytics	Intermittent failure in EventServiceKafkaITC.test_bringUpNewBroker_shouldRebalance_shouldNotLoseData	CORE-37111
Analytics	Index rolling threshold needs to be configurable (especially for on prem)	CORE-37202
Analytics	Enhance rolling index logging to identify cluster by name	CORE-37286
Analytics	Add the cluster to index rollover log	CORE-37378
Analytics	Link in sample java.grok is incorrect	CORE-37662
Analytics	Log sources stays idle after a while and health checks says unhealthy	CORE-38209
Analytics	Analytics Agent does not always flush all log messages to disk before shutting down.	CORE-38756
Analytics	DB Agent data not reported to controller	CORE-39190
Analytics	Analytics agent (almost) starts without -p option and then barfs silently in startup.log	CORE-39621
Analytics	EventServiceHelper.handleRestError() method is not retrying messages that failed with a TransientException	CORE-39693
Analytics	Curator shutdown throws an exception every time it is shutdown gracefully	CORE-39778
Analytics	In windows, analytics processor and agent fails startup if parent folder name contains blanks	CORE-40283
Analytics	Kafka brokers are not shutting down cleanly after the ITCs are run	CORE-40345
Analytics	Exception indexing events TOO_MANY_REQUESTS	CORE-40741
Analytics	Analytics Processor log timestamps in inconsistent format	CORE-40789
Analytics	Adding MBean for ES index size reporter	CORE-41159
Analytics	Call analytics processor local/remote from controller depending on license	CORE-41388
Analytics	RollingIndexManager is using the wrong ES client	CORE-41622
Analytics	Index rolling exception in production	CORE-43268
Analytics	Indexing issue in production related to very long strings	CORE-43269
Analytics	Analytic processor doesn't start with space in the folder name in the path	CORE-43689
Analytics	Optimize the account sync to only update accounts if there's some change	CORE-43969
Analytics	Connectivity issue: EUM Analytics cluster	CORE-45095
Android Agent	Code coverage reports are not generated when appd's gradle plugin is included	CORE-36626
Android Agent	Android agent's gradle plugin causes build to fail if there are duplicate jars in the app's classpath	CORE-39387
Android Agent	Undefined behavior of information points when an app updates	CORE-42145
Android Agent	Automatic upload of proguard mapping failed	CORE-42284
Android Agent	Android agent should not send App Start beacon immediately	CORE-42421
Controller-APM	Synchronous calls shown as async	CORE-33163
Controller-APM	Users without sql binding permission can't update callgraph settings if raw sql *already* set	CORE-33368
Controller-APM	Invalid backend config in controller DB	CORE-33618
Controller-APM	Rest API - Use of error-occurred and data collector params not working	CORE-34420
Controller-APM	On-premise controller extremely slow, major GC's per minute	CORE-36669
Controller-APM	NPE when using REST API to export custom dash	CORE-37149

Controller-APM	Fix the build warnings coming from ACustomDashboardImportExportTest	CORE-37407
Controller-APM	Application to Application call show 0 call/min when there is no call	CORE-38003
Controller-APM	Missing SQL Calls and DB exits on snapshot when upstream stack is WCF	CORE-38961
Controller-APM	system@system account not able to send metrics to controller due to authentication error	CORE-39015
Controller-APM	Push notification sending events as user "ANONYMOUS"	CORE-39093
Controller-APM	Application Import is failing on SAAS Controllers	CORE-39102
Controller-APM	Machine agent refuses to re-register	CORE-39134
Controller-APM	REST API does not return the correct agent type	CORE-39835
Controller-APM, UI	Controller UI shows blank graph with information points redirected from alert	CORE-40010
Controller-APM	Controller throwing exception 500, when mobile device not found	CORE-40107
Controller-APM	Data too long for name column for system agent registration	CORE-40337
Controller-APM, UI	Cannot export dashboards in chrome browser that have a comma in the name	CORE-40979
Controller-APM	In account level flow map, for JMS Crossapp correlation, proper icon is not shown.	CORE-41133
Controller-APM	Unable to pull data from REST API for tier that has forward slash in its name	CORE-41887
Controller-APM	Incorrect applications returned when same app name exists in different accounts on same controller	CORE-43610
Controller-APM	Add license issue context for error message "Snapshot data request failed. STATUS: No STATUS key in response payload"	CORE-43940
Controller-APM	UI tries to create a flowmap preference and fails with an unique constraint exception	CORE-46388
Controller-DevOps	Error loading metric tree with tier name with | symbol	CORE-27293
Controller-DevOps	Apps Dashboard doesn't show Health Check for machine agents	CORE-28698
Controller-DevOps	Unable to create a custom dashboard for a BT that has "|" symbol in the name	CORE-31717
Controller-DevOps	Health rule violation shows scientific format values	CORE-36482
Controller-DevOps	Custom dashboard Graph and pie chart widget: "Equals" and "Starts with" criteria doesn't work	CORE-36757
Controller-DevOps, UI	Template - Data was undefined when deep link "Copy a link to this screen to the clipboard (fixed time range)" was used	CORE-36920
Controller-DevOps	Custom Dashboard unable to add a Group BT under metric category for graph series	CORE-37227
Controller-DevOps	Spurious log messages	CORE-37432
Controller-DevOps, UI	Custom dashboard not showing data while metric browser showing data for same time range	CORE-37627
Controller-DevOps	HTTP Request Action usability improvements	CORE-38604
Controller-DevOps	Health rules stops evaluating for any expression that results in -ve value	CORE-39164
Controller-DevOps	NullPointerException in JMXAffectedEntityCacheHandler.	CORE-39271
Controller-DevOps, UI	Reporting service for grid Custom dash report footer should be same as others	CORE-39988
Controller-DevOps	Some JMX metrics do not show up on Custom Dashboard	CORE-40043
Controller-DevOps, UI	Custom dash/war room/templates- All BT list in event list can not be seen sometime	CORE-40054

Controller-DevOps, UI	In reporting service there shouldn't be space/blank page at the beginning of the report	CORE-40071
Controller-DevOps	Export health rule throwing null pointer exception	CORE-40791
Controller-DevOps	Tiers gets lost when you export Service Endpoints and Node Health related Health rules	CORE-41141
Controller-DevOps, UI	Custom dashboards Tier/Node selection in Event Source does not stick.	CORE-41154
Controller-DevOps, UI	Custom dashboard save causes widgets to be lost, saving incorrect dashboard	CORE-42380
Controller-DevOps	Custom Dashboard data load performance issue	CORE-43114
Controller-DevOps	Tiers missing when importing Health Rule that affects multiple specific tiers	CORE-43450
Controller-DevOps	Invalid Principal name on shared URL dashboard	CORE-43472
Controller-DevOps, UI	Add button does not work for BTGroup when selecting specific BT in Widget metric match criteria	CORE-43604
Controller-DevOps, UI	Event List Widget cannot display BTGroup in event selection->FilterByObject BT	CORE-43607
Controller-DevOps	Import failing for Health Rule of type Database & Backend Services	CORE-43820
Controller-DevOps, UI	Health Rule violation description without violation details in event	CORE-44377
Controller-DevOps, UI	Filtering page names hangs in editing EUM metrics in custom dashboard	CORE-44616
Controller-DevOps	Weekly reports always sent on unscheduled day	CORE-44897
Controller-DevOps	"Tier Average" is not accurate option description for BT Health Rules	CORE-44924
Controller-DevOps	Application Purge breaks while deleting Scheduled Reports	CORE-45745
Controller-DevOps	Health Rule functional error	CORE-45920
Controller-EUM	Fix race conditions when importing app configuration with EUM enabled	CORE-31908
Controller-EUM	EUEM 3.9.5 installer fails with ERROR: Unresolved installer variable "modifyJVMOptionsText"	CORE-35722
Controller-EUM	Asian characters turn into ???? in metric entity name when metric entity is created	CORE-36003
Controller-EUM	Lots of errors during full test run	CORE-36418
Controller-EUM	Dropping Metrics with Asian characters in their name	CORE-37346
Controller-EUM	Case-sensitivity typos in geo server mapping files are un-fixable	CORE-38280
Controller-EUM	Can't zoom out when drilled into a Country in EUEM	CORE-40611
Controller-EUM	Sao Paolo IP address geo-resolves to Washington State	CORE-40656
Controller-EUM	App Agent creates insecure cookies over a secured connection	CORE-41896
Controller-EUM	Web User Experience does not appear until page is refreshed	CORE-42024
Controller-EUM	The Page/iFrame/AJAX drop down in Filters in the Web->Analyze tab does not show all the URLs eligible	CORE-42995
Controller-EUM	Page and network request list loads slowly	CORE-43275
Controller-EUM, EUMCloud	License keys in log statements	CORE-43811

Controller-EUM, UI	Discrepancy in totals between summary and details: Unique Crashes	CORE-44774
Controller-EUM	Usability enhancements: Crash Rates table	CORE-44789
Controller-Platform	Node type selection in Series Selector is a no-op	CORE-27022
Controller-Platform	Event list for BTs is empty when clicking through BTs from the events panel of main application dashboard	CORE-27136
Controller-Platform	Node.js License "multiplication" does not work	CORE-33147
Controller-Platform	PerfDataPartitionPurge Issue	CORE-34215
Controller-Platform	UI thread pool exhausted by getApplicationDiagnosticDatasReferencedByConfigEntities calls	CORE-34468
Controller-Platform	Math wrong in metric retention settings cause controller failure	CORE-35803
Controller-Platform	SAML get-authentication-config doesn't work in multitenant mode	CORE-36348
Controller-Platform	Changing email in UserManagerBean.updateCurrentUserSecure doesn't check security provider type	CORE-36661
Controller-Platform	Licensing Enforcement: License File expiry should give appropriate notification	CORE-37133
Controller-Platform	Insufficient Authorization - Permissions not checked for license details	CORE-37427
Controller-Platform	Controller install if TMP is full fails with exceptions	CORE-37755
Controller-Platform	Can't filter snapshots by HTTP header	CORE-38042
Controller-Platform	Summary field in events is truncated to 500 chars in MySQL but not in ES	CORE-38658
Controller-Platform	Stale node purging failing on SaaS Controller - constraint violation machine_instance_agent_mapping_ibfk_2	CORE-38722
Controller-Platform	"Browser Snapshots" is slow and fails to load data on Saas Controller	CORE-38862
Controller-Platform	Local login for SSO is working	CORE-38970
Controller-Platform	Event Service Does Not Uninstall	CORE-38996
Controller-Platform	Removing controllerClusterHostname variable from domain.xml	CORE-39108
Controller-Platform	Verification service should post CUSTOM events with a subtype	CORE-39451
Controller-Platform	controller event verification service mis-count countquery by one	CORE-39550
Controller-Platform	License File expiring in multi-tenant shows as "Account Expired"	CORE-40105
Controller-Platform	eventsvc loadgenerator tool does not support HTTPS	CORE-40540
Controller-Platform	eventsvc verification start script reports startup failure despite service being up	CORE-40668
Controller-Platform	Elasticsearch Snapshot data contains duplicate property values	CORE-40784
Controller-Platform	Snapshot queries have unacceptable performance	CORE-40790
Controller-Platform, Installer	Infinite loop while checking for hotfix installation during silent install	CORE-41163
Controller-Platform	Controller long running mysql query blocks controller hourly rollup	CORE-41211
Controller-Platform	Platform -admin CLI UI showing wrong message on disk usage	CORE-41294
Controller-Platform	Controller deleting the node within 4 hours of registration	CORE-42168
Controller-Platform	Cache for tracking zero filled metrics cache does not expire metrics	CORE-44567
Controller-Platform	Controller REST API allows user privilege escalation	CORE-45712

Controller-Platform	Possible LDAP injection vulnerability	CORE-45714
Controller-Platform	Default Controller MaxPermSize Too Small, crashes controller with java.lang.OutOfMemoryError	CORE-45931
Controller-Platform	APM and Analytics licenses not showing up in the licensing page on SaaS	CORE-46175
DB Agent	Current statistics tab doesn't show properly for DB2 object browser	CORE-36791
DB Agent	"Database object" list for Oracle object browser isn't sorted	CORE-36812
DB Agent	Sybase ASE object browser shown incorrect tree structure	CORE-36860
DB Agent, UI	Issues with showing execution plans for SQL Server	CORE-37683
DB Agent, UI	Agent errors aren't shown in the object browser	CORE-38360
DB Agent	Can't connect to SQL Server using SSL v3	CORE-39193
DB Agent	Unable to collect all the execution plan on DB2	CORE-39196
DB Agent	Errors connecting to SQL Server 2008	CORE-41462
DB Agent	Live View fails occasionally	CORE-43848
DB Agent	java.lang.NumberFormatException in agent log when using WMI for hardware monitoring	CORE-44684
DB Agent	Unable to show execution plan in SQL Server	CORE-45130
DB Agent	Windows hardware monitoring can fail if password has special characters	CORE-45317
DB Agent	The DB agent log is too verbose	CORE-45340
EUMCloud	EUM: LOST_BT_TIMING Causing Beacon Drop	CORE-36927
EUMCloud	Encode comma in URL and error msg in Beacon's "errors" field	CORE-36941
EUMCloud	DynamoDB returns a ResourceNotFound Exception while trying to update/setup dynamo	CORE-37725
EUMCloud	EUM: Server Side Correlation Dropped On Base Pages	CORE-37822
EUMCloud	EUM snapshot filter doesn't show any browsers/devices when there are only synthetic snapshots	CORE-38219
EUMCloud	Aggregator is marking all applications as inactive	CORE-38772
EUMCloud	Geo Dashboard Correction	CORE-39860
EUMCloud	Monotonicity failed for resource timing marks on Firefox	CORE-40268
EUMCloud	Optimistic lock in DynamoApplicationKeySequenceImpl not working	CORE-41279
EUMCloud	Crash rate should never be more than 100%	CORE-41363
EUMCloud	Snapshots not loading in SaaS controller due to BT correlation issue	CORE-41773
EUMCloud	Dex generator generates a dex for new versions when it shouldn't	CORE-42214
EUMCloud	Some 64-bit iOS crash report beacons fail parsing with a NumberFormatException	CORE-42538
EUMCloud	Last segment not used in page name when query string is present	CORE-43109
EUMCloud	Typo in Android crash report details	CORE-44336
EUMCloud	Need to use cached GSon object in EUM analytics publisher	CORE-45121
EUMCloud	EUMAccountRegistrationServlet returns 406 when unable to create an account due to DynamoDB exception	CORE-45179
EUMCloud	getAnalyzeData 500 Response	CORE-45427

EUMCloud	Occasional NumberFormatException when running eum-processor	CORE-45679
EUMCloud	"Cannot find canonical crash" is logged at error level, but not really an error	CORE-46224
Installer	Installer does not honour TMPDIR on Linux	CORE-36137
Installer	Upgrading controller from 3.7 or 3.8 to 4 doesn't delete JDK	CORE-41120
Installer	Silent install on Windows without hotfix does not work even on applying skip validation flag	CORE-43291
Installer	Controller Installer throws com.install4j.api.beans.UndefinedVariableException: installer:global_account_name at upgrade	CORE-43666
Android Agent, iOS Agent	Some crash timestamps were wrong	CORE-37780
iOS Agent	Agent calls fail with trailing slash on Collector URL	CORE-41827
iOS Agent	fetchAllBeaconsWithHandler: throws exception if call to sqlite3_column_text fails	CORE-45557
iOS Agent	ADEumAgentConfiguration designated initializer should be documented	CORE-45839
iOS App	Mobile iOS App Time Range Selector shown sideways in landscape mode	CORE-33617
iOS App	Improve formatting of large values in mobile app	CORE-37296
iOS App	No errors / no should be formatted as dash instead of -1	CORE-37926
iOS App	iOS Mobile App: push event detail doesn't open when account logged out	CORE-39149
iOS App	Mobile App: Event Detail From push notification doesn't open when App at certain screens	CORE-39276
iOS App	iOS Mobile App: Updating the account config should invalidate the session token	CORE-39672
iOS App, UI	iOS App: Scrolling behavior with search field selection	CORE-40861
iOS App	SAML + iOS app v1.0.1 not working with active directory federation services	CORE-40922
iOS App	iPhone App - Enabling "Show Baseline" Setting does not Stick	CORE-44393
iOS App	Crash in iPhone 5; App is not logging in correctly	CORE-45887
JSAgent	JSAgent smoke test case TooLateToWrapXhrOrscTest hangs	CORE-32347
JSAgent	One of JSAgent smoke test case TooLateToWrapXhrOrscTest fails	CORE-32354
JSAgent	Some functions in TypeScript version JSAgent removed as dead function by Google Closure Compiler with ADVANCED_OPTIMIZATIONS	CORE-32377
JSAgent	Malformed JS error does not send an error beacon and the normal beacon hits a 404	CORE-35699
JSAgent	jsagent not setting isAjax:true header for Betsson XHR calls	CORE-38353
JSAgent	EUM Agent not catching Javascript Error message	CORE-40323
JSAgent	Untested error condition in adrum-ext.js: null ADRUM.navTiming	CORE-41355
JSAgent	EUM: Cannot access caller: TypeError: access to strict mode caller function is censored	CORE-42019
JSAgent	EUM: Custom naming rules may not work on URLs greater than 180 characters	CORE-46356
Machine Agent	Stopping machineagent with custom monitors configured results in java.util.ConcurrentModificationException	CORE-30072
Machine Agent	Machine agent error events masked by event limit	CORE-33377
Machine Agent	Machine agent shouldn't listen on all interfaces by default	CORE-37446
Machine Agent	Machine Agent Fails to Start on Docker	CORE-38685

Machine Agent	Machine Agent shuts down after re-registration request from Controller	CORE-39314
Machine Agent	Aix memory is reported inconsistently with some third party tools	CORE-39342
Machine Agent	solaris hardware monitor lacks configurable filesystem information	CORE-39343
Machine Agent	Machine Agents Hardware Monitors occasionally drop metrics	CORE-39345
NativeAgent	Fix the SDK header file for compilation for C.	CORE-33738
NativeAgent	Apache Agent: Exit Calls always show ZERO Total Time/Execution Time	CORE-42055
NativeAgent	Apache Agent (module): configuration directories created by agent not consistent	CORE-42532
Node.js Agent, UI	BT Call Graph is empty and cutoff	CORE-37941
Node.js Agent	Agent crashes Node.js process on invalid response from proxy	CORE-38981
Node.js Agent	Custom match/exclude priorities are applied in reverse order from other agents	CORE-41099
Node.js Agent	Agent can cause http calls to fail in 0.8.*	CORE-41227
Node.js Agent	notxdetect not handled correctly by node.js agent	CORE-42045
Node.js Agent	Argument should be a buffer in ProxyTransport.receiveConfigResponse	CORE-42095
Node.js Agent	Node Agent can't report custom transaction based on web request if BT detection is turned off	CORE-42122
Node.js Agent	getTransaction() api in 4.1 initializes txn.time incorrectly, leading to a failure on txn.end()	CORE-42123
Node.js Agent	Improve proxy process launching management	CORE-42461
Node.js Agent	Agent crashes when using HTTP.get with no protocol specified	CORE-44028
Node.js Agent, UI	Dynamic loading of call graph in snapshot viewer sometimes fails, removing the call graph option from the menu	CORE-45090
PHP Agent	HTTP string parameters stored with extra quotes in DB	CORE-42961
PHP Agent	mysql exit calls using default links are not supported	CORE-44341
UI	"Create" button sometimes greyed out when creating exit point from BT call graph (by right-clicking on a call)	CORE-24420
UI	'Edit my Account' Page Prompts incorrectly allows user authenticated via SAML to attempt to change their password	CORE-25033
UI	Incorrect async percentage time displayed on Snapshot	CORE-27060
UI	First time sign in introductory pop up is truncated when user navigates to a different page	CORE-32608
UI	No Snapshots available for SQL call listed in "Slowest Database Calls" despite "View Snapshots" button present	CORE-32636
UI	Transaction Discovery displaying blank screen when asked to edit Node config	CORE-34619
UI	Marquee selector broken on Tier and Node flowmaps	CORE-34927
UI	Number of errors column missing from Business Transaction list	CORE-34967
UI	Controller Account License should not show exception in EUM usage section	CORE-35054
UI	Under Error Detection, add ability to turn on/off error detection for individual logging frameworks (SLF4J, Logback, and log4j 2.0)	CORE-35240

UI	Active session list does not show the total number of results	CORE-35390
UI	Active war room list screen has display issues when room name is max length	CORE-35475
UI	In Collector Configuration, creating a new collector with existing name throws exception instead of showing a user-friendly message	CORE-35508
UI	By default, usage stats should show all rows	CORE-35822
UI	Auto-refresh does not work on Remote Service / Database dashboard for Last 5/15 minute time ranges	CORE-36306
UI	Count drilldown chart renders incorrectly in the dashboard when in full screen mode	CORE-36765
UI	Sometimes UI incorrectly displays "Move Node not Supported" dialog	CORE-36767
UI	Method matching in Application Configuration - Instrumentation has a checkbox despite being a mandatory field	CORE-36874
UI	After changing Application name old name is still visible on certain screens	CORE-36893
UI	Java 8 - non-heap memory Used % and Max Available (MB) are incorrectly registered and reported as 0 in metric browser	CORE-36918
UI	Custom Dashboard event list "Show older" doesn't work properly in view mode	CORE-36924
UI	Custom Dashboard "All Other Traffic" BTs not named correctly in series selector	CORE-36925
UI	Tier and Node positions are not correctly persisted on flowmaps	CORE-36934
UI	Browser Snapshot List - Improve layout of filters	CORE-36939
UI	Node and Tier flowmaps do not persist position	CORE-36955
UI	Empty title in Create Report causes report to fail	CORE-37023
UI	No Loading spinner after saving changes on admin account screen	CORE-37033
UI	Custom Dashboard - Updating a data series throws exception	CORE-37034
UI	Business Transaction Discovery Snapshot List returns more records than requested	CORE-37037
UI	Change in Node property min-duration-for-jdbc-call-in-ms is not reflected in wording in call graph	CORE-37050
UI	HR Violations count does not update when time range changes	CORE-37057
UI	Metric Browser drill-down doesn't work with War Room widgets	CORE-37099
UI	Create Account from admin Ui incorrectly sets data retention period to 0 for analytics	CORE-37100
UI	Text cut off in "Create Policy" modal	CORE-37128
UI	Performance dash bad state when copying and deleting original	CORE-37151
UI	Typo on Getting Started screen with .NET	CORE-37211
UI	Custom Dashboard Event Table lacks a label to identify the source application	CORE-37251
UI	"View in database monitoring" shows up for non-DB backends	CORE-37268
UI	'Type' column on Business Transaction list is missing tooltip	CORE-37272
UI	Reports Scheduled default timeranges should match frequency	CORE-37279
UI	Reports User not be warned of missing SMTP setup	CORE-37282
UI	DB2 object browser: Index name is not a link and hence we cannot navigate to the index	CORE-37303

UI	Class name truncated in the Snapshot invocation trace of a Call Graph	CORE-37329
UI	Native agent config enable-naming-config property is not consistently set by UI	CORE-37417
UI	War Room List view is showing Presenter's userName, it should be display name for better UX	CORE-37420
UI	Custom Dashboard does not retain layout	CORE-37468
UI	"Show exceptions with 0 count" option on error list doesn't function correctly	CORE-37650
UI	Spark charts in Business Transaction list should be aligned	CORE-37718
UI	Crash dashboard Crash distribution pie chart legends overflow their container	CORE-37733
UI	It's not clear when Browser Snapshots only have error information	CORE-37737
UI	Improve UI performance of home screen	CORE-37815
UI	Data displayed on HTML Slow DB and Remote Service Calls page does not match values shown on Flash version of page	CORE-37841
UI	Range filter not correctly executes search when upon losing focus	CORE-37851
UI	Transaction Scorecard on Application Dashboard shows negative values and percentage totals greater than 100%	CORE-38012
UI	The EUM Analyze dashboard is firing too many queries (37) every 2 min	CORE-38018
UI	User Interface allows user to attempt deletion of the "All Other Traffic" transaction	CORE-38033
UI	Updating a scheduled Report from "Weekly" to "One Time Only" fails	CORE-38101
UI	Table in database backend mapping dialog overflows the right margin	CORE-38173
UI	Custom Dashboard - Mobile dashboard not rendering properly	CORE-38303
UI	Policy evaluation by nodes grid doesn't have node names	CORE-38311
UI	Clicking on Business Transaction scorecard while using a custom time range reverts to Last 15 Minutes preset	CORE-38318
UI	Problem viewing Swedish letters in Left menu in 3.9.x and 4.x controllers	CORE-38319
UI	Incorrect behavior for numeric filter when operator is changed	CORE-38411
Controller-APM, UI	Negative values on Service Endpoints	CORE-38497
UI	Poor layout of Analytics Home Card when resizing	CORE-38553
UI	Cannot drill into second of two grouped databases via database hovercard	CORE-38637
UI	Hover over a button with red background and white text will cause the background to disappear	CORE-38769
UI	Getting Started EUM cannot find eumAppKey	CORE-38780
UI	Business Transaction list - Export grid data popup should close after clicking on "Export to CSV"	CORE-38893
Controller-DevOps, UI	Audit report does not support excluding users	CORE-38975
UI	Custom Dashboard - Refreshing the browser causes event list widget configuration to revert to default settings	CORE-39114
UI	Flowmap unexpectedly zooms in while panning the view	CORE-39138
UI	Application Dashboard flowmap legend is always truncated	CORE-39158

UI	War Room - UI continues to poll the backend services when it's ended	CORE-39167
UI	Custom Dashboard - Adding a new data series in a graph widget causes other data series configuration to change	CORE-39225
UI	War Room - Wrong affected entity match criteria is set by war room frontend UI when creating streaming widget	CORE-39234
UI	War Room - Each click on the streaming widget result in an unnecessary auto save operation.	CORE-39235
UI	Custom Dashboard - Selection tables in the event list properties widget are too small	CORE-39249
UI	Custom Dashboard - Click on the Graph widget causes chart relayout	CORE-39316
UI	War Room - Not able to select the dot net nodes in streaming widget	CORE-39349
UI	Log search not returning correct results when REST uris are searched	CORE-39367
UI	"Has Server Snapshot" column of Browser Snapshots list doesn't sort	CORE-39414
UI	Old AppD logo still being used in alert emails	CORE-39424
UI	Reports - Dashboard not visible in IE10 and Firefox, but is visible in Chrome	CORE-39481
UI	Improve search box semantics	CORE-39490
UI	Text in network request snapshot details should be selectable	CORE-39514
UI	DB Monitoring collector dialog - "Operating System" should be a required field when OS monitoring is enabled	CORE-39622
UI	Y-Axis of crash analytics histogram has incorrect label when using long time range	CORE-39628
UI	Crash analytics histogram tool tip is formatted incorrectly	CORE-39629
UI	Metric Browser Snapshot Drilldown Link for EUM Metrics should link to Browser Snapshots	CORE-39641
UI	Numbers need to be formatted in the page dashboard	CORE-39653
UI	Custom Dashboards not working on Blackberry 10 browser	CORE-39660
UI	Snapshot list view does not display Chinese characters properly	CORE-39684
UI	Mobile crash dashboard lays out incorrectly when there are large numbers of devices, OS versions, carriers	CORE-39720
UI	License Screen Message Not Needed If No Applications Present	CORE-39739
UI	Pro trial banner appears in on-premise	CORE-39806
UI	EUM Data Pull Range Too Great	CORE-39906
UI	When using custom time range the chart starts with a minute after than that chosen in the custom time range.	CORE-39925
UI	Cards view shows incorrect results as compared to the list view when searching	CORE-39926
UI	Clicking on error in database server list and card view should navigate to the events page	CORE-39928
UI	Long strings breaks render incorrectly for filters.	CORE-39954
UI	Time spent in database and load does not display any data in metric browser when coming from the dashboard page	CORE-39999
UI	Admin UI: Form validator not recognizing expiry date change, when saving	CORE-40084
UI	Licensing: Module expiry date not converted correctly	CORE-40085
UI	Unable to create Custom Exit Point at Application level via Snapshot	CORE-40119

UI	Geo dashboard map should include the "Server Connection Time" metric	CORE-40151
UI	Better explain servlet POST params matching	CORE-40158
UI	Sql Server Object browser: View is not refreshed if the agent throws an error	CORE-40243
UI	Server time in a browser snapshot doesn't always match the BT time	CORE-40246
UI	Health rule violation opens violation time range window, not evaluation time range window	CORE-40249
UI	Compare response times against baseline, Node health drill down, and clickable flow line metrics missing in new flowmaps	CORE-40252
UI	Refresh button doesn't update Health Rules > Evaluation Events	CORE-40365
UI	Text cut off in Evaluation Event tab's time range dropdown	CORE-40372
UI	Clarify that "use the last X minutes" also means no evaluation of the health rule for X minutes	CORE-40387
UI	View Dashboard During Health Rule Violation button navigates away from Database Monitoring application	CORE-40392
UI	Machine agent version string is incorrect	CORE-40410
UI	Cannot search analytics data by custom user data fields	CORE-40530
UI	War Room - Streaming widget UI can't select node when adding data series	CORE-40559
UI	Contextualize errors spit out by database in execution plan page	CORE-40728
UI	Line chart not displaying correctly for manual resolutions	CORE-40743
UI	Tier and Node positions on flowmaps are not persisted	CORE-40752
UI	Clarify when email configuration is required	CORE-40764
UI	Reports - Audit Report seconds field missing leading 0	CORE-40860
Controller-DevOps, UI	Scheduled Reports - Custom Dashboard - Not showing well with template	CORE-40871
UI	UI sometimes fails to show the progress of transient sessions during object browser operation	CORE-40895
UI	UI should show progress of transient sessions during object browser operation	CORE-40903
UI	Agents listed as available in Nodes tab of dashboard hovercard, even if it is not reporting	CORE-40973
UI	Notification Center : change polling time range to last 15 min.	CORE-41080
UI	Custom Dashboard export failure results in an error page, not an error popup	CORE-41153
UI	Cannot drill into backend from Business Flowmap	CORE-41168
UI	Use "Database Agent" instead of "Database Agents" in the collector dialog	CORE-41250
Controller-APM, UI	Account level Flow View flowmap fails to render when a user has "Account Owner" role and view permission an app in cross-app correlation	CORE-41297
UI	User Analytics should be able to filter by Custom User Data	CORE-41366
UI	User data filtering should be an option on Browser and Mobile Analyze screens	CORE-41372
UI	Analytics data grid not using renderers for expanded details view	CORE-41375
UI	Custom Dashboard - Changes to the Event Filters impact Event List filter settings	CORE-41397
UI	Reports - Update doesn't works for reports	CORE-41407

UI	Reports - Scheduled report has unwanted borders, odd layout	CORE-41655
UI	Progress spinners are missing from mobile screens	CORE-41665
UI	Date format in custom time range of dashboard is not in sync with the settings in view preferences	CORE-41728
UI	Mouse Wheel Scrolling on Metric Browser does not work if it's overlapping the left panel	CORE-41784
UI	Network Requests Snapshots list is missing "Loading" icon	CORE-41925
UI	Right-click context menu when right-clicking on a Email Digest says "Enable Policy" and "Disable Policy" instead of "Digest"	CORE-42083
UI	Network Requests view missing loading icon	CORE-42155
UI	Health Rule Violation Unexpected Popup	CORE-42188
UI	Refresh indicator icon should show only once when refresh is clicked multiple number of times on Transaction Analytics screen	CORE-42247
Controller-APM, UI	Duplicate tier error message is not friendly	CORE-42312
UI	Some BT Custom Match Rule types are missing the priority field	CORE-42357
UI	Drill down button missing on Snapshot flowmap	CORE-42438
Analytics, UI	HTTP parameters in Analytics not visible with large number of values	CORE-42515
Controller-DevOps, UI	Reports list can not be seen in some browsers	CORE-42525
UI	Custom time range management not ACID-compliant	CORE-42711
Controller-DevOps, UI	Custom Dashboard PDF problem	CORE-42837
UI	Empty schema is passed from the UI to the DBAgent during execution plan	CORE-42850
UI	EUM Naming rules requires text even when using "URI Not Empty"	CORE-42969
UI	Snapshot flowmap drill down to downstream app action goes to wrong place	CORE-43274
UI	Custom Dashboard application selection not persistent (defaults to first in drop down list) in Events widget and scroll bar does not work	CORE-43298
UI	Tier missing when selecting BTs for Analytics	CORE-43300
UI	Unable to remove Analytics criteria on Firefox	CORE-43445
Controller-APM, UI	Disable metric bowser pop-up for all the widget in shared URL dashbaord	CORE-43473
UI	UI DTOs contain unnecessary fields Usage Stats screens	CORE-43556
UI	Network Request List JSON needs to be trimmed	CORE-43561
UI	Network Request Snapshot Grid JSON Needs to be trimmed	CORE-43566
UI	Search box in Business Transaction list clears criteria when enter / return key is pressed	CORE-43570
UI	Search & Dashboards not correctly loading data	CORE-43591
UI	Custom Dashboard Metric Value metric property type doesn't update across selections	CORE-43625
UI	"Error Count" column missing from Business Transaction list	CORE-43719
UI	Remote Services list occasionally displays wrong type	CORE-43722

UI	Excluded packages references in Python Call Graph Settings	CORE-43804
UI	Browser Snapshot List EURT should default to Front end time if not present	CORE-43880
UI	Mobile Network Request List JSON Optimizations	CORE-43931
UI	Cannot filter on specific errors from the Snapshot list on the Troubleshoot -> Errors page	CORE-43951
UI	Service Endpoints landing page does not update when switching Applications	CORE-43985
UI	Duplicate requests are generated when double clicking the table name in Oracle object browser	CORE-44053
UI	Javascript error on Business Flow screen	CORE-44204
UI	Need pre-filled account name in URL	CORE-44490
UI	Analytics UI pages that access EUM data should use EUM's controller setting	CORE-44496
UI	Navigation panel disappears when using IE 11	CORE-44581
UI	EUM location of "Cheshire" in the UK is incorrect	CORE-44593
UI	Switching between Applications does not refresh the Backend Detection configuration view	CORE-44610
UI	Reports - Tier / Node dashboard report option is not applicable	CORE-44614
UI	Custom Dashboard - Search for databases & remote services when adding series hangs	CORE-44769
UI	Custom Dashboard - Browser and Mobile Device Browser display differently	CORE-44878
UI	Remote Services tab of Configure Flowmap dialog is unusable	CORE-44979
UI	Deep link to login form with account name set in URL param not working	CORE-45050
UI	Custom Dashboard numbers are not right aligned in page dashboard	CORE-45125
UI	Flowmap shows "No Load detected for selected time range" when calls/min is <1	CORE-45142
UI	Flow map connections are not displayed if calls/min is 0, even though Tiers are displayed	CORE-45190
UI	UI allows trial user to select time ranges they do not have access to	CORE-45292
UI	Exception thrown when histogram search results is undefined	CORE-45365
UI	Custom Dashboard - Viewer height Incorrect	CORE-45394
UI	.NET Disable Agent dialog should not have "Disable all Communication" checkbox	CORE-45526
UI	Hitting escape while editing a custom time range results in a black screen	CORE-45623
UI	Custom page naming rules should not use anchor by default	CORE-45754
UI	Regex Groups help text in Backend naming configuration is incorrect	CORE-45955
UI	Custom Dash - event list widget - tier / node event filter does not persist correctly	CORE-46039
UI	Node dashboard tabs are not deep linkable	CORE-46044
UI	AppDynamics Left Navigation Tree Disappears	CORE46314

4.1.0.1 Updates

Resolved Issues

Component	Summary	Key
Analytics	Upsert and publish flow should not stop pipelines (Kafka pipeline in SaaS)	CORE-46856
Controller-APM	Transaction Snapshots screen is unusably slow	CORE-47079
Controller-DevOps	Failed to migrate dashboard if it's copied from another dashboard before migration	CORE-46276
Controller-DevOps	Upgrade to 4.1 slow due to policy violation tag replacements during schema upgrade	CORE-46910
UI	Data not showing up on Main Dash Geo Map Widget	CORE-47022

4.1.0.2 Updates

Resolved Issues

Component	Summary	Key
Controller-APM	Error retrieving flow map data	CORE-47335
Controller-Platform	REST API calls does not work with local user authentication for LDAP- or SAML-authenticated Controllers	CORE-47373
DB Agent	NullPointerException in Controller home page when user with limited permission logged in	CORE-46841
UI	SSL should change port to 443 in Download Wizard	CORE-46333
UI	Getting Started Wizard port not set correctly	CORE-47317

4.1.0.3 Updates

Resolved Issues

Component	Summary	Key
Analytics	EUM User Activity Analytics with read-only account not working	CORE-47407
Controller-DevOps	Can't view or create dashboards	CORE-47504
Controller-EUM	EUM configuration not accessible, wrongly saying "Your account is not currently licensed for End User Monitoring"	CORE-47352

4.1.0.4 Updates

Resolved Issues

Component	Summary	Key
Analytics	Errors occur while updating Events Service properties in Release 4.1.0.3 installation	CORE-47617

4.1.0.5 Updates

Controller Notes

New in 4.1.0.5 and later versions of 4.1.0.x, and 4.1.1 and higher To enable the Controller to monitor the additional metrics available in the beta version of Server Monitoring, you must set the Controller's JVM option, -Dappdynamics.controller.sim.enabled=true and restart the Controller. See Configure and Enable Server Monitoring - Beta.

Resolved Issues

Component	Summary	Key
Controller-Platform	Cache for tracking zero-filled metrics cache does not expire metrics	CORE-44567

4.1.0.6 Updates

Resolved Issues

Component	Summary	Key
Machine Agent	Machine Agent on Windows shuts down every 30 minutes	CORE-48655

4.1.1 Updates

Enhancements

Node.js Agent

- The Node.js Agent supports Node.js version 0.12.5 and 0.12.6.
- The bug in the V8 sampler used by Node.js. 0.12.x versions prior to 0.12.5, which prevented the agent from capturing call graphs, was fixed in Node.js version 0.12.5. If you are using Node.js 0.12.x, you should upgrade your Node.js version to 0.12.5 or later and your AppDynamics Node.js Agent version to 4.1.1 to capture call graph data.

Controller Updates

- An issue prevents scheduled reports on 32-bit Linux on-premise installations. For a workaround see the note in Reports.
- The Platform Administration Application has changed as follows:
  - The `setup` command for the Platform Administration Application no longer starts the Platform Administration Application when finished setting up. You need to start the process manually after setup is complete.
  - A new property named eumAPIKey has been added added to EventsServiceConfigTemplate.yml. It should get the

value of the appdynamics.es.eum.key from the Controller Settings in the Administration Console.

- Directory paths in the Events Service installation have changed. Previously, the `bin`, `conf` and `lib` directories resided in a subdirectory named by the version, `4.1.0.0`. The directory structure is now:

```
/events-service
    - /bin
    - /conf
    - /lib
```

For upgrade information, see Upgrade the Events Service.

- The ad.accountmanager.key.eum property now appears as a Controller Setting in the Administration Console.

UI Updates

- The mislabeled selected tiers and selected nodes lists in the health rules and policy configuration panels noted in the 4.1 release notes has been fixed. The list on the left is correctly labeled Selected Nodes or Selected Tiers. The list on the right is correctly labeled Other Nodes or Other Tiers.

Application Analytics

- User Analytics (Beta) now supports scheduled query metric creation. The mechanism is the same as for Transaction and Log Analytics.

Browser RUM

- The DOM Ready Time (DOM) metric is no longer reported for iOS or for Opera browsers, since those platforms don't report this metric accurately.

Controller Notes

- *New in 4.1.0.5 and later versions of 4.1.0.x, and 4.1.1 and higher* To enable the Controller to monitor the additional metrics available in the beta version of Server Monitoring, you must set the Controller's JVM option, -Dappdynamics.controller.sim.enabled=true and restart the Controller. See Configure and Enable Server Monitoring - Beta.

Resolved Issues

Components	Summary	Key
.NET Agent	MethodWithTaskReturnInstrumentor can cause sampling to fail	CORE46562
.NET Agent	System.Messaging.MessageQueue.ReceiveCurrent exceptions	CORE-46565
.NET Agent	Machine Snapshot error message (in warn.log) misses string values for the format items	CORE-46908
.NET Agent	System.NullReferenceException - Messaging Send Interceptor	CORE-46994
.NET Agent	WCF application crash due to System.TypeLoadException	CORE-47467
.NET Agent	Null Reference Exception at MessagingSendHeaderInterceptor	CORE-47643
Agent	POJO business transaction stops reporting if service endpoint with split rule is configured on same class/method	CORE-43017
Agent	Hotspot logs error messages in agent log when using IBM JDK	CORE-46439

Agent	SpringIntegrationMessageHandlerEntryInterceptor leaks CRC	CORE-47035
Analytics	Remove accounts from routes when they are no longer active	CORE-41085
Analytics	"All shards failed" exception in upgraded 4.1 Event Service processor	CORE-46435
Analytics	Production purge process severely impacts cluster performance, leading to Kafka lag increases	CORE-46777
Analytics	EventServiceHealthChecks reports v1 and v2 path meters under hard coded v1	CORE-46855
Analytics	Events service failed to update, while controller upgrade from 4.0.x to 4.1.Next	CORE-46976
Analytics	ad.kafka.auto.leader.rebalance.enable property in the kafka broker j2 templates should be set true	CORE-46983
Analytics	stacktrace of MobileSnapshot event type in Production SaaS Event Service does not match to mapping file we shipped	CORE-47133
Analytics	The /v1/account API has very high latencies	CORE-47307
Analytics	events-service.sh stop command doesn't work with symlinks	CORE-48197
Android Agent	Proguard upload silently fails and gets into a bad state	CORE-46192
Android Agent	Android Agent Maven Plugin on Maven Central does not work	CORE-46649
Controller-DevOps	Metric name comparison should be case insensitive in health rule evaluation	CORE-45457
Controller-DevOps	War room: anonymous user can use real-user's username which blocks her from joining	CORE-46166
Controller-DevOps	Performance issue loading Health Rule Violations	CORE-46292
Controller-DevOps	Error handling entity deletion in health rules	CORE-46481
Controller-DevOps	Status Light widget data error when user has permission to view dashboard but not the application	CORE-46898
Controller-DevOps	Dashboards not Editable, Deletable or importable after upgrade	CORE-47473
Controller-DevOps	Image widget to support base64 encoding embedded image	CORE-47556
Controller-Platform	MySQL: opening a BT flowmap takes 10-15 seconds	CORE-43440
Controller-Platform	Overflow in metric data tables (65535) due to sudden jumps in application_component ID (from sequence table)	CORE-44976
Controller-Platform	Sanity check failure reported as NPE in EUMCloudManagerBean.handleMetricId	CORE-45758
Controller-Platform	Platform-admin sets master = false for events-service node 4 and above (only 1, 2 3 should be master enabled)	CORE-46560
Controller-Platform	Default Controller MaxPermSize too small, crashes controller with java.lang.OutOfMemoryError	CORE-46870
Controller-Platform	ssh key file not passed to restart cluster command	CORE-47071
Controller-Platform	commons-collections jar is deployed incorrectly by patch upgrader	CORE-47102
Controller-Platform	Single API for account creation doesn't create account correctly if EUM details	CORE-47424
Controller-Platform	NPE in metric browser initialization (ApplicationMetricTreeEventHandlerMetricBrowser.getErrorsItem)	CORE-47639
Controller-Platform	Browser and Network Snapshots screens are slow to load and result in time out errors	CORE-47723
DB Agent	Fix DB agent logger format to show the full date	CORE-39537
DB Agent	Issues with database hardware monitoring using SSH certificate	CORE-39803
DB Agent	DB Agent error can cause ClassCastException in controller log	CORE-44676

EUMCloud	iOS web beacon timing issues	CORE-46036
EUMCloud	NPE parsing HAR for www.accessorygeeks.com	CORE-46042
EUMCloud	IP isn't set if Geo is unknown in browser snapshot	CORE-46428
EUMCloud	CrashProcessor throughput is lowered dramatically during migration	CORE-46697
EUMCloud	EUM get-version servlet missing all detail version Info	CORE-47068
EUMCloud	NPE thrown while processing some crash reports	CORE-47080
EUMCloud	Make Mobile mapping files consistent with code	CORE-47147
EUMCloud	Error metrics should not be captured if JS error capture is disabled	CORE-47263
EUMCloud	Page Referrer is missing in BrowserSnapshot	CORE-47264
EUMCloud	IP not displayed with pre-4.1 controllers	CORE-47902
Installer	Two Uninstall Entries for EUM-Processor after upgrading from 3.9.8 to 4.1	CORE-46527
iOS Agent	Server correlation doesn't work with NSURLSession	CORE-46645
iOS Agent	CocoaPods Podspec has Incorrect Header File Path	CORE-47173
JSAgent	JSAgent fails to send beacon when the XMLHttpRequest has been intercepted by other JS libraries	CORE-39468
Machine Agent	Maximum metrics JVM argument is no longer respected	CORE-47764
Node.js Agent	Support mongodb npm driver 2.0 and next	CORE-42893
PHP Agent	RabbitMQ backend for PHP is sometimes disabled by default using automation framework	CORE-42793
PHP Agent	When primary node startup fails, proxy needs to recycle the old node to avoid open files	CORE-45570
Python Agent	Agent causes python processes to consume > 200MB memory	CORE-45547
Python Agent	Python agent doesn't clean up dirs in /tmp	CORE-47377
SIM-server	High number of blocked threads at getSimNodeIdForMachineInstanceId	CORE-47968
Synthetic Agent	Synthetic beacons getting dropped due to redirects (Firefox + HTTPS + SPDY)	CORE-39213
Synthetic Agent	Some schedules create workload that leaves orphan Flash procs in agents	CORE-46266
Synthetic Agent	When wpt-server unreachable, NPE in shepherd	CORE-46939
Synthetic Agent	Synth scheduler not responding for all customers	CORE-47814
UI	All Analytics grid widgets should use the loading indicator	CORE-41519
UI	Usage Stats no data message is too small	CORE-41520
UI	Schedule UI accepts "61 minutes" and gives wrong usage estimate	CORE-43407
UI	Analyze custom pie charts don't match prepackaged pie charts	CORE-43529
UI	Page list - switch from All to Top Pages shows blank on first toggle and weird layout on subsequent toggles	CORE-43540
UI	Analytics Extracted Fields - the source type doesn't list all values	CORE-43839
UI	Setting interval selector value greater than 60 in the new synthetic schedule form gives wrong validation message	CORE-44140
UI	If EUM account not found, EUM pages show NPE error	CORE-45070
UI	Scheduled reports email doesn't work for reports installed in 32-bit environment	CORE-45116

UI	View missing dSyms shows all the time and on the pop-up, the button is enabled with empty grid	CORE-45467
UI	Synthetic test succeeded column is bigger than needed	CORE-45601
UI	Page List Grid does not reflect column visibility (View Options) when user sets preference, navigates away and returns	CORE-46004
UI	Network Request Analyze Region filter selector should not show State selector	CORE-46082
UI	Custom Dashboard importing fails on latest Firefox on Windows 8.1	CORE-46111
UI	Tooltips on all EUM map widgets have incorrect text when no data returned	CORE-46113
UI	HTML snapshot viewer is not merging stalled RSDs	CORE-46191
UI	Cross app view showing tiers as application_component:ID	CORE-46226
UI	Failure percentage display in analytics metrics is incorrect	CORE-46230
UI	NPE in AllApplicationsController	CORE-46323
UI	Gauge Widget JSError	CORE-46326
UI	Custom Dash (absolute mode) > Property Panel and scroll bar issue	CORE-46370
UI	Page Referrer missing in browser snapshot view	CORE-46422
UI	Synthetic Analyze - Time series graphs don't follow time range exactly	CORE-46490
UI	IFrame's Parent Page icon is always iframe even though its parent is a base page	CORE-46533
UI	NPE at Browser Snapshot Page after upgrading from 3.9.8 to 4.1	CORE-46536
UI	Ad Blocker causes some of the widgets in network requests dashboard to be empty	CORE-46694
UI	Analytics Geo Widget doesn't return all countries	CORE-46812
UI	UI does not validate custom time ranges	CORE-46820
UI	Node and Tier entity selectors - selected and available labels reversed	CORE-46844
UI	Time series count drilldown visualization shows incorrect / stale data	CORE-46925
UI	Query row disappears in both data and visualization tabs	CORE-46927
UI	Events visualization disappears on data tab	CORE-46928
UI	"Data" and "Visualization" tabs don't work if a widget is expanded to 'full screen'	CORE-46931
UI	Analytics visualizations stop rendering	CORE-46932
UI	Reporting service undefined configuration error	CORE-46986
UI	Custom Dashboard: Copy Dashboard shows 'Internal error' if source dashboard has no widgets	CORE-47051
UI	Some docs links still link to 4.0 instead of 4.1	CORE-47156
UI	Tree map and circle pack showing values not labels	CORE-47174
UI	Enable scheduled queries from UI for Browser/Mobile Request datasets	CORE-47345
UI	Analytics download CSV feature for search results missing in 4.1	CORE-47422
UI	UI - Custom Servlet Match Rule - Split Transaction Using Payload tab disappears	CORE-47533
Web Server Agent	Web Server Agent diagnostic sessions snapshots do not associate themselves with the session	CORE-42500

4.1.1.1 Updates

Resolved Issues

Component	Summary	Key
Analytics	Index compaction not working for static indices	CORE48454
Machine Agent	Machine Agent on Windows shuts down every 30 minutes	CORE-48655

4.1.1.2 Updates

Resolved Issues

Component	Summary	Key
Controller-DevOps	Upgrade to 4.1.1.0 failed with MySQL foreign key constraint error	CORE48750
Controller-EUM	Related snapshots search should be based on ppGUID	CORE-48977
EUMCloud	XHR linking to parent BP or VP should based on parentGUID not baseGUID	CORE-48976
UI	Incorrect Controller version indicated in 4.1.1.1	CORE-48879

4.1.2 Updates

Enhancements

Node.js Agent

- An optional parameter has been added to the createCorrelationInfo() api to prevent the custom backend from resolving to a tier. See Node.js Agent API Reference.
- The Node.js Agent supports Node.js versions 0.10.40 and 0.12.7.

Python Agent

- HTTP data collectors are now supported through the AppDynamics UI. See Collecting Application Data.
- You can add custom data to a transaction snapshot using the add_snapshot_data() api. See Python Agent API Reference.
- The Python Agent can now correlate Browser RUM snapshots and network request snapshots (Mobile RUM) with business transaction snapshots. See "Correlated Transaction Snapshots and Business Transactions" in Page Browser Snapshots and "Business Transactions in Network Request Snapshots" in Network Request Snapshots.

Standalone Machine Agent

- You can now configure the Standalone Machine Agent to report free memory in a more useful way—free if the memory is in an I/O buffer or cache but can be made available to new processes (as opposed to free if the memory is not used by any process and isn't in an I/O buffer or cache).

To report the memory as free if the memory is in an I/O buffer or cache but can be made available to new processes, in <machine_agent_home>/monitors/HardwareMonitor/config.sh, set REPORT_MEMORY_FREE_AS_MEMORY_AVAILABLE to 1 and restart the agent. By default, REPORT_MEMORY_FREE_AS_MEMORY_AVAILABLE is set to 0 and the agent reports memory as free if the memory is not used by any process and isn't in an I/O buffer or cache. Customers using the newer SIGAR metric reporting will be unaffected. See Configure Free Memory Reporting.

Mobile RUM

- iOS Agent repeatedly crashes in iOS 9 Beta has been resolved
- Slashes can now be used in mobile network request names
- Resource Loading Parallelism Ratio metric has been removed
- Additional widgets in Mobile Overview Dashboard available:
    - Histogram of Network Request Time
    - Network Request Time by Country
    - Network Request Time Trendline
    - App Loads by Country
    - App Starts per Minute
    - Crash Rate by Device
    - Crash Rate by Manufacturer
    - HTTP and Network Errors over Time

Browser RUM

- To reduce noise in data stored in the Events Service, Ajax calls from the following tracker domains are no longer published to the Events Service:
    - .mixpanel.com
    - .google-analytics.com
    - .altocloud.com
    - .optimizely.com
    - inspectlet.com
- User agent string processing has been optimized to bucket browser version by number to one decimal point.

Application Analytics

- A Windows Service installer has been added for the Analytics Agent. See Installing Agent-Side Components.

Resolved Issues

Component/s	Summary	Key
.NET Agent	Only one POCO Service Endpoint works per application	CORE-37789
.NET Agent	Analytics agent fails with error "failed to parse date field [2015-05-01T15.44.56.126+00.00], tried both date format [dateOptionalTime], and timestamp number with locale []"	CORE-44152
.NET Agent	Custom match rule parsing breaks if < character is part of custom rule	CORE-45391
.NET Agent	Instrumenting method faults if it contains out parameter to generic reference type	CORE-46294
.NET Agent	Correlation not working with EUM and WCF endpoint	CORE-47387
.NET Agent	Snapshots not capturing Session ID for ASP.NET MVC applications	CORE-47519
.NET Agent	Custom Exit (using Args) in RemotingExitInstrumentor not working	CORE-47644
.NET Agent	Oracle Connecting string in snapshot showing the username and passwords in clear text format	CORE-47956

.NET Agent	Legacy Instrumentation feature not per design	CORE-48220
.NET Agent	PDB Mismatch on 32-bit systems	CORE-48566
.NET Agent	4.1 agent upgrade detects Unknown backends for EF calls (connection open)	CORE-48635
Agent	Should call getQueue instead of getDestination on TibjmsQueueReceiver	CORE-42963
Agent	IBM MQ "Unresolved Destination" for some drivers	CORE-46701
Agent	Hotspot instrumentation triggers removal of Play WS API exit instrumentation	CORE-47340
Agent	NullPointerException on TurboCustomExitPointInterceptor	CORE-48319
Agent	No activity detected after completion of doGet call in case of custom servlet entry rule	CORE-48823
Analytics	WARNing logs are suggesting upserts may be going into a doctype for the wrong account	CORE-47197
Analytics	biz_txn throttling occurring too often	CORE-47212
Analytics	Scheduled query has issues with specific search patterns	CORE-47491
Analytics	The getUsage meters call is slowing down publish	CORE-47638
Analytics	PostConstruct being called every time object is injected	CORE-47900
Analytics	events-service.sh stop command doesn't work with symlinks	CORE-48197
Analytics	Upgrade to ES 1.7	CORE-48868
Apache Web Server Agent	Web Server Agent not filtering fonts for Apache business transactions	CORE-46105
Apache Web Server Agent	Apache Agent not compatible with libapr < 1.4.5	CORE-47110
Controller-APM	Application snapshot list took 28 seconds to load with no filter	CORE-46008
Controller-APM	Module backend flowmap doesn't load	CORE-46838
Controller-APM	Controller does not validate custom time ranges	CORE-46857
Controller-APM	Deleted user group still has mapping/association to user making user roles applied incorrectly	CORE-48336
Controller-Blitz	Unauthenticated s3 bucket containing blitz code	CORE-48474
Controller-Blitz	NPE when reportNodes is called from controller	CORE-48480
Controller-DevOps	Controller sends reports even when emailConfig is null	CORE-47742
Controller-DevOps	Controller shutdown does not shut down policy engine thread pools	CORE-47903
Controller-DevOps	Graph and Pie Widget's JMX MMC fetches only one node though the respective tier has more than one node	CORE-48063
Controller-DevOps	Fixes in scheduled report generation	CORE-48129
Controller-DevOps	Custom dashboards not loading in the UI with Java exceptions	CORE-48676
Controller-DevOps	NPE in custom dashboard load when migration fails	CORE-48731
Controller-DevOps	Health Rule Labels	CORE-49010
Controller-EUM	EUM Unknown Browser Versions must be standardized	CORE-47456
Controller-EUM	Error "Deep Link Failed: Location(AD_HOME) does not exist" after upgrading to 4.1	CORE-47656
Controller-Platform	Out of range event Id mysql exception	CORE-46890
DB Agent	MySQL Error Log doesn't display a message when user lacks permission	CORE-43825

DB Agent	Can't monitor Oracle 12c as SYSDBA	CORE-44827
EUMCloud	Remove Resource Loading Parallelism Ratio metric	CORE-45093
EUMCloud	Error events are incorrectly logged in DroppedBeacon log when JS error capture is disabled	CORE-47294
EUMCloud	Add validation on Browser Version	CORE-47815
EUMCloud	Crash reports from iOS apps built with Xcode 7 aren't symbolicated	CORE-48433
iOS Agent	iOS agent crashes during launch on iOS 9, if app crashed previously	CORE-48521
JSAgent	SecurityError: Failed to read the 'localStorage' property from 'Window': Access is denied for this document	CORE-48070
NativeAgent	install.sh unnecessarily checks for and creates "/tmp/appd-sdk" directory	CORE-47767
Python Agent	SQL calls do not show up in snapshot drill down UI	CORE-48460
Python Agent	Do not reuse bindeps virtual package	CORE-48849
Synthetic Agent	Synth snapshots for some sites are missing most resources	CORE-47383
UI	HTTP Fields under Add Search Criteria points to Business Data Controller.	CORE-40550
UI	Health Rule violations page time out when there are 100s of events	CORE-44674
UI	Analytics: Querying Wrong Timestamp	CORE-45422
UI	Truncated scrollbar on web EUM dashboard	CORE-46103
UI	Editing status light widget health rule renames the widget	CORE-46108
UI	"All Other Traffic" BTs not named correctly in the Streaming Widget's chart series dialog	CORE-46265
UI	EUM: Non-existent Synth Base Page Causes UI Exception (500 Internal Server Error)	CORE-46357
UI	Controller not able to send scheduled report for bulky dashboard	CORE-46476
UI	Distributed Snapshot shows exit call taking 1899.4% of total time	CORE-46866
UI	Web Analyze page: selecting region fails when clicking map	CORE-46869
UI	Analytics search for "cartTotal >= 0" returns non-numeric results	CORE-47312
UI	Analytics filter on bt does not work	CORE-47313
UI	Transaction Analytics - adding Tier filter brings up no data	CORE-47463
UI	Resolution information (metrics) on Time Range	CORE-47535
UI	Agent Node List not displaying in alphabetical order	CORE-47734
UI	Node shows transactions snapshots belong to all tiers	CORE-47869
UI	filter criteria, meta data (top 10 values) and grid values are not synced with numeric fields	CORE-47885
UI	Improve performance of the grid on the live view page	CORE-48239
UI	Unnecessary step in Agent Download and Install Wizard for EUM Mobile / iOS	CORE-48272
UI	Health rule condition selectors text not updating to match HR type	CORE-48424
UI	Application Freezes when loading Error/Exception page and clicking on details of individual errors	CORE-48473
UI	Mobile dashboard nags about dSYMS for Android apps	CORE-48493
UI	Discovery config 'correlation enabled' visibility is wrong	CORE-48510

UI	Log Analytics - hook up the use case(help) document for queries	CORE-48518
UI	Slashes not encoded properly when trying to rename network request	CORE-48585
UI	Remove UI code that creates custom events on flex errors	CORE-48596
UI	Charts which have time series should have a selection capability inside the chart	CORE-48612
UI	Thread Dump Action interval condition should be minimum, not maximum	CORE-48781
UI	Web Analyze page: cannot change histogram metrics or filter by a range on the histogram	CORE-49008

4.1.2.1 Updates

Resolved Issues

Component	Summary	Key
Analytics	Custom field data missing from UI due to problems with dynamic fields getting propagated to rolled indices	CORE-4968 1
Controller-APM	Incorrect stats in cross application flow map with two upstream tiers calling a downstream app	CORE-49177
Controller-DevOps	Custom dashboard fails to open due to referring to deleted policy	CORE-48885
Controller-DevOps	Migrated custom dashboard fails to open due to referring to deleted entities (such as an application)	CORE-49816

4.1.2.2 Updates

This release addresses a security vulnerability in a third-party component used in the Controller. The vulnerability could allow remote attackers to obtain sensitive information via vectors that are associated with a request, and related to injected tags and external entity references in XML documents. For more information, see AppDynamics Security Alert - 49474.

4.1.3 Updates

Enhancements

.NET Agent

- You can configure the parent directory for local data including agent configuration files and log files. See Install the .NET Agent and Unattended Installation for .NET.
- If you are running Microsoft SharePoint with .NET Framework 4.5.2 or 4.6 and later, the .NET Agent automatically instruments SharePoint without configuration changes to SharePoint.

Python Agent

The Python Agent supports PasteDeploy. See Install the Python Agent.

Database Monitoring

- Improved performance and stability in large deployments
- Reduced Database Agent memory consumption and CPU usage
- Reduced disk space used by database monitoring data

Application Analytics

- Support has been added for numeric fields in Log Analytics. The Grok definition syntax has been enhanced to support three basic data types. If you are using 4.1.2 (or older) .job files that use any numeric Grok patterns listed in analytics-agent/conf/grok/grok-patterns.grok, you will need to rename the grok alias in those job files. See the details in *Support for Numeric Fields (new in 4.1.3) section* here: Configuring Log Analytics.
- Analytics dashboard now supports configurable ranges for numeric fields on the X-axis in the table widget.

Controller Updates

User Interface

Clicking on the page title in the Node Dashboard now opens a pop-up panel with a clickable list of the other nodes in the application. This reduces the number of clicks you previously needed to make to access other nodes from within the node dashboard. If the business application has many nodes, you can use the search field in the pop-up to go to another node quickly.

War Room

You can create a war room from a template. See Virtual War Room.

End User Monitoring

Browser RUM

The JavaScript agent now detects and collects data on the following browsers:

- Microsoft Edge
- Chrome on iOS (other iOS browsers are reported as iOS Mobile Browser)

Resolved Issues

Component	Summary	Key
.NET Agent	Instrumented application crashes while trying to set apartment state to MTA	CORE-40339
.NET Agent	System.Runtime.InteropServices.SEHException errors with agent deployed	CORE-49138
.NET Agent	Clean up async CEP to make decision to execute async/sync logic during interception	CORE-49187
.NET Agent	With high server agent counts, "read header timeout"	CORE-49371
.NET Agent	infoPointsConfig.xml not getting updated with no information points defined	CORE-49521
.NET Agent	.NET Coordinator Service was renamed, breaking custom install scripts	CORE-49601
.NET Agent	MVC3 business transactions not identified with agent version 4.1 and above	CORE-49619
Agent	TibjmsQueueReceiver calling getDestination instead of getQueue	CORE-42963

Agent	End to end latency transaction score card shows more than 100% of transactions are having latency issues	CORE-47302
Agent	Proxy auth failing with 407 for Machine agent to controller communication	CORE-47825
Agent	Downstream cross-app metric for Application Summary has incorrect "From" value	CORE-47918
Agent	End to End Messages Per Minute Metric not reported in Async 2.0	CORE-48691
Agent	ZMQ connect string path becomes too large and ZMQ rejects it	CORE-49245
Agent	SQS Showing Unknown Queue and Not Correlating Properly	CORE-49790
Agent	Backport Request - NPE in DispatcherServletInterceptor.onMethodBeginTracked if agent disabled	CORE-50104
Analytics	Enable heap dumps for ES Data nodes	CORE-48595
Analytics	HTTP event endpoint property in analytics-agent.properties refers to v1 event service	CORE-49280
Android Agent	Android Agent's metric name regex hangs with a specific string	CORE-49659
Controller-APM	"Error Occured" checkbox not functioning and checked by default	CORE-45063
Controller-APM	Machine agent metrics not reported when using reuse.nodeName & nodeName.prefix parameters (with Java Agent)	CORE-47892
Controller-APM	Error snapshots don't show with errorOccurred rsd filter	CORE-48266
Controller-APM	Dashboard rendering certain metrics result in IllegalArgumentException: Cross-app support not yet implemented	CORE-49035
Controller-APM	Issue seeing the individual remote service calls for cross app flow in custom dashboard	CORE-49204
Controller-DevOps	Audit reports (and others) are sent using Pacific time not local time	CORE-49005
Controller-DevOps	Dashboard Errors when trying to save or update	CORE-49523
Controller-DevOps	Summary for Custom Action failed event is incorrect	CORE-49809
Controller-EUM	Geo Dashboard not showing load from United Kingdom	CORE-48909
Controller-Platform	Thread Contention in EventMemoryDataStore.isArchived	CORE-48550
Controller-Platform	Update MySQL with fixes for latest CVEs	CORE-48656
Controller-Platform	REST API for marking node historical throwing HTTP 403 error	CORE-49546
DB Agent	Queries with large binary literals can cause DB agent to fail	CORE-42615
DB Agent	Errors in replacing string literals with '?' in SQL queries	CORE-42650
DB Agent	DB agent has HTTP errors when using Apache proxy	CORE-47306
EUMCloud	EUM Page Resource Requested not shown when Custom Naming turned on using Javascript	CORE-47423
EUMCloud	Incorrect server time for pages with multiple BTs when some of the BT times are unknown	CORE-47778
EUMCloud	Webkit browsers all look the same	CORE-49292
EUMCloud	Android crash reports not being deobfuscated, even though mapping file has been uploaded	CORE-49802
EUMCloud	Android crash reports should be deobfuscated if a mapping file is present for the versionCode	CORE-49931
Installer	Fix the temp space message in the controller installation.	CORE-49500
iOS Agent	PLCrashReporter's instruction pointers are off by 1	CORE-48685
Node.js Agent	Node.js HTTP library wrapper throws exceptions for Unix domain sockets	CORE-49174

Node.js Agent	Node.js agent crashes when attempting to wrap socket.io 0.9	CORE-49284
Python Agent	Python api.init with timeout_ms=None raises exception	CORE-49674
SIM-server	Update Machine Agent ReadMe	CORE-49462
UI	Unable to pull data from REST API for tier that has "&" in its name	CORE-46311
UI	NodeJS getting started - Remove the comments from the accountName and accessKey declaratives	CORE-47305
UI	Applications list on home screen displays incorrect icon when using search box	CORE-47434
UI	Getting started - DB Mon - Missing instruction	CORE-48191
UI	Events List in Custom Dashboard displays slow transactions when slow transactions checkbox is unchecked	CORE-48417
UI	Wrong text on agent download and install wizard, Browser	CORE-48594
UI	Analytics log results UI does not show records if they have HTML markup like > or < in log messages	CORE-48669
UI	4.1 Controller Agent Download Wizard generates Oracle agent when IBM agent is requested	CORE-48686
UI	Hotspot Icon should be either Partial or a new icon not a "Full Snapshot"	CORE-48733
UI	The query details page doesn't show the full text of long SQL queries cleanly	CORE-48834
UI	App Server List- Search Filter Clears upon Refresh or Time Range Change	CORE-48877
UI	Business Transaction group list page empty	CORE-48886
UI	App Dashboard shows yellow tier while Tier Dashboard shows green	CORE-49077
UI	Cannot specify Page Type as filter in Browser Analytics because stored as image	CORE-49112
UI	Response Time Distribution widgets on EUM dashboards work only for admin users	CORE-49130
UI	End User Requests by Country widget on mobile dashboard doesn't differentiate between countries with requests and those without requests	CORE-49143
UI	Top 5 Unique Crashes widget lacks a reasonable sort order	CORE-49146
UI	Mobile app selector becomes useless if you have a lot of mobile apps	CORE-49154
UI	Network request analyze's response time distribution graph has too few buckets	CORE-49159
UI	Tier Dashboard - Clicking on Node Health link above node health bar goes to Flex Node list	CORE-49175
UI	Baseline details form - wrong duration is shown	CORE-49213
UI	Compare Releases - graph not showing when there is only one data point	CORE-49215
UI	Typo in the browser agent wizard page	CORE-49294
UI	Label Widget shows the wrong count	CORE-49346
UI	Persist columns widths on App Server List	CORE-49509
UI	Typo in Java Agent Download wizard	CORE-49522
UI	Analytics widgets with numeric buckets show incorrect max values in 4.1	CORE-49600
UI	Health of tier on Application Dashboard is inconsistent with what is displayed on Tier Dashboard	CORE-49662
UI	Mobile Overview Dashboard network request histogram not filtered by the mobile app	CORE-49779
UI	Custom JDBC connection string doesn't allow ampersands	CORE-49782

UI	"Type" column is empty for Custom Action Failed event in the Events drill-down window	CORE-49823
UI	Ui Grid doesn't sort the first time data is loaded	CORE-50018

4.1.3.1 Updates

Resolved Issues

Component	Summary	Key
Controller-DevOps	Node-level custom dashboards displayed in random order	CORE-49208

4.1.4 Updates

Enhancements

Java Agent

- The Java Agent can read system configuration properties from an agent.properties file. See Java Agent Configuration Properties.

Python Agent

- The Python Agent supports backend configuration. See Configure Backend Detection for Python.
- Exit call details in transaction snapshot are truncated to 100 characters by default. You can modify this using the **exit-call-detal ls-length** agent setting. See Python Agent Settings.
- You can configure the user-agent list that appears in the EUM correlation data headers. See **user-agent-whitelist** in Python Agent Settings.
- A command has been added to restart the proxy manually. See Run the Proxy Daemon Manually for Python Agents.

Upgrade Notes

The Java Agent now enforces limits on the number of transformations it performs while instrumenting the application with AppDynamics interceptors. The limits were not applied in previous Java Agent versions. As a result, after upgrading, you may notice fewer business transactions being registered relative to registrations prior to 4.1.4.

The default limits are 50 transformations for interceptors, and 200 transformation of classes for a given type, such as Spring Bean. These limits prevent scenarios in which there is an unbounded explosion on the number of transformations.

The agent log entries indicates when maximum limits are reached with the message "maximum 50 transformations exceeded", or similar.

Resolved Issues

Component	Summary	Key
.NET Agent	Transaction correlation to RabbitMQ fails with CallGraphGeneratorTask error	CORE49557

.NET Agent	Agent-Controller communication broken due to failure to load webrequestmodule	CORE-50094
.NET Agent	Business transaction discovery works only when legacy instrumentation is turned off	CORE-50632
AD4DB	DBCam Integration is not working	CORE-49814
Agent	Data collector fields not appearing in Analytics due to IAnalyticsCollector.notifyTransactionStart not being called for async segments	CORE-48453
Agent	AD Thread-Hotspot Processor0 Thread is still active although hotspots are disabled	CORE-48880
Agent	NPE in ServletInterceptor	CORE-49621
Agent	Agent trust manager not compatible with SunJSSE running in "fips mode"	CORE-50401
Analytics	Cross application flowmap in analytics is not showing complete metadata around the App node	CORE-37009
Analytics	When the ElasticSearchEventService.searchEvents() method throws an exception the reason for the exception is not logged	CORE-48479
Analytics	Out of memory errors in Events Service	CORE-49105
Analytics	Meters stored in Events Service even if request is throttled	CORE-49111
Analytics	Business transaction name missing from Data View in Analytics	CORE-49349
Analytics	Log analytics showing duplicate messages	CORE-49612
Analytics	Metric Browser Tree not loading	CORE-50117
Analytics	Events service URL entry form in admin UI missing validation	CORE-50248
Analytics	Logging for AWS plugin (used for snapshot/restore) is generating excessive INFO logs	CORE-50776
Analytics	Health check is reporting unhealthy under circumstances that aren't actually unhealthy	CORE-51076
Analytics	ElasticSearch scroll cursor is being kept open too long	CORE-51103
Analytics	Error while creating metrics for search query	CORE-51113
Analytics	Bad user input is resulting in 500 errors in search end point	CORE-51155
Android Agent	Android Agent Javadoc missing public classes	CORE-50812
Android Agent	Android ProGuard integration not working	CORE-50868
Apache Web Server Agent	Mobile RUM BT correlation doesn't work with web server agent	CORE-46589
Apache Web Server Agent	Apache Agent install.txt text needs updating	CORE-50979
Controller-APM	Snapshots and snapshot drill down slow to load	CORE-45787
Controller-APM	ConfigObjectImportExportServlet and other *ImportExportServlet leave temporary files on disk after serving export request	CORE-50118
Controller-APM	Snapshot screen slow to load	CORE-51023
Controller-DevOps	Incidents getting purged frequently	CORE-49602
Controller-DevOps	Customer Dashboard doesn't show after copy	CORE-49768
Controller-DevOps	Graph looks shifted on metric browser when double clicked from dashboard widget	CORE-50149
Controller-DevOps	Incorrect summary message for percentage of baseline health rules	CORE-50410
Controller-DevOps	Health rule evaluation issue	CORE-50856
Controller-EUM	Wrong AJAXes listed in VP dash	CORE-48918

Controller-EUM	Web App Dashboard Overview - Top 5 Countries by Total Page Requests shows negative values	CORE-49178
Controller-EUM	URL and parameter incorrect in the Wizard instruction to deploy Web EUM	CORE-50889
Controller-Platform	Roles can't be dropped if they have mappings to deleted groups	CORE-33551
DB Agent	Database monitoring needs to re-register itself with Event Service after an error occurs	CORE-40968
DB Agent	Metric registration fails for 4.0.x Database Agent talking to current controller	CORE-48545
DB Agent	Time spent in database chart is empty	CORE-48973
DB Agent	Memory usage shows incorrect value for Solaris OS	CORE-49206
DB Agent	Free Memory shown is incorrect in the metric browser for Solaris OS	CORE-49207
DB Agent	DB2 explain plan doesn't work correctly	CORE-49260
DB Agent	Database agent fails to gather Solaris host metrics	CORE-50300
DB Agent	Excessive Database Monitoring INFO messages in controller logs	CORE-51018
EUMCloud	iOS web beacon timing issues are still present	CORE-50609
Installer	Exception during upgrade of EUM	CORE-49965
Installer	Stale documentation link in installer	CORE-50238
iOS Agent	Crashes in iOS agent runtime	CORE-51227
Machine Agent	Increased restrictions on file permissions required	CORE-50167
Machine Agent	Agent Re-registration Request causes HttpClient pool to shutdown	CORE-50473
Node.js Agent	Agent reports no BT metrics when invalid data collector config is sent from the controller	CORE-50875
PHP Agent	Crash in MySQLCloseInterceptor	CORE-48507
PHP Agent	API exit call with AD_EXIT_CACHE type crashes	CORE-50352
Python Agent	pyagent proxy 'restart' command doesn't work	CORE-48451
UI	EUM License information should not always be shown	CORE-48571
UI	Mobile network request snapshots: user data missing	CORE-48589
UI	Transaction Analysis tab shows up blank	CORE-48850
UI	When a network request fails with a network error, network request analyze reports a status code of zero	CORE-49162
UI	Node.js Agent download wizard code is missing a comma	CORE-49916
UI	EUM Total Requests and Total Records in Analyze screen are confusing	CORE-50160
UI	Browser JS Agent Download error when application is not yet created	CORE-50526
UI	Tier Dashboard freezes after clicking on nodes tab	CORE-50606
UI	Tier - My Dashboards - 2 Data series displayed although only 1 has been selected	CORE-50740
UI	Long lists are cut off in the Template Dashboard dropdown	CORE-50786
UI	Getter chain option shown for Python/Node.js backend naming config when editing rule	CORE-50800
UI	Fix instructions in iOS and Android Getting Started	CORE-50866
UI	Custom Dashboard drill down into graph shows additional metric in metric browser	CORE-50913

| UI | Unable to modify existing DB to Backend mappings | CORE-51017 |

4.1.4.1 Updates

Resolved Issues

Component	Summary	Key
Analytics, UI	Custom fields not visible in the Analytics UI	CORE-49681
Controller-DevOps	Dashboard views resulting in memory leaks	CORE-51305

4.1.4.2 Updates

Resolved Issues

Component	Summary	Key
Machine Agent	Duplicate files in Machine Agent distribution archive require overwrite flag when unzipping	CORE-51933

4.1.4.3 Updates

Resolved Issues

Component	Summary	Key
ControllerPlatform	Unable to mark a node as a historical node using the REST API	CORE51873
ControllerMachine Agent	Server Monitoring metrics from a Machine Agent that had previously reported metrics not available after Controller upgrade or restart	SIM1349

4.1.5 Updates

Enhancements

PHP Agent

- The PHP Agent supports PostgreSQL accessed via PDO and pgsql extensions.

EUM Mobile

- The Android Gradle plugin now supports the multidex option in SDK versions (`minSdkVersion`) less than 21.
- User data now appears in Network Request Analyze as well as in crash reports.

EUM Browser

- You can now create health rules based on virtual pages (AngularJS).

Resolved Issues

Components	Summary	Key
.NET Agent	Correlation Header being sent during controller outages	CORE41
.NET Agent	Memory leak in Coordinator	CORE50
.NET Agent	NullReferenceException ADOdotNetConnectionBackendResolver.get_ID()	CORE-5
.NET Agent	Multiple standalone instances register using the same node name	CORE-5
.NET Agent	RabbitMQ not recognized in standalone apps	CORE-5
.NET Agent	WCF DataService are not following the discovery rules created for WCF	CORE-5
Agent	Java Agent causing 100% CPU in certain cases	CORE-5
Agent	processPersistenceFile.ser file should be written to configured runtime directory	CORE-5
Analytics	5xx errors for browserRecord/search in logs due to payload parse exception	CORE-5
Analytics	IllegalArgumentException in the Indexers for travelport	CORE-5
ControllerAPM	Error retrieving flow map data	CORE-4
Controller-APM	Remove leftover SQLDataCollectors from BT configuration	CORE-5
Controller-APM	Account Permissions Error	CORE-5
ControllerDevOps	Display node name in the REST API call for health rules	CORE-4
Controller-DevOps	PDF report rendering issue	CORE-4
Controller-DevOps	Unable to save JMX metrics on custom dashboard	CORE-4
Controller-DevOps	Error in dashboard UI cache	CORE-5
Controller-DevOps	Graph widget should display nothing for metric values with count = 0	CORE-5
Controller-DevOps	Error retrieving dashboards	CORE-5
Controller-DevOps	server.log filling up with com.appdynamics.RULES.PROCESSING.MARKED|_ThreadID=275;_ThreadName=Thread-5;|Added MetricScopePair to MetricMemoryDataStore	CORE-5
Controller-Platform	Java Runtime Error Message	CORE-5
Controller-Platform	Agent threadpools are blocked on UI thread pool	CORE-5
Controller-Platform	Node purge failing due to auth error in background node purge task	CORE-5
DB Agent	Errors in replacing string literals with '?' in SQL queries	CORE-4
DB Agent	Error when trying to edit a collector that has a custom JDBC connection string	CORE-5
EUM Processor	EUM Processor is pegging CPU to 90-100% on windows	CORE-5
EUMCloud	Scheduler errors when HAR base page unresolved	CORE-5

Event Service	Wait states, queries, sessions, clients are blank	CORE-5
Installer	Installer does not provide useful message when out of space in /tmp	CORE-4
Machine Agent	Machine Agent RPM has no Group attribute	CORE-5
Machine Agent	MDMP files getting created leading to space issues in machine agent on Windows	CORE-5
Machine Agent	Duplicate files in Machine Agent Linux and Solaris Zip files: Unzip requires overwrite flag	CORE-5
Apache Web Server Agent	Assert failure on web server agent startup	CORE-4
Node.js Agent	Custom backend and empty naming rules	CORE-5
PHP Agent	Agent changes behavior of array_walk_recursive, causing data inconsistency	CORE-4
PHP Agent	Normal execution leads to script time > request time messages	CORE-4
Python Agent	Custom backend and empty naming rules	CORE-5
Python Agent	Typo in Python agent hasEntryPointError EUM field	CORE-5
Synthetic Agent	Timeout for new jobs is 0 sec and not configurable (used to be 60)	CORE-5
UI	Some rest UI calls that don't call into controller don't require authentication.	CORE-4
UI	Match rule configuration screen for .NET has Servlet item	CORE-4
UI	EUM top X grid widgets should drill down to appropriate pages on double click of rows	CORE-4
UI	Filters on Analytics UI don't filter on the Live Transaction View	CORE-4
UI	Start Diagnostic Session option missing in role permissions	CORE-4
UI	Different health information between Home and Applications tabs	CORE-4
UI	Call Graph Drilldown button sometimes does not register clicks	CORE-4
UI	Strange data being output to CSV file from Analytics engine for iOS mobile browser session	CORE-4
UI	JS Agent Download and Install wizard instructions are incorrect	CORE-5
UI	PDF rendering in reports showing black square boxes	CORE-5
UI	All Apps list performance is not good with 200 apps	CORE-5
UI	"Not comparing against baseline" message appears in flowmap after baseline enabled	CORE-5
UI	Transaction Flow button in downstream Snapshot no longer shows most upstream flowmap	CORE-5
UI	Stack dump missing from some snapshots after deep linking	CORE-5
UI	Analytics metric from search shows as 0	CORE-5
UI	Duplicate Tibco Type in Custom Exit Point configuration	CORE-5
UI	Browser Analytics not loading	CORE-5

4.1.5.1 Updates

Resolved Issues

Components	Summary	Key
Analytics	Alias Time Range Filter Not Updated	CORE-51089
Controller-APM	Business transaction flow map rendering errored out.	CORE-52743
Controller-DevOps	Customer Dashboard doesn't show after copy	CORE-49768

4.1.5.2 Updates

Resolved Issues

Components	Summary	Key
DB Agent	The 4.1.5 Database Agent stops working when parsing queries containing backslash	CORE-52844

4.1.5.3 Updates

This release addresses a critical security issue affecting 4.1.4 and later multi-tenant Controllers. It also includes fixes for a pre-release feature currently undergoing AppDynamics internal testing.

4.1.5.4 Updates

Enhancements

Controller

- This release incorporates internal performance improvements related to machine agent metric data handling.

Resolved Issues

Components	Summary	Key
Controller-Platform	Machine Agent metric packet validation makes direct Hibernate queries	CORE-54415

4.1.5.5 Updates

Enhancements

Controller

- JSON responses to Controller REST API requests can be gzip-compressed. REST API clients can expect a gzip-compressed response from the Controller when:

- The request specifies acceptance of gzip encoding.
- The client uses HTTP 1.1
- Improved performance in certain areas of the Controller UI resulting from the utilization of gzip encoding.

4.1.5.6 Updates

Resolved Issues

Components	Summary	Key
Controller-Platform	Widget query time-outs correlating with multi-hour DB performance drops	CORE-55275
Controller-Platform	Dashboard performance issue: Separate Hibernate cache region for retrieving tiers for app required	CORE-55630

4.1.6 Updates

Enhancements

Controller

- MySQL version updated to 5.5.46.

Agents

- The JRE used by the proxy was upgraded to 1.8.0_51. AppDynamics strongly recommends that all Node.js, PHP, Python and WebServer agents be upgraded to 4.1.6. as this upgraded JRE incorporates important security fixes.

.NET Agent

- The .NET Agent includes a new configuration property to let you exclude instrumentation for child applications of IIS applications. See "App Agents - IIS Element" on .NET Agent Configuration Properties.

Web Server Agent

- The Web Server Agent now supports regular expressions in custom match rules.

Mobile Real User Monitoring

- The crash processor grouping algorithm has been improved. Fewer groups titled "Unknown Crashes" now appear.

Resolved Issues

Component	Summary	Key

.NET Agent	Multiple MIDC items captured incorrectly	CORE-48014
.NET Agent	IBM MQ correlation cannot be disabled	CORE-48652
.NET Agent	Application hangs at start-up	CORE-48970
.NET Agent	Translation - Mobile RUM BT correlation doesn't work with web server agent	CORE-52026
.NET Agent	Need way in .NET agent to specify a uniqueHostId	CORE-52069
.NET Agent	High CPU caused by exception while running Await Continuation MethodBegin	CORE-52341
.NET Agent, Analytics	Transactions are not showing up in the analytics for .NET application	CORE-52428
.NET Agent	High Memory for w3wp with 4.1.4.22 agent	CORE-52674
.NET Agent	NuGet Package and potential security risk	CORE-52717
.NET Agent	Interceptor Factory Exception on MethodBegin leaves unbalanced	CORE-53112
.NET Agent	Throttle ADOdotNet warning due to misconfigured IDBConnection	CORE-53182
Agent	Thread dump request from controller UI stuck in progress	CORE-52893
Analytics	Meters stores meters in ES even if the request is throttled	CORE-49111
Analytics	When upserting event types, don't add 1 day retention if resolved life span is 0 days	CORE-51108
Analytics	Not able to save Analytics metrics in OA	CORE-51712
Analytics	Permanent exceptions in indexer logs	CORE-52228
Analytics	Kafka lag for upserts is building up everyday on cluster 6	CORE-52250
Analytics, Event Service	Analytics: Problem with Events service - Alias mapped to more than one index	CORE-52294
Analytics	Index compaction is failing	CORE-52333
Analytics	Analytics agent does not release file locks on finished log files	CORE-53149
Analytics	Need to create separate Kafka consumer groups per ES cluster	CORE-53577
Apache Web Server Agent, NativeAgent	"Too many open files" error in SDK with > ~150 threads	CORE-50350
Apache Web Server Agent	mod_jk gets connection errors to backend under high load with Web Server Agent	CORE-53671
Controller-APM	Slowest Database Calls shows "No slow exit calls" where there are a ton of snapshots with SQL calls in a selected time-range	CORE-49680
Controller-APM	Rest API not able to get list of users when authenticated by admin@customer1	CORE-51872
Controller-APM	Cannot delete role even after deleting all groups associated to that role. Exception thrown transactionAborted()	CORE-52927
Controller-APM	Upgrade of 4.1.3 controller: Data truncated for column 'query_hash_code' at row 1	CORE-53738
Controller-DevOps	Reports outputting black boxes instead of letters	CORE-50692
Controller-DevOps	Unable to add second data series of the same metric type in a Streaming Widget	CORE-51972
Controller-DevOps	War room created from template does not load JVM metrics	CORE-52004
Controller-DevOps	NPE in server.log and AppDynamicsDomain1Service.err	CORE-53321
Controller-EUM	Logging License has Expired for Account in EUMCloudManagerBean	CORE-49760
Controller-EUM	NPE in Mobile Application Cleanup	CORE-53217

Controller-Platform, Installer	Disable X-Powered By	CORE-37721
DB Agent	DB agent reports wrong hardware metrics when running on Windows in Norwegian locale settings	CORE-51427
DB Agent	RequestParsingException in DB agent log	CORE-52125
DB Agent	Upgrade to 4.1.5 takes too long	CORE-53260
EUMCloud	EUM: Webkit Browsers All Look The Same	CORE-49292
EUMCloud	IndexOutOfBounds exception thrown while symbolicating crash report	CORE-51626
EUMCloud	iOS Crash Dumps Exception name is blank for crashes not caused by an Objective-C exception	CORE-51947
Controller-EUM, iOS Agent	CrashProcessor incorrectly compares Image Name and Process Name	CORE-50006
PHP Agent	Proxy crashes w/ IndexOOB Exc. on empty ST from PHP agent	CORE-52588
Synthetic Agent	Synth snapshots for this site appear to work in Firefox, but have no data	CORE-48141
UI	The field extraction UI should allow you to apply query filters	CORE-49381
UI	Analytics Transaction - Transaction data is blank for multi-tier BT instance	CORE-49769
UI	Scheduled report has unwanted borders, odd layout	CORE-50548
UI	iOS and Android Getting Started bugs	CORE-51261
UI	Table widget generates a CSV that doesn't match Table Data	CORE-51849
Apache Web Server Agent, UI	Web Server Agent offers match options that aren't supported	CORE-51981
UI	Count drilldown in timeseries chart doesn't show results for some of the values	CORE-52106
UI	Unable to update license via admin screen	CORE-52149
UI	Inconsistent query list returned after changing top size	CORE-52181
Controller-EUM, UI	Browser Snapshot Details is broken for readonly users	CORE-52336
UI	Using "Save as New Search" doesn't indicate that the search needs to be saved	CORE-52492
UI	Add back 'Link to Databases' to the Backend list context menu	CORE-52504
UI	Read Only role users receiving various permission errors after upgrade	CORE-52751
UI	RestSessionFilter broke shared WarRoomViewer	CORE-52843

4.1.6.1 Updates

Resolved Issues

Components	Summary	Key
.NET Agent	Transaction discovery tool not working for .NET nodes	CORE-52715
.NET Agent	High CPU usage at agent start up	CORE-52805

.NET Agent	Windows Service application crashes with legacy instrumentation turned off	CORE-55104
Controller-APM	Metrics intermittently dropped	CORE-52573
Event Service	Get Event Type sometimes failing	CORE-54022
UI	No redirection on session expiration for Controller UI	CORE-51951

4.1.7 Updates

This release contains important security fixes.

Enhancements

Controller

- Controller UI session timeout and inactivity timeout settings are configurable in the Administration Console. See Administering Users for more information.
- Account/User/Group/Role CRUD and User login/logout operations are recorded in an audit log and can also be retrieved using a new REST API. See Controller Logs and "Retrieve the controller audit history for a time range" in Use the AppDynamics REST API.
- Compuware Strobe integration. When Strobe is integrated and enabled, you can select a SQL query in a transaction snapshot that accesses a DB2 z/OS database and then choose to view that query in Strobe.

Python Agent

- A new Python Agent API has been added to get a handle to an active business transaction that was started automatically in a supported framework. See get_active_bt_handle() in the Python Agent API Reference.

Mobile EUM

- Crash Rates only appear for versions/devices which have data during the time range specified. If there is no data in that time range, it displays "No data". There may be a reminder to check to make sure you have an up to date agent.

Resolved Issues

Component	Summary	Key
.NET Agent	High memory - Trying to append extremely long 'exitguid' to correlation header when returning Stream Objects in WebAPI	CORE-50927
.NET Agent, Analytics	Excessive number of log entries for the warning "The provided exit call did not have a valid entity Id"	CORE-52239
.NET Agent	High CPU in coordinator with Legacy Instrumentation	CORE-53306
.NET Agent	NullReferenceException Could not resolve hostException	CORE-53668
.NET Agent	Custom Async Instrumentation error	CORE-54049
.NET Agent	Correlation can not be disabled with JMS based queues	CORE-54572
.NET Agent	Installer Configuration Error	CORE-55008

.NET Agent, Analytics	.Net Translation - AnalyticsPojoDataGatherer throws NPE if a MIDC is wrongly configured	CORE-55065
.NET Agent	Disable RegisterAssemblyPath in legacy-instrumentation-decisions=false	CORE-55291
Agent	Limit number of warning message if info point is misconfigured	CORE-53822
Agent, Analytics	AnalyticsPojoDataGatherer throws NPE if a MIDC is wrongly configured	CORE-54140
Agent, Controller-APM	DST change is not handled well	CORE-54567
Analytics	The /v2/events/biz_txn_v1 api has 100% failure rate in prod	CORE-52936
Analytics	Upsert Failure Exception occurred while parsing the JSON string	CORE-53412
Analytics	Analytics Indexer j2 template file has the ad.pipeline.index.instances property listed twice in it	CORE-53700
Analytics	5xx ERROR in api logs related to parsing	CORE-54976
Analytics	Another 5xx ERROR in api logs related to publish	CORE-54978
Analytics	Pending tasks for index management	CORE-55074
Analytics	Metering exception in the new api logs	CORE-55080
Analytics	Index rolling failing in the new env for 4.1.6	CORE-55087
Analytics	rolling index manager acknowledgement failure	CORE-55091
Analytics	Issues during repairing of indices during 4.1.6 release	CORE-55092
Android Agent	Including HTTPClientAndroidLib causes a build failure	CORE-53858
Android Agent	Android SDK < 21 + Jacoco + multidex is broken	CORE-54964
Apache Web Server Agent	Apache Agent pulls all GET/POST/cookies for every request even when unnecessary	CORE-53873
Controller-Platform	Tier name is not shown in legend when plotting error metrics in custom dashboard graph	CORE-41443
Controller-Platform	Fix Calls Per Minute for BTGs	CORE-51213
Controller-Platform	Deeplink not correctly populated	CORE-51241
Controller-Platform	Unable to import any tier or node dashboards as soon as at least a single series exist	CORE-51835
Controller-Platform	Dashboard not showing metric when using relative path	CORE-51857
Controller-Platform	Unable to send custom dashboard as report for gauge widget dashboards	CORE-52216
Controller-Platform	HTTP Request template adding header with port 0	CORE-52621
Controller-Platform	PaaP: Usage Stats Job Affected a Controller	CORE-53129
Controller-Platform	No data available on dashboard but jmx metrics exist in metric browser	CORE-53181
Controller-Platform	PolicyEngine Throttling for ID-based queries for EmailDigest Failure (core-50695)	CORE-53568
Controller-Platform	slowness: toDto fix needs to be backported to 4.1.7 to improve startup time.	CORE-55009
Controller-Platform	Fix aggressive http session and ui user session timeouts	CORE-55850
Controller-Platform	Make ui.inactivity.timeout = -1 and http.inactive.timeout = 60 mins	CORE-56240
DB Agent	Some MySQL stats are logged as absolute values, instead of cumulative	CORE-53471
DB Agent	In very rare cases, DB agent can apply measurements to the wrong query (due to hash code collisions)	CORE-53658

EUM Processor	MySQL intermittently throwing 'Communications link failure' while updating application store	CORE-50980
EUM Processor, EUMCloud	Anchor added to the page name when rule doesn't include it	CORE-52921
EUMCloud	Lots of beacons being dropped due to invalid root view names	CORE-53705
EUMCloud	Events Dropped in Analytics Publish - Metrics & Analyze Count Mismatch	CORE-55799
EUMCloud	ANR Beacons are counted towards Crash count	CORE-56386
iOS Agent	iOS agent unable to detect mobile app version for specific app	CORE-54301
iOS Agent	iOSAgent is published with incorrect version string	CORE-54860
Machine Agent	<machine-agent-home>/etc/sysconfig/appdynamics-machine-agent does not work for SUSE Linux (SLES 11)	CORE-54032
Machine Agent	Ambiguous redirect in <MachineAgent>/bin/machine-agent script	CORE-54035
Machine Agent	machine agent hardware monitor for linux broken	CORE-54458
PHP Agent	URL's with // do not report data, may cause agent to stop reporting completely	CORE-54747
Python Agent	API start_exit_call fails without optional properties	CORE-54230
Python Agent	Python agent fails PyPi publication	CORE-54627
UI	Controller not able to send scheduled report for bulky dashboard	CORE-46476
UI	Graph in Custom Dashboard shows No Data	CORE-47673
UI	Crash rates are unusable	CORE-49173
UI	Scheduled report has unwanted borders, odd layout	CORE-50548
UI	Report shows one month later in the report date but one month earlier in report file name	CORE-51423
UI	Inconsistent color scheme of the graph and pie chart	CORE-52895
UI	UI to send snapshot start time	CORE-52976
UI	Pie chart does not render in pdf report	CORE-53187
UI	Deep linking to snapshots is broken	CORE-54028
UI	Events data load takes lot of time (getCorrelatedEventsForEvents)	CORE-54383
UI	Pie and Gauge Widgets Not displaying data in reports	CORE-54453
UI	BT Flow Map View receiving Edge UI pop-up shows 'Blank' call columns	CORE-54861
UI	Context menu link for snapshot list broken if there is no first_in_chain	CORE-55815
UI	Login isn't working from portal	CORE-56105

4.1.7.1 Updates

Enhancements

Controller

- Enhancements to improve performance and usability of Controller UI windows that require the retrieval of large amounts of

data from Controller storage.
- Enhancements and bug fixes for a pre-release feature undergoing AppDynamics internal testing.

4.1.7.2 Updates

Resolved Issues

Component	Summary	Key
Analytics	Performance fix required for data store indexers	CORE-57172
Android Agent	Crash reports from the Android Agent fail to reach the Controller	CORE-56536

4.1.8 Updates

Enhancements

Controller

- This release includes important security fixes.

Machine Agent

- Java 1.8 is now bundled with all OS-specific download bundles. For 32-bit Solaris, which continues to require Java 1.7, use the machine-agent.zip file with your own download of Java 1.7. Note that a security vulnerability has been identified in Java 1.7 and you should upgrade to an appropriate version. For more information, see AppDynamics Security Alert - 62500.

Mobile RUM

- Additional mechanism added to customize mobile application names, to make sure that applications that are essentially identical, but have differing bundle IDs/package names for distribution purposes, have their data collected and displayed in a uniform manner.
- Additional information displayed in Android crash reports, including app name, version, and build number, and any exceptions thrown with their message string.
- Improved naming in iOS Crashes.
- JavaDocs and AppleDocs have been updated.

PHP Agent

- It is possible to instrument PHP Agent applications running in a SELinux environment by installing with a new **--with-selinux** option. See Special Considerations for PHP with SELinux for details.

Resolved Issues

Components	Summary	Key
.NET Agent	NuGet Startup command syntax error	CORE-56103

.NET Agent	Analytics agent memory leak	CORE-56491
.NET Agent	Missing ASync visibility with multiple await statements in same method	CORE-57302
Agent	java.util.concurrent.RecursiveTask not tracked	CORE-53508
Agent	Negative values for Block and Wait time	CORE-53649
Agent	NPE in endContinuingTransactionAndRemoveCurrentThread. E2E latency metrics not reported.	CORE-55166
Agent	java.util.concurrent.RecursiveTask not tracked	CORE-56494
Agent	Agent incorrectly reporting stalls	CORE-56880
Analytics	Refresh_Interval may not be set to 30s in rolled over indices	CORE-53010
Analytics	Analytics data upserts failing; need better exception propagation	CORE-57166
Android Agent	NPE in URLConnection get headers	CORE-56015
Controller-APM	Read only user receives excessive permissions with only policy creation permission	CORE-51063
Controller-APM	Rest API not able to get list of users when authenticated by admin@customer1	CORE-51872
Controller-APM	Error retrieving Flow Map data (Found non-queue exit call: CUSTOM)	CORE-54558
Controller-APM	IP address missing from REST API call from tier level	CORE-55384
Controller-APM	Backend flowmap data sometimes incorrect	CORE-57134
Controller-Platform	Add Index and cursor based querying for snapshot search and list	CORE-52088
Controller-Platform	Unable to load transaction snapshots for more than two weeks	CORE-52607
Controller-Platform	"Fetch more" snapshots timing out for long time ranges	CORE-52695
Controller-Platform	Customer cannot reset password with the deep link	CORE-54759
Controller-Platform	Policy is ignoring custom event properties	CORE-55901
Controller-Platform	audit.log file not written to correct location, <CONTROLLER_HOME>/logs directory	CORE-56227
Controller-Platform	Account delete does not delete custom email/HTTP template objects	CORE-56239
Controller-Platform	Export Dashboard gives "Application referred by the event filter can't be resolved" in server log	CORE-56606
Controller-Platform	Emailed PDF report of a custom dashboard only partially visible	CORE-57517
DB Agent	SQL Server collector can cause tempdb to fill up	CORE-51582
EUM Processor	Investigate mapping device model IDs to model names for iOS devices	CORE-57156
EUMCloud	Intermittent EUM error java.nio.file.FileSystemException Too many links	CORE-43712
EUMCloud	Partial data drops due to storage latency	CORE-56746
Event Service	NullPointerException while compacting old indices	CORE-55071
JSAgent	JSAgent's findStartGToolbar() method broken	CORE-55653
Machine Agent	Cannot set JAVA_OPTS for linux service in sysconfig	CORE-55750
Node.js Agent	Agent crashes express app on startup	CORE-55656
Node.js Agent	Only pause/resume requests for 0.8.* node versions	CORE-56081
PHP Agent	HTTP data collectors do not report if a request ends with an exit() call	CORE-55032
PHP Agent	HTTP data collectors disabled even when assigned to a BT	CORE-56790

UI	Call stats does not show up in "Calls to Multple backends" popup though stats Exists	CORE-46707
UI	Distributed Snapshot shows exit call taking 1899.4% of total time	CORE-46866
UI	Negative error percentage in the dashboard	CORE-52929
UI	Error around EventType ENUM on controller after login	CORE-53986
UI	Drilldown on custom dashboards does not work from mobile phones	CORE-54712
UI	Not able to update the controller configuration in admin.jsp	CORE-55452
UI	Sort cleared on autorefresh for all applications grid	CORE-57164
UI	Name of servers not visible in Graph widget	CORE-57191
UI	Timeseries graph doesn't show events	CORE-57229

4.1.8.1 Updates

Enhancements

Controller

- Backend performance improvements resulting in faster application flow map loading in the Controller UI.

Analytics

- JRE 7 now bundled in the standalone Application Analytics distribution archive, analytics-agent.zip.

Resolved Issues

Components	Summary	Key
Controller-APM	Cross application calls from upstream business apps incorrectly shown as exit calls rather than as incoming calls in Metric Browser	CORE-5745 6
UI	War Room Property Panel not appearing when widget clicked	CORE-58778

4.1.8.2 Updates

This release addresses a security vulnerability in the Machine Agent. We recommend you upgrade deployed Machine Agents as soon as possible.

Resolved Issues

Components	Summary	Key
Agent	Information point stops reporting data after maximum heap usage reached and agent reset	CORE-46217

Controller-Platform	Error in retrieving past data after Controller upgrade	CORE-59402

4.1.8.3 Updates

Resolved Issues

Components	Summary	Key
UI	Database monitoring query details not shown for time periods beyond 4 hours	CORE-59100

4.1.8.4 Updates

Enhancements

Controller

- Information about cross-application tiers is now available in flow maps when you click a node that serves as a connection point across business applications.

Resolved Issues

Components	Summary	Key
Controller-APM	Unable to log in as root admin user after silent upgrade	CORE-59161

4.1.8.5 Updates

Resolved Issues

Component	Summary	Key
Controller-APM	Flow map for an upstream application not showing a downstream app	CORE59682
ControllerPlatform	Application flow map, BT list not displayed if time range greater than one day	CORE59975
JSAgent	JavaScript agent tries to contact Geo resolver even with no custom Geo configuration present	CORE59919

4.1.8.6 Updates

Resolved Issues

Component	Summary	Key
Android Agent	Android agent fails to report requests made via some HttpClient methods	CORE-58004
Android Agent	Multidex fails with FileNotFoundException	CORE-59652
Android Agent	Android appdynamics_eum_android_bci.log does not always get created	CORE-60018

4.1.8.7 Updates

Resolved Issues

Component	Summary	Key
.NET Agent	Bad regular expression in POCO may cause .NET app to stop working in certain cases	CORE-58424
.NET Agent	Custom configuration locations not working	CORE-59877
Controller-Platform	Hibernate stat collection imposes memory burden on the Controller	CORE-60899

4.1.8.8 Updates

Resolved Issues

Component	Summary	Key
Apache Web Server Agent	Web server agent crashes intermittently	CORE-58995
UI	Flowmap click not working in Chrome 48	CORE-61719

4.1.8.9 Updates

This release addresses a security vulnerability in the Apache web server agent. We recommend you upgrade deployed web server agents as soon as possible. It also addresses various performance issues affecting Controllers under high load. See AppDynamics Support Advisory – 4.1.x Performance and Scalability Issues for more information.

Resolved Issue

Component	Summary	Key
Controller-EUM	Snapshot not loading except for 'last 5 minute' time frame	CORE-61739
Controller-Platform	NullPointerException thrown when xml_content for CustomDashboardUIState does not have isTemplate field	CORE-60157
EUM Processor	Correlated BT snapshots not loading	CORE-60451

EUM Processor	Mobile User Data not populating network request snapshots	CORE-61930
SIM-server	Repeated exception for creating/updating SIM machines	CORE-62255
UI	EUM page data missing for some pages	CORE-62134

4.1.8.10 Updates

Enhancements

Custom Dashboards

- Improved custom dashboard performance related to health rule events.

Events Service

- Added an Events Service configuration option that limits the number of times a single event record can be updated by the internal API used to update or insert events, including the business transaction analytics event types. By limiting the number of times an event can be updated, this setting prevents situations in which excessive updates to a single event can lead to system performance issues and possible timeout exceptions. The new property (named `ad.es.event.maxUpsertsAllowed`) appears in the Analytics properties file. Do not modify the default value for this property except in consultation with AppDynamics support.

Resolved Issue

Component	Summary	Key
Agent	Agent does not automatically resume operation after a shutdown due to heap shortage	CORE63332
ControllerPlatform	EventsCount call making UI threads exhaustion	CORE-49901
ControllerPlatform	Generated PDF reports include characters rendered as black squares	CORE-62879
EUMCloud	EUM Processor incorrectly truncates the Unique Crashes list	CORE-63561
EUMCloud	EUM Processor fails to update crash group lastSeenTime	CORE-63752
IOS Agent	iOS agent reports connection type as wifi when on cellular for 64-bit apps	CORE-63305
UI	Incorrect name displayed for upstream crossapp component	CORE-62537
UI	Business transactions not appearing in the Controller UI	CORE-63837

4.1.8.11 Updates

Resolved Issues

Component	Summary	Key

ControllerPlatform	EventsCount call making UI threads exhaustion	CORE49901
EUM-Cloud	With high traffic (100K + req/min) and large volume of Ajax calls (90%+ requests), EUM Processor generates too many browser snapshots	CORE-64559

4.1.8.13 Updates

Note that 4.1.8.12 was an internal release only.

Resolved Issues

Component	Summary	Key
ControllerAPM	Overly restrictive admin role is required for deleting nodes, tiers, and business transactions	CORE64531
EUMCloud	Internal error exception when attempting to load EUM UI pages	CORE-63690
iOS Agent	Backgrounded NSURLSessionTask shown as null	CORE-64415

4.1.10 Updates

Enhancements

- Added .NET agent analytics support for asynchronous entry and exit points.
- Node.js agent support for v4 (up to v4.4.2) and v5 (up to v5.10.0).

Resolved Issues

Component	Summary	Key
.NET Agent, Analytics	Analytics: NumberFormatException from .NET Agent	CORE-60635
.NET Agent	Deadlock when both thread correlation and analytics are enabled	CORE-63279
.NET Agent	AgentScheduledExecutorServiceImpl#schedule() possible deadlock	CORE-63425

4.1.10.1 Updates

Resolved Issues

Component	Summary	Key
.NET Agent	Application running with .NET 4.5.2 throws exception at application startup	CORE66118
.NET Agent	Downstream tier visibility is lost with ANoDependencyInterceptor exceptions	CORE66871

Controller-Platform	Crontab Scheduler not triggering health rule evaluation as scheduled	CORE-57369

4.1.10.2 Updates

Resolved Issues

Component	Summary	Key
Agent	Code deadlock in instrumented application	CORE68165
Controller-Platform	Unbounded queue growth for email digests	CORE-69167
Controller-Platform	Tier data for JMX metrics showing wrong value in 1 minute resolution	CORE-69182

4.1.10.3 Updates

Resolved Issues

Component	Summary	Key
Analytics	Events Service crashes with out-of-memory exception	CORE56836
ControllerPlatform	War room creator cannot end a war room created from a war room template	CORE-70383
UI	Viewing metrics by individual nodes from the BT action menu doesn't show data on SaaS Controller	CORE-69796

4.1.10.4 Updates

Resolved Issues

Component	Summary	Key
.NET Agent	Access violation exception occurs when installing agent on 32-bit application running on 64-bit machine	CORE-65973
Controller-Platform	Slow Controller startup with large number of metrics (around a million or more) in a single application	CORE-72722
JSAgent	adrum-ext causing unresponsive script errors in certain scenarios	CORE-70942

4.1.10.5 Updates

The 4.1.10.5 release was not made generally available.

4.1.10.6 Updates

Resolved Issues

Component	Summary	Key
.NET Agent	Microsoft CRM process frequently crashes	CORE-71146

4.1.10.7 Updates

Resolved Issues

Component	Summary	Key
Controller-Platform	Metric browser event query not scalable resulting in dashboard performance problems	CORE-79347

4.1.10.8 Updates

Along with the issues listed below, this release resolves an important security issue related to user permissions in the Controller.

Resolved Issues

Components	Summary	Key
Apache Web Server Agent, NativeAgent	Apache agent stops reporting business transactions with 100 business transaction entries	CORE-80815
Controller-Platform	Controller issues due to simultaneous execution of identical queries.	CORE-79347